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## TRANSMITTAL

DATE: September 29, 2014 REFERENCE NO.: 062027

PROJECT NAME: 200 South Railroad Avenue, Ellensburg,  
WA

To: Mr. John Mefford, LG  
Toxics Cleanup Program/Central Regional Office  
Washington State Department of Ecology  
15 W Yakima Avenue, Suite 200  
Yakima, WA 98902

Please find enclosed:  Draft  Final  
 Originals  Other  
 Prints

Sent via:  Mail  Same Day Courier  
 Overnight Courier  Other

QUANTITY	DESCRIPTION
1	Subsurface Investigation Report

As Requested  For Review and Comment  
 For Your Use  \_\_\_\_\_  
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**COMMENTS:**

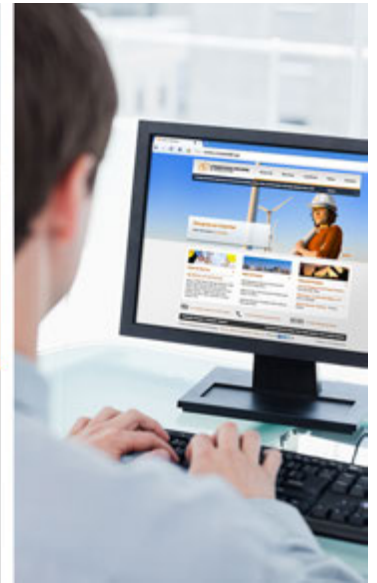
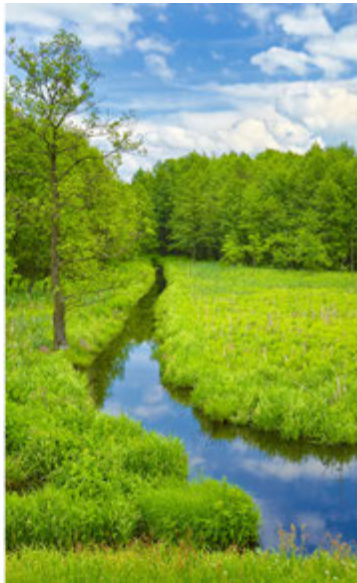
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\_\_\_\_\_  
\_\_\_\_\_

Copy to: Perry Pineda, Shell Oil Products US;  
Andy Erickson, SmithKem

Completed by: Brian Peters  
[Please Print]

Signed: 

Filing: **Correspondence File**



## Subsurface Investigation Report

Smith Kem Facility  
Shell Oil Products Us  
200 Railroad Avenue South  
Ellensburg, Washington

### Conestoga-Rovers & Associates

20818 44th Ave. West, Suite 190  
Lynnwood, Washington 98036

September 2014 • 062027 • Report No. 4



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## Subsurface Investigation Report

Smith Kem Facility  
Shell Oil Products Us  
200 Railroad Avenue South  
Ellensburg, Washington

Location No. 7970446  
Incident No. 7970447  
Agency No. 12832256

Christina McClelland

Brian Peters, LG

### **Conestoga-Rovers & Associates**

20818 44<sup>TH</sup> Avenue West, Ste 190  
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BRIAN C. PETERS

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## Section 1.0 Introduction

### 1.1 General

Conestoga-Rovers & Associates (CRA) prepared this report on behalf of Shell Oil Products US (SOPUS; herein referred to as 'Shell') to document the subsurface investigations performed in 2013 at the Smith-Kem facility located at 200 Railroad Avenue South, Ellensburg, Kittitas County, Washington (Property; Figure 1).

The objectives of these investigations were to identify the source of the groundwater impact in the vicinity of the existing building to the eastern property boundary and to establish a permanent monitoring well network in the areas indicating petroleum hydrocarbon impacts to groundwater, to evaluate groundwater quality conditions over time, and to determine the groundwater flow direction and potential seasonal variability in groundwater flow.

### 1.2 Site Description and Background

The site is a former Shell bulk terminal facility that currently operates as Smith-Kem, Inc., a fertilizer storage and distribution facility. According to historical Sanborn Maps, the original Shell bulk oil facility at the site was constructed in approximately 1928, consisting of a warehouse building, loading platform, two fire hydrants, two oil pumps, and two aboveground storage tanks (ASTs). The former configuration of the facility is presented on Figure 2 and is based on the historical records research and discussions with the current property owner. Shell sold the Property, including all buildings and land improvements, to James R. and Jean Smith of Ellensburg, Washington, on November 30, 1972.

The 1928 Sanborn Map indicates that the warehouse building was used for bulk oil products storage in the northern half of the building and vehicle storage in the southern half of the building. Shell used at least two ASTs at the Property, but the exact number of ASTs used for bulk oil storage by the Shell facility is currently unknown. Historical documentation suggests that Shell stored oil products (and perhaps diesel products) at the facility, but there is no documentation indicating that gasoline was stored or used as part of Shell former operations. There are multiple ASTs currently at the Property, and evidence on the concrete pad of the containment area of at least four additional historical ASTs. Currently, the site operates as a fertilizer storage and distribution facility.

Based on historical documentation, the Shell facility is believed to have received, stored, and distributed bulk oil products, though exact unloading, storage, and distribution procedures are unknown. Additionally, aboveground piping may have historically run from the rail spur along the eastern property boundary to the eastern wall of the original warehouse building (Figure 2).

In July 2007, Sage Earth Sciences, Inc. sampled soil and groundwater from 14 test pits (TP-1 through TP-14) at the site. Select soil and grab groundwater samples were submitted for analysis, and total petroleum hydrocarbons (TPH) as diesel (TPHd) were reported at concentrations greater than the Washington State Department of Ecology's (Ecology) Model Toxics Control Act (MTCA) Method A cleanup level in soil at location TP-1 (Figure 3), and in groundwater in test pits TP-1, TP-2, TP-10, and TP-11. TPHd results were reported as combined with TPH as heavy oil (TPHo) results, and concentrations reported by Sage are the sum of the TPHd and TPHo ranges in samples analyzed. Separate phase hydrocarbons (SPH) were observed floating on groundwater in test pit TP-12 at an approximate thickness of 1/8 inch, at approximately 7 feet below ground surface (bgs). A petroleum sheen was reportedly observed on groundwater in test pit TP-1 at approximately 5.5 feet bgs.

On March 17, 2008, a release of petroleum hydrocarbons was reported to Ecology. The Property was entered into Ecology's Voluntary Cleanup Program (VCP) in June 2012, and was subsequently removed from the VCP in October 2012 by the current property owner. In a letter dated November 15, 2012, Shell accepted responsibility as a potentially liable party (PLP) for the petroleum hydrocarbon release associated with historical bulk oil facility operations. However, Shell did not accept PLP status for any historical releases of metals or pesticides related to the fertilizer storage, production, or distribution operations at the site, which are believed to have shared the site since the late 1940s.

A summary of previous site activities and correspondence is included as Appendix A.

## **Section 2.0 Site Investigation Activities**

### **2.1 June 2013 Investigation**

CRA performed a site investigation on June 10 through 13, 2013 for the purpose of confirming soil and groundwater conditions as reported by Sage in 2007. Eleven soil borings were advanced across the site by Cascade Drilling LLP (Cascade), under CRA's direction, in areas previously identified as being impacted as well as areas intended to define the extent of any historical release of petroleum hydrocarbons. Ten of the borings were converted to temporary monitoring wells for the purpose of collecting representative groundwater quality data across the site in order to design a permanent monitoring well network.

Soil borings were advanced to approximately 15 feet bgs in borings SB-1 through 10, and 1.5 feet bgs in boring SB-11. Select soil samples were collected from each boring dependent upon conditions encountered in the field. Temporary monitoring wells were installed in borings SB-1 through SB-10. The temporary wells were installed with 2-inch polyvinyl chloride (PVC)

perforated screen from approximately 3 to 13 feet bgs and blank PVC casing from ground surface to 3 feet bgs. The annular space was filled with clean sand to approximately 2 feet bgs. CRA used a peristaltic pump to collect groundwater samples after a minimal purge time to remove suspended sediment. Upon collection of groundwater samples, the wells were properly decommissioned by filling the well casing with hydrated bentonite chips and sealed at the surface with concrete.

Boring logs are presented in Appendix B. The depths of soil samples selected for laboratory analysis along with analytical results are presented in Table 1. Analytical results for groundwater samples are presented in Table 2.

The results of soil sample laboratory analysis indicated that only two of the samples (SB-6 at 7 feet bgs and SB-11 at 0.5 feet bgs) contained TPH as gasoline (TPHg) concentrations exceeding the MTCA Method A cleanup level. Petroleum hydrocarbon compounds in all other soil samples were either below MTCA Method A cleanup levels or below the laboratory reporting limits. The results of groundwater sample laboratory analysis indicated the majority of petroleum hydrocarbon impact in the diesel and heavy oil range was located in the vicinity of the suspected former above ground piping run to the railroad spur located on the eastern side of the site, however, minor TPH compounds were detected in the majority of the groundwater samples from the central and northern portion of the site.

## **2.2 October 2013 Site Investigation**

Between September 30 and October 4, 2013, Cascade, under CRA's direction, advanced ten soil borings (MW-1 through MW-8, SB-12 and SB-13) using a hollow-stem auger drill rig to depths ranging from 10 to 14 feet bgs. Eight of the borings were completed as monitoring wells. The boring logs and well construction details are presented in Appendix B.

Soil samples were collected at 2, 5, and 10 feet bgs using a split-spoon sampler for field screening and soil classification. Select soil samples from each boring were submitted for laboratory analysis. Laboratory analytical data are presented in Table 1, and included in Appendix C.

## **2.3 Well Development, Survey, and Groundwater Sampling**

Wells MW-1 through MW-8 were developed by Blaine Tech Services, Inc. (Blaine) on October 28, 2013. Well development included surging and bailing to remove sediment within the well casing. Well development continued until conditions (temperature, pH, conductivity, and turbidity) stabilized. Blaine sampled all wells on November 11, 2013 and again on March 20, 2014. Blaine field data sheets are included in Appendix D. All monitoring wells were



surveyed for coordinate positions by a licensed surveyor. Survey data are included in Appendix E.

## **2.4 Investigation Derived Waste**

Investigation derived waste (IDW) generated during the investigation included soil cuttings, decontamination water, and purge water. Purge water was transported by Blaine to a bulk tank for storage and subsequent disposal. All other waste was stored on the Property in United States Department of Transportation compliant 55-gallon drums. IDW was removed from the Property on March 20, 2014 in accordance with SOPUS waste disposal requirements. Waste disposal documentation is not yet available, but will be provided under separate cover.

## **Section 3.0 Investigation Results**

### **3.1 Site Geology and Hydrogeology**

The Property is underlain by alluvium consisting of sand, silty sand, and gravel with or without cobbles to the total explored depth of 15 feet bgs. Lenses of silt were present in a few of the boring locations, but this does not appear to be laterally continuous. Boring logs are included as Appendix B.

Groundwater was encountered during drilling at depths of approximately 3.5 to 5 feet bgs. Historical groundwater elevations are presented on Table 2. Based on the three sampling events conducted, groundwater appears to flow toward the southwest.

### **3.2 Analytical Results – Soil**

A total of sixteen soil samples were submitted to TestAmerica for analysis from the October 2013 investigation. The soil samples were analyzed for TPHg by Method NWTPH-Gx, TPH as diesel (TPHd) and TPH as oil (TPHo) by Method NWTPH-Dx, and benzene, toluene, ethylbenzene and total xylenes (BTEX) by EPA Method 8260B. Select samples were analyzed for 1,2-dibromoethane (EDB) and 1,2-dichloroethane (EDC) by EPA Method 8260B, total lead by EPA Method 6020, methyl tertiary butyl ether (MTBE) and diisopropyl ether (DIPE) by EPA Method 8260B, naphthalenes and carcinogenic polynuclear aromatic hydrocarbons (cPAHs) by EPA Method 8270, and polychlorinated biphenyls (PCBs) by EPA Method 8082.

Only two of the sixteen soil samples contained any concentrations exceeding MTCA Method A cleanup levels. Soil collected from MW-1 at 2 feet bgs contained cPAHs exceeding the MTCA Method A cleanup level, and soil collected from MW-5 at 5 feet bgs contained TPHg exceeding the MTCA Method A cleanup levels. All other concentrations were either below laboratory

reporting limits or below MTCA Method A cleanup levels. Soil sample analytical results for the current investigation as well as historical soil analytical data are presented in Table 1. A soil investigation data map is included as Figure 3. Laboratory analytical reports for the current investigation are included in Appendix C.

### **3.3 Analytical Results – Groundwater**

Blaine sampled all site monitoring wells on November 11, 2013, March 20, 2014, May 22, 2014, and August 5, 2014. Groundwater samples were analyzed for TPHg by Method NWTPH-Gx, TPHd and TPHo by Method NWTPH-Dx, BTEX by EPA Method 8260B, EDB by EPA Method 8011, EDC by EPA Method 8260B, MTBE, tertiary butyl alcohol (TBA), DIPE, ethyl tertiary butyl ether (ETBE), and tertiary amyl methyl ether (TAME) by EPA Method 8260B. Blaine's field data sheets for the each of the sampling events are included in Appendix D.

Groundwater from monitoring wells MW-4 and MW-6 contained TPHd concentrations exceeding MTCA Method A cleanup levels during November 2013 and March 2014, however, TPHd concentrations were below MTCA Method A cleanup levels in all wells in May and August 2014. No other concentrations exceeded MTCA Method A cleanup levels in any wells. All groundwater monitoring data collected to date are presented in Table 2. The laboratory analytical reports for the groundwater sampling events are provided in Appendix F. A groundwater elevation contour and chemical concentration map for the August 2014 event is included as Figure 4. The groundwater flow direction has been consistently to the southwest for all four sampling events.

## **Section 4.0 Conclusions and Recommendations**

Results of CRA's 2013 investigations and previous investigations indicate that soil impacted by TPHg, TPHd, and TPHo, lead, and/or cPAHs is present in three locations on the Property; along the eastern Property boundary adjacent to the railroad tracks (SB-6 and MW-5), beneath and adjacent to the current office in the center of the Property (S1, S2, S4, MW-1, and SB-11), and to the west of several former ASTs (TP-1). Grab groundwater analytical results indicated groundwater impacts in the same areas; however, monitoring well results indicate low level groundwater impacts solely in wells MW-4 (along the northeast Property boundary) and MW-6 (south of the current shipping containers and north of the former pumps). Concentrations in groundwater from the monitoring wells are an order of magnitude lower than concentrations in grab groundwater, indicating that grab groundwater results may have been elevated due to suspended solids in the sample. Furthermore, petroleum hydrocarbon impacts to groundwater in wells MW-4 and MW-6 have been below MTCA Method A cleanup levels for the past two quarterly sampling events.

CRA recommends continued groundwater sampling events to determine compliance with seasonal changes in groundwater elevation and flow direction. Based on the current data, CRA will engage Ecology and begin to evaluate options for progression of the site toward a No Further Action determination.

## Figures

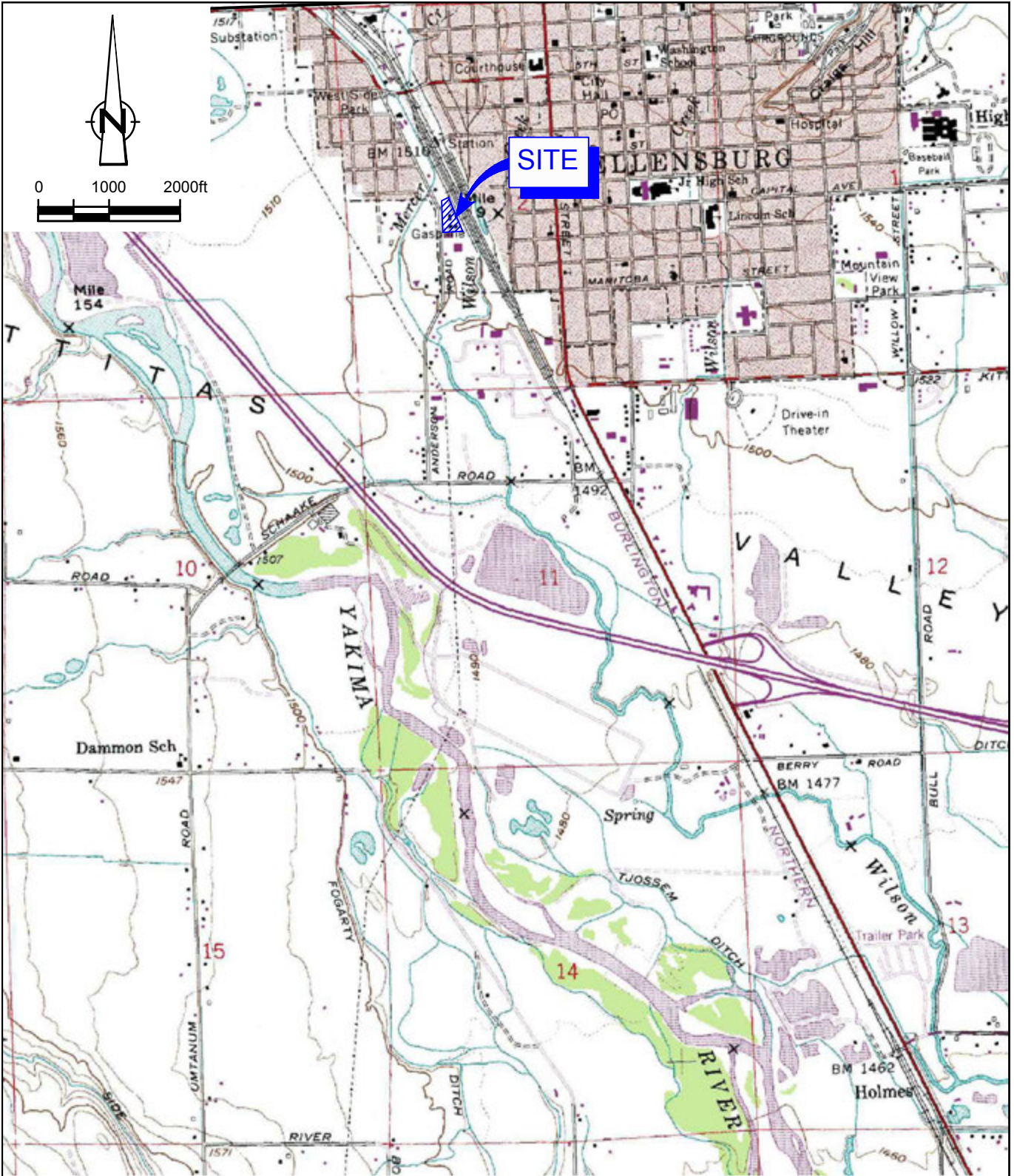
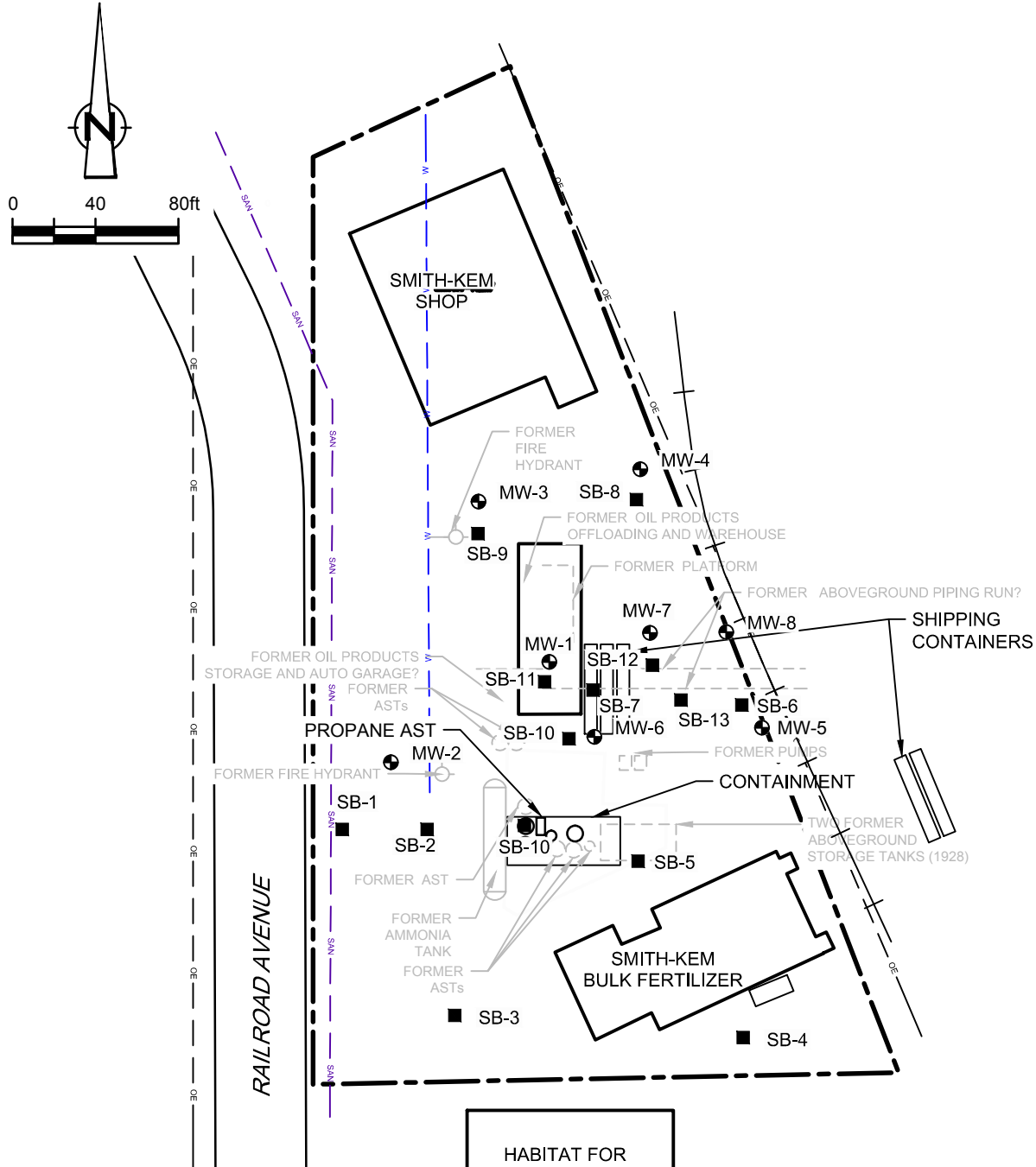


figure 1

VICINITY MAP  
 SMITH-KEM FACILITY  
 SHELL OIL PRODUCTS US  
 200 RAILROAD AVENUE SOUTH  
*Ellensburg, Washington*



SOURCE: USGS QUADRANGLE MAP - ELLENSBURG SOUTH WA-046120H5  
 DATE-1978



**LEGEND**

- PROPERTY BOUNDARY
- RAILROAD
- FENCE
- WATER LINE
- SEWER LINE
- OVERHEAD ELECTRIC
- MW-5 MONITORING WELL LOCATION
- SB-11 SOIL BORING LOCATION

**NOTES:**

1. CONCRETE CONTAINMENT BERM WAS BUILT BY SMITH-KEM.
2. OFFICE BUILDING IS ORIGINAL SHELL FACILITY STRUCTURE.

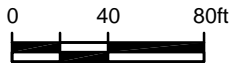
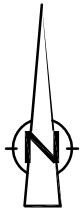


figure 2

**SITE PLAN  
SMITH-KEM FACILITY  
SHELL OIL PRODUCTS US  
200 RAILROAD AVENUE SOUTH  
Ellensburg, Washington**



SOURCE: LIMITED SITE CHARACTERIZATION REPORT, JULY 26, 2007;  
1928 SANBORN MAP



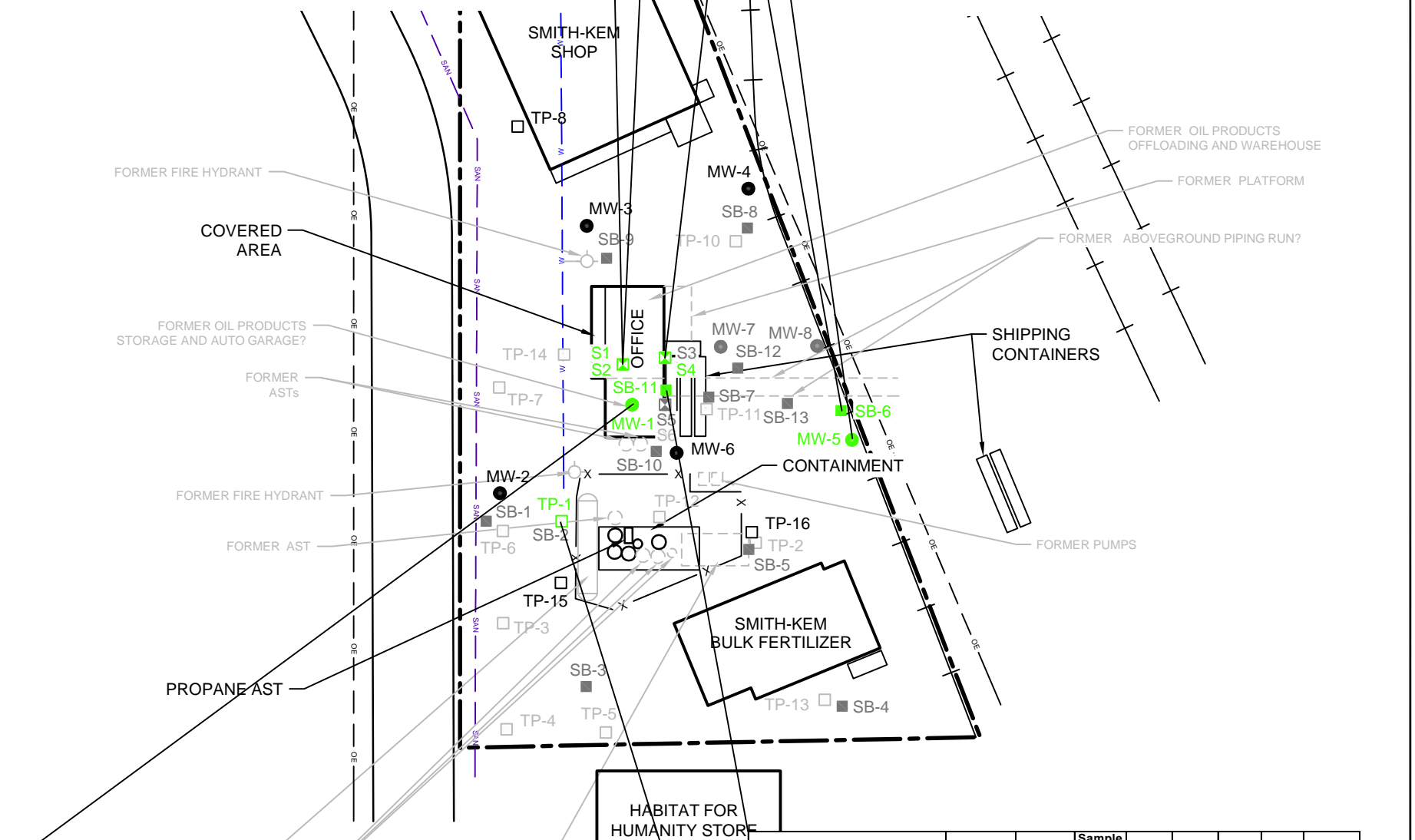
Sample ID	Consultant	Date	Sample Depth ft	TPHg mg/kg	TPHd mg/kg	TPHo mg/kg	Lead mg/kg	cPAHs mg/kg
SK1-0112-S4	SAGE 2012	7/17/2012	1	<20 b	3,400	1,200	---	---

Sample ID	Consultant	Date	Sample Depth ft	TPHg mg/kg	TPHd mg/kg	TPHo mg/kg	Lead mg/kg	cPAHs mg/kg
SK1-0112-S2	SAGE 2012	7/17/2012	1	<20 b	770	3,300	---	---

Sample ID	Consultant	Date	Sample Depth ft	TPHg mg/kg	TPHd mg/kg	TPHo mg/kg	Lead mg/kg	cPAHs mg/kg
SO-062027-061313-SB-6-7	CRA 2013	6/13/2013	7.0	103	34.8	<4.97	---	---

Sample ID	Consultant	Date	Sample Depth ft	TPHg mg/kg	TPHd mg/kg	TPHo mg/kg	Lead mg/kg	cPAHs mg/kg
SK1-0112-S1	SAGE 2012	7/17/2012	0.2	<20 b	1,500	6,800	---	---

Sample ID	Consultant	Date	Sample Depth ft	TPHg mg/kg	TPHd mg/kg	TPHo mg/kg	Lead mg/kg	cPAHs mg/kg
SO-062027-100313-MW-5-5	CRA 2013	10/3/2013	5.0	472	<4.80	<4.80	1.69	<0.00352



Sample ID	Consultant	Date	Sample Depth ft	TPHg mg/kg	TPHd mg/kg	TPHo mg/kg	Lead mg/kg	cPAHs mg/kg
SO-062027-100113-MW-1-2	CRA 2013	10/1/2013	2.0	<3.83	<4.92	12.5	30.5	0.17407

Sample ID	Consultant	Date	Sample Depth ft	TPHg mg/kg	TPHd mg/kg	TPHo mg/kg	Lead mg/kg	cPAHs mg/kg
SO-062027-061113-SB-11-0.5a	CRA 2013	6/11/2013	0.5	193	25	91.5	251	0.02

Sample ID	Consultant	Date	Sample Depth ft	TPHg mg/kg	TPHd mg/kg	TPHo mg/kg	Lead mg/kg	cPAHs mg/kg
BSE-0107-S2 (TP-1)	SAGE 2007	6/11/2007	5.0	<20 b	7,400 c	<250 b	---	---

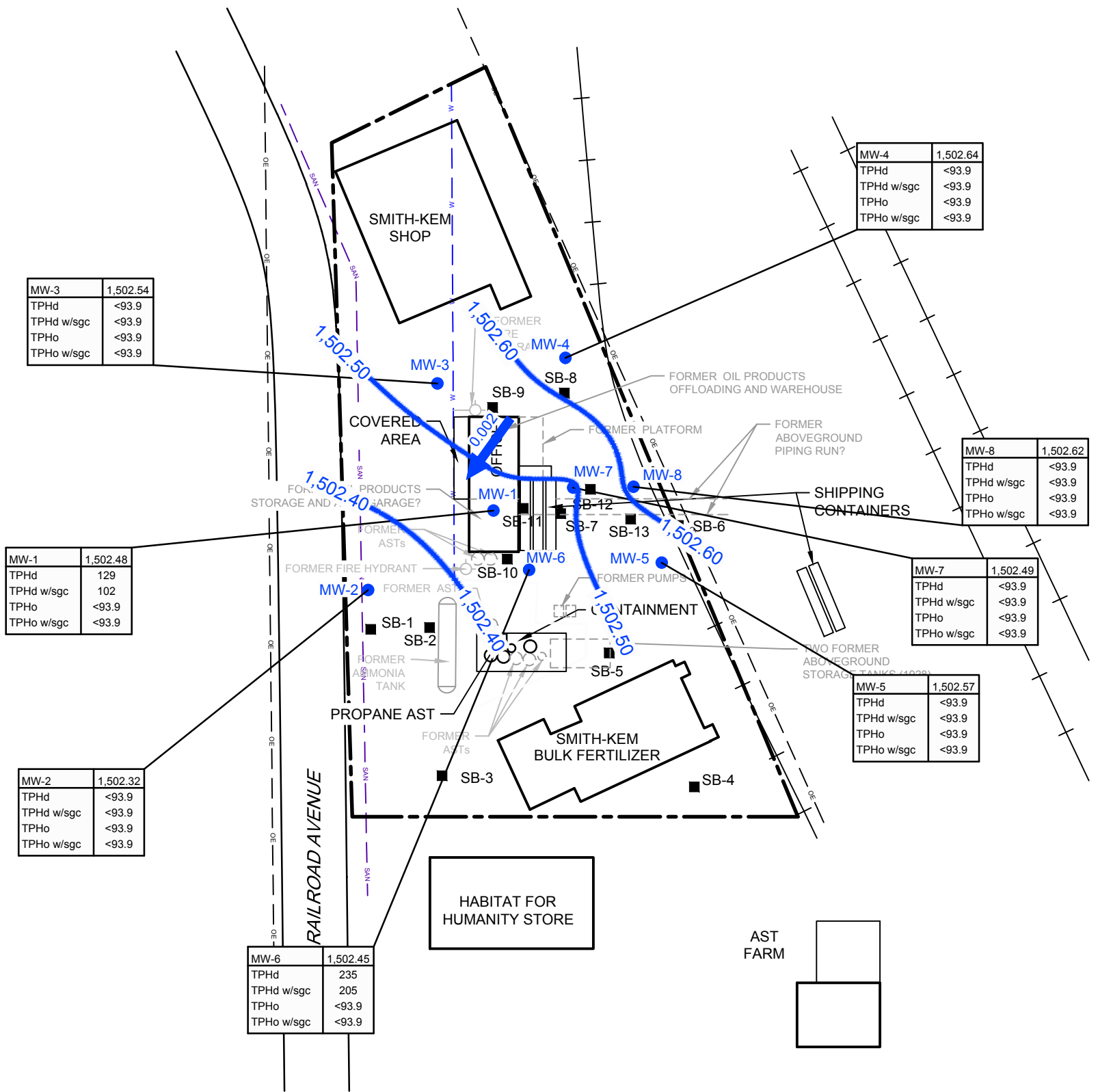
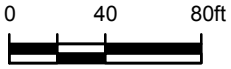
- LEGEND**
- PROPERTY BOUNDARY
  - RAILROAD
  - FENCE
  - WATER LINE
  - SEWER LINE
  - OVERHEAD ELECTRIC
  - MW-1 ● MONITORING WELL LOCATION
  - TP-1 □ TEST PIT LOCATION (SAGE ENVIRONMENTAL)
  - S1 ■ SOIL SAMPLE LOCATION (SAGE ENVIRONMENTAL)
  - SB-11 ■ SOIL BORING LOCATION
  - INDICATES ALL CONCENTRATIONS WERE BELOW LABORATORY REPORTING LIMITS
  - INDICATES AT LEAST ONE CONCENTRATION WAS DETECTED ABOVE THE LABORATORY REPORTING LIMITS, BUT NO CONCENTRATION WAS GREATER THAN THE MTCA METHOD A CLEANUP LEVELS
  - INDICATES AT LEAST ONE CONCENTRATION WAS GREATER THAN THE MTCA METHOD A CLEANUP LEVELS
  - NO SOIL SAMPLES WERE SUBMITTED FOR ANALYSIS

- NOTES:**
- CONCRETE CONTAINMENT BERM WAS BUILT BY SMITH-KEM.
  - OFFICE BUILDING IS ORIGINAL SHELL FACILITY STRUCTURE.

figure 3  
 SOIL INVESTIGATION DATA MAP  
 SMITH-KEM FACILITY  
 SHELL OIL PRODUCTS US  
 200 RAILROAD AVENUE SOUTH  
 Ellensburg, Washington



SOURCE: LIMITED SITE CHARACTERIZATION REPORT, JULY 26, 2007;  
 1928 SANBORN MAP



- LEGEND**
- — — — — PROPERTY BOUNDARY
  - +—+—+— RAILROAD
  - x—x—x— FENCE
  - w—w—w— WATER LINE
  - san—san—san— SEWER LINE
  - oe—oe—oe— OVERHEAD ELECTRIC
  - MW-1 ● MONITORING WELL LOCATION
  - SB-11 ■ SOIL BORING LOCATION

- 1,502.40 ——— GROUNDWATER ELEVATION CONTOUR, IN FEET, REFERENCED TO AN ARBITRARY DATUM
- 0.002 → GROUNDWATER FLOW DIRECTION AND GRADIENT
- SAMPLE LOCATION
- MW-6 1,502.45 GROUNDWATER ELEVATION (MSL)
- TPHd 235 RESULT
- TPHo <93.9 PARAMETER

- NOTES:**
1. TPHg = TOTAL PETROLEUM HYDROCARBONS AS GASOLINE RANGE.
  2. w/sgc = WITH SILICA GEL CLEANUP.
  3. ALL CONCENTRATIONS REPORTED IN MICROGRAMS PER LITER (µg/L).

**NOTES:**

1. CONCRETE CONTAINMENT BERM WAS BUILT BY SMITH-KEM.
2. OFFICE BUILDING IS ORIGINAL SHELL FACILITY STRUCTURE.

SOURCES: LIMITED SITE CHARACTERIZATION REPORT, JULY 26, 2007;  
1928 SANBORN MAP;  
STATEWIDE LAND SURVEYING INC., PROJECT 2013-118, 10/28/13,  
WASHINGTON STATE PLANE SOUTH, US SURVEY FEET.

figure 4  
GROUNDWATER CONTOUR AND CHEMICAL CONCENTRATION MAP - AUGUST 5, 2014  
SMITH-KEM FACILITY  
SHELL OIL PRODUCTS US  
200 RAILROAD AVENUE SOUTH  
Ellensburg, Washington





# Tables



TABLE 1

SUMMARY OF SOIL ANALYTICAL DATA  
200 RAILROAD AVENUE SOUTH  
ELLENSBURG, WASHINGTON

Sample ID	Consultant	Date	Sample Depth MTCA Method A Cleanup Levels ft	PRIMARY VOCs								METALS								OXYGENATES					PAHs		PCBs	
				TPHg	TPHd	TPHo	B	T	E	X	EDB	EDC	Arsenic	Barium	Cadmium	Chromium VI/ Chromium	Lead	Mercury	Selenium	Silver	MTBE	TBA	DIPE	ETBE	TAME	Naphthalene <sup>1</sup>	cPAHs <sup>2</sup>	PCBs
				30/100	2,000	2,000	0.03	7	6	9	0.005	NE	20	NE	2	19/2,000	250	2	NE	NE	0.1	NA	NA	NA	NA	0.1	0.1	1
SO-062027-061313-SB-10-11	CRA 2013	6/13/2013	11.0	<2.11	<4.90	<4.90	<0.000741	<0.000741	<0.000741	<0.00185	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
SO-062027-061313-SB-10-15	CRA 2013	6/13/2013	15.0	<3.90	<4.96	<4.96	<0.000768	<0.000768	<0.000768	<0.00192	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
SO-062027-061113-SB-11-0.5a	CRA 2013	6/11/2013	0.5	<b>193</b>	25	91.5	0.00503	0.0044	<0.00246	<0.00615	<0.00246	<0.00246	---	---	---	---	---	---	---	<0.00246	---	<0.00246	---	---	0.0149	0.02	<0.0327	
SO-062027-061113-SB-11-1	CRA 2013	6/11/2013	1.0	22.7	28.6	111	0.00191	<0.00176	<0.00176	<0.00439	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
SO-062027-100113-MW-1-2	CRA 2013	10/1/2013	2.0	<3.83	<4.92	12.5	0.00268	0.00130	<0.00110	<0.00165	<0.000548	<0.00110	---	---	---	---	---	---	---	<0.00110	---	---	---	---	<0.00381 / <0.18:	<b>0.17407</b>	<0.0374	
SO-062027-100313-MW-1-5	CRA 2013	10/4/2013	5.0	<4.02	<4.88	<4.88	0.00230	0.00156	<0.00150	<0.00224	<0.000748	<0.00150	---	---	---	---	---	---	---	<0.00150	---	---	---	---	<0.232 / <0.00381	<0.232	<0.0387	
SO-062027-093013-MW-5-2	CRA 2013	9/30/2013	2.0	<4.99	16.3	6.80	0.00509	0.00210	<0.00124	<0.00186	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
SO-062027-100313-MW-5-5	CRA 2013	10/3/2013	5.0	<b>472</b>	<4.80	<4.80	<0.00115	<0.00115	<0.00522	<0.00173	<0.000575	<0.00115	---	---	---	---	---	---	---	<0.00115	---	---	---	---	<0.00352 / <0.0021	<0.00352	<0.0352	
SO-062027-100313-MW-5-10	CRA 2013	10/3/2013	10.0	9.34	947	22.6	<0.00105	<0.00105	<0.00105	<0.00158	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
SO-062027-100113-MW-7-2	CRA 2013	10/1/2013	2.0	<4.75	<5.00	<5.00	0.00177	<0.00146	<0.00146	<0.00219	<0.000730	<0.00146	---	---	---	---	---	---	---	<0.00146	---	---	---	---	<0.00383 / <0.0031	0.0313	<0.0384	
SO-062027-100313-MW-7-5	CRA 2013	10/3/2013	5.0	<4.36	<4.88	<4.88	<0.00175	<0.00175	<0.00175	<0.00263	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
SO-062027-100313-MW-7-10	CRA 2013	10/3/2013	10.0	<3.02	<4.81	<4.81	<0.00122	<0.00122	<0.00122	<0.00183	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
SO-062027-100113-MW-8-2	CRA 2013	10/1/2013	2.0	<4.56	6.84	10.7	0.00246	<0.00199	<0.00199	<0.00298	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
SO-062027-100313-MW-8-5	CRA 2013	10/3/2013	5.0	10.6	5.81	10.3	<0.00155	<0.00155	<0.00155	<0.00233	<0.000776	<0.00155	---	---	---	---	---	---	---	<0.00155	---	---	---	---	<0.00388 / <0.0031	<0.00388	<0.0375	
SO-062027-100313-MW-8-10	CRA 2013	10/3/2013	10.0	<3.02	<5.00	<5.00	<0.00150	<0.00150	<0.00150	<0.00225	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
SO-062027-100313-SB-12-5	CRA 2013	10/3/2013	5.0	3.66	<4.95	<4.95	<0.00118	<0.00118	<0.00118	<0.00178	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
SO-062027-100313-SB-12-10	CRA 2013	10/3/2013	10.0	3.58	<4.98	<4.98	<0.00136	<0.00136	<0.00136	<0.00204	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
SO-062027-100113-SB-13-2	CRA 2013	10/1/2013	2.0	<5.76	<4.95	<4.95	0.00506	<0.00207	<0.00207	<0.00311	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
SO-062027-100313-SB-13-5	CRA 2013	10/3/2013	5.0	10.0	<4.90	<4.90	<0.00121	<0.00121	<0.00121	<0.00182	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
SO-062027-100313-SB-13-10	CRA 2013	10/3/2013	10.0	<3.31	<4.98	<4.98	<0.00142	<0.00142	<0.00142	<0.00212	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

Notes:

-- = Not analyzed  
 All results in milligrams per kilogram (mg/kg) unless otherwise indicated.  
 Results in bold indicate an exceedance of the MTCA Method A cleanup level.  
 bgs = below ground surface (in feet)  
 TPHg = Total petroleum hydrocarbons as gasoline analyzed by method NWTPH-Gx; in 1995, analyzed by method WTPH-G.  
 TPHd = Total petroleum hydrocarbons as diesel analyzed by NWTPH-Dx with silica gel cleanup; in 1995, analyzed by WTPH-D extended.  
 TPHo = Total petroleum hydrocarbons as motor oil analyzed by NWTPH-Dx with silica gel cleanup; in 1995, analyzed by WTPH-D extended.  
 BTEX = Benzene, toluene, ethylbenzene, and xylenes analyzed by EPA Method 8260B; in 2002, analyzed by EPA Method 8021B; in 1995, analyzed by EPA Method 8020.  
 EDB = 1,2 Dibromoethane analyzed by EPA Method 8011.  
 EDC = 1,2 Dichloroethane analyzed by EPA Method 8260B.  
 MTBE = Methyl tertiary-butyl ether analyzed by EPA Method 8260B.  
 TBA = Tertiary-butanol analyzed by EPA Method 8260B.  
 DIPE = Di-isopropyl ether analyzed by EPA Method 8260B.  
 ETBE = Ethyl tertiary-butyl ether analyzed by EPA Method 8260B.  
 TAME = Tertiary-amyl methyl ether analyzed by EPA Method 8260B.  
 VOCs = Volatile Organic Compounds analyzed by EPA Method 8260B.  
 PCBs = Polychlorinated biphenyls analyzed by EPA Method 8082.  
 cPAHs = Carcinogenic Polycyclic Aromatic Hydrocarbons by EPA Method 8270C SIMS  
 <x = Not detected at reporting limit x  
 MTCA = Model Toxics Control Act  
 NE = Not established  
 mg/kg = milligram per kilogram  
<sup>1</sup> Naphthalene analyzed by EPA Method 8260B and EPA Method 8270C SIM. The higher of the two results reported.  
<sup>2</sup> cPAHs results above laboratory reporting are reported as the total concentration for all cPAHs using toxicity equivalency methodology in WAC 173-340-708(8)  
 a = Sample also analyzed for VPH/EPH per EPA Method NWVPH and NWEPH and hexane per EPA Method 8260B.

TABLE 2

SUMMARY OF GROUNDWATER MONITORING DATA  
FORMER SHELL-BRANDED SERVICE STATION  
200 RAILROAD AVENUE  
ELLENSBURG, WASHINGTON

Sample ID	Date	TOC Model	DTW Toxics	GWE Control Act	HYDROCARBONS			VOCs					OXYGENATES					
					TPHg 800/1000	TPHd 500	TPHo 500	B 5	T 1000	E 700	X 1000	EDB 0.01	EDC 5	MTBE 20	TBA N/A	DIPE N/A	ETBE N/A	TAME N/A
MW-1	10/28/13	1,507.56	5.11	1,502.45	---	---	---	---	---	---	---	---	---	---	---	---	---	---
MW-1	11/11/13	1,507.56	5.08	1,502.48	<500	177 / 178	<105 / <100	<1.00	<1.00	<1.00	<2.00	<0.00200	<1.00	<1.00	<10.0	<2.00	<1.00	<1.00
MW-1	03/20/14	1,507.56	4.66	1,502.90	<100	252 / 186	94.1 / <93.5	<1.00	<1.00	<1.00	<3.00	<0.0200	<1.00	---	---	---	---	
MW-1	05/22/14	1,507.56	6.22	1,501.34	<100	<93.9 / 95.5	<93.9 / <93.9	<1.00	<1.00	<1.00	<2.00	<0.0101	<1.00	---	---	---	---	
MW-1	08/05/14	1,507.56	5.08	1,502.48	<100	102 / 129	<93.9 / <93.9	<1.00	<1.00	<1.00	<2.00	<0.210	<1.00	<1.00	<10.0	<2.00	<1.00	<1.00
MW-2	10/28/13	1,506.75	4.29	1,502.46	---	---	---	---	---	---	---	---	---	---	---	---	---	
MW-2	11/11/13	1,506.75	4.27	1,502.48	<100	<95.2 / <95.2	<95.2 / <95.2	<1.00	<1.00	<1.00	<2.00	<0.00200	<1.00	<1.00	<10.0	<2.00	<1.00	<1.00
MW-2	03/20/14	1,506.75	4.02	1,502.73	<100	<93.5 / <93.5	<93.5 / <93.5	<1.00	<1.00	<1.00	<3.00	<0.0199	<1.00	---	---	---	---	
MW-2	05/22/14	1,506.75	3.89	1,502.86	<100	<93.9 / <93.9	<93.9 / <93.9	<1.00	<1.00	<1.00	<2.00	<0.0102	<1.00	---	---	---	---	
MW-2	08/05/14	1,506.75	4.43	1,502.32	<100	<93.9 / <93.9	<93.9 / <93.9	<1.00	<1.00	<1.00	<2.00	<0.210	<1.00	<1.00	<10.0	<2.00	<1.00	<1.00
MW-3	10/28/13	1,507.23	4.48	1,502.75	---	---	---	---	---	---	---	---	---	---	---	---	---	
MW-3	11/11/13	1,507.23	4.70	1,502.53	<100	<93.5 / <93.5	<93.5 / <93.5	<1.00	<1.00	<1.00	<2.00	<0.00200	<1.00	<1.00	<10.0	<2.00	<1.00	<1.00
MW-3	03/20/14	1,507.23	4.15	1,503.08	<100	<93.5 / <93.5	<93.5 / <93.5	<1.00	<1.00	<1.00	<3.00	<0.0201	<1.00	---	---	---	---	
MW-3	05/22/14	1,507.23	3.87	1,503.36	<100	<93.9 / <93.9	<93.9 / <93.9	<1.00	<1.00	<1.00	<2.00	<0.0101	<1.00	---	---	---	---	
MW-3	08/05/14	1,507.23	4.69	1,502.54	<100	<93.9 / <93.9	<93.9 / <93.9	<1.00	<1.00	<1.00	<2.00	<0.210	<1.00	<1.00	<10.0	<2.00	<1.00	<1.00
MW-4	10/28/13	1,506.25	3.51	1,502.74	---	---	---	---	---	---	---	---	---	---	---	---	---	
MW-4	11/11/13	1,506.25	3.60	1,502.65	<1,000	<b>883 / 720</b>	<b>565 / 302</b>	<10.0	<10.0	<10.0	<20.0	<0.00200	<10.0	<10.0	<100	<20.0	<10.0	<10.0
MW-4	03/20/14	1,506.25	2.70	1,503.55	<500	<b>1,000 / 819</b>	303 / 180	<1.00	<1.00	<1.00	<3.00	<0.0201	<1.00	---	---	---	---	
MW-4	05/22/14	1,506.25	2.67	1,503.58	<100	<94.8 / <94.8	<94.8 / <94.8	<1.00	<1.00	<1.00	<2.00	<0.0102	<1.00	---	---	---	---	
MW-4	08/05/14	1,506.25	3.61	1,502.64	<100	<93.9 / <93.9	<93.9 / <93.9	<1.00	<1.00	<1.00	<2.00	<0.210	<1.00	<1.00	<10.0	<2.00	<1.00	<1.00
MW-5	10/28/13	1,506.69	4.11	1,502.58	---	---	---	---	---	---	---	---	---	---	---	---	---	
MW-5	11/11/13	1,506.69	4.08	1,502.61	<100	<105 / <105	<105 / <105	<1.00	<1.00	<1.00	<2.00	<0.00200	<1.00	<1.00	<10.0	<2.00	<1.00	<1.00
MW-5	03/20/14	1,506.69	3.38	1,503.31	<100	<93.5 / <93.5	<93.5 / <93.5	<1.00	<1.00	<1.00	<3.00	<0.0205	<1.00	---	---	---	---	
MW-5	05/22/14	1,506.69	3.19	1,503.50	<100	<93.9 / <93.9	<93.9 / <93.9	<1.00	<1.00	<1.00	<2.00	<0.0101	<1.00	---	---	---	---	
MW-5	08/05/14	1,506.69	4.12	1,502.57	<100	<93.9 / <93.9	<93.9 / <93.9	<1.00	<1.00	<1.00	<2.00	<0.210	<1.00	<1.00	<10.0	<2.00	<1.00	<1.00
MW-6	10/28/13	1,507.17	4.72	1,502.45	---	---	---	---	---	---	---	---	---	---	---	---	---	
MW-6	11/11/13	1,507.17	4.80	1,502.37	<500	<b>758 / 841</b>	149 / <95.2	<1.00	<1.00	<1.00	<2.00	<0.00200	<1.00	<1.00	<10.0	<2.00	<1.00	<1.00
MW-6	03/20/14	1,507.17	4.30	1,502.87	<100	<b>594 / 514</b>	139 / 120	<1.00	<1.00	<1.00	<3.00	<0.0199	<1.00	---	---	---	---	
MW-6	05/22/14	1,507.17	4.12	1,503.05	<100	383 / 432	<93.9 / <93.9	<1.00	<1.00	<1.00	<2.00	<0.0101	<1.00	---	---	---	---	
MW-6	08/05/14	1,507.17	4.72	1,502.45	<100	235 / 205	<93.9 / <93.9	<1.00	<1.00	<1.00	<2.00	<0.210	<1.00	<1.00	<10.0	<2.00	<1.00	<1.00
MW-7	10/28/13	1,506.83	4.21	1,502.62	---	---	---	---	---	---	---	---	---	---	---	---	---	
MW-7	11/11/13	1,506.83	4.30	1,502.53	<100	<111 / <100	<111 / <100	<1.00	<1.00	<1.00	<2.00	<0.00200	<1.00	<1.00	<10.0	<2.00	<1.00	<1.00
MW-7	03/20/14	1,506.83	3.62	1,503.21	<100	<93.5 / <93.5	<93.5 / <93.5	<1.00	<1.00	<1.00	<3.00	<0.0204	<1.00	---	---	---	---	
MW-7	05/22/14	1,506.83	3.51	1,503.32	<100	<93.9 / <93.9	<93.9 / <93.9	<1.00	<1.00	<1.00	<2.00	<0.0100	<1.00	---	---	---	---	
MW-7	08/05/14	1,506.83	4.34	1,502.49	<100	<93.9 / <93.9	<93.9 / <93.9	<1.00	<1.00	<1.00	<2.00	<0.210	<1.00	<1.00	<10.0	<2.00	<1.00	<1.00
MW-8	10/28/13	1,506.50	3.83	1,502.67	---	---	---	---	---	---	---	---	---	---	---	---	---	
MW-8	11/11/13	1,506.50	3.90	1,502.60	<500	<96.2 / <100	<96.2 / <100	<1.00	<1.00	<1.00	<2.00	<0.00200	<1.00	<1.00	<10.0	<2.00	<1.00	<1.00
MW-8	03/20/14	1,506.50	3.25	1,503.25	<100	<93.5 / <93.5	<93.5 / <93.5	<1.00	<1.00	<1.00	<3.00	<0.203	<1.00	---	---	---	---	

TABLE 2

SUMMARY OF GROUNDWATER MONITORING DATA  
FORMER SHELL-BRANDED SERVICE STATION  
200 RAILROAD AVENUE  
ELLENSBURG, WASHINGTON

Sample ID	Date	TOC Model	DTW Toxics	GWE Control	HYDROCARBONS			VOCs					OXYGENATES					
					TPHg 800/1000	TPHd 500	TPHo 500	B 5	T 1000	E 700	X 1000	EDB 0.01	EDC 5	MTBE 20	TBA N/A	DIPE N/A	ETBE N/A	TAME N/A
MW-8	05/22/14	1,506.50	3.05	1,503.45	<100	<93.9 / <93.9	<93.9 / <93.9	<1.00	<1.00	<1.00	<2.00	<0.0101	<1.00	---	---	---	---	---
MW-8	08/05/14	1,506.50	3.88	1,502.62	<100	<93.9 / <93.9	<93.9 / <93.9	<1.00	<1.00	<1.00	<2.00	<0.210	<1.00	<1.00	<10.0	<2.00	<1.00	<1.00
SB-1	01/01/09	---	---	---	150	<b>1,550</b>	<b>2,000</b>	<1.00	<1.00	<1.00	<3.00	<0.140	<1.00	<1.00	<10.0	<2.00	<1.00	<1.00
SB-2	06/13/13	---	---	---	<100	<93.5 / 291	<93.5 / 274	<1.00	<1.00	<1.00	<3.00	<0.140	<1.00	<1.00	<10.0	<2.00	<1.00	<1.00
SB-3	06/13/13	---	---	---	<100	<93.5 / 132	<93.5 / 192	<1.00	<1.00	<1.00	<3.00	<0.140	<1.00	<1.00	<10.0	<2.00	<1.00	<1.00
SB-4	06/13/13	---	---	---	<100	115/180	<93.5/154	<1.00	<1.00	<1.00	<3.00	<0.140	<1.00	<1.00	<10.0	<2.00	<1.00	<1.00
SB-5	06/13/13	---	---	---	<100	437 / <b>752</b>	<93.5 / 239	<1.00	<1.00	<1.00	<3.00	<0.140	<1.00	<1.00	<10.0	<2.00	<1.00	<1.00
SB-6	06/13/13	---	---	---	<100	<b>17,900 / 6,300</b>	<b>23,600 / 15,200</b>	2.19	1.60	<1.00	10.7	<0.140	<1.00	<1.00	<10.0	<2.00	<1.00	<1.00
SB-7	06/13/13	---	---	---	<b>5,500</b>	<b>10,500 / 12,700</b>	323 / <b>556</b>	<1.00	<1.00	<1.00	<3.00	<0.140	<1.00	<1.00	<10.0	<2.00	<1.00	<1.00
SB-8	06/13/13	---	---	---	<100	464 / <b>866</b>	181 / 473	<1.00	<1.00	<1.00	<3.00	<0.140	<1.00	<1.00	<10.0	<2.00	<1.00	<1.00
SB-9	06/13/13	---	---	---	<100	<b>619 / 734</b>	352 / <b>525</b>	<1.00	<1.00	<1.00	<3.00	<0.140	<1.00	<1.00	11.6	<2.00	<1.00	<1.00
SB-10	06/13/13	---	---	---	<100	466 / <b>700</b>	148 / 311	<1.00	<1.00	<1.00	<3.00	<0.140	<1.00	<1.00	<10.0	<2.00	<1.00	<1.00

Notes:

DTW = Depth to Water in feet

GWE = Groundwater Elevation in feet relative to mean sea level

TOC = Top of Casing in feet relative to mean sea level

All results in micrograms per liter (µg/L) unless otherwise indicated

TPHg = Total petroleum hydrocarbons as gasoline analyzed by NWTPH-Gx unless otherwise noted.

TPHd = Total petroleum hydrocarbons as diesel, analyzed by NWTPH-Dx unless otherwise noted

TPHo = Total petroleum hydrocarbons as oil, analyzed by NWTPH-Dx unless otherwise noted

BTEx = Benzene, toluene, ethylbenzene, and xylenes analyzed by EPA Method 8260B unless otherwise noted.

EDB = 1,2-Dibromoethane analyzed by EPA Method 8011

EDC = 1,2-Dichloroethane analyzed by EPA Method 8260B

MTBE = Methyl tertiary-butyl ether analyzed by EPA Method 8260B

TBA = Tertiary-butanol analyzed by EPA Method 8260B

DIPE = Di-isopropyl ether analyzed by EPA Method 8260B

ETBE = Ethyl tertiary-butyl ether analyzed by EPA Method 8260B

TAME = Tertiary-amyl methyl ether analyzed by EPA Method 8260B

Total Lead analyzed by EPA Method 6010

VOCs = Volatile organic compounds analyzed by EPA Method 8260B

HVOC = Halogenated volatile organic compounds analyzed by EPA Method 8260B

PAHs = Polycyclic aromatic hydrocarbons analyzed by EPA Method 8270C-SIM

PCBs = Polychlorinated biphenyls analyzed by EPA Method 8082.

&lt;x = Not detected at laboratory reporting limit x

--- = Not analyzed

Concentrations in bold type indicate the analyte was detected above MTCA Method A cleanup levels

\* Indicates that the groundwater sample was analyzed for VOCs. No VOCs were detected above the laboratory reporting limits.

\*\* Indicates that the groundwater sample was analyzed for HVOCs. HVOCs were detected above the laboratory reporting limits.

Isopropylbenzene 47 µg/L, n-propylbenzene 58 µg/L, 1,3,5 trimethylbenzene 66 µg/L, 1,2,4 trimethylbenzene 160 µg/L, sec-butylbenzene 8.8 µg/L, and n-butylbenzene 9.7 µg/L.

TABLE 2

SUMMARY OF GROUNDWATER MONITORING DATA  
 FORMER SHELL-BRANDED SERVICE STATION  
 200 RAILROAD AVENUE  
 ELLENSBURG, WASHINGTON

Sample ID	Date	TOC	DTW	GWE	HYDROCARBONS			VOCs					OXYGENATES				
					TPHg 800/1000	TPHd 500	TPHo 500	B 5	T 1000	E 700	X 1000	EDB 0.01	EDC 5	MTBE 20	TBA N/A	DIPE N/A	ETBE N/A

\*\*\*Indicates that the groundwater sample was analyzed for VOCs. VOCs were detected above the laboratory reporting limits. Refer to corresponding laboratory report.

a = The sample chromatographic pattern for TPH does not match the chromatographic pattern of the specified standard. Quantitation of the unknown hydrocarbon(s) in the sample was based upon the specified standard.

J = Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

\* indicates the soil samples were additionally analyzed for HVOCs; no HVOCs were detected above the laboratory reporting limits

\*\* indicates the soil samples were additionally analyzed for HVOCs, PCBs, and PAHs; no PCBs, cPAHs, or HVOCs were detected above the laboratory reporting limits

\*\*\* indicates the soil samples were additionally analyzed for HVOCs; chloroform was detected at 2.15 µg/L all other analytes were not detected above the laboratory reporting limits

a = Hydrocarbon pattern most closely resembles transformer oil

b = Results in the diesel organics range are primarily due to overlap from a heavy oil range product.

# Appendix A

## Summary of Previous Investigations and Remedial Activities

### **SUMMARY OF PREVIOUS SITE ACTIVITIES AND CORRESPONDENCE**

**2007 Limited Site Characterization:** In July 2007, Sage Earth Sciences, Inc. (Sage) sampled soil and collected grab groundwater samples from 14 test pits (TP-1 through TP-14) in the vicinity of the former Shell bulk oil facility aboveground storage tanks (ASTs), oil pumps, and former storage and platform areas. Test pits were advanced using a backhoe. Concentrations of total petroleum hydrocarbons (TPH) as diesel (TPHd) were greater than the Washington State Department of Ecology's (Ecology) Model Toxics Control Act (MTCA) Method A cleanup levels in soil at 5 feet below ground surface (bgs) in TP-1, and in groundwater at TP-1, TP-2, TP-10, and TP-11. However, the groundwater TPHd concentrations reported were the sum total of TPHd and TPH as heavy oil (TPHo) concentrations, and may be double counting values. Sage observed separate phase hydrocarbons (SPH) at a thickness of 1/8 inch at 7 feet bgs in TP-12. More information is available in *Sage's Limited Site Characterization at the Smith-Kem, Inc. Facility, Ellensburg, WA*, report, dated July 26, 2007.

**September 2009 Sampling Map & Sampling Log:** Sage advanced two additional test pits, TP-15 and TP-16, to a maximum depth of 5.25 feet bgs. Both locations were sampled for soil in the vicinity of historical sampling locations TP-1 and TP-2. No soil data was available for CRA to review, and soil samples collected were not likely submitted for analysis. No groundwater samples were collected. Additional information is available in *Sage's Sampling Map & Sampling Log for the Smith-Kem Inc. Facility, Ellensburg, WA*, dated June 19, 2012.

**July 2012 Soil Sampling:** In July 2012, Sage sampled in the vicinity of the former oil products storage, platform, and piping areas. Historical aboveground piping may have historically extended from the rail spur to the building. Virgin petroleum products were believed to have been transferred and stored in the main Site building. Soil sample results detected TPHd in shallow surface soils (up to 1 foot bgs) at one soil sample location (S5) and TPHo in shallow surface soils (up to 1 feet bgs) at soil sample locations S1, S2, and S4. More information is available in *Sage's Soil Sampling for the Smith-Kem Inc. Facility, Ellensburg, WA*, report, dated July 31, 2012.

**Various Correspondence and Documents:** Various correspondence available to CRA, including an EDR database search, identified that a former Shell bulk oil facility operated at the Site between approximately 1928 and 1973. Shell sold the Property on November 30, 1973. According to Property owner discussions, at least for a portion of the time that Shell owned the Property, Smith-Kem operated a fertilizer plant as well. Historical documentation also indicates that the Property was entered into Ecology's



Voluntary Cleanup Program (VCP) on June 20, 2012, and exited the VCP on October 24, 2012.

***Response to Determination of Potential Liability:*** In a letter to Ecology dated November 15, 2012, Shell accepted responsibility as a potentially liable party (PLP) related to the historical storage and distribution of bulk oil products at the Property. The historical petroleum hydrocarbon release to soil and groundwater would be addressed by Shell. However, Shell refused to be named a PLP related to any potential historical releases of metals and pesticides or other fertilizer byproducts which may be encountered in soil and groundwater. The fertilizer operations at the Property are believed to have been present since at least the late 1940s.

# Appendix B

## Boring Logs



# STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: 200 ELLE  
 PROJECT NUMBER: 062027  
 CLIENT: SHELL OIL PRODUCTS US  
 LOCATION: 200 RAILROAD AVE S, ELLENSBURG, WA

HOLE DESIGNATION: SB-1  
 DATE COMPLETED: June 12, 2013  
 DRILLING METHOD: AIRKNIFE/ HSA  
 FIELD PERSONNEL: S. RASMUSSEN

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	TEMP MONITORING WELL	SAMPLE					
				NUMBER	INTERVAL	REC (%)	BLOW COUNTS	PID (ppm)	
2	FILL, gravel, rounded cobble, sand - no odor from 0.5 to 5.0ft BGS		<p style="font-size: small;">           CONCRETE            BENTONITE CHIPS            2" PVC WELL CASING            8" BOREHOLE            2" PVC WELL SCREEN            SAND PACK         </p>						
4	GP-SANDY GRAVEL, with cobble	3.00							
6	GP-SANDY GRAVEL, cobble, well sorted, brown, saturated, no hydrocarbon odor	6.00		▽	SB-1-7	X	75	22 50/ 6"	3.0
8									
10	GP-SANDY GRAVEL, coarse grained sand, well sorted, brown, saturated, no hydrocarbon odor	10.00			SB-1-11	X	70	50/ 6"	1.0
12	- cobble from 12.0 to 14.0ft BGS								
14	NO RECOVERY, slough	14.00			X	25	50/ 6"		
16	END OF BOREHOLE @ 15.0ft BGS	15.00							
18									
20									
22									
24									
26									
28									
30									
32									
34									

**WELL DETAILS**  
 Screened interval:  
 3.00 to 13.00ft BGS  
 Length: 10ft  
 Diameter: 2in  
 Slot Size: 0.010  
 Material: PVC  
 Seal:  
 0.50 to 2.00ft BGS  
 Material: BENTONITE CHIPS  
 Sand Pack:  
 2.00 to 15.00ft BGS  
 Material: SAND

OVERBURDEN LOG\_062027WIN.GPJ\_CRA\_CORP.GDT\_7/4/13

**NOTES:** MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE  
 WATER FOUND ▽      STATIC WATER LEVEL ▼  
 CHEMICAL ANALYSIS ○



# STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: 200 ELLE  
 PROJECT NUMBER: 062027  
 CLIENT: SHELL OIL PRODUCTS US  
 LOCATION: 200 RAILROAD AVE S, ELLENSBURG, WA

HOLE DESIGNATION: SB-10  
 DATE COMPLETED: June 13, 2013  
 DRILLING METHOD: AIRKNIFE/ HSA  
 FIELD PERSONNEL: S. RASMUSSEN

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	TEMP MONITORING WELL	SAMPLE					
				NUMBER	INTERVAL	REC (%)	BLOW COUNTS	PID (ppm)	
2	CONCRETE	0.58	<p><b>WELL DETAILS</b>            Screened interval:            3.00 to 13.00ft BGS            Length: 10ft            Diameter: 2in            Slot Size: 0.010            Material: PVC            Seal:            0.50 to 2.00ft BGS            Material: BENTONITE CHIPS            Sand Pack:            2.00 to 15.00ft BGS            Material: SAND</p>						
4	ML-SANDY SILT, trace gravel, fine grained sand, medium plasticity, brown, damp, no hydrocarbon odor				SB-10-3	X			1.3
6	- gravel and cobble at 4.5ft BGS - water at 4.8ft BGS - gray to brown from 6.0 to 6.5ft BGS				SB-10-7	X	75	30 20 24	1.5
8	SP-GRAVELLY SAND, cobble, well sorted, brown, saturated, no hydrocarbon odor	6.50							
10	GP-SANDY GRAVEL, cobble, well sorted, brown to dark gray, saturated, no hydrocarbon odor	10.00			SB-10-11	X		32 50/ 6"	0.8
14	GP-SANDY GRAVEL, cobble, well sorted, olive green, saturated, no hydrocarbon odor	14.00			SB-10-15	X		50/ 6"	1.0
16	END OF BOREHOLE @ 15.0ft BGS	15.00							
18									
20									
22									
24									
26									
28									
30									
32									
34									

OVERBURDEN LOG\_062027WIN.GPJ\_CRA\_CORP.GDT\_7/4/13

**NOTES:** MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE  
 WATER FOUND ▼      STATIC WATER LEVEL ▼  
 CHEMICAL ANALYSIS ○



# STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: 200 ELLE  
 PROJECT NUMBER: 062027  
 CLIENT: SHELL OIL PRODUCTS US  
 LOCATION: 200 RAILROAD AVE S, ELLENSBURG, WA

HOLE DESIGNATION: SB-11  
 DATE COMPLETED: June 11, 2013  
 DRILLING METHOD: HAND AUGER  
 FIELD PERSONNEL: S. RASMUSSEN

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BOREHOLE	SAMPLE				
				NUMBER	INTERVAL	REC (%)	BLOW COUNTS	PID (ppm)
	GP-GRAVEL	0.50	← 3" BOREHOLE	SB-11-0.5				1.6
2	SP-GRAVELLY SAND, coarse to medium coarse grained, dark gray, dry, no hydrocarbon odor	1.50		SB-11-1				1.4
	END OF BOREHOLE @ 1.5ft BGS							
4								
6								
8								
10								
12								
14								
16								
18								
20								
22								
24								
26								
28								
30								
32								
34								

OVERBURDEN LOG\_062027WIN.GPJ\_CRA\_CORP.GDT\_7/4/13

**NOTES:** MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS



# STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: 200 ELLE  
 PROJECT NUMBER: 062027  
 CLIENT: SHELL OIL PRODUCTS US  
 LOCATION: 200 RAILROAD AVE S, ELLENSBURG, WA

HOLE DESIGNATION: SB-2  
 DATE COMPLETED: June 12, 2013  
 DRILLING METHOD: AIRKNIFE/ HSA  
 FIELD PERSONNEL: S. RASMUSSEN

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	TEMP MONITORING WELL	SAMPLE				
				NUMBER	INTERVAL	REC (%)	BLOW COUNTS	PID (ppm)
2	GP-GRAVEL FILL, rounded cobble, gravel, sand	0.50	<p><b>WELL DETAILS</b>            Screened interval:            3.00 to 13.50ft BGS            Length: 10.5ft            Diameter: 2in            Slot Size: 0.010            Material: PVC            Seal:            0.50 to 2.00ft BGS            Material: BENTONITE CHIPS            Sand Pack:            2.00 to 15.00ft BGS            Material: SAND</p>					
4	NO RECOVERY, gravel, cobble, trace sand, no hydrocarbon odor - wet at 4.5ft BGS	3.00						
6	GP-SANDY GRAVEL, with cobble, well sorted, brown, saturated, no hydrocarbon odor - coarse sand, very dense/compact at 7.5ft BGS	6.00		SB-2-7	X	75	29 50/ 6"	0.5
8								
10	GP-SANDY GRAVEL, with cobble, coarse grained sand, well sorted, dark brown, saturated, no hydrocarbon odor	10.00		SB-2-11	X	100	21/ 6" 50/ 6"	0.3
12								
14	- REFUSAL at 13.5ft BGS END OF BOREHOLE @ 13.5ft BGS	13.50						
16								
18								
20								
22								
24								
26								
28								
30								
32								
34								

OVERBURDEN LOG\_062027WIN.GPJ\_CRA\_CORP.GDT\_7/4/13

**NOTES:** MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE  
 WATER FOUND ▼                      STATIC WATER LEVEL ▼



# STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: 200 ELLE  
 PROJECT NUMBER: 062027  
 CLIENT: SHELL OIL PRODUCTS US  
 LOCATION: 200 RAILROAD AVE S, ELLENSBURG, WA

HOLE DESIGNATION: SB-3  
 DATE COMPLETED: June 12, 2013  
 DRILLING METHOD: AIRKNIFE/ HSA  
 FIELD PERSONNEL: S. RASMUSSEN

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	TEMP MONITORING WELL	SAMPLE				
				NUMBER	INTERVAL	REC (%)	BLOW COUNTS	PID (ppm)
2	GP-GRAVEL FILL, medium to coarse grained sand, gravel and cobble	0.50	<p style="font-size: small;">CONCRETE BENTONITE CHIPS 2" PVC WELL CASING 8" BOREHOLE 2" PVC WELL SCREEN SAND PACK</p> <p><b>WELL DETAILS</b>            Screened interval:            3.00 to 13.00ft BGS            Length: 10ft            Diameter: 2in            Slot Size: 0.010            Material: PVC            Seal:            0.50 to 2.00ft BGS            Material: BENTONITE CHIPS            Sand Pack:            2.00 to 15.50ft BGS            Material: SAND</p>					
4	SP-SAND, with gravel, cobble, medium to coarse grained, dark brown, damp, no hydrocarbon odor - cobble/gravel at 4.0ft BGS - wet at 4.5ft BGS	3.00		SB-3-3	X	0		0.2
6	GP-SANDY GRAVEL, with cobble, coarse grained sand, well sorted, dark brown, saturated, ny hydrocarbon odor	6.00		SB-3-7	X		50/ 6"	0.7
10	SP-GRAVELLY SAND, coarse grained sand, well sorted, olive gray, saturated, no hydrocarbon odor	10.00		SB-3-11	X	75	14 15 14	0.0
14	SP-GRAVELLY SAND, coarse to fine grained sand, olive gray, saturated, no hydrocarbon odor	14.00		SB-3-15	X	70	26 50	0.4
16	- sandy, gravel/cobble at 15.0ft BGS END OF BOREHOLE @ 15.5ft BGS	15.50						
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20								
22								
24								
26								
28								
30								
32								
34								

OVERBURDEN LOG\_062027WIN.GPJ\_CRA\_CORP.GDT\_7/4/13

**NOTES:** MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE  
 WATER FOUND ▼      STATIC WATER LEVEL ▼  
 CHEMICAL ANALYSIS ○



# STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: 200 ELLE  
 PROJECT NUMBER: 062027  
 CLIENT: SHELL OIL PRODUCTS US  
 LOCATION: 200 RAILROAD AVE S, ELLENSBURG, WA

HOLE DESIGNATION: SB-4  
 DATE COMPLETED: June 12, 2013  
 DRILLING METHOD: AIRKNIFE/ HSA  
 FIELD PERSONNEL: S. RASMUSSEN

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	TEMP MONITORING WELL	SAMPLE				
				NUMBER	INTERVAL	REC (%)	BLOW COUNTS	PID (ppm)
2	GP-GRAVEL		<p style="font-size: small;">           CONCRETE            BENTONITE CHIPS            2" PVC WELL CASING            8" BOREHOLE            2" PVC WELL SCREEN            SAND PACK         </p> <p style="font-size: x-small;"> <b>WELL DETAILS</b>            Screened interval:            3.00 to 13.50ft BGS            Length: 10.5ft            Diameter: 2in            Slot Size: 0.010            Material: PVC            Seal:            0.50 to 2.00ft BGS            Material: BENTONITE CHIPS            Sand Pack:            2.00 to 15.00ft BGS            Material: SAND         </p>					
4	GP-GRAVEL, cobble, sand, medium coarse grained, dark brown, dry, no hydrocarbon odor - cobble/gravel, wet at 4.5ft BGS	3.00		SB-4-3	X			1.3
6	GP-SANDY GRAVEL, cobble, coarse grained sand, well sorted, olive gray, saturated, no hydrocarbon odor	6.00		SB-4-7	X	90	27 15 20	0.3
10	GP-SANDY GRAVEL, cobble, coarse grained sand, poorly sorted, olive gray, saturated, no hydrocarbon odor - fine to medium coarse grained sand from 10.0 to 10.25ft BGS	10.00		SB-4-11	X	100	29 50/ 6"	1.4
14	GP-SANDY GRAVEL, coarse grained sand, poorly sorted, olive gray, saturated, no hydrocarbon odor	14.00		SB-14-15	X		50/ 6"	0.0
16	END OF BOREHOLE @ 15.0ft BGS	15.00						
18								
20								
22								
24								
26								
28								
30								
32								
34								

OVERBURDEN LOG\_062027WIN.GPJ\_CRA\_CORP.GDT\_7/4/13

**NOTES:** MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE  
 WATER FOUND ▼      STATIC WATER LEVEL ▼  
 CHEMICAL ANALYSIS ○





# STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: 200 ELLE  
 PROJECT NUMBER: 062027  
 CLIENT: SHELL OIL PRODUCTS US  
 LOCATION: 200 RAILROAD AVE S, ELLENSBURG, WA

HOLE DESIGNATION: SB-5  
 DATE COMPLETED: June 12, 2013  
 DRILLING METHOD: AIRKNIFE/ HSA  
 FIELD PERSONNEL: S. RASMUSSEN

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	TEMP MONITORING WELL	SAMPLE				
				NUMBER	INTERVAL	REC (%)	BLOW COUNTS	PID (ppm)
2	GP-GRAVEL		<p style="font-size: small;">CONCRETE BENTONITE CHIPS 2" PVC WELL CASING 8" BOREHOLE 2" PVC WELL SCREEN SAND PACK</p> <p><b>WELL DETAILS</b>            Screened interval:            3.00 to 13.00ft BGS            Length: 10ft            Diameter: 2in            Slot Size: 0.010            Material: PVC            Seal:            0.50 to 2.00ft BGS            Material: BENTONITE CHIPS            Sand Pack:            2.00 to 15.00ft BGS            Material: SAND</p>					
4	GP-GRAVEL, cobble, coarse grained sand, dark gray, damp, no hydrocarbon odor - wet at 4.5ft BGS	3.00		SB-5-3	X			0.4
6	NO RECOVERY	5.00						
8	GP-SANDY GRAVEL, coarse grained sand, well sorted, olive gray, saturated, no hydrocarbon odor	6.00		SB-5-7	X	70	50/ 6"	1.5
10	GP-SANDY GRAVEL, coarse grained sand, well sorted, olive gray, saturated, no hydrocarbon odor	10.00		SB-5-11	X	75	50/ 6"	1.4
14	GP-SANDY GRAVEL, coarse grained sand, cobble, well sorted, olive gray, saturated, no hydrocarbon odor	14.00			X		5-/ 6"	0.5
16	END OF BOREHOLE @ 15.0ft BGS	15.00						
18								
20								
22								
24								
26								
28								
30								
32								
34								

OVERBURDEN LOG\_062027WIN.GPJ\_CRA\_CORP.GDT\_7/4/13

**NOTES:** MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE  
 WATER FOUND ▼      STATIC WATER LEVEL ▼  
 CHEMICAL ANALYSIS ○



# STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: 200 ELLE  
 PROJECT NUMBER: 062027  
 CLIENT: SHELL OIL PRODUCTS US  
 LOCATION: 200 RAILROAD AVE S, ELLENSBURG, WA

HOLE DESIGNATION: SB-6  
 DATE COMPLETED: June 13, 2013  
 DRILLING METHOD: AIRKNIFE/ HSA  
 FIELD PERSONNEL: S. RASMUSSEN

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	TEMP MONITORING WELL	SAMPLE				
				NUMBER	INTERVAL	REC (%)	BLOW COUNTS	PID (ppm)
2	GP-GRAVEL		<p>CONCRETE BENTONITE CHIPS 2" PVC WELL CASING 8" BOREHOLE 2" PVC WELL SCREEN SAND PACK</p> <p>WELL DETAILS            Screened interval:            3.00 to 13.50ft BGS            Length: 10.5ft            Diameter: 2in            Slot Size: 0.010            Material: PVC            Seal:            0.50 to 2.00ft BGS            Material: BENTONITE CHIPS            Sand Pack:            2.00 to 15.00ft BGS            Material: SAND</p>					
4	ML-SILT, fine grained sand, high plasticity, dark brown, wet, no hydrocarbon odor	3.00		SB-6-3	X			0.0
6	NO RECOVERY, gravel and cobble	5.00						
8	GP-SANDY GRAVEL, well sorted, olive gray, saturated, slight hydrocarbon odor, oily residue	6.00		SB-6-7	X	70	50/ 6"	100
10	GP-SANDY GRAVEL, cobble, well sorted, olive gray, saturated, slight hydrocarbon odor	10.00		SB-6-11	X	75	13 16 20	10.0
14	SP-GRAVELLY SAND, coarse grained sand, well sorted, olive gray, saturated, no hydrocarbon odor	14.00		SB-6-15	X	65	50/ 6"	2.0
16	END OF BOREHOLE @ 15.0ft BGS	15.00						
18								
20								
22								
24								
26								
28								
30								
32								
34								

OVERBURDEN LOG\_062027WIN.GPJ\_CRA\_CORP.GDT\_7/4/13

**NOTES:** MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE  
 WATER FOUND ▼      STATIC WATER LEVEL ▼  
 CHEMICAL ANALYSIS ○



# STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: 200 ELLE  
 PROJECT NUMBER: 062027  
 CLIENT: SHELL OIL PRODUCTS US  
 LOCATION: 200 RAILROAD AVE S, ELLENSBURG, WA

HOLE DESIGNATION: SB-7  
 DATE COMPLETED: June 13, 2013  
 DRILLING METHOD: AIRKNIFE/ HSA  
 FIELD PERSONNEL: S. RASMUSSEN

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	TEMP MONITORING WELL	SAMPLE					
				NUMBER	INTERVAL	REC (%)	BLOW COUNTS	PID (ppm)	
2	GP-GRAVEL		<p><b>WELL DETAILS</b>            Screened interval:            3.00 to 13.50ft BGS            Length: 10.5ft            Diameter: 2in            Slot Size: 0.010            Material: PVC            Seal:            0.50 to 2.00ft BGS            Material: BENTONITE CHIPS            Sand Pack:            2.00 to 15.00ft BGS            Material: SAND</p>						
4	GP-GRAVEL, cobble, coarse grained sand, dark brown, wet to damp, no hydrocarbon odor - wet at 3.5ft BGS - saturated at 5.0ft BGS	3.00		SB-7-3	X				0.2
6	GP-SANDY GRAVEL, cobble, coarse grained sand, well sorted, dark brown, saturated, no hydrocarbon odor	6.00		SB-7-7	X		50/ 6"		1.0
10	GP-SANDY GRAVEL, cobble, well sorted, olive gray, saturated, no hydrocarbon odor	10.00			X		14 24 32		1.0
14	GP-SANDY GRAVEL, cobble, well sorted, light brown, very saturated, no hydrocarbon odor	14.00			X		50/ 6"		0.5
16	END OF BOREHOLE @ 15.0ft BGS	15.00							
18									
20									
22									
24									
26									
28									
30									
32									
34									

OVERBURDEN LOG\_062027WIN.GPJ\_CRA\_CORP.GDT\_7/4/13

**NOTES:** MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE  
 WATER FOUND ▽      STATIC WATER LEVEL ▼  
 CHEMICAL ANALYSIS ○



# STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: 200 ELLE  
 PROJECT NUMBER: 062027  
 CLIENT: SHELL OIL PRODUCTS US  
 LOCATION: 200 RAILROAD AVE S, ELLENSBURG, WA

HOLE DESIGNATION: SB-8  
 DATE COMPLETED: June 13, 2013  
 DRILLING METHOD: AIRKNIFE/ HSA  
 FIELD PERSONNEL: S. RASMUSSEN

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	TEMP MONITORING WELL	SAMPLE				
				NUMBER	INTERVAL	REC (%)	BLOW COUNTS	PID (ppm)
2	GP-GRAVEL FILL, gravel, cobble, coarse grained sand	1.00	<p style="font-size: small;">CONCRETE BENTONITE CHIPS 2" PVC WELL CASING 8" BOREHOLE 2" PVC WELL SCREEN SAND PACK</p> <p><b>WELL DETAILS</b>            Screened interval:            3.00 to 12.50ft BGS            Length: 9.5ft            Diameter: 2in            Slot Size: 0.010            Material: PVC            Seal:            0.50 to 2.00ft BGS            Material: BENTONITE CHIPS            Sand Pack:            2.00 to 15.00ft BGS            Material: SAND</p>					
4	GP-GRAVEL, cobble, coarse grained sand, light brown, wet, no hydrocarbon odor  - saturated at 5.0ft BGS	3.00		SB-8-3.5	X			1.0
6	GP-SANDY GRAVEL, cobble, trace silt, fine grained sand, well sorted, orange brown, saturated, no hydrocarbon odor	6.00		SB-8-7	X	70	8 8 7	1.2
10	SP-GRAVELLY SAND, cobble, medium to coarse grained sand, well sorted, olive gray, saturated, no hydrocarbon odor	10.00			X	70	8 10 12	1.1
14	GP-SANDY GRAVEL, coarse grained sand, well sorted, olive gray, saturated, no hydrocarbon odor	14.00			X	65	17 50/ 6"	0.7
16	END OF BOREHOLE @ 15.0ft BGS	15.00						
18								
20								
22								
24								
26								
28								
30								
32								
34								

OVERBURDEN LOG\_062027WIN.GPJ\_CRA\_CORP.GDT\_7/4/13

**NOTES:** MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE  
 WATER FOUND ▼      STATIC WATER LEVEL ▼  
 CHEMICAL ANALYSIS ○



# STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: 200 ELLE  
 PROJECT NUMBER: 062027  
 CLIENT: SHELL OIL PRODUCTS US  
 LOCATION: 200 RAILROAD AVE S, ELLENSBURG, WA

HOLE DESIGNATION: SB-9  
 DATE COMPLETED: June 13, 2013  
 DRILLING METHOD: AIRKNIFE/ HSA  
 FIELD PERSONNEL: S. RASMUSSEN

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	TEMP MONITORING WELL	SAMPLE				
				NUMBER	INTERVAL	REC (%)	BLOW COUNTS	PID (ppm)
2	GP-GRAVEL FILL, gravel, cobble, coarse grained sand	1.00	<p style="font-size: small;">CONCRETE BENTONITE CHIPS 2" PVC WELL CASING 8" BOREHOLE 2" PVC WELL SCREEN SAND PACK</p>					
4	GP-GRAVEL, cobble, trace silt, trace fine grained sand, coarse grained sand, dark gray, wet, no hydrocarbon odor - cobble, dark oily staining, saturated at 5.0ft BGS	3.00						
6	GP-SANDY GRAVEL, cobble, well sorted, dark brown gray, saturated, no hydrocarbon odor	6.00		SB-9-7	X	50	26 50/ 6"	1.0
10	GP-SANDY GRAVEL, cobble, well sorted, olive gray, saturated, no hydrocarbon odor	10.00		SB-9-11	X	70	25 25 21	0.8
14	GP-SANDY GRAVEL, cobble, well sorted, olive gray, saturated, no hydrocarbon odor	14.00			X	80	50/ 6"	0.6
16	END OF BOREHOLE @ 15.0ft BGS	15.00						
18			<p><u>WELL DETAILS</u>            Screened interval:            3.00 to 13.00ft BGS            Length: 10ft            Diameter: 2in            Slot Size: 0.010            Material: PVC            Seal:            0.50 to 2.00ft BGS            Material: BENTONITE CHIPS            Sand Pack:            2.00 to 15.00ft BGS            Material: SAND</p>					
20								
22								
24								
26								
28								
30								
32								
34								

OVERBURDEN LOG\_062027WIN.GPJ\_CRA\_CORP.GDT\_7/4/13

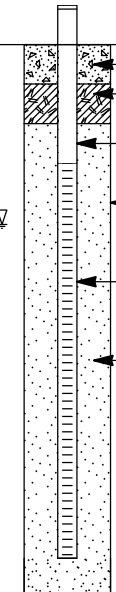
**NOTES:** MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE  
 WATER FOUND ▼      STATIC WATER LEVEL ▼  
 CHEMICAL ANALYSIS ○



# STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: 200 ELLE  
 PROJECT NUMBER: 062027  
 CLIENT: SHELL OIL PRODUCTS US  
 LOCATION: 200 RAILROAD AVE S, ELLENSBURG, WA

HOLE DESIGNATION: MW-1  
 DATE COMPLETED: October 4, 2013  
 DRILLING METHOD: AIR KNIFE/ HSA  
 FIELD PERSONNEL: S. RASMUSSEN

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	MONITORING WELL	SAMPLE				
				NUMBER	INTERVAL	REC (%)	BLOW COUNTS	PID (ppm)
2	CONCRETE GP-SILTY SANDY GRAVEL, cobble, dense, dark gray, dry, no hydrocarbon odor	0.42	 <p style="font-size: small;">           CONCRETE            BENTONITE CHIPS            2" PVC WELL CASING            8" BOREHOLE            2" PVC WELL SCREEN            SAND PACK         </p>	MW-1-2	X	100	-	20
6	SP/GP-SILTY SAND AND GRAVEL, cobble, slightly dense, olive gray, saturated, ny hydrocarbon odor	5.00		MW-1-5	X	100	100/ 6"	0.0
10	NO RECOVERY, all slough material, gravel and sand, saturated	10.00		MW-1-10	X	-	100/ 6"	-
14	- REFUSAL at 14.0ft BGS END OF BOREHOLE @ 14.0ft BGS	14.00						

**WELL DETAILS**  
 Screened interval:  
 3.00 to 13.00ft BGS  
 Length: 10ft  
 Diameter: 2in  
 Slot Size: 0.010  
 Material: PVC  
 Seal:  
 1.00 to 2.00ft BGS  
 Material: BENTONITE CHIPS  
 Sand Pack:  
 2.00 to 14.00ft BGS  
 Material: SAND

OVERBURDEN LOG\_062027-W1.GPJ\_CRA\_CORP.GDT\_10/11/13

**NOTES:** MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE  
 WATER FOUND ▼  
 CHEMICAL ANALYSIS ○



# STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: 200 ELLE  
 PROJECT NUMBER: 062027  
 CLIENT: SHELL OIL PRODUCTS US  
 LOCATION: 200 RAILROAD AVE S, ELLENSBURG, WA

HOLE DESIGNATION: MW-2  
 DATE COMPLETED: September 30, 2013  
 DRILLING METHOD: AIR KNIFE/ HSA  
 FIELD PERSONNEL: S. RASMUSSEN

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	MONITORING WELL	SAMPLE				
				NUMBER	INTERVAL	REC (%)	BLOW COUNTS	PID (ppm)
2	GP-GRAVEL SURFACE FILL, cobble, gravel, coarse grained sand	0.50	<p style="font-size: small;">           CONCRETE BENTONITE CHIPS            2" PVC WELL CASING            8" BOREHOLE            2" PVC WELL SCREEN            SAND PACK         </p>					
6	GP-SANDY GRAVEL/COBBLE, trace silt, dense, coarse grained sand, poorly sorted, olive gray, wet, no hydrocarbon odor	5.00		MW-2-5	X	33	31 50/ 4"	22
8	- cobble/gravel, very hard drilling at 8.0ft BGS							
10	- cobble/gravel at 10.0ft BGS							
13.5	- slough only at 13.0ft BGS END OF BOREHOLE @ 13.5ft BGS	13.50		MW-2-13	X		50/ 6"	

**WELL DETAILS**  
 Screened interval:  
 3.00 to 13.00ft BGS  
 Length: 10ft  
 Diameter: 2in  
 Slot Size: 0.010  
 Material: PVC  
 Seal:  
 1.50 to 2.00ft BGS  
 Material: BENTONITE CHIPS  
 Sand Pack:  
 2.00 to 13.00ft BGS  
 Material: SAND

OVERBURDEN LOG\_062027-WI.GPJ\_CRA\_CORP.GDT\_10/11/13

**NOTES:** MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE  
 WATER FOUND ∇



# STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: 200 ELLE  
 PROJECT NUMBER: 062027  
 CLIENT: SHELL OIL PRODUCTS US  
 LOCATION: 200 RAILROAD AVE S, ELLENSBURG, WA

HOLE DESIGNATION: MW-3  
 DATE COMPLETED: October 2, 2013  
 DRILLING METHOD: AIR KNIFE/ HSA  
 FIELD PERSONNEL: S. RASMUSSEN

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	MONITORING WELL	SAMPLE				
				NUMBER	INTERVAL	REC (%)	BLOW COUNTS	PID (ppm)
2	GP-GRAVEL SURFACE FILL, cobble, gravel, coarse grained sand	0.50	<p style="font-size: small;">WELL DETAILS            Screened interval:            3.00 to 13.00ft BGS            Length: 10ft            Diameter: 2in            Slot Size: 0.010            Material: PVC            Seal:            2.00 to 2.50ft BGS            Material: BENTONITE CHIPS            Sand Pack:            2.50 to 13.00ft BGS            Material: SAND</p>					
6	GP-SANDY GRAVEL/COBBLE, trace silt, dense, poorly sorted, olive gray, damp, no hydrocarbon odor	5.00		MW-3-5	X	100	8 10 50/ 6"	2.0
10	- grading to gravel at 10.3ft BGS SP-SAND, trace silt, dense, well sorted, olive gray, saturated, no hydrocarbon odor	10.00						
12	- grading back to sand at 10.8ft BGS - very hard drilling at 11.0ft BGS	13.00	MW-3-10	X	33	9 29 40	9.0	
14	END OF BOREHOLE @ 13.0ft BGS							

OVERBURDEN LOG\_062027-WI.GPJ\_CRA\_CORP.GDT\_10/11/13

**NOTES:** MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE  
 WATER FOUND ▼

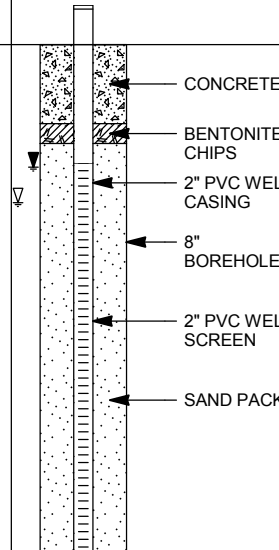




## STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: 200 ELLE  
 PROJECT NUMBER: 062027  
 CLIENT: SHELL OIL PRODUCTS US  
 LOCATION: 200 RAILROAD AVE S, ELLENSBURG, WA

HOLE DESIGNATION: MW-4  
 DATE COMPLETED: October 2, 2013  
 DRILLING METHOD: AIR KNIFE/ HSA  
 FIELD PERSONNEL: S. RASMUSSEN

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	MONITORING WELL	SAMPLE				
				NUMBER	INTERVAL	REC (%)	BLOW COUNTS	PID (ppm)
2  4	GP-GRAVEL SURFACE FILL, gravel, cobble, coarse grained sand  - wet at 4.0ft BGS	0.50						
6  8  10  12	GP-SANDY GRAVEL, trace silt, cobble, dense, wet, no hydrocarbon odor, slough, very hard drilling  SP-GRAVELLY SAND, cobble, medium coarse to coarse grained, well sorted, olive gray, saturated, no hydrocarbon odor - very hard drilling, cobble at 12.0ft BGS	5.00   10.00		MW-4-5     MW-4-10	   X   X	100    100	   50/ 6"   20 50/ 6"	   2.0
14  16  18  20  22  24  26  28  30  32  34	END OF BOREHOLE @ 13.0ft BGS	13.00						

**WELL DETAILS**  
 Screened interval:  
 3.00 to 13.00ft BGS  
 Length: 10ft  
 Diameter: 2in  
 Slot Size: 0.010  
 Material: PVC  
 Seal:  
 2.00 to 2.50ft BGS  
 Material: BENTONITE CHIPS  
 Sand Pack:  
 2.50 to 13.00ft BGS  
 Material: SAND

**NOTES:** MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE  
 WATER FOUND ▼                                  STATIC WATER LEVEL ▼

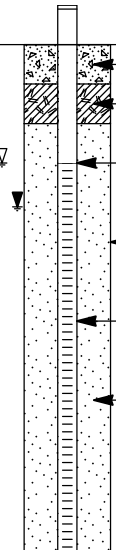
OVERBURDEN LOG\_062027-WI.GPJ\_CRA\_CORP.GDT\_10/11/13



# STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: 200 ELLE  
 PROJECT NUMBER: 062027  
 CLIENT: SHELL OIL PRODUCTS US  
 LOCATION: 200 RAILROAD AVE S, ELLENSBURG, WA

HOLE DESIGNATION: MW-5  
 DATE COMPLETED: September 30, 2013  
 DRILLING METHOD: AIR KNIFE/ HSA  
 FIELD PERSONNEL: S. RASMUSSEN

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	MONITORING WELL	SAMPLE				
				NUMBER	INTERVAL	REC (%)	BLOW COUNTS	PID (ppm)
2	GP-GRAVEL SURFACE SM-SANDY SILT, dense, medium plasticity, dark gray, dry, no hydrocarbon odor	0.50	 <p>CONCRETE BENTONITE CHIPS 2" PVC WELL CASING 8" BOREHOLE 2" PVC WELL SCREEN SAND PACK</p> <p><b>WELL DETAILS</b>            Screened interval:            3.00 to 13.00ft BGS            Length: 10ft            Diameter: 2in            Slot Size: 0.010            Material: PVC            Seal:            1.00 to 2.00ft BGS            Material: BENTONITE CHIPS            Sand Pack:            2.00 to 13.00ft BGS            Material: SAND</p>	MW-5-2	X	100	-	1.0
4	- gravel/silty sand, few/trace cobble at 3.5ft BGS	5.00		MW-5-5	X	100	50/ 6"	300
6	SP-GRAVELLY SAND, cobble, dense, poorly sorted, olive gray, saturated, oily sheen, hydrocarbon odor	10.00		MW-5-10	X	100	30/ 6"	5.0
10	GP-SANDY GRAVEL/COBBLE, dense, poorly sorted, olive gray, saturated, no hydrocarbon odor	13.00		END OF BOREHOLE @ 13.0ft BGS				
12								
14								
16								
18								
20								
22								
24								
26								
28								
30								
32								
34								

OVERBURDEN LOG\_062027-WI.GPJ\_CRA\_CORP.GDT\_10/11/13

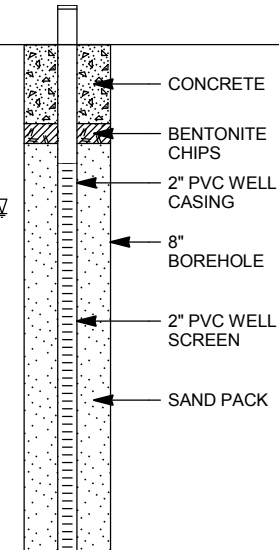
**NOTES:** MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE  
 WATER FOUND ▼      STATIC WATER LEVEL ▼  
 CHEMICAL ANALYSIS ○



# STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: 200 ELLE  
 PROJECT NUMBER: 062027  
 CLIENT: SHELL OIL PRODUCTS US  
 LOCATION: 200 RAILROAD AVE S, ELLENSBURG, WA

HOLE DESIGNATION: MW-6  
 DATE COMPLETED: October 3, 2013  
 DRILLING METHOD: AIR KNIFE/ HSA  
 FIELD PERSONNEL: S. RASMUSSEN

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	MONITORING WELL	SAMPLE					
				NUMBER	INTERVAL	REC (%)	BLOW COUNTS		
2  4  6  8  10  12  14  16  18  20  22  24  26  28  30  32  34	CONCRETE FILL, rounded subangular gravel/cobble, coarse grained sand  SP-GRAVELLY SAND, cobble, dense, poorly sorted, olive gray brown, saturated, no hydrocarbon odor  GP-SANDY GRAVEL, cobble, dense, well sorted, olive green, saturated, no hydrocarbon odor  END OF BOREHOLE @ 13.0ft BGS	0.58    5.00    10.00    13.00	 <p style="font-size: small;">             CONCRETE              BENTONITE CHIPS              2" PVC WELL CASING              8" BOREHOLE              2" PVC WELL SCREEN              SAND PACK           </p> <p style="font-size: x-small;"> <u>WELL DETAILS</u>              Screened interval:              3.00 to 13.00ft BGS              Length: 10ft              Diameter: 2in              Slot Size: 0.010              Material: PVC              Seal:              2.00 to 2.50ft BGS              Material: BENTONITE CHIPS              Sand Pack:              2.50 to 13.00ft BGS              Material: SAND           </p>	MW-6-5	MW-6-10				

OVERBURDEN LOG\_062027-WI.GPJ\_CRA\_CORP.GDT\_10/11/13

**NOTES:** MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE  
 WATER FOUND ∇



# STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: 200 ELLE  
 PROJECT NUMBER: 062027  
 CLIENT: SHELL OIL PRODUCTS US  
 LOCATION: 200 RAILROAD AVE S, ELLENSBURG, WA

HOLE DESIGNATION: MW-7  
 DATE COMPLETED: October 3, 2013  
 DRILLING METHOD: AIR KNIFE/ HSA  
 FIELD PERSONNEL: S. RASMUSSEN

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	MONITORING WELL	SAMPLE				
				NUMBER	INTERVAL	REC (%)	BLOW COUNTS	PID (ppm)
2	GP-GRAVEL SURFACE SP-GRAVELLY SAND/SILT, cobble, dense, dark gray, damp, no hydrocarbon odor, low recovery due to cobble	0.50	<p style="font-size: small;"> <b>WELL DETAILS</b>            Screened interval:              3.00 to 13.00ft BGS            Length: 10ft            Diameter: 2in            Slot Size: 0.010            Material: PVC            Seal:              2.00 to 2.50ft BGS              Material: BENTONITE CHIPS            Sand Pack:              2.50 to 13.00ft BGS              Material: SAND         </p>	MW-7-2	X	100	--	2.7
4	- wet at 4.5ft BGS	5.00		MW-7-5	X	100	20/ 6"/ 50/ 6"	0.7
6	GP-SANDY GRAVEL, cobble, dense, coarse grained sand, poorly sorted, olive gray, saturated, no hydrocarbon odor	10.00		MW-7-10	X	100	50/ 6"	1.2
10	GP-SAND GRAVEL/COBBLE, dense, coarse grained sand, poorly sorted, olive gray, saturated, no hydrocarbon odor	13.00		END OF BOREHOLE @ 13.0ft BGS				
12								
14								
16								
18								
20								
22								
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28								
30								
32								
34								

OVERBURDEN LOG\_062027-WI.GPJ\_CRA\_CORP.GDT\_10/11/13

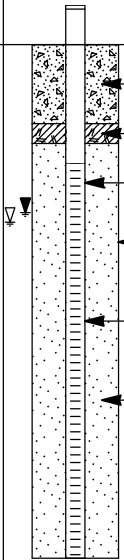
**NOTES:** MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE  
 WATER FOUND ▼      STATIC WATER LEVEL ▼  
 CHEMICAL ANALYSIS ○



# STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: 200 ELLE  
 PROJECT NUMBER: 062027  
 CLIENT: SHELL OIL PRODUCTS US  
 LOCATION: 200 RAILROAD AVE S, ELLENSBURG, WA

HOLE DESIGNATION: MW-8  
 DATE COMPLETED: October 3, 2013  
 DRILLING METHOD: AIR KNIFE/ HSA  
 FIELD PERSONNEL: S. RASMUSSEN

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	MONITORING WELL	SAMPLE				
				NUMBER	INTERVAL	REC (%)	BLOW COUNTS	PID (ppm)
2	GP-GRAVEL SURFACE SP-SILTY SAND, gravel, dense, fine grained sand, fine gravel, dark gray brown, dry, no hydrocarbon odor	0.50	 <p style="margin-top: 10px;"><b>WELL DETAILS</b>            Screened interval:            3.00 to 13.00ft BGS            Length: 10ft            Diameter: 2in            Slot Size: 0.010            Material: PVC            Seal:            2.00 to 2.50ft BGS            Material: BENTONITE CHIPS            Sand Pack:            2.50 to 13.00ft BGS            Material: SAND</p>	MW-8-2	X	100	--	45
6	GP-SANDY GRAVEL, with silt, cobble, dense, dark gray, saturated, no hydrocarbon odor, oily residue	5.00		MW-8-5	X	100	50/ 6"	1.0
10	SP-GRAVELLY SAND, dense, coarse grained sand, well sorted, olive gray, saturated, no hydrocarbon odor - coarse grained clear sand at 11.0ft BGS	10.00		MW-8-10	X	100	25 50/ 6"	0.4
13.00	END OF BOREHOLE @ 13.0ft BGS	13.00						

OVERBURDEN LOG\_062027-WI.GPJ\_CRA\_CORP.GDT\_10/11/13

**NOTES:** MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE  
 WATER FOUND ▼      STATIC WATER LEVEL ▼  
 CHEMICAL ANALYSIS ○



# STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: 200 ELLE  
 PROJECT NUMBER: 062027  
 CLIENT: SHELL OIL PRODUCTS US  
 LOCATION: 200 RAILROAD AVE S, ELLENSBURG, WA

HOLE DESIGNATION: SB-12  
 DATE COMPLETED: October 3, 2013  
 DRILLING METHOD: AIR KNIFE/ HSA  
 FIELD PERSONNEL: S. RASMUSSEN

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BOREHOLE	SAMPLE				
				NUMBER	INTERVAL	REC (%)	BLOW COUNTS	PID (ppm)
	GP-GRAVEL SURFACE FILL, cobble, gravel	0.50	 3" BOREHOLE					
2	NO RECOVERY, gravel, cobble	2.00		SB-12-3	X	100	-	
6	GP-SANDY GRAVEL/COBBLE, dense, coarse grained sand, poorly sorted, olive gray, saturated, no hydrocarbon odor	5.00		SB-12-6	X	33	15 29 34	0.5
10	GP-SANDY GRAVEL/COBBLE, dense, coarse grained sand, poorly sorted, olive gray, saturated, no hydrocarbon odor END OF BOREHOLE @ 10.0ft BGS	10.00		SB-12-10	X	33	41 50/ 6"	4.8
13.00								
14								
16								
18								
20								
22								
24								
26								
28								
30								
32								
34								

OVERBURDEN LOG\_062027-WI.GPJ\_CRA\_CORP.GDT\_10/11/13

**NOTES:** MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS



# STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: 200 ELLE  
 PROJECT NUMBER: 062027  
 CLIENT: SHELL OIL PRODUCTS US  
 LOCATION: 200 RAILROAD AVE S, ELLENSBURG, WA

HOLE DESIGNATION: SB-13  
 DATE COMPLETED: October 3, 2013  
 DRILLING METHOD: AIR KNIFE/ HSA  
 FIELD PERSONNEL: S. RASMUSSEN

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BOREHOLE	SAMPLE				
				NUMBER	INTERVAL	REC (%)	BLOW COUNTS	PID (ppm)
	GP-GRAVEL SURFACE	0.50						
2	SP-SILTY SAND, dense, fine grained sand, fine gravel/cobble, dark gray brown, damp, no hydrocarbon odor			SB-13-2	X	100	-	25
4								
6	GP-SANDY GRAVEL, dense, coarse grained sand, poorly sorted, olive gray, saturated, no hydrocarbon odor	5.00		SB-13-5	X	33	20 21 50/ 6"	0.4
8								
10	SP-GRAVELLY SAND, dense, medium coarse grained sand, poorly sorted, olive gray, saturated, no hydrocarbon odor	10.00						
12								
14	END OF BOREHOLE @ 13.0ft BGS	13.00						
16								
18								
20								
22								
24								
26								
28								
30								
32								
34								

OVERBURDEN LOG\_062027-WI.GPJ\_CRA\_CORP.GDT\_10/11/13

**NOTES:** MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE  
 WATER FOUND ▼  
 CHEMICAL ANALYSIS ○

# Appendix C

## Soil Laboratory Analytical Reports



# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

## ANALYTICAL REPORT

TestAmerica Laboratories, Inc.  
TestAmerica Nashville  
2960 Foster Creighton Drive  
Nashville, TN 37204  
Tel: (615)726-0177

TestAmerica Job ID: 490-37096-1  
Client Project/Site: 200 Railroad Ave S, Ellensburg WA

For:  
Conestoga-Rovers & Associates, Inc.  
20818 44th Ave W  
Suite 190  
Lynnwood, Washington 98036

Attn: Brian Peters



Authorized for release by:  
10/18/2013 12:18:00 PM

Ryan Fitzwater, Senior Project Manager  
(615)726-0177  
[ryan.fitzwater@testamericainc.com](mailto:ryan.fitzwater@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: Conestoga-Rovers & Associates, Inc.  
Project/Site: 200 Railroad Ave S, Ellensburg WA

TestAmerica Job ID: 490-37096-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
490-37096-1	SO-062027-100313-MW-7-5	Solid	10/03/13 08:50	10/05/13 08:15
490-37096-2	SO-062027-100313-MW-7-10	Solid	10/03/13 09:00	10/05/13 08:15
490-37096-3	SO-062027-100313-SB-12-5	Solid	10/03/13 10:20	10/05/13 08:15
490-37096-4	SO-062027-100313-SB-12-10	Solid	10/03/13 10:30	10/05/13 08:15
490-37096-5	SO-062027-100313-SB-13-5	Solid	10/03/13 11:00	10/05/13 08:15
490-37096-6	SO-062027-100313-SB-13-10	Solid	10/03/13 11:10	10/05/13 08:15
490-37096-7	SO-062027-100313-MW-8-5	Solid	10/03/13 11:55	10/05/13 08:15
490-37096-8	SO-062027-100313-MW-8-10	Solid	10/03/13 12:05	10/05/13 08:15



# Case Narrative

Client: Conestoga-Rovers & Associates, Inc.  
Project/Site: 200 Railroad Ave S, Ellensburg WA

TestAmerica Job ID: 490-37096-1

---

## Job ID: 490-37096-1

---

Laboratory: TestAmerica Nashville

### Narrative

---

Job Narrative  
490-37096-1

#### Comments

No additional comments.

#### Receipt

The samples were received on 10/5/2013 8:15 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.6° C.

#### GC/MS VOA

Method(s) 8260B: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with batch 112381. See LCS/LCSD

No other analytical or quality issues were noted.

#### GC Semi VOA

Method(s) 8082: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for batch 112601 were outside control limits. 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.

---

## Job ID: 490-37096-2

---

Laboratory: TestAmerica Nashville

### Narrative

---

Job Narrative  
490-37096-2

#### Comments

No additional comments.

#### Receipt

The samples were received on 10/5/2013 8:15 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.6° C.

#### GC/MS VOA

Method(s) 8260B: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with batch 112381. See LCS/LCSD

No other analytical or quality issues were noted.

#### GC/MS Semi VOA

No analytical or quality issues were noted.

#### GC VOA

No analytical or quality issues were noted.

## Case Narrative

Client: Conestoga-Rovers & Associates, Inc.  
Project/Site: 200 Railroad Ave S, Ellensburg WA

TestAmerica Job ID: 490-37096-1

---

### Job ID: 490-37096-2 (Continued)

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#### Laboratory: TestAmerica Nashville (Continued)

##### GC Semi VOA

Method(s) NWTPH-Dx: There was insufficient contamination present for analyte C10-C24 to perform a pattern match for the following sample(s): SO-062027-100313-MW-8-5 (490-37096-7). The following sample(s) contained a hydrocarbon pattern for analyte C24-C40 that most closely resembles a Motor oil product used by the laboratory for quantitative purposes: SO-062027-100313-MW-8-5 (490-37096-7).

Method(s) NWTPH-Dx: The following sample(s) contained a hydrocarbon pattern that most closely resembles a Diesel Fuel #2 and a Motor Oil product used by the laboratory for quantitative purposes: (490-37104-1 DU), SO-062027-093013-MW-5-2 (490-37104-1).

No other analytical or quality issues were noted.

##### Metals

Method(s) 6020: The matrix spike / matrix spike duplicate (MS/MSD) percent recoveries and %RPD for batch 490-114526 were outside control limits. This is attributed to: non-homogeneity of the sample matrix.>>

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: Conestoga-Rovers & Associates, Inc.  
Project/Site: 200 Railroad Ave S, Ellensburg WA

TestAmerica Job ID: 490-37096-1

## Qualifiers

### GC Semi VOA

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

### Metals

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.
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: Conestoga-Rovers & Associates, Inc.  
 Project/Site: 200 Railroad Ave S, Ellensburg WA

TestAmerica Job ID: 490-37096-1

**Client Sample ID: SO-062027-100313-MW-7-5**

**Lab Sample ID: 490-37096-1**

Date Collected: 10/03/13 08:50

Matrix: Solid

Date Received: 10/05/13 08:15

Percent Solids: 92.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.00175		mg/Kg	☼	10/05/13 14:45	10/07/13 14:47	1
Ethylbenzene	ND		0.00175		mg/Kg	☼	10/05/13 14:45	10/07/13 14:47	1
Xylenes, Total	ND		0.00263		mg/Kg	☼	10/05/13 14:45	10/07/13 14:47	1
Toluene	ND		0.00175		mg/Kg	☼	10/05/13 14:45	10/07/13 14:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130	10/05/13 14:45	10/07/13 14:47	1
1,2-Dichloroethane-d4 (Surr)	103		70 - 130	10/05/13 14:45	10/07/13 14:47	1
Toluene-d8 (Surr)	113		70 - 130	10/05/13 14:45	10/07/13 14:47	1
Dibromofluoromethane (Surr)	99		70 - 130	10/05/13 14:45	10/07/13 14:47	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C12	ND		4.36		mg/Kg	☼	10/05/13 14:37	10/12/13 14:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	108		50 - 150	10/05/13 14:37	10/12/13 14:43	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C24	ND		4.88		mg/Kg	☼	10/09/13 09:22	10/10/13 00:32	1
C24-C40	ND		4.88		mg/Kg	☼	10/09/13 09:22	10/10/13 00:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	78		50 - 150	10/09/13 09:22	10/10/13 00:32	1

**General Chemistry**

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	92		0.10		%			10/07/13 12:50	1

# Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
 Project/Site: 200 Railroad Ave S, Ellensburg WA

TestAmerica Job ID: 490-37096-1

**Client Sample ID: SO-062027-100313-MW-7-10**

**Lab Sample ID: 490-37096-2**

Date Collected: 10/03/13 09:00

Matrix: Solid

Date Received: 10/05/13 08:15

Percent Solids: 96.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.00122		mg/Kg	☼	10/05/13 14:45	10/07/13 15:17	1
Ethylbenzene	ND		0.00122		mg/Kg	☼	10/05/13 14:45	10/07/13 15:17	1
Xylenes, Total	ND		0.00183		mg/Kg	☼	10/05/13 14:45	10/07/13 15:17	1
Toluene	ND		0.00122		mg/Kg	☼	10/05/13 14:45	10/07/13 15:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130	10/05/13 14:45	10/07/13 15:17	1
1,2-Dichloroethane-d4 (Surr)	105		70 - 130	10/05/13 14:45	10/07/13 15:17	1
Toluene-d8 (Surr)	115		70 - 130	10/05/13 14:45	10/07/13 15:17	1
Dibromofluoromethane (Surr)	99		70 - 130	10/05/13 14:45	10/07/13 15:17	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C12	ND		3.02		mg/Kg	☼	10/05/13 14:37	10/12/13 15:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	108		50 - 150	10/05/13 14:37	10/12/13 15:49	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C24	ND		4.81		mg/Kg	☼	10/09/13 09:22	10/10/13 00:48	1
C24-C40	ND		4.81		mg/Kg	☼	10/09/13 09:22	10/10/13 00:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	78		50 - 150	10/09/13 09:22	10/10/13 00:48	1

**General Chemistry**

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	97		0.10		%			10/07/13 12:50	1



# Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
 Project/Site: 200 Railroad Ave S, Ellensburg WA

TestAmerica Job ID: 490-37096-1

**Client Sample ID: SO-062027-100313-SB-12-5**

**Lab Sample ID: 490-37096-3**

Date Collected: 10/03/13 10:20

Matrix: Solid

Date Received: 10/05/13 08:15

Percent Solids: 95.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.00118		mg/Kg	☼	10/05/13 14:45	10/07/13 15:47	1
Ethylbenzene	ND		0.00118		mg/Kg	☼	10/05/13 14:45	10/07/13 15:47	1
Xylenes, Total	ND		0.00178		mg/Kg	☼	10/05/13 14:45	10/07/13 15:47	1
Toluene	ND		0.00118		mg/Kg	☼	10/05/13 14:45	10/07/13 15:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	115		70 - 130	10/05/13 14:45	10/07/13 15:47	1
1,2-Dichloroethane-d4 (Surr)	104		70 - 130	10/05/13 14:45	10/07/13 15:47	1
Toluene-d8 (Surr)	120		70 - 130	10/05/13 14:45	10/07/13 15:47	1
Dibromofluoromethane (Surr)	99		70 - 130	10/05/13 14:45	10/07/13 15:47	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C12	3.66		3.20		mg/Kg	☼	10/05/13 14:37	10/12/13 16:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	99		50 - 150	10/05/13 14:37	10/12/13 16:22	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C24	ND		4.95		mg/Kg	☼	10/09/13 09:22	10/10/13 01:03	1
C24-C40	ND		4.95		mg/Kg	☼	10/09/13 09:22	10/10/13 01:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	72		50 - 150	10/09/13 09:22	10/10/13 01:03	1

**General Chemistry**

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	95		0.10		%			10/07/13 12:50	1

# Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
 Project/Site: 200 Railroad Ave S, Ellensburg WA

TestAmerica Job ID: 490-37096-1

**Client Sample ID: SO-062027-100313-SB-12-10**

**Lab Sample ID: 490-37096-4**

**Date Collected: 10/03/13 10:30**

**Matrix: Solid**

**Date Received: 10/05/13 08:15**

**Percent Solids: 93.5**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.00136		mg/Kg	☼	10/05/13 14:45	10/07/13 16:17	1
Ethylbenzene	ND		0.00136		mg/Kg	☼	10/05/13 14:45	10/07/13 16:17	1
Xylenes, Total	ND		0.00204		mg/Kg	☼	10/05/13 14:45	10/07/13 16:17	1
Toluene	ND		0.00136		mg/Kg	☼	10/05/13 14:45	10/07/13 16:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130	10/05/13 14:45	10/07/13 16:17	1
1,2-Dichloroethane-d4 (Surr)	103		70 - 130	10/05/13 14:45	10/07/13 16:17	1
Toluene-d8 (Surr)	118		70 - 130	10/05/13 14:45	10/07/13 16:17	1
Dibromofluoromethane (Surr)	98		70 - 130	10/05/13 14:45	10/07/13 16:17	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>C6-C12</b>	<b>3.58</b>		3.33		mg/Kg	☼	10/05/13 14:37	10/12/13 16:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	106		50 - 150	10/05/13 14:37	10/12/13 16:55	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C24	ND		4.98		mg/Kg	☼	10/09/13 09:22	10/10/13 01:18	1
C24-C40	ND		4.98		mg/Kg	☼	10/09/13 09:22	10/10/13 01:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	78		50 - 150	10/09/13 09:22	10/10/13 01:18	1

**General Chemistry**

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Percent Solids</b>	<b>93</b>		0.10		%			10/07/13 12:50	1

# Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
 Project/Site: 200 Railroad Ave S, Ellensburg WA

TestAmerica Job ID: 490-37096-1

**Client Sample ID: SO-062027-100313-SB-13-5**

**Lab Sample ID: 490-37096-5**

Date Collected: 10/03/13 11:00

Matrix: Solid

Date Received: 10/05/13 08:15

Percent Solids: 93.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.00121		mg/Kg	☼	10/05/13 14:45	10/07/13 16:48	1
Ethylbenzene	ND		0.00121		mg/Kg	☼	10/05/13 14:45	10/07/13 16:48	1
Xylenes, Total	ND		0.00182		mg/Kg	☼	10/05/13 14:45	10/07/13 16:48	1
Toluene	ND		0.00121		mg/Kg	☼	10/05/13 14:45	10/07/13 16:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130	10/05/13 14:45	10/07/13 16:48	1
1,2-Dichloroethane-d4 (Surr)	103		70 - 130	10/05/13 14:45	10/07/13 16:48	1
Toluene-d8 (Surr)	117		70 - 130	10/05/13 14:45	10/07/13 16:48	1
Dibromofluoromethane (Surr)	99		70 - 130	10/05/13 14:45	10/07/13 16:48	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C12	10.0		4.98		mg/Kg	☼	10/05/13 14:37	10/12/13 17:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	101		50 - 150	10/05/13 14:37	10/12/13 17:28	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C24	ND		4.90		mg/Kg	☼	10/09/13 09:22	10/10/13 01:33	1
C24-C40	ND		4.90		mg/Kg	☼	10/09/13 09:22	10/10/13 01:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	81		50 - 150	10/09/13 09:22	10/10/13 01:33	1

**General Chemistry**

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	94		0.10		%			10/07/13 12:50	1

# Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
 Project/Site: 200 Railroad Ave S, Ellensburg WA

TestAmerica Job ID: 490-37096-1

**Client Sample ID: SO-062027-100313-SB-13-10**

**Lab Sample ID: 490-37096-6**

Date Collected: 10/03/13 11:10

Matrix: Solid

Date Received: 10/05/13 08:15

Percent Solids: 90.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.00142		mg/Kg	☼	10/05/13 14:45	10/07/13 17:18	1
Ethylbenzene	ND		0.00142		mg/Kg	☼	10/05/13 14:45	10/07/13 17:18	1
Xylenes, Total	ND		0.00212		mg/Kg	☼	10/05/13 14:45	10/07/13 17:18	1
Toluene	ND		0.00142		mg/Kg	☼	10/05/13 14:45	10/07/13 17:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130	10/05/13 14:45	10/07/13 17:18	1
1,2-Dichloroethane-d4 (Surr)	101		70 - 130	10/05/13 14:45	10/07/13 17:18	1
Toluene-d8 (Surr)	119		70 - 130	10/05/13 14:45	10/07/13 17:18	1
Dibromofluoromethane (Surr)	98		70 - 130	10/05/13 14:45	10/07/13 17:18	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C12	ND		3.31		mg/Kg	☼	10/05/13 14:37	10/12/13 18:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	76		50 - 150	10/05/13 14:37	10/12/13 18:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C24	ND		4.98		mg/Kg	☼	10/09/13 09:22	10/10/13 01:49	1
C24-C40	ND		4.98		mg/Kg	☼	10/09/13 09:22	10/10/13 01:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	62		50 - 150	10/09/13 09:22	10/10/13 01:49	1

**General Chemistry**

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	90		0.10		%			10/07/13 12:50	1

# Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
 Project/Site: 200 Railroad Ave S, Ellensburg WA

TestAmerica Job ID: 490-37096-1

**Client Sample ID: SO-062027-100313-MW-8-5**

**Lab Sample ID: 490-37096-7**

**Date Collected: 10/03/13 11:55**

**Matrix: Solid**

**Date Received: 10/05/13 08:15**

**Percent Solids: 88.1**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.00155		mg/Kg	☼	10/05/13 14:45	10/07/13 17:48	1
1,1,1-Trichloroethane	ND		0.00155		mg/Kg	☼	10/05/13 14:45	10/07/13 17:48	1
1,1,1,2,2-Tetrachloroethane	ND		0.00155		mg/Kg	☼	10/05/13 14:45	10/07/13 17:48	1
1,1,1,2-Trichloroethane	ND		0.00388		mg/Kg	☼	10/05/13 14:45	10/07/13 17:48	1
1,1-Dichloroethane	ND		0.00155		mg/Kg	☼	10/05/13 14:45	10/07/13 17:48	1
1,1-Dichloroethene	ND		0.00155		mg/Kg	☼	10/05/13 14:45	10/07/13 17:48	1
1,1-Dichloropropene	ND		0.00155		mg/Kg	☼	10/05/13 14:45	10/07/13 17:48	1
1,2,3-Trichlorobenzene	ND		0.00155		mg/Kg	☼	10/05/13 14:45	10/07/13 17:48	1
1,2,3-Trichloropropane	ND		0.00155		mg/Kg	☼	10/05/13 14:45	10/07/13 17:48	1
1,2,4-Trichlorobenzene	ND		0.00155		mg/Kg	☼	10/05/13 14:45	10/07/13 17:48	1
1,2,4-Trimethylbenzene	ND		0.00155		mg/Kg	☼	10/05/13 14:45	10/07/13 17:48	1
1,2-Dibromo-3-Chloropropane	ND		0.00388		mg/Kg	☼	10/05/13 14:45	10/07/13 17:48	1
1,2-Dibromoethane (EDB)	ND		0.00155		mg/Kg	☼	10/05/13 14:45	10/07/13 17:48	1
1,2-Dichlorobenzene	ND		0.00155		mg/Kg	☼	10/05/13 14:45	10/07/13 17:48	1
1,2-Dichloroethane	ND		0.00155		mg/Kg	☼	10/05/13 14:45	10/07/13 17:48	1
1,2-Dichloropropane	ND		0.00155		mg/Kg	☼	10/05/13 14:45	10/07/13 17:48	1
1,3,5-Trimethylbenzene	ND		0.00155		mg/Kg	☼	10/05/13 14:45	10/07/13 17:48	1
1,3-Dichlorobenzene	ND		0.00155		mg/Kg	☼	10/05/13 14:45	10/07/13 17:48	1
1,3-Dichloropropane	ND		0.00155		mg/Kg	☼	10/05/13 14:45	10/07/13 17:48	1
1,4-Dichlorobenzene	ND		0.00155		mg/Kg	☼	10/05/13 14:45	10/07/13 17:48	1
2,2-Dichloropropane	ND		0.00155		mg/Kg	☼	10/05/13 14:45	10/07/13 17:48	1
2-Butanone (MEK)	ND		0.0388		mg/Kg	☼	10/05/13 14:45	10/07/13 17:48	1
2-Chlorotoluene	ND		0.00155		mg/Kg	☼	10/05/13 14:45	10/07/13 17:48	1
2-Hexanone	ND		0.0388		mg/Kg	☼	10/05/13 14:45	10/07/13 17:48	1
4-Chlorotoluene	ND		0.00155		mg/Kg	☼	10/05/13 14:45	10/07/13 17:48	1
4-Methyl-2-pentanone (MIBK)	ND		0.0388		mg/Kg	☼	10/05/13 14:45	10/07/13 17:48	1
Acetone	ND		0.0388		mg/Kg	☼	10/05/13 14:45	10/07/13 17:48	1
Benzene	ND		0.00155		mg/Kg	☼	10/05/13 14:45	10/07/13 17:48	1
Bromobenzene	ND		0.00155		mg/Kg	☼	10/05/13 14:45	10/07/13 17:48	1
Bromochloromethane	ND		0.00155		mg/Kg	☼	10/05/13 14:45	10/07/13 17:48	1
Bromodichloromethane	ND		0.00155		mg/Kg	☼	10/05/13 14:45	10/07/13 17:48	1
Bromoform	ND		0.00155		mg/Kg	☼	10/05/13 14:45	10/07/13 17:48	1
Bromomethane	ND		0.00155		mg/Kg	☼	10/05/13 14:45	10/07/13 17:48	1
Carbon disulfide	ND		0.00388		mg/Kg	☼	10/05/13 14:45	10/07/13 17:48	1
Carbon tetrachloride	ND		0.00155		mg/Kg	☼	10/05/13 14:45	10/07/13 17:48	1
Chlorobenzene	ND		0.00155		mg/Kg	☼	10/05/13 14:45	10/07/13 17:48	1
Chlorodibromomethane	ND		0.00155		mg/Kg	☼	10/05/13 14:45	10/07/13 17:48	1
Chloroethane	ND		0.00388		mg/Kg	☼	10/05/13 14:45	10/07/13 17:48	1
Chloroform	ND		0.00155		mg/Kg	☼	10/05/13 14:45	10/07/13 17:48	1
Chloromethane	ND		0.00155		mg/Kg	☼	10/05/13 14:45	10/07/13 17:48	1
cis-1,2-Dichloroethene	ND		0.00155		mg/Kg	☼	10/05/13 14:45	10/07/13 17:48	1
cis-1,3-Dichloropropene	ND		0.00155		mg/Kg	☼	10/05/13 14:45	10/07/13 17:48	1
Dibromomethane	ND		0.00155		mg/Kg	☼	10/05/13 14:45	10/07/13 17:48	1
Dichlorodifluoromethane	ND		0.00155		mg/Kg	☼	10/05/13 14:45	10/07/13 17:48	1
Ethylbenzene	ND		0.00155		mg/Kg	☼	10/05/13 14:45	10/07/13 17:48	1
Hexachlorobutadiene	ND		0.00388		mg/Kg	☼	10/05/13 14:45	10/07/13 17:48	1
Isopropylbenzene	ND		0.00155		mg/Kg	☼	10/05/13 14:45	10/07/13 17:48	1
Methyl tert-butyl ether	ND		0.00155		mg/Kg	☼	10/05/13 14:45	10/07/13 17:48	1
Methylene Chloride	ND		0.00776		mg/Kg	☼	10/05/13 14:45	10/07/13 17:48	1

TestAmerica Nashville

# Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
 Project/Site: 200 Railroad Ave S, Ellensburg WA

TestAmerica Job ID: 490-37096-1

**Client Sample ID: SO-062027-100313-MW-8-5**

**Lab Sample ID: 490-37096-7**

**Date Collected: 10/03/13 11:55**

**Matrix: Solid**

**Date Received: 10/05/13 08:15**

**Percent Solids: 88.1**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		0.00388		mg/Kg	☼	10/05/13 14:45	10/07/13 17:48	1
n-Butylbenzene	ND		0.00155		mg/Kg	☼	10/05/13 14:45	10/07/13 17:48	1
N-Propylbenzene	ND		0.00155		mg/Kg	☼	10/05/13 14:45	10/07/13 17:48	1
p-Isopropyltoluene	ND		0.00155		mg/Kg	☼	10/05/13 14:45	10/07/13 17:48	1
sec-Butylbenzene	ND		0.00155		mg/Kg	☼	10/05/13 14:45	10/07/13 17:48	1
Styrene	ND		0.00155		mg/Kg	☼	10/05/13 14:45	10/07/13 17:48	1
tert-Butylbenzene	ND		0.00155		mg/Kg	☼	10/05/13 14:45	10/07/13 17:48	1
Tetrachloroethene	ND		0.00155		mg/Kg	☼	10/05/13 14:45	10/07/13 17:48	1
Toluene	ND		0.00155		mg/Kg	☼	10/05/13 14:45	10/07/13 17:48	1
trans-1,2-Dichloroethene	ND		0.00155		mg/Kg	☼	10/05/13 14:45	10/07/13 17:48	1
trans-1,3-Dichloropropene	ND		0.00155		mg/Kg	☼	10/05/13 14:45	10/07/13 17:48	1
Trichloroethene	ND		0.00155		mg/Kg	☼	10/05/13 14:45	10/07/13 17:48	1
Trichlorofluoromethane	ND		0.00155		mg/Kg	☼	10/05/13 14:45	10/07/13 17:48	1
Vinyl chloride	ND		0.00155		mg/Kg	☼	10/05/13 14:45	10/07/13 17:48	1
Xylenes, Total	ND		0.00233		mg/Kg	☼	10/05/13 14:45	10/07/13 17:48	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	104		70 - 130				10/05/13 14:45	10/07/13 17:48	1
4-Bromofluorobenzene (Surr)	112		70 - 130				10/05/13 14:45	10/07/13 17:48	1
Dibromofluoromethane (Surr)	97		70 - 130				10/05/13 14:45	10/07/13 17:48	1
Toluene-d8 (Surr)	119		70 - 130				10/05/13 14:45	10/07/13 17:48	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.00373		mg/Kg	☼	10/08/13 07:50	10/08/13 21:07	1
Acenaphthylene	ND		0.00373		mg/Kg	☼	10/08/13 07:50	10/08/13 21:07	1
Anthracene	ND		0.00373		mg/Kg	☼	10/08/13 07:50	10/08/13 21:07	1
Benzo[a]anthracene	ND		0.00373		mg/Kg	☼	10/08/13 07:50	10/08/13 21:07	1
Benzo[a]pyrene	ND		0.00373		mg/Kg	☼	10/08/13 07:50	10/08/13 21:07	1
Benzo[b]fluoranthene	ND		0.00373		mg/Kg	☼	10/08/13 07:50	10/08/13 21:07	1
Benzo[g,h,i]perylene	ND		0.00373		mg/Kg	☼	10/08/13 07:50	10/08/13 21:07	1
Benzo[k]fluoranthene	ND		0.00373		mg/Kg	☼	10/08/13 07:50	10/08/13 21:07	1
Chrysene	ND		0.00373		mg/Kg	☼	10/08/13 07:50	10/08/13 21:07	1
Dibenz(a,h)anthracene	ND		0.00373		mg/Kg	☼	10/08/13 07:50	10/08/13 21:07	1
Fluorene	ND		0.00373		mg/Kg	☼	10/08/13 07:50	10/08/13 21:07	1
Fluoranthene	ND		0.00373		mg/Kg	☼	10/08/13 07:50	10/08/13 21:07	1
Indeno[1,2,3-cd]pyrene	ND		0.00373		mg/Kg	☼	10/08/13 07:50	10/08/13 21:07	1
Naphthalene	ND		0.00373		mg/Kg	☼	10/08/13 07:50	10/08/13 21:07	1
Phenanthrene	ND		0.00373		mg/Kg	☼	10/08/13 07:50	10/08/13 21:07	1
Pyrene	ND		0.00373		mg/Kg	☼	10/08/13 07:50	10/08/13 21:07	1
1-Methylnaphthalene	ND		0.00373		mg/Kg	☼	10/08/13 07:50	10/08/13 21:07	1
2-Methylnaphthalene	ND		0.00373		mg/Kg	☼	10/08/13 07:50	10/08/13 21:07	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Terphenyl-d14	67		13 - 120				10/08/13 07:50	10/08/13 21:07	1
Nitrobenzene-d5	53		27 - 120				10/08/13 07:50	10/08/13 21:07	1
2-Fluorobiphenyl (Surr)	57		29 - 120				10/08/13 07:50	10/08/13 21:07	1

TestAmerica Nashville

# Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
 Project/Site: 200 Railroad Ave S, Ellensburg WA

TestAmerica Job ID: 490-37096-1

**Client Sample ID: SO-062027-100313-MW-8-5**

**Lab Sample ID: 490-37096-7**

Date Collected: 10/03/13 11:55

Matrix: Solid

Date Received: 10/05/13 08:15

Percent Solids: 88.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C12	10.6		4.39		mg/Kg	☼	10/05/13 14:37	10/12/13 18:35	1
<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>				<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
a,a,a-Trifluorotoluene	100		50 - 150				10/05/13 14:37	10/12/13 18:35	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0375		mg/Kg	☼	10/08/13 08:11	10/12/13 11:20	1
PCB-1221	ND		0.0375		mg/Kg	☼	10/08/13 08:11	10/12/13 11:20	1
PCB-1232	ND		0.0375		mg/Kg	☼	10/08/13 08:11	10/12/13 11:20	1
PCB-1242	ND		0.0375		mg/Kg	☼	10/08/13 08:11	10/12/13 11:20	1
PCB-1248	ND		0.0375		mg/Kg	☼	10/08/13 08:11	10/12/13 11:20	1
PCB-1254	ND		0.0375		mg/Kg	☼	10/08/13 08:11	10/12/13 11:20	1
PCB-1260	ND		0.0375		mg/Kg	☼	10/08/13 08:11	10/12/13 11:20	1
<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>				<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
Tetrachloro-m-xylene	97		19 - 147				10/08/13 08:11	10/12/13 11:20	1
DCB Decachlorobiphenyl (Surr)	78		20 - 150				10/08/13 08:11	10/12/13 11:20	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C24	5.81		4.85		mg/Kg	☼	10/09/13 09:22	10/10/13 02:04	1
C24-C40	10.3		4.85		mg/Kg	☼	10/09/13 09:22	10/10/13 02:04	1
<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>				<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
o-Terphenyl	81		50 - 150				10/09/13 09:22	10/10/13 02:04	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	32.0		0.557		mg/Kg	☼	10/15/13 13:45	10/15/13 16:59	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	88		0.10		%			10/07/13 12:50	1

# Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
 Project/Site: 200 Railroad Ave S, Ellensburg WA

TestAmerica Job ID: 490-37096-1

**Client Sample ID: SO-062027-100313-MW-8-10**

**Lab Sample ID: 490-37096-8**

**Date Collected: 10/03/13 12:05**

**Matrix: Solid**

**Date Received: 10/05/13 08:15**

**Percent Solids: 94.2**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.00150		mg/Kg	☼	10/05/13 14:45	10/07/13 18:18	1
Ethylbenzene	ND		0.00150		mg/Kg	☼	10/05/13 14:45	10/07/13 18:18	1
Xylenes, Total	ND		0.00225		mg/Kg	☼	10/05/13 14:45	10/07/13 18:18	1
Toluene	ND		0.00150		mg/Kg	☼	10/05/13 14:45	10/07/13 18:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130	10/05/13 14:45	10/07/13 18:18	1
1,2-Dichloroethane-d4 (Surr)	104		70 - 130	10/05/13 14:45	10/07/13 18:18	1
Toluene-d8 (Surr)	117		70 - 130	10/05/13 14:45	10/07/13 18:18	1
Dibromofluoromethane (Surr)	98		70 - 130	10/05/13 14:45	10/07/13 18:18	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C12	ND		3.02		mg/Kg	☼	10/05/13 14:37	10/12/13 19:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	76		50 - 150	10/05/13 14:37	10/12/13 19:08	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C24	ND		5.00		mg/Kg	☼	10/09/13 09:22	10/10/13 02:19	1
C24-C40	ND		5.00		mg/Kg	☼	10/09/13 09:22	10/10/13 02:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	84		50 - 150	10/09/13 09:22	10/10/13 02:19	1

**General Chemistry**

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	94		0.10		%			10/07/13 12:50	1



# QC Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
 Project/Site: 200 Railroad Ave S, Ellensburg WA

TestAmerica Job ID: 490-37096-1

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

**Lab Sample ID: MB 490-112381/7**

**Matrix: Solid**

**Analysis Batch: 112381**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.00200		mg/Kg			10/07/13 12:16	1
Ethylbenzene	ND		0.00200		mg/Kg			10/07/13 12:16	1
Xylenes, Total	ND		0.00300		mg/Kg			10/07/13 12:16	1
Toluene	ND		0.00200		mg/Kg			10/07/13 12:16	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130		10/07/13 12:16	1
1,2-Dichloroethane-d4 (Surr)	91		70 - 130		10/07/13 12:16	1
Toluene-d8 (Surr)	121		70 - 130		10/07/13 12:16	1
Dibromofluoromethane (Surr)	95		70 - 130		10/07/13 12:16	1

**Lab Sample ID: LCS 490-112381/3**

**Matrix: Solid**

**Analysis Batch: 112381**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.0500	0.04656		mg/Kg		93	75 - 127
Ethylbenzene	0.0500	0.05143		mg/Kg		103	80 - 134
Xylenes, Total	0.100	0.1024		mg/Kg		102	80 - 137
Toluene	0.0500	0.05344		mg/Kg		107	80 - 132

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	102		70 - 130
1,2-Dichloroethane-d4 (Surr)	102		70 - 130
Toluene-d8 (Surr)	114		70 - 130
Dibromofluoromethane (Surr)	99		70 - 130

**Lab Sample ID: LCSD 490-112381/4**

**Matrix: Solid**

**Analysis Batch: 112381**

**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
Benzene	0.0500	0.04567		mg/Kg		91	75 - 127	2	50
Ethylbenzene	0.0500	0.05040		mg/Kg		101	80 - 134	2	50
Xylenes, Total	0.100	0.1003		mg/Kg		100	80 - 137	2	50
Toluene	0.0500	0.05244		mg/Kg		105	80 - 132	2	50

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	102		70 - 130
1,2-Dichloroethane-d4 (Surr)	102		70 - 130
Toluene-d8 (Surr)	113		70 - 130
Dibromofluoromethane (Surr)	98		70 - 130

TestAmerica Nashville

# QC Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
Project/Site: 200 Railroad Ave S, Ellensburg WA

TestAmerica Job ID: 490-37096-1

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

**Lab Sample ID: MB 490-112600/1-A**

**Matrix: Solid**

**Analysis Batch: 112729**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

**Prep Batch: 112600**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.00333		mg/Kg		10/08/13 07:50	10/08/13 20:17	1
Acenaphthylene	ND		0.00333		mg/Kg		10/08/13 07:50	10/08/13 20:17	1
Anthracene	ND		0.00333		mg/Kg		10/08/13 07:50	10/08/13 20:17	1
Benzo[a]anthracene	ND		0.00333		mg/Kg		10/08/13 07:50	10/08/13 20:17	1
Benzo[a]pyrene	ND		0.00333		mg/Kg		10/08/13 07:50	10/08/13 20:17	1
Benzo[b]fluoranthene	ND		0.00333		mg/Kg		10/08/13 07:50	10/08/13 20:17	1
Benzo[g,h,i]perylene	ND		0.00333		mg/Kg		10/08/13 07:50	10/08/13 20:17	1
Benzo[k]fluoranthene	ND		0.00333		mg/Kg		10/08/13 07:50	10/08/13 20:17	1
Chrysene	ND		0.00333		mg/Kg		10/08/13 07:50	10/08/13 20:17	1
Dibenz(a,h)anthracene	ND		0.00333		mg/Kg		10/08/13 07:50	10/08/13 20:17	1
Fluorene	ND		0.00333		mg/Kg		10/08/13 07:50	10/08/13 20:17	1
Fluoranthene	ND		0.00333		mg/Kg		10/08/13 07:50	10/08/13 20:17	1
Indeno[1,2,3-cd]pyrene	ND		0.00333		mg/Kg		10/08/13 07:50	10/08/13 20:17	1
Naphthalene	ND		0.00333		mg/Kg		10/08/13 07:50	10/08/13 20:17	1
Phenanthrene	ND		0.00333		mg/Kg		10/08/13 07:50	10/08/13 20:17	1
Pyrene	ND		0.00333		mg/Kg		10/08/13 07:50	10/08/13 20:17	1
1-Methylnaphthalene	ND		0.00333		mg/Kg		10/08/13 07:50	10/08/13 20:17	1
2-Methylnaphthalene	ND		0.00333		mg/Kg		10/08/13 07:50	10/08/13 20:17	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Terphenyl-d14	84		13 - 120	10/08/13 07:50	10/08/13 20:17	1
Nitrobenzene-d5	63		27 - 120	10/08/13 07:50	10/08/13 20:17	1
2-Fluorobiphenyl (Surr)	68		29 - 120	10/08/13 07:50	10/08/13 20:17	1

**Lab Sample ID: LCS 490-112600/2-A**

**Matrix: Solid**

**Analysis Batch: 112729**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

**Prep Batch: 112600**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	0.0333	0.02754		mg/Kg		83	36 - 120
Acenaphthylene	0.0333	0.02726		mg/Kg		82	38 - 120
Anthracene	0.0333	0.02913		mg/Kg		87	46 - 124
Benzo[a]anthracene	0.0333	0.03086		mg/Kg		93	45 - 120
Benzo[a]pyrene	0.0333	0.02984		mg/Kg		90	45 - 120
Benzo[b]fluoranthene	0.0333	0.03083		mg/Kg		93	42 - 120
Benzo[g,h,i]perylene	0.0333	0.03440		mg/Kg		103	38 - 120
Benzo[k]fluoranthene	0.0333	0.03165		mg/Kg		95	42 - 120
Chrysene	0.0333	0.03181		mg/Kg		95	43 - 120
Dibenz(a,h)anthracene	0.0333	0.03698		mg/Kg		111	32 - 128
Fluorene	0.0333	0.02874		mg/Kg		86	42 - 120
Fluoranthene	0.0333	0.03085		mg/Kg		93	46 - 120
Indeno[1,2,3-cd]pyrene	0.0333	0.03377		mg/Kg		101	41 - 121
Naphthalene	0.0333	0.02652		mg/Kg		80	32 - 120
Phenanthrene	0.0333	0.02934		mg/Kg		88	45 - 120
Pyrene	0.0333	0.03050		mg/Kg		91	43 - 120
1-Methylnaphthalene	0.0333	0.02712		mg/Kg		81	32 - 120
2-Methylnaphthalene	0.0333	0.02717		mg/Kg		82	28 - 120

TestAmerica Nashville

# QC Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
Project/Site: 200 Railroad Ave S, Ellensburg WA

TestAmerica Job ID: 490-37096-1

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

**Lab Sample ID: LCS 490-112600/2-A**

**Matrix: Solid**

**Analysis Batch: 112729**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

**Prep Batch: 112600**

Surrogate	LCS		Limits
	%Recovery	Qualifier	
Terphenyl-d14	82		13 - 120
Nitrobenzene-d5	66		27 - 120
2-Fluorobiphenyl (Surr)	65		29 - 120

**Lab Sample ID: 490-37096-7 MS**

**Matrix: Solid**

**Analysis Batch: 112729**

**Client Sample ID: SO-062027-100313-MW-8-5**

**Prep Type: Total/NA**

**Prep Batch: 112600**

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec.	Limits
	Result	Qualifier		Result	Qualifier					
Acenaphthene	ND		0.0368	0.02747		mg/Kg	*	75		19 - 120
Acenaphthylene	ND		0.0368	0.02731		mg/Kg	*	74		25 - 120
Anthracene	ND		0.0368	0.02813		mg/Kg	*	77		28 - 125
Benzo[a]anthracene	ND		0.0368	0.03070		mg/Kg	*	83		23 - 120
Benzo[a]pyrene	ND		0.0368	0.02912		mg/Kg	*	79		15 - 128
Benzo[b]fluoranthene	ND		0.0368	0.02980		mg/Kg	*	81		12 - 133
Benzo[g,h,i]perylene	ND		0.0368	0.03038		mg/Kg	*	83		22 - 120
Benzo[k]fluoranthene	ND		0.0368	0.02991		mg/Kg	*	81		28 - 120
Chrysene	ND		0.0368	0.02978		mg/Kg	*	81		20 - 120
Dibenz(a,h)anthracene	ND		0.0368	0.03207		mg/Kg	*	87		12 - 128
Fluorene	ND		0.0368	0.02870		mg/Kg	*	78		20 - 120
Fluoranthene	ND		0.0368	0.03061		mg/Kg	*	83		10 - 143
Indeno[1,2,3-cd]pyrene	ND		0.0368	0.03015		mg/Kg	*	82		22 - 121
Naphthalene	ND		0.0368	0.02671		mg/Kg	*	73		10 - 120
Phenanthrene	ND		0.0368	0.02968		mg/Kg	*	81		21 - 122
Pyrene	ND		0.0368	0.03040		mg/Kg	*	83		20 - 123
1-Methylnaphthalene	ND		0.0368	0.02732		mg/Kg	*	74		10 - 120
2-Methylnaphthalene	ND		0.0368	0.02763		mg/Kg	*	75		13 - 120

Surrogate	MS		Limits
	%Recovery	Qualifier	
Terphenyl-d14	67		13 - 120
Nitrobenzene-d5	58		27 - 120
2-Fluorobiphenyl (Surr)	57		29 - 120

**Lab Sample ID: 490-37096-7 MSD**

**Matrix: Solid**

**Analysis Batch: 112729**

**Client Sample ID: SO-062027-100313-MW-8-5**

**Prep Type: Total/NA**

**Prep Batch: 112600**

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	Limits	RPD	
	Result	Qualifier		Result	Qualifier						RPD	Limit
Acenaphthene	ND		0.0370	0.02900		mg/Kg	*	78		19 - 120	5	50
Acenaphthylene	ND		0.0370	0.02834		mg/Kg	*	77		25 - 120	4	50
Anthracene	ND		0.0370	0.03100		mg/Kg	*	84		28 - 125	10	49
Benzo[a]anthracene	ND		0.0370	0.03402		mg/Kg	*	92		23 - 120	10	50
Benzo[a]pyrene	ND		0.0370	0.03271		mg/Kg	*	88		15 - 128	12	50
Benzo[b]fluoranthene	ND		0.0370	0.03289		mg/Kg	*	89		12 - 133	10	50
Benzo[g,h,i]perylene	ND		0.0370	0.03594		mg/Kg	*	97		22 - 120	17	50
Benzo[k]fluoranthene	ND		0.0370	0.03298		mg/Kg	*	89		28 - 120	10	45
Chrysene	ND		0.0370	0.03328		mg/Kg	*	90		20 - 120	11	49
Dibenz(a,h)anthracene	ND		0.0370	0.03808		mg/Kg	*	103		12 - 128	17	50

TestAmerica Nashville

# QC Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
 Project/Site: 200 Railroad Ave S, Ellensburg WA

TestAmerica Job ID: 490-37096-1

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

**Lab Sample ID: 490-37096-7 MSD**

**Matrix: Solid**

**Analysis Batch: 112729**

**Client Sample ID: SO-062027-100313-MW-8-5**

**Prep Type: Total/NA**

**Prep Batch: 112600**

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	Limit
	Result	Qualifier		Result	Qualifier				Limits		
Fluorene	ND		0.0370	0.02982		mg/Kg	✱	81	20 - 120	4	50
Fluoranthene	ND		0.0370	0.03350		mg/Kg	✱	91	10 - 143	9	50
Indeno[1,2,3-cd]pyrene	ND		0.0370	0.03550		mg/Kg	✱	96	22 - 121	16	50
Naphthalene	ND		0.0370	0.02728		mg/Kg	✱	74	10 - 120	2	50
Phenanthrene	ND		0.0370	0.03164		mg/Kg	✱	86	21 - 122	6	50
Pyrene	ND		0.0370	0.03387		mg/Kg	✱	92	20 - 123	11	50
1-Methylnaphthalene	ND		0.0370	0.02827		mg/Kg	✱	76	10 - 120	3	50
2-Methylnaphthalene	ND		0.0370	0.02856		mg/Kg	✱	77	13 - 120	3	50
<b>Surrogate</b>	<b>%Recovery</b>	<b>MSD Qualifier</b>	<b>Limits</b>								
Terphenyl-d14	74		13 - 120								
Nitrobenzene-d5	59		27 - 120								
2-Fluorobiphenyl (Surr)	60		29 - 120								

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

**Lab Sample ID: 490-37096-1 DU**

**Matrix: Solid**

**Analysis Batch: 113587**

**Client Sample ID: SO-062027-100313-MW-7-5**

**Prep Type: Total/NA**

**Prep Batch: 112276**

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	Limit
	Result	Qualifier		Result				
C6-C12	ND		ND		mg/Kg	✱	NC	10
<b>Surrogate</b>	<b>%Recovery</b>	<b>DU Qualifier</b>	<b>Limits</b>					
a,a,a-Trifluorotoluene	92		50 - 150					

**Lab Sample ID: MB 490-113587/39**

**Matrix: Solid**

**Analysis Batch: 113587**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
C6-C12	ND		5.00		mg/Kg			10/12/13 12:30	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>MB Qualifier</b>	<b>Limits</b>			<b>Prepared</b>		<b>Analyzed</b>	<b>Dil Fac</b>
a,a,a-Trifluorotoluene	97		50 - 150					10/12/13 12:30	1

**Lab Sample ID: LCS 490-113587/64**

**Matrix: Solid**

**Analysis Batch: 113587**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

Analyte	Spike	LCS	LCS	Unit	D	%Rec	%Rec.
							Added
C6-C12	10.0	9.210		mg/Kg		92	70 - 130
<b>Surrogate</b>	<b>%Recovery</b>	<b>LCS Qualifier</b>	<b>Limits</b>				
a,a,a-Trifluorotoluene	77		50 - 150				

TestAmerica Nashville

# QC Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
 Project/Site: 200 Railroad Ave S, Ellensburg WA

TestAmerica Job ID: 490-37096-1

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

**Lab Sample ID: MB 490-112601/1-A**  
**Matrix: Solid**  
**Analysis Batch: 113656**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 112601**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0333		mg/Kg		10/08/13 08:11	10/12/13 09:32	1
PCB-1221	ND		0.0333		mg/Kg		10/08/13 08:11	10/12/13 09:32	1
PCB-1232	ND		0.0333		mg/Kg		10/08/13 08:11	10/12/13 09:32	1
PCB-1242	ND		0.0333		mg/Kg		10/08/13 08:11	10/12/13 09:32	1
PCB-1248	ND		0.0333		mg/Kg		10/08/13 08:11	10/12/13 09:32	1
PCB-1254	ND		0.0333		mg/Kg		10/08/13 08:11	10/12/13 09:32	1
PCB-1260	ND		0.0333		mg/Kg		10/08/13 08:11	10/12/13 09:32	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	103		19 - 147	10/08/13 08:11	10/12/13 09:32	1
DCB Decachlorobiphenyl (Surr)	81		20 - 150	10/08/13 08:11	10/12/13 09:32	1

**Lab Sample ID: LCS 490-112601/2-A**  
**Matrix: Solid**  
**Analysis Batch: 113656**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 112601**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
PCB-1242	0.167	0.1698		mg/Kg		102	39 - 150

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Tetrachloro-m-xylene	100		19 - 147
DCB Decachlorobiphenyl (Surr)	80		20 - 150

**Lab Sample ID: 490-37104-G-5-C MS**  
**Matrix: Solid**  
**Analysis Batch: 113656**

**Client Sample ID: Matrix Spike**  
**Prep Type: Total/NA**  
**Prep Batch: 112601**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
PCB-1242	ND		0.191	0.3202		mg/Kg	☼	168	10 - 168

Surrogate	MS %Recovery	MS Qualifier	Limits
Tetrachloro-m-xylene	98		19 - 147
DCB Decachlorobiphenyl (Surr)	71		20 - 150

**Lab Sample ID: 490-37104-G-5-D MSD**  
**Matrix: Solid**  
**Analysis Batch: 113656**

**Client Sample ID: Matrix Spike Duplicate**  
**Prep Type: Total/NA**  
**Prep Batch: 112601**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
PCB-1242	ND		0.192	0.3399	F	mg/Kg	☼	177	10 - 168	6	50

Surrogate	MSD %Recovery	MSD Qualifier	Limits
Tetrachloro-m-xylene	69		19 - 147
DCB Decachlorobiphenyl (Surr)	71		20 - 150

# QC Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
 Project/Site: 200 Railroad Ave S, Ellensburg WA

TestAmerica Job ID: 490-37096-1

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

**Lab Sample ID: MB 490-112949/1-A**

**Matrix: Solid**

**Analysis Batch: 112980**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

**Prep Batch: 112949**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C24	ND		5.00		mg/Kg		10/09/13 09:22	10/10/13 00:02	1
C24-C40	ND		5.00		mg/Kg		10/09/13 09:22	10/10/13 00:02	1
Surrogate	%Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	78		50 - 150				10/09/13 09:22	10/10/13 00:02	1

**Lab Sample ID: LCS 490-112949/2-A**

**Matrix: Solid**

**Analysis Batch: 112980**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

**Prep Batch: 112949**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
C10-C24	50.0	44.37		mg/Kg		89	55 - 129
Surrogate	%Recovery	LCS Qualifier	Limits				
<i>o</i> -Terphenyl	90		50 - 150				

**Lab Sample ID: 490-37104-F-1-B DU**

**Matrix: Solid**

**Analysis Batch: 112980**

**Client Sample ID: Duplicate**

**Prep Type: Total/NA**

**Prep Batch: 112949**

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
C10-C24	16.3		17.27		mg/Kg	☼	6	50
C24-C40	6.80		9.654		mg/Kg	☼	35	50
Surrogate	%Recovery	DU Qualifier	Limits					
<i>o</i> -Terphenyl	65		50 - 150					

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

**Lab Sample ID: MB 490-114526/1-A**

**Matrix: Solid**

**Analysis Batch: 114654**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

**Prep Batch: 114526**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.499		mg/Kg		10/15/13 13:45	10/15/13 16:50	1

**Lab Sample ID: LCS 490-114526/2-A**

**Matrix: Solid**

**Analysis Batch: 114654**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

**Prep Batch: 114526**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Lead	19.3	19.60		mg/Kg		102	80 - 120

TestAmerica Nashville

# QC Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
 Project/Site: 200 Railroad Ave S, Ellensburg WA

TestAmerica Job ID: 490-37096-1

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

Lab Sample ID: 490-37096-7 MS

Matrix: Solid

Analysis Batch: 114654

Client Sample ID: SO-062027-100313-MW-8-5

Prep Type: Total/NA

Prep Batch: 114526

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Lead	32.0		22.0	44.02	F	mg/Kg	☼	55	75 - 125

Lab Sample ID: 490-37096-7 MSD

Matrix: Solid

Analysis Batch: 114654

Client Sample ID: SO-062027-100313-MW-8-5

Prep Type: Total/NA

Prep Batch: 114526

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	RPD Limit
Lead	32.0		22.3	54.48	F	mg/Kg	☼	101	75 - 125	21	20

## Method: Moisture - Percent Moisture

Lab Sample ID: 490-37104-G-1 DU

Matrix: Solid

Analysis Batch: 112469

Client Sample ID: Duplicate

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Percent Solids	81		80		%		0.8	20

# QC Association Summary

Client: Conestoga-Rovers & Associates, Inc.  
 Project/Site: 200 Railroad Ave S, Ellensburg WA

TestAmerica Job ID: 490-37096-1

## GC/MS VOA

### Prep Batch: 112280

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-37096-1	SO-062027-100313-MW-7-5	Total/NA	Solid	5035	
490-37096-2	SO-062027-100313-MW-7-10	Total/NA	Solid	5035	
490-37096-3	SO-062027-100313-SB-12-5	Total/NA	Solid	5035	
490-37096-4	SO-062027-100313-SB-12-10	Total/NA	Solid	5035	
490-37096-5	SO-062027-100313-SB-13-5	Total/NA	Solid	5035	
490-37096-6	SO-062027-100313-SB-13-10	Total/NA	Solid	5035	
490-37096-7	SO-062027-100313-MW-8-5	Total/NA	Solid	5035	
490-37096-8	SO-062027-100313-MW-8-10	Total/NA	Solid	5035	

### Analysis Batch: 112381

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-37096-1	SO-062027-100313-MW-7-5	Total/NA	Solid	8260B	112280
490-37096-2	SO-062027-100313-MW-7-10	Total/NA	Solid	8260B	112280
490-37096-3	SO-062027-100313-SB-12-5	Total/NA	Solid	8260B	112280
490-37096-4	SO-062027-100313-SB-12-10	Total/NA	Solid	8260B	112280
490-37096-5	SO-062027-100313-SB-13-5	Total/NA	Solid	8260B	112280
490-37096-6	SO-062027-100313-SB-13-10	Total/NA	Solid	8260B	112280
490-37096-7	SO-062027-100313-MW-8-5	Total/NA	Solid	8260B	112280
490-37096-8	SO-062027-100313-MW-8-10	Total/NA	Solid	8260B	112280
LCS 490-112381/3	Lab Control Sample	Total/NA	Solid	8260B	
LCS 490-112381/4	Lab Control Sample Dup	Total/NA	Solid	8260B	
MB 490-112381/7	Method Blank	Total/NA	Solid	8260B	

## GC/MS Semi VOA

### Prep Batch: 112600

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-37096-7	SO-062027-100313-MW-8-5	Total/NA	Solid	3550B	
490-37096-7 MS	SO-062027-100313-MW-8-5	Total/NA	Solid	3550B	
490-37096-7 MSD	SO-062027-100313-MW-8-5	Total/NA	Solid	3550B	
LCS 490-112600/2-A	Lab Control Sample	Total/NA	Solid	3550B	
MB 490-112600/1-A	Method Blank	Total/NA	Solid	3550B	

### Analysis Batch: 112729

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-37096-7	SO-062027-100313-MW-8-5	Total/NA	Solid	8270C SIM	112600
490-37096-7 MS	SO-062027-100313-MW-8-5	Total/NA	Solid	8270C SIM	112600
490-37096-7 MSD	SO-062027-100313-MW-8-5	Total/NA	Solid	8270C SIM	112600
LCS 490-112600/2-A	Lab Control Sample	Total/NA	Solid	8270C SIM	112600
MB 490-112600/1-A	Method Blank	Total/NA	Solid	8270C SIM	112600

## GC VOA

### Prep Batch: 112276

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-37096-1	SO-062027-100313-MW-7-5	Total/NA	Solid	5035	
490-37096-1 DU	SO-062027-100313-MW-7-5	Total/NA	Solid	5035	
490-37096-2	SO-062027-100313-MW-7-10	Total/NA	Solid	5035	
490-37096-3	SO-062027-100313-SB-12-5	Total/NA	Solid	5035	
490-37096-4	SO-062027-100313-SB-12-10	Total/NA	Solid	5035	

TestAmerica Nashville



# QC Association Summary

Client: Conestoga-Rovers & Associates, Inc.  
 Project/Site: 200 Railroad Ave S, Ellensburg WA

TestAmerica Job ID: 490-37096-1

## GC VOA (Continued)

### Prep Batch: 112276 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-37096-5	SO-062027-100313-SB-13-5	Total/NA	Solid	5035	
490-37096-6	SO-062027-100313-SB-13-10	Total/NA	Solid	5035	
490-37096-7	SO-062027-100313-MW-8-5	Total/NA	Solid	5035	
490-37096-8	SO-062027-100313-MW-8-10	Total/NA	Solid	5035	

### Analysis Batch: 113587

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-37096-1	SO-062027-100313-MW-7-5	Total/NA	Solid	NWTPH-Gx	112276
490-37096-1 DU	SO-062027-100313-MW-7-5	Total/NA	Solid	NWTPH-Gx	112276
490-37096-2	SO-062027-100313-MW-7-10	Total/NA	Solid	NWTPH-Gx	112276
490-37096-3	SO-062027-100313-SB-12-5	Total/NA	Solid	NWTPH-Gx	112276
490-37096-4	SO-062027-100313-SB-12-10	Total/NA	Solid	NWTPH-Gx	112276
490-37096-5	SO-062027-100313-SB-13-5	Total/NA	Solid	NWTPH-Gx	112276
490-37096-6	SO-062027-100313-SB-13-10	Total/NA	Solid	NWTPH-Gx	112276
490-37096-7	SO-062027-100313-MW-8-5	Total/NA	Solid	NWTPH-Gx	112276
490-37096-8	SO-062027-100313-MW-8-10	Total/NA	Solid	NWTPH-Gx	112276
LCS 490-113587/64	Lab Control Sample	Total/NA	Solid	NWTPH-Gx	
MB 490-113587/39	Method Blank	Total/NA	Solid	NWTPH-Gx	

## GC Semi VOA

### Prep Batch: 112601

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-37096-7	SO-062027-100313-MW-8-5	Total/NA	Solid	3550B	
490-37104-G-5-C MS	Matrix Spike	Total/NA	Solid	3550B	
490-37104-G-5-D MSD	Matrix Spike Duplicate	Total/NA	Solid	3550B	
LCS 490-112601/2-A	Lab Control Sample	Total/NA	Solid	3550B	
MB 490-112601/1-A	Method Blank	Total/NA	Solid	3550B	

### Prep Batch: 112949

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-37096-1	SO-062027-100313-MW-7-5	Total/NA	Solid	3550B	
490-37096-2	SO-062027-100313-MW-7-10	Total/NA	Solid	3550B	
490-37096-3	SO-062027-100313-SB-12-5	Total/NA	Solid	3550B	
490-37096-4	SO-062027-100313-SB-12-10	Total/NA	Solid	3550B	
490-37096-5	SO-062027-100313-SB-13-5	Total/NA	Solid	3550B	
490-37096-6	SO-062027-100313-SB-13-10	Total/NA	Solid	3550B	
490-37096-7	SO-062027-100313-MW-8-5	Total/NA	Solid	3550B	
490-37096-8	SO-062027-100313-MW-8-10	Total/NA	Solid	3550B	
490-37104-F-1-B DU	Duplicate	Total/NA	Solid	3550B	
LCS 490-112949/2-A	Lab Control Sample	Total/NA	Solid	3550B	
MB 490-112949/1-A	Method Blank	Total/NA	Solid	3550B	

### Analysis Batch: 112980

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-37096-1	SO-062027-100313-MW-7-5	Total/NA	Solid	NWTPH-Dx	112949
490-37096-2	SO-062027-100313-MW-7-10	Total/NA	Solid	NWTPH-Dx	112949
490-37096-3	SO-062027-100313-SB-12-5	Total/NA	Solid	NWTPH-Dx	112949
490-37096-4	SO-062027-100313-SB-12-10	Total/NA	Solid	NWTPH-Dx	112949
490-37096-5	SO-062027-100313-SB-13-5	Total/NA	Solid	NWTPH-Dx	112949

TestAmerica Nashville

# QC Association Summary

Client: Conestoga-Rovers & Associates, Inc.  
 Project/Site: 200 Railroad Ave S, Ellensburg WA

TestAmerica Job ID: 490-37096-1

## GC Semi VOA (Continued)

### Analysis Batch: 112980 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-37096-6	SO-062027-100313-SB-13-10	Total/NA	Solid	NWTPH-Dx	112949
490-37096-7	SO-062027-100313-MW-8-5	Total/NA	Solid	NWTPH-Dx	112949
490-37096-8	SO-062027-100313-MW-8-10	Total/NA	Solid	NWTPH-Dx	112949
490-37104-F-1-B DU	Duplicate	Total/NA	Solid	NWTPH-Dx	112949
LCS 490-112949/2-A	Lab Control Sample	Total/NA	Solid	NWTPH-Dx	112949
MB 490-112949/1-A	Method Blank	Total/NA	Solid	NWTPH-Dx	112949

### Analysis Batch: 113656

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-37096-7	SO-062027-100313-MW-8-5	Total/NA	Solid	8082	112601
490-37104-G-5-C MS	Matrix Spike	Total/NA	Solid	8082	112601
490-37104-G-5-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8082	112601
LCS 490-112601/2-A	Lab Control Sample	Total/NA	Solid	8082	112601
MB 490-112601/1-A	Method Blank	Total/NA	Solid	8082	112601

## Metals

### Prep Batch: 114526

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-37096-7	SO-062027-100313-MW-8-5	Total/NA	Solid	3051	
490-37096-7 MS	SO-062027-100313-MW-8-5	Total/NA	Solid	3051	
490-37096-7 MSD	SO-062027-100313-MW-8-5	Total/NA	Solid	3051	
LCS 490-114526/2-A	Lab Control Sample	Total/NA	Solid	3051	
MB 490-114526/1-A	Method Blank	Total/NA	Solid	3051	

### Analysis Batch: 114654

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-37096-7	SO-062027-100313-MW-8-5	Total/NA	Solid	6020	114526
490-37096-7 MS	SO-062027-100313-MW-8-5	Total/NA	Solid	6020	114526
490-37096-7 MSD	SO-062027-100313-MW-8-5	Total/NA	Solid	6020	114526
LCS 490-114526/2-A	Lab Control Sample	Total/NA	Solid	6020	114526
MB 490-114526/1-A	Method Blank	Total/NA	Solid	6020	114526

## General Chemistry

### Analysis Batch: 112469

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-37096-1	SO-062027-100313-MW-7-5	Total/NA	Solid	Moisture	
490-37096-2	SO-062027-100313-MW-7-10	Total/NA	Solid	Moisture	
490-37096-3	SO-062027-100313-SB-12-5	Total/NA	Solid	Moisture	
490-37096-4	SO-062027-100313-SB-12-10	Total/NA	Solid	Moisture	
490-37096-5	SO-062027-100313-SB-13-5	Total/NA	Solid	Moisture	
490-37096-6	SO-062027-100313-SB-13-10	Total/NA	Solid	Moisture	
490-37096-7	SO-062027-100313-MW-8-5	Total/NA	Solid	Moisture	
490-37096-8	SO-062027-100313-MW-8-10	Total/NA	Solid	Moisture	
490-37104-G-1 DU	Duplicate	Total/NA	Solid	Moisture	

# Lab Chronicle

Client: Conestoga-Rovers & Associates, Inc.  
 Project/Site: 200 Railroad Ave S, Ellensburg WA

TestAmerica Job ID: 490-37096-1

**Client Sample ID: SO-062027-100313-MW-7-5**

**Lab Sample ID: 490-37096-1**

Date Collected: 10/03/13 08:50

Matrix: Solid

Date Received: 10/05/13 08:15

Percent Solids: 92.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			112280	10/05/13 14:45	JLP	TAL NSH
Total/NA	Analysis	8260B		1	112381	10/07/13 14:47	KKK	TAL NSH
Total/NA	Prep	5035			112276	10/05/13 14:37	JLP	TAL NSH
Total/NA	Analysis	NWTPH-Gx		1	113587	10/12/13 14:43	AMC	TAL NSH
Total/NA	Prep	3550B			112949	10/09/13 09:22	BJB	TAL NSH
Total/NA	Analysis	NWTPH-Dx		1	112980	10/10/13 00:32	JML	TAL NSH
Total/NA	Analysis	Moisture		1	112469	10/07/13 12:50	RRS	TAL NSH

**Client Sample ID: SO-062027-100313-MW-7-10**

**Lab Sample ID: 490-37096-2**

Date Collected: 10/03/13 09:00

Matrix: Solid

Date Received: 10/05/13 08:15

Percent Solids: 96.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			112280	10/05/13 14:45	JLP	TAL NSH
Total/NA	Analysis	8260B		1	112381	10/07/13 15:17	KKK	TAL NSH
Total/NA	Prep	5035			112276	10/05/13 14:37	JLP	TAL NSH
Total/NA	Analysis	NWTPH-Gx		1	113587	10/12/13 15:49	AMC	TAL NSH
Total/NA	Prep	3550B			112949	10/09/13 09:22	BJB	TAL NSH
Total/NA	Analysis	NWTPH-Dx		1	112980	10/10/13 00:48	JML	TAL NSH
Total/NA	Analysis	Moisture		1	112469	10/07/13 12:50	RRS	TAL NSH

**Client Sample ID: SO-062027-100313-SB-12-5**

**Lab Sample ID: 490-37096-3**

Date Collected: 10/03/13 10:20

Matrix: Solid

Date Received: 10/05/13 08:15

Percent Solids: 95.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			112280	10/05/13 14:45	JLP	TAL NSH
Total/NA	Analysis	8260B		1	112381	10/07/13 15:47	KKK	TAL NSH
Total/NA	Prep	5035			112276	10/05/13 14:37	JLP	TAL NSH
Total/NA	Analysis	NWTPH-Gx		1	113587	10/12/13 16:22	AMC	TAL NSH
Total/NA	Prep	3550B			112949	10/09/13 09:22	BJB	TAL NSH
Total/NA	Analysis	NWTPH-Dx		1	112980	10/10/13 01:03	JML	TAL NSH
Total/NA	Analysis	Moisture		1	112469	10/07/13 12:50	RRS	TAL NSH

**Client Sample ID: SO-062027-100313-SB-12-10**

**Lab Sample ID: 490-37096-4**

Date Collected: 10/03/13 10:30

Matrix: Solid

Date Received: 10/05/13 08:15

Percent Solids: 93.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			112280	10/05/13 14:45	JLP	TAL NSH
Total/NA	Analysis	8260B		1	112381	10/07/13 16:17	KKK	TAL NSH
Total/NA	Prep	5035			112276	10/05/13 14:37	JLP	TAL NSH
Total/NA	Analysis	NWTPH-Gx		1	113587	10/12/13 16:55	AMC	TAL NSH

TestAmerica Nashville

# Lab Chronicle

Client: Conestoga-Rovers & Associates, Inc.  
 Project/Site: 200 Railroad Ave S, Ellensburg WA

TestAmerica Job ID: 490-37096-1

**Client Sample ID: SO-062027-100313-SB-12-10**

**Lab Sample ID: 490-37096-4**

Date Collected: 10/03/13 10:30

Matrix: Solid

Date Received: 10/05/13 08:15

Percent Solids: 93.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550B			112949	10/09/13 09:22	BJB	TAL NSH
Total/NA	Analysis	NWTPH-Dx		1	112980	10/10/13 01:18	JML	TAL NSH
Total/NA	Analysis	Moisture		1	112469	10/07/13 12:50	RRS	TAL NSH

**Client Sample ID: SO-062027-100313-SB-13-5**

**Lab Sample ID: 490-37096-5**

Date Collected: 10/03/13 11:00

Matrix: Solid

Date Received: 10/05/13 08:15

Percent Solids: 93.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			112280	10/05/13 14:45	JLP	TAL NSH
Total/NA	Analysis	8260B		1	112381	10/07/13 16:48	KKK	TAL NSH
Total/NA	Prep	5035			112276	10/05/13 14:37	JLP	TAL NSH
Total/NA	Analysis	NWTPH-Gx		1	113587	10/12/13 17:28	AMC	TAL NSH
Total/NA	Prep	3550B			112949	10/09/13 09:22	BJB	TAL NSH
Total/NA	Analysis	NWTPH-Dx		1	112980	10/10/13 01:33	JML	TAL NSH
Total/NA	Analysis	Moisture		1	112469	10/07/13 12:50	RRS	TAL NSH

**Client Sample ID: SO-062027-100313-SB-13-10**

**Lab Sample ID: 490-37096-6**

Date Collected: 10/03/13 11:10

Matrix: Solid

Date Received: 10/05/13 08:15

Percent Solids: 90.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			112280	10/05/13 14:45	JLP	TAL NSH
Total/NA	Analysis	8260B		1	112381	10/07/13 17:18	KKK	TAL NSH
Total/NA	Prep	5035			112276	10/05/13 14:37	JLP	TAL NSH
Total/NA	Analysis	NWTPH-Gx		1	113587	10/12/13 18:01	AMC	TAL NSH
Total/NA	Prep	3550B			112949	10/09/13 09:22	BJB	TAL NSH
Total/NA	Analysis	NWTPH-Dx		1	112980	10/10/13 01:49	JML	TAL NSH
Total/NA	Analysis	Moisture		1	112469	10/07/13 12:50	RRS	TAL NSH

**Client Sample ID: SO-062027-100313-MW-8-5**

**Lab Sample ID: 490-37096-7**

Date Collected: 10/03/13 11:55

Matrix: Solid

Date Received: 10/05/13 08:15

Percent Solids: 88.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			112280	10/05/13 14:45	JLP	TAL NSH
Total/NA	Analysis	8260B		1	112381	10/07/13 17:48	KKK	TAL NSH
Total/NA	Prep	3550B			112600	10/08/13 07:50	LP	TAL NSH
Total/NA	Analysis	8270C SIM		1	112729	10/08/13 21:07	BES	TAL NSH
Total/NA	Prep	5035			112276	10/05/13 14:37	JLP	TAL NSH
Total/NA	Analysis	NWTPH-Gx		1	113587	10/12/13 18:35	AMC	TAL NSH
Total/NA	Prep	3550B			112949	10/09/13 09:22	BJB	TAL NSH
Total/NA	Analysis	NWTPH-Dx		1	112980	10/10/13 02:04	JML	TAL NSH

TestAmerica Nashville

# Lab Chronicle

Client: Conestoga-Rovers & Associates, Inc.  
 Project/Site: 200 Railroad Ave S, Ellensburg WA

TestAmerica Job ID: 490-37096-1

## Client Sample ID: SO-062027-100313-MW-8-5

## Lab Sample ID: 490-37096-7

Date Collected: 10/03/13 11:55

Matrix: Solid

Date Received: 10/05/13 08:15

Percent Solids: 88.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550B			112601	10/08/13 08:11	LP	TAL NSH
Total/NA	Analysis	8082		1	113656	10/12/13 11:20	WAM	TAL NSH
Total/NA	Prep	3051			114526	10/15/13 13:45	NLI	TAL NSH
Total/NA	Analysis	6020		1	114654	10/15/13 16:59	BWW	TAL NSH
Total/NA	Analysis	Moisture		1	112469	10/07/13 12:50	RRS	TAL NSH

## Client Sample ID: SO-062027-100313-MW-8-10

## Lab Sample ID: 490-37096-8

Date Collected: 10/03/13 12:05

Matrix: Solid

Date Received: 10/05/13 08:15

Percent Solids: 94.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			112280	10/05/13 14:45	JLP	TAL NSH
Total/NA	Analysis	8260B		1	112381	10/07/13 18:18	KKK	TAL NSH
Total/NA	Prep	5035			112276	10/05/13 14:37	JLP	TAL NSH
Total/NA	Analysis	NWTPH-Gx		1	113587	10/12/13 19:08	AMC	TAL NSH
Total/NA	Prep	3550B			112949	10/09/13 09:22	BJB	TAL NSH
Total/NA	Analysis	NWTPH-Dx		1	112980	10/10/13 02:19	JML	TAL NSH
Total/NA	Analysis	Moisture		1	112469	10/07/13 12:50	RRS	TAL NSH

**Laboratory References:**

TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Drive, Nashville, TN 37204, TEL (615)726-0177

# Method Summary

Client: Conestoga-Rovers & Associates, Inc.  
Project/Site: 200 Railroad Ave S, Ellensburg WA

TestAmerica Job ID: 490-37096-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL NSH
8270C SIM	Semivolatile Organic Compounds (GC/MS SIM)	SW846	TAL NSH
NWTPH-Gx	Northwest - Volatile Petroleum Products (GC)	NWTPH	TAL NSH
8082	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL NSH
NWTPH-Dx	Northwest - Semi-Volatile Petroleum Products (GC)	NWTPH	TAL NSH
6020	Metals (ICP/MS)	SW846	TAL NSH
Moisture	Percent Moisture	EPA	TAL NSH

**Protocol References:**

EPA = US Environmental Protection Agency

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 NSH = TestAmerica Nashville, 2960 Foster Creighton Drive, Nashville, TN 37204, TEL (615)726-0177



# Certification Summary

Client: Conestoga-Rovers & Associates, Inc.  
 Project/Site: 200 Railroad Ave S, Ellensburg WA

TestAmerica Job ID: 490-37096-1

## Laboratory: TestAmerica Nashville

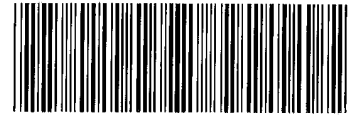
Unless otherwise noted, all analytes for this laboratory were covered under each certification below.

Authority	Program	EPA Region	Certification ID	Expiration Date
Washington	State Program	10	C789	07-19-14

The following analytes are included in this report, but certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
6020	3051	Solid	Lead
8082	3550B	Solid	PCB-1016
8082	3550B	Solid	PCB-1221
8082	3550B	Solid	PCB-1232
8082	3550B	Solid	PCB-1242
8082	3550B	Solid	PCB-1248
8082	3550B	Solid	PCB-1254
8082	3550B	Solid	PCB-1260
8270C SIM	3550B	Solid	1-Methylnaphthalene
8270C SIM	3550B	Solid	2-Methylnaphthalene
8270C SIM	3550B	Solid	Acenaphthene
8270C SIM	3550B	Solid	Acenaphthylene
8270C SIM	3550B	Solid	Anthracene
8270C SIM	3550B	Solid	Benzo[a]anthracene
8270C SIM	3550B	Solid	Benzo[a]pyrene
8270C SIM	3550B	Solid	Benzo[b]fluoranthene
8270C SIM	3550B	Solid	Benzo[g,h,i]perylene
8270C SIM	3550B	Solid	Benzo[k]fluoranthene
8270C SIM	3550B	Solid	Chrysene
8270C SIM	3550B	Solid	Dibenz(a,h)anthracene
8270C SIM	3550B	Solid	Fluoranthene
8270C SIM	3550B	Solid	Fluorene
8270C SIM	3550B	Solid	Indeno[1,2,3-cd]pyrene
8270C SIM	3550B	Solid	Naphthalene
8270C SIM	3550B	Solid	Phenanthrene
8270C SIM	3550B	Solid	Pyrene
Moisture		Solid	Percent Solids
NWTPH-Dx	3550B	Solid	C10-C24
NWTPH-Gx		Solid	C6-C12
NWTPH-Gx	5035	Solid	C6-C12

## COOLER RECEIPT FORM



490-37096 Chain of Custody

Cooler Received/Opened On: 10/5/2013 @0815

1. Tracking # 1225 (last 4 digits, FedEx)

Courier: Fed-Ex IR Gun ID: 14740456

2. Temperature of rep. sample or temp blank when opened: 2.6 Degrees Celsius

3. If item #2 temperature is 0°C or less, was the representative sample or temp blank frozen? YES NO  NA

4. Were custody seals on outside of cooler?  YES  NO  NA

If yes, how many and where: 2 Front

5. Were the seals intact, signed, and dated correctly?  YES  NO  NA

6. Were custody papers inside cooler?  YES  NO  NA

I certify that I opened the cooler and answered questions 1-6 (initial) EF

7. Were custody seals on containers: YES  NO  and Intact YES...NO... NA

Were these signed and dated correctly? YES...NO... NA

8. Packing mat'l used?  Bubblewrap  Plastic bag  Peanuts  Vermiculite  Foam Insert  Paper  Other  None

9. Cooling process:  Ice  Ice-pack  Ice (direct contact)  Dry ice  Other  None

10. Did all containers arrive in good condition (unbroken)?  YES  NO  NA

11. Were all container labels complete (#, date, signed, pres., etc)?  YES  NO  NA

12. Did all container labels and tags agree with custody papers?  YES  NO  NA

13a. Were VOA vials received?  YES  NO  NA

b. Was there any observable headspace present in any VOA vial? YES...NO... NA Soil

14. Was there a Trip Blank in this cooler? YES... NO...NA If multiple coolers, sequence # 1

I certify that I unloaded the cooler and answered questions 7-14 (initial) EF

15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? YES...NO... NA

b. Did the bottle labels indicate that the correct preservatives were used  YES  NO  NA

16. Was residual chlorine present? YES...NO... NA

I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (initial) EF

17. Were custody papers properly filled out (ink, signed, etc)?  YES  NO  NA

18. Did you sign the custody papers in the appropriate place?  YES  NO  NA

19. Were correct containers used for the analysis requested?  YES  NO  NA

20. Was sufficient amount of sample sent in each container?  YES  NO  NA

I certify that I entered this project into LIMS and answered questions 17-20 (initial) EF

I certify that I attached a label with the unique LIMS number to each container (initial) EF

21. Were there Non-Conformance issues at login? YES  NO  Was a NCM generated? YES... NO...#



LAB (LOCATION)

- CALSCIENCE ( )
- SPL (Houston)
- XENCO ( )
- TEST AMERICA *Nashville*
- OTHER ( )



Shell Oil Products Chain Of Custody Record

Please Check Appropriate Box:

<input type="checkbox"/> ENV. SERVICES	<input type="checkbox"/> MOTIVA RETAIL	<input type="checkbox"/> SHELL RETAIL
<input type="checkbox"/> MOTIVA SD&CM	<input checked="" type="checkbox"/> CONSULTANT	<input type="checkbox"/> LUBES
<input type="checkbox"/> SHELL PIPELINE	<input type="checkbox"/> OTHER	

Print EOI To Contact Name: **Brian Peters**

PO #: \_\_\_\_\_

INCIDENT # (ENV SERVICES): **7970447**

SAP #: \_\_\_\_\_

CHECK IF NO INCIDENT # APPLIES

DATE: **10/4/13**

PAGE: **1** of **1**

SAMPLING COMPANY: **Conestoga-Rovers & Associates**

LOG CODE: **NA**

ADDRESS: **20818 44th Ave W, Suite 190, Lynnwood, WA 98036**

SITE ADDRESS: Street and City: **200 Railroad Ave S, Elensburg**

State: **WA** GLOBAL ID NO.: **NA**

EDF DELIVERABLE TO (Name, Company, Office Location): **NA** PHONE NO.: **NA** E-MAIL: **NA**

CONSULTANT PROJECT NO.: **062027**

PROJECT CONTACT (Hardcopy or PDF Report to): **Brian Peters**

TELEPHONE: **425-563-6500** FAX: **425-563-6599** E-MAIL: **BPeters@craworld.com**

TURNAROUND TIME (CALENDAR DAYS):

STANDARD (14 DAY)  5 DAYS  3 DAYS  2 DAYS  24 HOURS  RESULTS NEEDED ON WEEKEND

LA - RWQCB REPORT FORMAT  UST AGENCY:

SAMPLER NAME(S) (Print): **Stephen Rasmussen**

LAB USE ONLY

REQUESTED ANALYSIS

SPECIAL INSTRUCTIONS OR NOTES:

~~TCLP benzene required if benzene > 10 mg/kg~~

Marked TAT except for those contingent tests needed for Aquatic Bioassay determination (5 day TAT or better may apply)

cc: Derek Eisman, Delema@craworld.com and Shell.Lab.Billing@craworld.com

SHELL CONTRACT RATE APPLIES

STATE REIMBURSEMENT RATE APPLIES

EDD NOT NEEDED

RECEIPT VERIFICATION REQUESTED

TPH - Purgeable (8260B)	TPH - Extractable (8015M)	BTEX (8260B)	5 Oxygenates (8260E)	MTBE (8260B)	TBA (8260B)	DIPE (8260E)	TAME (8260B)	ETBE (8260B)	1,2 DCA (8260B)	EDB (8260B) / EDC	Ethanol (8260B)	Methanol (8015M)	PAHs (8270c) / C PAHs	TCLP: As, Ba, Cd, Cr, Pb, Hg, Se, Ag (6010B or 6020)	PCBs (8082) / HUCs 8260B	TRPH (418.1)	NWTPH-6X	NTPH-DX	Total load 6020	TEMPERATURE ON RECEIPT C°
																				2.6

Field Sample Identification	SAMPLING		MATRIX	PRESERVATIVE					NO. OF CONT.
	DATE	TIME		HCL	HNO3	H2SO4	NONE	OTHER	
SO-062027-100313-MW-7-5	10/3/13	850	SO						7
SO-062027-100313-MW-7-10	10/3/13	900	SO						7
SO-062027-100313-SB-12-5	10/3/13	1020	SO						7
SO-062027-100313-SB-12-10	10/3/13	1030	SO						7
SO-062027-100313-SB-13-5	10/3/13	1100	SO						7
SO-062027-100313-SB-13-10	10/3/13	1110	SO						7
SO-062027-100313-MW-8-5	10/3/13	1155	SO						7
SO-062027-100313-MW-8-10	10/3/13	1205	SO						7

Container PID Readings or Laboratory Notes	Additional analysis may be requested, please hold pending B. Peters Notification
--	--

Relinquished by: (Signature) *Stephen Rasmussen* **CRA 10/4/13 1330**

Received by: (Signature) *[Signature]* **JRW**

Date: **10-5-13** Time: **0815**

Loc: **490**

**37096**

10/18/2013



## Login Sample Receipt Checklist

Client: Conestoga-Rovers & Associates, Inc.

Job Number: 490-37096-1

**Login Number: 37096**

**List Source: TestAmerica Nashville**

**List Number: 1**

**Creator: Huckaba, Jimmy**

Question	Answer	Comment
Radioactivity wasn't checked or is <math>\leq</math> 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 <math><6\text{mm}</math> (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

## ANALYTICAL REPORT

TestAmerica Laboratories, Inc.  
TestAmerica Nashville  
2960 Foster Creighton Drive  
Nashville, TN 37204  
Tel: (615)726-0177

TestAmerica Job ID: 490-37104-1  
Client Project/Site: 200 Railroad Ave S, Ellensburg WA

For:  
Conestoga-Rovers & Associates, Inc.  
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Lynnwood, Washington 98036

Attn: Brian Peters



Authorized for release by:  
10/18/2013 12:32:35 PM

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

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# Sample Summary

Client: Conestoga-Rovers & Associates, Inc.  
Project/Site: 200 Railroad Ave S, Ellensburg WA

TestAmerica Job ID: 490-37104-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
490-37104-1	SO-062027-093013-MW-5-2	Solid	09/30/13 14:30	10/05/13 08:15
490-37104-2	SO-062027-100113-MW-1-2	Solid	10/01/13 11:30	10/05/13 08:15
490-37104-3	SO-062027-100113-MW-8-2	Solid	10/01/13 13:30	10/05/13 08:15
490-37104-4	SO-062027-100113-SB-13-2	Solid	10/01/13 14:15	10/05/13 08:15
490-37104-5	SO-062027-100113-MW-7-2	Solid	10/01/13 16:15	10/05/13 08:15

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# Case Narrative

Client: Conestoga-Rovers & Associates, Inc.  
Project/Site: 200 Railroad Ave S, Ellensburg WA

TestAmerica Job ID: 490-37104-1

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## Job ID: 490-37104-1

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Laboratory: TestAmerica Nashville

### Narrative

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Job Narrative  
490-37104-1

#### Comments

No additional comments.

#### Receipt

The samples were received on 10/5/2013 8:15 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 3.6° C.

Except:

The container label for the following sample(s) did not match the information listed on the Chain-of-Custody (COC): SO-062027-100113-MW-8-2 (490-37104-3). One jar for MW-8-2 was received with only the sample date and time recorded on the label. The ID was not recorded on the label; however, this jar was in the ziplock bag with the other containers for this jar. The ziplock bag was labeled.

#### GC/MS VOA

Method(s) 8260B: Internal standard responses were outside of acceptance limits for the following sample(s): SO-062027-093013-MW-5-2 (490-37104-1), SO-062027-100113-MW-8-2 (490-37104-3), SO-062027-100113-SB-13-2 (490-37104-4). The sample(s) shows evidence of matrix interference.

No other analytical or quality issues were noted.

#### GC Semi VOA

Method(s) 8082: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for batch 112601 were outside control limits. 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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## Job ID: 490-37104-2

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Laboratory: TestAmerica Nashville

### Narrative

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Job Narrative  
490-37104-2

#### Comments

No additional comments.

#### Receipt

The samples were received on 10/5/2013 8:15 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 3.6° C.

Except:

The container label for the following sample(s) did not match the information listed on the Chain-of-Custody (COC): SO-062027-100113-MW-8-2 (490-37104-3). One jar for MW-8-2 was received with only the sample date and time recorded on the label.



# Case Narrative

Client: Conestoga-Rovers & Associates, Inc.  
Project/Site: 200 Railroad Ave S, Ellensburg WA

TestAmerica Job ID: 490-37104-1

## Job ID: 490-37104-2 (Continued)

### Laboratory: TestAmerica Nashville (Continued)

The ID was not recorded on the label; however, this jar was in the ziplock bag with the other containers for this jar. The ziplock bag was labeled.

#### GC/MS VOA

Method(s) 8260B: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with batch 112618. See LCS/LCSD

Method(s) 8260B: The following sample(s) was diluted due to the nature of the sample matrix: SO-062027-100113-MW-1-2 (490-37104-2). Elevated reporting limits (RLs) are provided.

Method(s) 8260B: Due to sample matrix effect on the internal standard (ISTD), a dilution was required for the following sample(s): SO-062027-100113-MW-1-2 (490-37104-2).

No other analytical or quality issues were noted.

#### GC/MS Semi VOA

No analytical or quality issues were noted.

#### GC VOA

No analytical or quality issues were noted.

#### GC Semi VOA

Method(s) NWTPH-Dx: There was insufficient contamination present for analyte C10-C24 to perform a pattern match for the following sample(s): SO-062027-100113-MW-8-2 (490-37104-3). The following sample(s) contained a hydrocarbon pattern for analyte C24-C40 that most closely resembles a Motor oil product used by the laboratory for quantitative purposes: SO-062027-100113-MW-8-2 (490-37104-3).

Method(s) NWTPH-Dx: The following sample(s) contained a hydrocarbon pattern that most closely resembles a Diesel Fuel #2 and a Motor Oil product used by the laboratory for quantitative purposes: (490-37104-1 DU), SO-062027-093013-MW-5-2 (490-37104-1).

Method(s) NWTPH-Dx: There was insufficient contamination present to perform a pattern match for the following sample(s): (490-37104-5 DU). The percent RPD failed between the source and duplicate samples due to non-homogeneity of sample matrix.

Method(s) NWTPH-Dx: The following sample(s) contained a single peak(s) contaminant which does not match a typical Total Petroleum Hydrocarbon (TPH) pattern used by the laboratory for quantitative purposes: SO-062027-100113-MW-1-2 (490-37104-2).

No other analytical or quality issues were noted.

#### Metals

Method(s) 6020: The matrix spike / matrix spike duplicate (MS/MSD) percent recoveries and %RPD for batch 490-114526 were outside control limits. This is attributed to: non-homogeneity of the sample matrix.

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: Conestoga-Rovers & Associates, Inc.  
Project/Site: 200 Railroad Ave S, Ellensburg WA

TestAmerica Job ID: 490-37104-1

### Qualifiers

#### GC/MS VOA

Qualifier	Qualifier Description
*	ISTD response or retention time outside acceptable limits
*	ISTD response or retention time outside acceptable limits
E	Result exceeded calibration range.

#### GC Semi VOA

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

#### Metals

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: Conestoga-Rovers & Associates, Inc.  
 Project/Site: 200 Railroad Ave S, Ellensburg WA

TestAmerica Job ID: 490-37104-1

**Client Sample ID: SO-062027-093013-MW-5-2**

**Lab Sample ID: 490-37104-1**

Date Collected: 09/30/13 14:30

Matrix: Solid

Date Received: 10/05/13 08:15

Percent Solids: 80.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Benzene</b>	<b>0.00509</b>		0.00124		mg/Kg	☼	10/05/13 15:29	10/07/13 17:07	1
Ethylbenzene	ND		0.00124		mg/Kg	☼	10/05/13 15:29	10/07/13 17:07	1
Xylenes, Total	ND		0.00186		mg/Kg	☼	10/05/13 15:29	10/07/13 17:07	1
<b>Toluene</b>	<b>0.00210</b>		0.00124		mg/Kg	☼	10/05/13 15:29	10/07/13 17:07	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	118	*	70 - 130				10/05/13 15:29	10/07/13 17:07	1
1,2-Dichloroethane-d4 (Surr)	94		70 - 130				10/05/13 15:29	10/07/13 17:07	1
Toluene-d8 (Surr)	113		70 - 130				10/05/13 15:29	10/07/13 17:07	1
Dibromofluoromethane (Surr)	96		70 - 130				10/05/13 15:29	10/07/13 17:07	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C12	ND		4.99		mg/Kg	☼	10/05/13 15:26	10/12/13 19:41	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	75		50 - 150				10/05/13 15:26	10/12/13 19:41	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>C10-C24</b>	<b>16.3</b>		5.00		mg/Kg	☼	10/09/13 09:22	10/10/13 02:35	1
<b>C24-C40</b>	<b>6.80</b>		5.00		mg/Kg	☼	10/09/13 09:22	10/10/13 02:35	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	69		50 - 150				10/09/13 09:22	10/10/13 02:35	1

**General Chemistry**

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Percent Solids</b>	<b>81</b>		0.10		%			10/07/13 12:50	1

# Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
 Project/Site: 200 Railroad Ave S, Ellensburg WA

TestAmerica Job ID: 490-37104-1

**Client Sample ID: SO-062027-100113-MW-1-2**

**Lab Sample ID: 490-37104-2**

**Date Collected: 10/01/13 11:30**

**Matrix: Solid**

**Date Received: 10/05/13 08:15**

**Percent Solids: 86.9**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.00110		mg/Kg	*	10/05/13 15:29	10/08/13 12:51	1
1,1,1-Trichloroethane	ND		0.00110		mg/Kg	*	10/05/13 15:29	10/08/13 12:51	1
1,1,2,2-Tetrachloroethane	ND		0.0723		mg/Kg	*	10/05/13 15:26	10/08/13 13:20	1
1,1,2-Trichloroethane	ND		0.00274		mg/Kg	*	10/05/13 15:29	10/08/13 12:51	1
1,1-Dichloroethane	ND		0.00110		mg/Kg	*	10/05/13 15:29	10/08/13 12:51	1
1,1-Dichloroethene	ND		0.00110		mg/Kg	*	10/05/13 15:29	10/08/13 12:51	1
1,1-Dichloropropene	ND		0.00110		mg/Kg	*	10/05/13 15:29	10/08/13 12:51	1
1,2,3-Trichlorobenzene	ND		0.0723		mg/Kg	*	10/05/13 15:26	10/08/13 13:20	1
1,2,3-Trichloropropane	ND		0.0723		mg/Kg	*	10/05/13 15:26	10/08/13 13:20	1
1,2,4-Trichlorobenzene	ND		0.0723		mg/Kg	*	10/05/13 15:26	10/08/13 13:20	1
1,2,4-Trimethylbenzene	ND		0.0723		mg/Kg	*	10/05/13 15:26	10/08/13 13:20	1
1,2-Dibromo-3-Chloropropane	ND		0.181		mg/Kg	*	10/05/13 15:26	10/08/13 13:20	1
1,2-Dibromoethane (EDB)	ND		0.00110		mg/Kg	*	10/05/13 15:29	10/08/13 12:51	1
1,2-Dichlorobenzene	ND		0.0723		mg/Kg	*	10/05/13 15:26	10/08/13 13:20	1
1,2-Dichloroethane	ND		0.00110		mg/Kg	*	10/05/13 15:29	10/08/13 12:51	1
1,2-Dichloropropane	ND		0.00110		mg/Kg	*	10/05/13 15:29	10/08/13 12:51	1
1,3,5-Trimethylbenzene	ND		0.0723		mg/Kg	*	10/05/13 15:26	10/08/13 13:20	1
1,3-Dichlorobenzene	ND		0.0723		mg/Kg	*	10/05/13 15:26	10/08/13 13:20	1
1,3-Dichloropropane	ND		0.00110		mg/Kg	*	10/05/13 15:29	10/08/13 12:51	1
1,4-Dichlorobenzene	ND		0.0723		mg/Kg	*	10/05/13 15:26	10/08/13 13:20	1
2,2-Dichloropropane	ND		0.00110		mg/Kg	*	10/05/13 15:29	10/08/13 12:51	1
2-Butanone (MEK)	ND		0.0274		mg/Kg	*	10/05/13 15:29	10/08/13 12:51	1
2-Chlorotoluene	ND		0.0723		mg/Kg	*	10/05/13 15:26	10/08/13 13:20	1
2-Hexanone	ND		0.0274		mg/Kg	*	10/05/13 15:29	10/08/13 12:51	1
4-Chlorotoluene	ND		0.0723		mg/Kg	*	10/05/13 15:26	10/08/13 13:20	1
4-Methyl-2-pentanone (MIBK)	ND		0.0274		mg/Kg	*	10/05/13 15:29	10/08/13 12:51	1
<b>Acetone</b>	<b>0.0454</b>		0.0274		mg/Kg	*	10/05/13 15:29	10/08/13 12:51	1
<b>Benzene</b>	<b>0.00268</b>		0.00110		mg/Kg	*	10/05/13 15:29	10/08/13 12:51	1
Bromobenzene	ND		0.0723		mg/Kg	*	10/05/13 15:26	10/08/13 13:20	1
Bromochloromethane	ND		0.00110		mg/Kg	*	10/05/13 15:29	10/08/13 12:51	1
Bromodichloromethane	ND		0.00110		mg/Kg	*	10/05/13 15:29	10/08/13 12:51	1
Bromoform	ND		0.00110		mg/Kg	*	10/05/13 15:29	10/08/13 12:51	1
Bromomethane	ND		0.00110		mg/Kg	*	10/05/13 15:29	10/08/13 12:51	1
Carbon disulfide	ND		0.00274		mg/Kg	*	10/05/13 15:29	10/08/13 12:51	1
Carbon tetrachloride	ND		0.00110		mg/Kg	*	10/05/13 15:29	10/08/13 12:51	1
Chlorobenzene	ND		0.00110		mg/Kg	*	10/05/13 15:29	10/08/13 12:51	1
Chlorodibromomethane	ND		0.00110		mg/Kg	*	10/05/13 15:29	10/08/13 12:51	1
Chloroethane	ND		0.00274		mg/Kg	*	10/05/13 15:29	10/08/13 12:51	1
Chloroform	ND		0.00110		mg/Kg	*	10/05/13 15:29	10/08/13 12:51	1
Chloromethane	ND		0.00110		mg/Kg	*	10/05/13 15:29	10/08/13 12:51	1
cis-1,2-Dichloroethene	ND		0.00110		mg/Kg	*	10/05/13 15:29	10/08/13 12:51	1
cis-1,3-Dichloropropene	ND		0.00110		mg/Kg	*	10/05/13 15:29	10/08/13 12:51	1
Dibromomethane	ND		0.00110		mg/Kg	*	10/05/13 15:29	10/08/13 12:51	1
Dichlorodifluoromethane	ND		0.00110		mg/Kg	*	10/05/13 15:29	10/08/13 12:51	1
Ethylbenzene	ND		0.00110		mg/Kg	*	10/05/13 15:29	10/08/13 12:51	1
Hexachlorobutadiene	ND		0.181		mg/Kg	*	10/05/13 15:26	10/08/13 13:20	1
Isopropylbenzene	ND		0.00110		mg/Kg	*	10/05/13 15:29	10/08/13 12:51	1
Methyl tert-butyl ether	ND		0.00110		mg/Kg	*	10/05/13 15:29	10/08/13 12:51	1
Methylene Chloride	ND		0.00548		mg/Kg	*	10/05/13 15:29	10/08/13 12:51	1

TestAmerica Nashville

# Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
 Project/Site: 200 Railroad Ave S, Ellensburg WA

TestAmerica Job ID: 490-37104-1

**Client Sample ID: SO-062027-100113-MW-1-2**

**Lab Sample ID: 490-37104-2**

Date Collected: 10/01/13 11:30

Matrix: Solid

Date Received: 10/05/13 08:15

Percent Solids: 86.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		0.181		mg/Kg	☼	10/05/13 15:26	10/08/13 13:20	1
n-Butylbenzene	ND		0.0723		mg/Kg	☼	10/05/13 15:26	10/08/13 13:20	1
N-Propylbenzene	ND		0.0723		mg/Kg	☼	10/05/13 15:26	10/08/13 13:20	1
p-Isopropyltoluene	ND		0.0723		mg/Kg	☼	10/05/13 15:26	10/08/13 13:20	1
sec-Butylbenzene	ND		0.0723		mg/Kg	☼	10/05/13 15:26	10/08/13 13:20	1
Styrene	ND		0.00110		mg/Kg	☼	10/05/13 15:29	10/08/13 12:51	1
tert-Butylbenzene	ND		0.0723		mg/Kg	☼	10/05/13 15:26	10/08/13 13:20	1
Tetrachloroethene	ND		0.00110		mg/Kg	☼	10/05/13 15:29	10/08/13 12:51	1
<b>Toluene</b>	<b>0.00130</b>		0.00110		mg/Kg	☼	10/05/13 15:29	10/08/13 12:51	1
trans-1,2-Dichloroethene	ND		0.00110		mg/Kg	☼	10/05/13 15:29	10/08/13 12:51	1
trans-1,3-Dichloropropene	ND		0.00110		mg/Kg	☼	10/05/13 15:29	10/08/13 12:51	1
Trichloroethene	ND		0.00110		mg/Kg	☼	10/05/13 15:29	10/08/13 12:51	1
Trichlorofluoromethane	ND		0.00110		mg/Kg	☼	10/05/13 15:29	10/08/13 12:51	1
Vinyl chloride	ND		0.00110		mg/Kg	☼	10/05/13 15:29	10/08/13 12:51	1
Xylenes, Total	ND		0.00165		mg/Kg	☼	10/05/13 15:29	10/08/13 12:51	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		70 - 130				10/05/13 15:29	10/08/13 12:51	1
1,2-Dichloroethane-d4 (Surr)	93		70 - 130				10/05/13 15:26	10/08/13 13:20	1
4-Bromofluorobenzene (Surr)	126 *		70 - 130				10/05/13 15:29	10/08/13 12:51	1
4-Bromofluorobenzene (Surr)	97		70 - 130				10/05/13 15:26	10/08/13 13:20	1
Dibromofluoromethane (Surr)	102		70 - 130				10/05/13 15:29	10/08/13 12:51	1
Dibromofluoromethane (Surr)	93		70 - 130				10/05/13 15:26	10/08/13 13:20	1
Toluene-d8 (Surr)	119		70 - 130				10/05/13 15:29	10/08/13 12:51	1
Toluene-d8 (Surr)	104		70 - 130				10/05/13 15:26	10/08/13 13:20	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.00381		mg/Kg	☼	10/08/13 07:50	10/08/13 22:24	1
Acenaphthylene	ND		0.00381		mg/Kg	☼	10/08/13 07:50	10/08/13 22:24	1
Anthracene	ND		0.00381		mg/Kg	☼	10/08/13 07:50	10/08/13 22:24	1
<b>Benzo[a]anthracene</b>	<b>0.0185</b>		0.00381		mg/Kg	☼	10/08/13 07:50	10/08/13 22:24	1
<b>Benzo[a]pyrene</b>	<b>0.0184</b>		0.00381		mg/Kg	☼	10/08/13 07:50	10/08/13 22:24	1
<b>Benzo[b]fluoranthene</b>	<b>0.0223</b>		0.00381		mg/Kg	☼	10/08/13 07:50	10/08/13 22:24	1
<b>Benzo[g,h,i]perylene</b>	<b>0.0133</b>		0.00381		mg/Kg	☼	10/08/13 07:50	10/08/13 22:24	1
<b>Benzo[k]fluoranthene</b>	<b>0.00738</b>		0.00381		mg/Kg	☼	10/08/13 07:50	10/08/13 22:24	1
<b>Chrysene</b>	<b>0.0183</b>		0.00381		mg/Kg	☼	10/08/13 07:50	10/08/13 22:24	1
Dibenz(a,h)anthracene	ND		0.00381		mg/Kg	☼	10/08/13 07:50	10/08/13 22:24	1
Fluorene	ND		0.00381		mg/Kg	☼	10/08/13 07:50	10/08/13 22:24	1
<b>Fluoranthene</b>	<b>0.0276</b>		0.00381		mg/Kg	☼	10/08/13 07:50	10/08/13 22:24	1
<b>Indeno[1,2,3-cd]pyrene</b>	<b>0.0107</b>		0.00381		mg/Kg	☼	10/08/13 07:50	10/08/13 22:24	1
Naphthalene	ND		0.00381		mg/Kg	☼	10/08/13 07:50	10/08/13 22:24	1
<b>Phenanthrene</b>	<b>0.00849</b>		0.00381		mg/Kg	☼	10/08/13 07:50	10/08/13 22:24	1
<b>Pyrene</b>	<b>0.0291</b>		0.00381		mg/Kg	☼	10/08/13 07:50	10/08/13 22:24	1
1-Methylnaphthalene	ND		0.00381		mg/Kg	☼	10/08/13 07:50	10/08/13 22:24	1
2-Methylnaphthalene	ND		0.00381		mg/Kg	☼	10/08/13 07:50	10/08/13 22:24	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Terphenyl-d14	68		13 - 120				10/08/13 07:50	10/08/13 22:24	1
Nitrobenzene-d5	58		27 - 120				10/08/13 07:50	10/08/13 22:24	1

TestAmerica Nashville

# Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
 Project/Site: 200 Railroad Ave S, Ellensburg WA

TestAmerica Job ID: 490-37104-1

**Client Sample ID: SO-062027-100113-MW-1-2**

**Lab Sample ID: 490-37104-2**

Date Collected: 10/01/13 11:30

Matrix: Solid

Date Received: 10/05/13 08:15

Percent Solids: 86.9

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	61		29 - 120	10/08/13 07:50	10/08/13 22:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C12	ND		3.83		mg/Kg	☼	10/05/13 15:26	10/12/13 20:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	77		50 - 150	10/05/13 15:26	10/12/13 20:14	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0374		mg/Kg	☼	10/08/13 08:11	10/12/13 11:42	1
PCB-1221	ND		0.0374		mg/Kg	☼	10/08/13 08:11	10/12/13 11:42	1
PCB-1232	ND		0.0374		mg/Kg	☼	10/08/13 08:11	10/12/13 11:42	1
PCB-1242	ND		0.0374		mg/Kg	☼	10/08/13 08:11	10/12/13 11:42	1
PCB-1248	ND		0.0374		mg/Kg	☼	10/08/13 08:11	10/12/13 11:42	1
PCB-1254	ND		0.0374		mg/Kg	☼	10/08/13 08:11	10/12/13 11:42	1
PCB-1260	ND		0.0374		mg/Kg	☼	10/08/13 08:11	10/12/13 11:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	81		19 - 147	10/08/13 08:11	10/12/13 11:42	1
DCB Decachlorobiphenyl (Surr)	65		20 - 150	10/08/13 08:11	10/12/13 11:42	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C24	ND		4.92		mg/Kg	☼	10/09/13 09:22	10/10/13 03:05	1
<b>C24-C40</b>	<b>12.5</b>		4.92		mg/Kg	☼	10/09/13 09:22	10/10/13 03:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	65		50 - 150	10/09/13 09:22	10/10/13 03:05	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Lead</b>	<b>30.5</b>		0.576		mg/Kg	☼	10/15/13 13:45	10/15/13 17:13	1

**General Chemistry**

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Percent Solids</b>	<b>87</b>		0.10		%			10/07/13 12:50	1

# Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
 Project/Site: 200 Railroad Ave S, Ellensburg WA

TestAmerica Job ID: 490-37104-1

**Client Sample ID: SO-062027-100113-MW-8-2**

**Lab Sample ID: 490-37104-3**

Date Collected: 10/01/13 13:30

Matrix: Solid

Date Received: 10/05/13 08:15

Percent Solids: 85.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00246		0.00199		mg/Kg	☼	10/05/13 15:29	10/07/13 18:05	1
Ethylbenzene	ND		0.00199		mg/Kg	☼	10/05/13 15:29	10/07/13 18:05	1
Xylenes, Total	ND		0.00298		mg/Kg	☼	10/05/13 15:29	10/07/13 18:05	1
Toluene	ND		0.00199		mg/Kg	☼	10/05/13 15:29	10/07/13 18:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	127	*	70 - 130	10/05/13 15:29	10/07/13 18:05	1
1,2-Dichloroethane-d4 (Surr)	96		70 - 130	10/05/13 15:29	10/07/13 18:05	1
Toluene-d8 (Surr)	114		70 - 130	10/05/13 15:29	10/07/13 18:05	1
Dibromofluoromethane (Surr)	96		70 - 130	10/05/13 15:29	10/07/13 18:05	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C12	ND		4.56		mg/Kg	☼	10/05/13 15:26	10/12/13 20:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	76		50 - 150	10/05/13 15:26	10/12/13 20:47	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C24	6.84		4.97		mg/Kg	☼	10/09/13 09:22	10/10/13 03:20	1
C24-C40	10.7		4.97		mg/Kg	☼	10/09/13 09:22	10/10/13 03:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	65		50 - 150	10/09/13 09:22	10/10/13 03:20	1

**General Chemistry**

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	85		0.10		%			10/07/13 12:50	1

# Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
 Project/Site: 200 Railroad Ave S, Ellensburg WA

TestAmerica Job ID: 490-37104-1

**Client Sample ID: SO-062027-100113-SB-13-2**

**Lab Sample ID: 490-37104-4**

Date Collected: 10/01/13 14:15

Matrix: Solid

Date Received: 10/05/13 08:15

Percent Solids: 82.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00506		0.00207		mg/Kg	☼	10/05/13 15:29	10/07/13 18:34	1
Ethylbenzene	ND		0.00207		mg/Kg	☼	10/05/13 15:29	10/07/13 18:34	1
Xylenes, Total	ND		0.00311		mg/Kg	☼	10/05/13 15:29	10/07/13 18:34	1
Toluene	ND		0.00207		mg/Kg	☼	10/05/13 15:29	10/07/13 18:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	124	*	70 - 130	10/05/13 15:29	10/07/13 18:34	1
1,2-Dichloroethane-d4 (Surr)	97		70 - 130	10/05/13 15:29	10/07/13 18:34	1
Toluene-d8 (Surr)	109		70 - 130	10/05/13 15:29	10/07/13 18:34	1
Dibromofluoromethane (Surr)	97		70 - 130	10/05/13 15:29	10/07/13 18:34	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C12	ND		5.76		mg/Kg	☼	10/05/13 15:26	10/12/13 21:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	77		50 - 150	10/05/13 15:26	10/12/13 21:20	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C24	ND		4.95		mg/Kg	☼	10/09/13 09:22	10/10/13 03:35	1
C24-C40	ND		4.95		mg/Kg	☼	10/09/13 09:22	10/10/13 03:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	59		50 - 150	10/09/13 09:22	10/10/13 03:35	1

**General Chemistry**

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	82		0.10		%			10/07/13 12:50	1

# Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
 Project/Site: 200 Railroad Ave S, Ellensburg WA

TestAmerica Job ID: 490-37104-1

**Client Sample ID: SO-062027-100113-MW-7-2**

**Lab Sample ID: 490-37104-5**

**Date Collected: 10/01/13 16:15**

**Matrix: Solid**

**Date Received: 10/05/13 08:15**

**Percent Solids: 84.8**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.00146		mg/Kg	☼	10/05/13 15:29	10/08/13 13:48	1
1,1,1-Trichloroethane	ND		0.00146		mg/Kg	☼	10/05/13 15:29	10/08/13 13:48	1
1,1,2,2-Tetrachloroethane	ND		0.00146		mg/Kg	☼	10/05/13 15:29	10/08/13 13:48	1
1,1,2-Trichloroethane	ND		0.00365		mg/Kg	☼	10/05/13 15:29	10/08/13 13:48	1
1,1-Dichloroethane	ND		0.00146		mg/Kg	☼	10/05/13 15:29	10/08/13 13:48	1
1,1-Dichloroethene	ND		0.00146		mg/Kg	☼	10/05/13 15:29	10/08/13 13:48	1
1,1-Dichloropropene	ND		0.00146		mg/Kg	☼	10/05/13 15:29	10/08/13 13:48	1
1,2,3-Trichlorobenzene	ND		0.00146		mg/Kg	☼	10/05/13 15:29	10/08/13 13:48	1
1,2,3-Trichloropropane	ND		0.00146		mg/Kg	☼	10/05/13 15:29	10/08/13 13:48	1
1,2,4-Trichlorobenzene	ND		0.00146		mg/Kg	☼	10/05/13 15:29	10/08/13 13:48	1
1,2,4-Trimethylbenzene	ND		0.00146		mg/Kg	☼	10/05/13 15:29	10/08/13 13:48	1
1,2-Dibromo-3-Chloropropane	ND		0.00365		mg/Kg	☼	10/05/13 15:29	10/08/13 13:48	1
1,2-Dibromoethane (EDB)	ND		0.00146		mg/Kg	☼	10/05/13 15:29	10/08/13 13:48	1
1,2-Dichlorobenzene	ND		0.00146		mg/Kg	☼	10/05/13 15:29	10/08/13 13:48	1
1,2-Dichloroethane	ND		0.00146		mg/Kg	☼	10/05/13 15:29	10/08/13 13:48	1
1,2-Dichloropropane	ND		0.00146		mg/Kg	☼	10/05/13 15:29	10/08/13 13:48	1
1,3,5-Trimethylbenzene	ND		0.00146		mg/Kg	☼	10/05/13 15:29	10/08/13 13:48	1
1,3-Dichlorobenzene	ND		0.00146		mg/Kg	☼	10/05/13 15:29	10/08/13 13:48	1
1,3-Dichloropropane	ND		0.00146		mg/Kg	☼	10/05/13 15:29	10/08/13 13:48	1
1,4-Dichlorobenzene	ND		0.00146		mg/Kg	☼	10/05/13 15:29	10/08/13 13:48	1
2,2-Dichloropropane	ND		0.00146		mg/Kg	☼	10/05/13 15:29	10/08/13 13:48	1
2-Butanone (MEK)	ND		0.0365		mg/Kg	☼	10/05/13 15:29	10/08/13 13:48	1
2-Chlorotoluene	ND		0.00146		mg/Kg	☼	10/05/13 15:29	10/08/13 13:48	1
2-Hexanone	ND		0.0365		mg/Kg	☼	10/05/13 15:29	10/08/13 13:48	1
4-Chlorotoluene	ND		0.00146		mg/Kg	☼	10/05/13 15:29	10/08/13 13:48	1
4-Methyl-2-pentanone (MIBK)	ND		0.0365		mg/Kg	☼	10/05/13 15:29	10/08/13 13:48	1
Acetone	ND		0.0365		mg/Kg	☼	10/05/13 15:29	10/08/13 13:48	1
<b>Benzene</b>	<b>0.00177</b>		0.00146		mg/Kg	☼	10/05/13 15:29	10/08/13 13:48	1
Bromobenzene	ND		0.00146		mg/Kg	☼	10/05/13 15:29	10/08/13 13:48	1
Bromochloromethane	ND		0.00146		mg/Kg	☼	10/05/13 15:29	10/08/13 13:48	1
Bromodichloromethane	ND		0.00146		mg/Kg	☼	10/05/13 15:29	10/08/13 13:48	1
Bromoform	ND		0.00146		mg/Kg	☼	10/05/13 15:29	10/08/13 13:48	1
Bromomethane	ND		0.00146		mg/Kg	☼	10/05/13 15:29	10/08/13 13:48	1
Carbon disulfide	ND		0.00365		mg/Kg	☼	10/05/13 15:29	10/08/13 13:48	1
Carbon tetrachloride	ND		0.00146		mg/Kg	☼	10/05/13 15:29	10/08/13 13:48	1
Chlorobenzene	ND		0.00146		mg/Kg	☼	10/05/13 15:29	10/08/13 13:48	1
Chlorodibromomethane	ND		0.00146		mg/Kg	☼	10/05/13 15:29	10/08/13 13:48	1
Chloroethane	ND		0.00365		mg/Kg	☼	10/05/13 15:29	10/08/13 13:48	1
Chloroform	ND		0.00146		mg/Kg	☼	10/05/13 15:29	10/08/13 13:48	1
Chloromethane	ND		0.00146		mg/Kg	☼	10/05/13 15:29	10/08/13 13:48	1
cis-1,2-Dichloroethene	ND		0.00146		mg/Kg	☼	10/05/13 15:29	10/08/13 13:48	1
cis-1,3-Dichloropropene	ND		0.00146		mg/Kg	☼	10/05/13 15:29	10/08/13 13:48	1
Dibromomethane	ND		0.00146		mg/Kg	☼	10/05/13 15:29	10/08/13 13:48	1
Dichlorodifluoromethane	ND		0.00146		mg/Kg	☼	10/05/13 15:29	10/08/13 13:48	1
Ethylbenzene	ND		0.00146		mg/Kg	☼	10/05/13 15:29	10/08/13 13:48	1
Hexachlorobutadiene	ND		0.00365		mg/Kg	☼	10/05/13 15:29	10/08/13 13:48	1
Isopropylbenzene	ND		0.00146		mg/Kg	☼	10/05/13 15:29	10/08/13 13:48	1
Methyl tert-butyl ether	ND		0.00146		mg/Kg	☼	10/05/13 15:29	10/08/13 13:48	1
Methylene Chloride	ND		0.00730		mg/Kg	☼	10/05/13 15:29	10/08/13 13:48	1

TestAmerica Nashville

# Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
 Project/Site: 200 Railroad Ave S, Ellensburg WA

TestAmerica Job ID: 490-37104-1

**Client Sample ID: SO-062027-100113-MW-7-2**

**Lab Sample ID: 490-37104-5**

**Date Collected: 10/01/13 16:15**

**Matrix: Solid**

**Date Received: 10/05/13 08:15**

**Percent Solids: 84.8**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		0.00365		mg/Kg	☼	10/05/13 15:29	10/08/13 13:48	1
n-Butylbenzene	ND		0.00146		mg/Kg	☼	10/05/13 15:29	10/08/13 13:48	1
N-Propylbenzene	ND		0.00146		mg/Kg	☼	10/05/13 15:29	10/08/13 13:48	1
p-Isopropyltoluene	ND		0.00146		mg/Kg	☼	10/05/13 15:29	10/08/13 13:48	1
sec-Butylbenzene	ND		0.00146		mg/Kg	☼	10/05/13 15:29	10/08/13 13:48	1
Styrene	ND		0.00146		mg/Kg	☼	10/05/13 15:29	10/08/13 13:48	1
tert-Butylbenzene	ND		0.00146		mg/Kg	☼	10/05/13 15:29	10/08/13 13:48	1
Tetrachloroethene	ND		0.00146		mg/Kg	☼	10/05/13 15:29	10/08/13 13:48	1
Toluene	ND		0.00146		mg/Kg	☼	10/05/13 15:29	10/08/13 13:48	1
trans-1,2-Dichloroethene	ND		0.00146		mg/Kg	☼	10/05/13 15:29	10/08/13 13:48	1
trans-1,3-Dichloropropene	ND		0.00146		mg/Kg	☼	10/05/13 15:29	10/08/13 13:48	1
Trichloroethene	ND		0.00146		mg/Kg	☼	10/05/13 15:29	10/08/13 13:48	1
Trichlorofluoromethane	ND		0.00146		mg/Kg	☼	10/05/13 15:29	10/08/13 13:48	1
Vinyl chloride	ND		0.00146		mg/Kg	☼	10/05/13 15:29	10/08/13 13:48	1
Xylenes, Total	ND		0.00219		mg/Kg	☼	10/05/13 15:29	10/08/13 13:48	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		70 - 130				10/05/13 15:29	10/08/13 13:48	1
4-Bromofluorobenzene (Surr)	114		70 - 130				10/05/13 15:29	10/08/13 13:48	1
Dibromofluoromethane (Surr)	100		70 - 130				10/05/13 15:29	10/08/13 13:48	1
Toluene-d8 (Surr)	105		70 - 130				10/05/13 15:29	10/08/13 13:48	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.00383		mg/Kg	☼	10/08/13 07:50	10/08/13 22:49	1
Acenaphthylene	ND		0.00383		mg/Kg	☼	10/08/13 07:50	10/08/13 22:49	1
Anthracene	ND		0.00383		mg/Kg	☼	10/08/13 07:50	10/08/13 22:49	1
Benzo[a]anthracene	ND		0.00383		mg/Kg	☼	10/08/13 07:50	10/08/13 22:49	1
<b>Benzo[a]pyrene</b>	<b>0.00396</b>		0.00383		mg/Kg	☼	10/08/13 07:50	10/08/13 22:49	1
<b>Benzo[b]fluoranthene</b>	<b>0.00485</b>		0.00383		mg/Kg	☼	10/08/13 07:50	10/08/13 22:49	1
<b>Benzo[g,h,i]perylene</b>	<b>0.00396</b>		0.00383		mg/Kg	☼	10/08/13 07:50	10/08/13 22:49	1
Benzo[k]fluoranthene	ND		0.00383		mg/Kg	☼	10/08/13 07:50	10/08/13 22:49	1
Chrysene	ND		0.00383		mg/Kg	☼	10/08/13 07:50	10/08/13 22:49	1
Dibenz(a,h)anthracene	ND		0.00383		mg/Kg	☼	10/08/13 07:50	10/08/13 22:49	1
Fluorene	ND		0.00383		mg/Kg	☼	10/08/13 07:50	10/08/13 22:49	1
<b>Fluoranthene</b>	<b>0.00707</b>		0.00383		mg/Kg	☼	10/08/13 07:50	10/08/13 22:49	1
Indeno[1,2,3-cd]pyrene	ND		0.00383		mg/Kg	☼	10/08/13 07:50	10/08/13 22:49	1
Naphthalene	ND		0.00383		mg/Kg	☼	10/08/13 07:50	10/08/13 22:49	1
<b>Phenanthrene</b>	<b>0.00436</b>		0.00383		mg/Kg	☼	10/08/13 07:50	10/08/13 22:49	1
<b>Pyrene</b>	<b>0.00710</b>		0.00383		mg/Kg	☼	10/08/13 07:50	10/08/13 22:49	1
1-Methylnaphthalene	ND		0.00383		mg/Kg	☼	10/08/13 07:50	10/08/13 22:49	1
2-Methylnaphthalene	ND		0.00383		mg/Kg	☼	10/08/13 07:50	10/08/13 22:49	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Terphenyl-d14	65		13 - 120				10/08/13 07:50	10/08/13 22:49	1
Nitrobenzene-d5	47		27 - 120				10/08/13 07:50	10/08/13 22:49	1
2-Fluorobiphenyl (Surr)	51		29 - 120				10/08/13 07:50	10/08/13 22:49	1

TestAmerica Nashville



# Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
 Project/Site: 200 Railroad Ave S, Ellensburg WA

TestAmerica Job ID: 490-37104-1

**Client Sample ID: SO-062027-100113-MW-7-2**

**Lab Sample ID: 490-37104-5**

**Date Collected: 10/01/13 16:15**

**Matrix: Solid**

**Date Received: 10/05/13 08:15**

**Percent Solids: 84.8**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C12	ND		4.75		mg/Kg	☼	10/05/13 15:26	10/12/13 21:53	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</i>	76		50 - 150				10/05/13 15:26	10/12/13 21:53	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0384		mg/Kg	☼	10/08/13 08:11	10/12/13 10:16	1
PCB-1221	ND		0.0384		mg/Kg	☼	10/08/13 08:11	10/12/13 10:16	1
PCB-1232	ND		0.0384		mg/Kg	☼	10/08/13 08:11	10/12/13 10:16	1
PCB-1242	ND		0.0384		mg/Kg	☼	10/08/13 08:11	10/12/13 10:16	1
PCB-1248	ND		0.0384		mg/Kg	☼	10/08/13 08:11	10/12/13 10:16	1
PCB-1254	ND		0.0384		mg/Kg	☼	10/08/13 08:11	10/12/13 10:16	1
PCB-1260	ND		0.0384		mg/Kg	☼	10/08/13 08:11	10/12/13 10:16	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
<i>Tetrachloro-m-xylene</i>	95		19 - 147				10/08/13 08:11	10/12/13 10:16	1
<i>DCB Decachlorobiphenyl (Surr)</i>	66		20 - 150				10/08/13 08:11	10/12/13 10:16	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C24	ND		5.00		mg/Kg	☼	10/09/13 09:22	10/10/13 03:51	1
C24-C40	ND		5.00		mg/Kg	☼	10/09/13 09:22	10/10/13 03:51	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
<i>o-Terphenyl</i>	57		50 - 150				10/09/13 09:22	10/10/13 03:51	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Lead</b>	<b>9.29</b>		0.591		mg/Kg	☼	10/15/13 13:45	10/15/13 17:18	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Percent Solids</b>	<b>85</b>		0.10		%			10/07/13 12:50	1

# QC Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
 Project/Site: 200 Railroad Ave S, Ellensburg WA

TestAmerica Job ID: 490-37104-1

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

**Lab Sample ID: 490-37071-A-2-I MS**

**Matrix: Solid**

**Analysis Batch: 112382**

**Client Sample ID: Matrix Spike**

**Prep Type: Total/NA**

**Prep Batch: 112261**

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec.	Limits
	Result	Qualifier	Added	Result	Qualifier					
Benzene	ND		0.0516	0.04952		mg/Kg	☼	94		31 - 143
Ethylbenzene	ND		0.0516	0.05230		mg/Kg	☼	101		23 - 161
Xylenes, Total	ND		0.103	0.09970		mg/Kg	☼	97		25 - 162
Toluene	ND		0.0516	0.05286		mg/Kg	☼	100		30 - 155

Surrogate	MS	MS	Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	112		70 - 130
1,2-Dichloroethane-d4 (Surr)	94		70 - 130
Toluene-d8 (Surr)	109		70 - 130
Dibromofluoromethane (Surr)	96		70 - 130

**Lab Sample ID: 490-37071-A-2-K MSD**

**Matrix: Solid**

**Analysis Batch: 112382**

**Client Sample ID: Matrix Spike Duplicate**

**Prep Type: Total/NA**

**Prep Batch: 112261**

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	Limits	RPD	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier								
Benzene	ND		0.0505	0.04928		mg/Kg	☼	95		31 - 143	0		50
Ethylbenzene	ND		0.0505	0.04981		mg/Kg	☼	99		23 - 161	5		50
Xylenes, Total	ND		0.101	0.09626		mg/Kg	☼	95		25 - 162	4		50
Toluene	ND		0.0505	0.05146		mg/Kg	☼	99		30 - 155	3		50

Surrogate	MSD	MSD	Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	113		70 - 130
1,2-Dichloroethane-d4 (Surr)	94		70 - 130
Toluene-d8 (Surr)	108		70 - 130
Dibromofluoromethane (Surr)	96		70 - 130

**Lab Sample ID: MB 490-112382/7**

**Matrix: Solid**

**Analysis Batch: 112382**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Benzene	ND		0.00200		mg/Kg			10/07/13 12:14	1
Ethylbenzene	ND		0.00200		mg/Kg			10/07/13 12:14	1
Xylenes, Total	ND		0.00300		mg/Kg			10/07/13 12:14	1
Toluene	ND		0.00200		mg/Kg			10/07/13 12:14	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
4-Bromofluorobenzene (Surr)	104		70 - 130		10/07/13 12:14	1
1,2-Dichloroethane-d4 (Surr)	92		70 - 130		10/07/13 12:14	1
Toluene-d8 (Surr)	104		70 - 130		10/07/13 12:14	1
Dibromofluoromethane (Surr)	92		70 - 130		10/07/13 12:14	1

TestAmerica Nashville

# QC Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
 Project/Site: 200 Railroad Ave S, Ellensburg WA

TestAmerica Job ID: 490-37104-1

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

**Lab Sample ID: LCS 490-112382/3**

**Matrix: Solid**

**Analysis Batch: 112382**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.0500	0.04276		mg/Kg		86	75 - 127
Ethylbenzene	0.0500	0.04838		mg/Kg		97	80 - 134
Xylenes, Total	0.100	0.09616		mg/Kg		96	80 - 137
Toluene	0.0500	0.04469		mg/Kg		89	80 - 132

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	101		70 - 130
1,2-Dichloroethane-d4 (Surr)	93		70 - 130
Toluene-d8 (Surr)	104		70 - 130
Dibromofluoromethane (Surr)	94		70 - 130

**Lab Sample ID: LCSD 490-112382/4**

**Matrix: Solid**

**Analysis Batch: 112382**

**Client Sample ID: Lab Control Sample Dup**

**Prep Type: Total/NA**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	0.0500	0.04258		mg/Kg		85	75 - 127	0	50
Ethylbenzene	0.0500	0.04859		mg/Kg		97	80 - 134	0	50
Xylenes, Total	0.100	0.09735		mg/Kg		97	80 - 137	1	50
Toluene	0.0500	0.04539		mg/Kg		91	80 - 132	2	50

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	102		70 - 130
1,2-Dichloroethane-d4 (Surr)	92		70 - 130
Toluene-d8 (Surr)	104		70 - 130
Dibromofluoromethane (Surr)	94		70 - 130

**Lab Sample ID: MB 490-112618/6**

**Matrix: Solid**

**Analysis Batch: 112618**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.100		mg/Kg			10/08/13 11:53	1
1,1,1-Trichloroethane	ND		0.100		mg/Kg			10/08/13 11:53	1
1,1,2,2-Tetrachloroethane	ND		0.100		mg/Kg			10/08/13 11:53	1
1,1,2-Trichloroethane	ND		0.250		mg/Kg			10/08/13 11:53	1
1,1-Dichloroethane	ND		0.100		mg/Kg			10/08/13 11:53	1
1,1-Dichloroethene	ND		0.100		mg/Kg			10/08/13 11:53	1
1,1-Dichloropropene	ND		0.100		mg/Kg			10/08/13 11:53	1
1,2,3-Trichlorobenzene	ND		0.100		mg/Kg			10/08/13 11:53	1
1,2,3-Trichloropropane	ND		0.100		mg/Kg			10/08/13 11:53	1
1,2,4-Trichlorobenzene	ND		0.100		mg/Kg			10/08/13 11:53	1
1,2,4-Trimethylbenzene	ND		0.100		mg/Kg			10/08/13 11:53	1
1,2-Dibromo-3-Chloropropane	ND		0.250		mg/Kg			10/08/13 11:53	1
1,2-Dibromoethane (EDB)	ND		0.100		mg/Kg			10/08/13 11:53	1
1,2-Dichlorobenzene	ND		0.100		mg/Kg			10/08/13 11:53	1
1,2-Dichloroethane	ND		0.100		mg/Kg			10/08/13 11:53	1

TestAmerica Nashville

# QC Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
 Project/Site: 200 Railroad Ave S, Ellensburg WA

TestAmerica Job ID: 490-37104-1

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

**Lab Sample ID: MB 490-112618/6**

**Matrix: Solid**

**Analysis Batch: 112618**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,2-Dichloropropane	ND		0.100		mg/Kg			10/08/13 11:53	1
1,3,5-Trimethylbenzene	ND		0.100		mg/Kg			10/08/13 11:53	1
1,3-Dichlorobenzene	ND		0.100		mg/Kg			10/08/13 11:53	1
1,3-Dichloropropane	ND		0.100		mg/Kg			10/08/13 11:53	1
1,4-Dichlorobenzene	ND		0.100		mg/Kg			10/08/13 11:53	1
2,2-Dichloropropane	ND		0.100		mg/Kg			10/08/13 11:53	1
2-Butanone (MEK)	ND		2.50		mg/Kg			10/08/13 11:53	1
2-Chlorotoluene	ND		0.100		mg/Kg			10/08/13 11:53	1
2-Hexanone	ND		2.50		mg/Kg			10/08/13 11:53	1
4-Chlorotoluene	ND		0.100		mg/Kg			10/08/13 11:53	1
4-Methyl-2-pentanone (MIBK)	ND		2.50		mg/Kg			10/08/13 11:53	1
Acetone	ND		2.50		mg/Kg			10/08/13 11:53	1
Benzene	ND		0.100		mg/Kg			10/08/13 11:53	1
Bromobenzene	ND		0.100		mg/Kg			10/08/13 11:53	1
Bromochloromethane	ND		0.100		mg/Kg			10/08/13 11:53	1
Bromodichloromethane	ND		0.100		mg/Kg			10/08/13 11:53	1
Bromoform	ND		0.100		mg/Kg			10/08/13 11:53	1
Bromomethane	ND		0.100		mg/Kg			10/08/13 11:53	1
Carbon disulfide	ND		0.250		mg/Kg			10/08/13 11:53	1
Carbon tetrachloride	ND		0.100		mg/Kg			10/08/13 11:53	1
Chlorobenzene	ND		0.100		mg/Kg			10/08/13 11:53	1
Chlorodibromomethane	ND		0.100		mg/Kg			10/08/13 11:53	1
Chloroethane	ND		0.250		mg/Kg			10/08/13 11:53	1
Chloroform	ND		0.100		mg/Kg			10/08/13 11:53	1
Chloromethane	ND		0.100		mg/Kg			10/08/13 11:53	1
cis-1,2-Dichloroethene	ND		0.100		mg/Kg			10/08/13 11:53	1
cis-1,3-Dichloropropene	ND		0.100		mg/Kg			10/08/13 11:53	1
Dibromomethane	ND		0.100		mg/Kg			10/08/13 11:53	1
Dichlorodifluoromethane	ND		0.100		mg/Kg			10/08/13 11:53	1
Ethylbenzene	ND		0.100		mg/Kg			10/08/13 11:53	1
Hexachlorobutadiene	ND		0.250		mg/Kg			10/08/13 11:53	1
Isopropylbenzene	ND		0.100		mg/Kg			10/08/13 11:53	1
Methyl tert-butyl ether	ND		0.100		mg/Kg			10/08/13 11:53	1
Methylene Chloride	ND		0.500		mg/Kg			10/08/13 11:53	1
Naphthalene	ND		0.250		mg/Kg			10/08/13 11:53	1
n-Butylbenzene	ND		0.100		mg/Kg			10/08/13 11:53	1
N-Propylbenzene	ND		0.100		mg/Kg			10/08/13 11:53	1
p-Isopropyltoluene	ND		0.100		mg/Kg			10/08/13 11:53	1
sec-Butylbenzene	ND		0.100		mg/Kg			10/08/13 11:53	1
Styrene	ND		0.100		mg/Kg			10/08/13 11:53	1
tert-Butylbenzene	ND		0.100		mg/Kg			10/08/13 11:53	1
Tetrachloroethene	ND		0.100		mg/Kg			10/08/13 11:53	1
Toluene	ND		0.100		mg/Kg			10/08/13 11:53	1
trans-1,2-Dichloroethene	ND		0.100		mg/Kg			10/08/13 11:53	1
trans-1,3-Dichloropropene	ND		0.100		mg/Kg			10/08/13 11:53	1
Trichloroethene	ND		0.100		mg/Kg			10/08/13 11:53	1
Trichlorofluoromethane	ND		0.100		mg/Kg			10/08/13 11:53	1
Vinyl chloride	ND		0.100		mg/Kg			10/08/13 11:53	1

TestAmerica Nashville

# QC Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
 Project/Site: 200 Railroad Ave S, Ellensburg WA

TestAmerica Job ID: 490-37104-1

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

**Lab Sample ID: MB 490-112618/6**

**Matrix: Solid**

**Analysis Batch: 112618**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	ND		0.150		mg/Kg			10/08/13 11:53	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
1,2-Dichloroethane-d4 (Surr)	97		70 - 130					10/08/13 11:53	1
4-Bromofluorobenzene (Surr)	101		70 - 130					10/08/13 11:53	1
Dibromofluoromethane (Surr)	98		70 - 130					10/08/13 11:53	1
Toluene-d8 (Surr)	105		70 - 130					10/08/13 11:53	1

**Lab Sample ID: MB 490-112618/7**

**Matrix: Solid**

**Analysis Batch: 112618**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.00200		mg/Kg			10/08/13 12:22	1
1,1,1-Trichloroethane	ND		0.00200		mg/Kg			10/08/13 12:22	1
1,1,2,2-Tetrachloroethane	ND		0.00200		mg/Kg			10/08/13 12:22	1
1,1,2-Trichloroethane	ND		0.00500		mg/Kg			10/08/13 12:22	1
1,1-Dichloroethane	ND		0.00200		mg/Kg			10/08/13 12:22	1
1,1-Dichloroethene	ND		0.00200		mg/Kg			10/08/13 12:22	1
1,1-Dichloropropene	ND		0.00200		mg/Kg			10/08/13 12:22	1
1,2,3-Trichlorobenzene	ND		0.00200		mg/Kg			10/08/13 12:22	1
1,2,3-Trichloropropane	ND		0.00200		mg/Kg			10/08/13 12:22	1
1,2,4-Trichlorobenzene	ND		0.00200		mg/Kg			10/08/13 12:22	1
1,2,4-Trimethylbenzene	ND		0.00200		mg/Kg			10/08/13 12:22	1
1,2-Dibromo-3-Chloropropane	ND		0.00500		mg/Kg			10/08/13 12:22	1
1,2-Dibromoethane (EDB)	ND		0.00200		mg/Kg			10/08/13 12:22	1
1,2-Dichlorobenzene	ND		0.00200		mg/Kg			10/08/13 12:22	1
1,2-Dichloroethane	ND		0.00200		mg/Kg			10/08/13 12:22	1
1,2-Dichloropropane	ND		0.00200		mg/Kg			10/08/13 12:22	1
1,3,5-Trimethylbenzene	ND		0.00200		mg/Kg			10/08/13 12:22	1
1,3-Dichlorobenzene	ND		0.00200		mg/Kg			10/08/13 12:22	1
1,3-Dichloropropane	ND		0.00200		mg/Kg			10/08/13 12:22	1
1,4-Dichlorobenzene	ND		0.00200		mg/Kg			10/08/13 12:22	1
2,2-Dichloropropane	ND		0.00200		mg/Kg			10/08/13 12:22	1
2-Butanone (MEK)	ND		0.0500		mg/Kg			10/08/13 12:22	1
2-Chlorotoluene	ND		0.00200		mg/Kg			10/08/13 12:22	1
2-Hexanone	ND		0.0500		mg/Kg			10/08/13 12:22	1
4-Chlorotoluene	ND		0.00200		mg/Kg			10/08/13 12:22	1
4-Methyl-2-pentanone (MIBK)	ND		0.0500		mg/Kg			10/08/13 12:22	1
Acetone	ND		0.0500		mg/Kg			10/08/13 12:22	1
Benzene	ND		0.00200		mg/Kg			10/08/13 12:22	1
Bromobenzene	ND		0.00200		mg/Kg			10/08/13 12:22	1
Bromochloromethane	ND		0.00200		mg/Kg			10/08/13 12:22	1
Bromodichloromethane	ND		0.00200		mg/Kg			10/08/13 12:22	1
Bromoform	ND		0.00200		mg/Kg			10/08/13 12:22	1
Bromomethane	ND		0.00200		mg/Kg			10/08/13 12:22	1
Carbon disulfide	ND		0.00500		mg/Kg			10/08/13 12:22	1
Carbon tetrachloride	ND		0.00200		mg/Kg			10/08/13 12:22	1

TestAmerica Nashville

# QC Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
 Project/Site: 200 Railroad Ave S, Ellensburg WA

TestAmerica Job ID: 490-37104-1

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

**Lab Sample ID: MB 490-112618/7**

**Matrix: Solid**

**Analysis Batch: 112618**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Chlorobenzene	ND		0.00200		mg/Kg			10/08/13 12:22	1
Chlorodibromomethane	ND		0.00200		mg/Kg			10/08/13 12:22	1
Chloroethane	ND		0.00500		mg/Kg			10/08/13 12:22	1
Chloroform	ND		0.00200		mg/Kg			10/08/13 12:22	1
Chloromethane	ND		0.00200		mg/Kg			10/08/13 12:22	1
cis-1,2-Dichloroethene	ND		0.00200		mg/Kg			10/08/13 12:22	1
cis-1,3-Dichloropropene	ND		0.00200		mg/Kg			10/08/13 12:22	1
Dibromomethane	ND		0.00200		mg/Kg			10/08/13 12:22	1
Dichlorodifluoromethane	ND		0.00200		mg/Kg			10/08/13 12:22	1
Ethylbenzene	ND		0.00200		mg/Kg			10/08/13 12:22	1
Hexachlorobutadiene	ND		0.00500		mg/Kg			10/08/13 12:22	1
Isopropylbenzene	ND		0.00200		mg/Kg			10/08/13 12:22	1
Methyl tert-butyl ether	ND		0.00200		mg/Kg			10/08/13 12:22	1
Methylene Chloride	ND		0.0100		mg/Kg			10/08/13 12:22	1
Naphthalene	ND		0.00500		mg/Kg			10/08/13 12:22	1
n-Butylbenzene	ND		0.00200		mg/Kg			10/08/13 12:22	1
N-Propylbenzene	ND		0.00200		mg/Kg			10/08/13 12:22	1
p-Isopropyltoluene	ND		0.00200		mg/Kg			10/08/13 12:22	1
sec-Butylbenzene	ND		0.00200		mg/Kg			10/08/13 12:22	1
Styrene	ND		0.00200		mg/Kg			10/08/13 12:22	1
tert-Butylbenzene	ND		0.00200		mg/Kg			10/08/13 12:22	1
Tetrachloroethene	ND		0.00200		mg/Kg			10/08/13 12:22	1
Toluene	ND		0.00200		mg/Kg			10/08/13 12:22	1
trans-1,2-Dichloroethene	ND		0.00200		mg/Kg			10/08/13 12:22	1
trans-1,3-Dichloropropene	ND		0.00200		mg/Kg			10/08/13 12:22	1
Trichloroethene	ND		0.00200		mg/Kg			10/08/13 12:22	1
Trichlorofluoromethane	ND		0.00200		mg/Kg			10/08/13 12:22	1
Vinyl chloride	ND		0.00200		mg/Kg			10/08/13 12:22	1
Xylenes, Total	ND		0.00300		mg/Kg			10/08/13 12:22	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1,2-Dichloroethane-d4 (Surr)	97		70 - 130		10/08/13 12:22	1
4-Bromofluorobenzene (Surr)	102		70 - 130		10/08/13 12:22	1
Dibromofluoromethane (Surr)	99		70 - 130		10/08/13 12:22	1
Toluene-d8 (Surr)	105		70 - 130		10/08/13 12:22	1

**Lab Sample ID: LCS 490-112618/3**

**Matrix: Solid**

**Analysis Batch: 112618**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec. Limits
		Result	Qualifier				
1,1,1,2-Tetrachloroethane	0.0500	0.04622		mg/Kg		92	80 - 136
1,1,1-Trichloroethane	0.0500	0.04529		mg/Kg		91	72 - 140
1,1,2,2-Tetrachloroethane	0.0500	0.04250		mg/Kg		85	66 - 134
1,1,2-Trichloroethane	0.0500	0.04562		mg/Kg		91	78 - 128
1,1-Dichloroethane	0.0500	0.04659		mg/Kg		93	75 - 124
1,1-Dichloroethene	0.0500	0.04545		mg/Kg		91	75 - 131
1,1-Dichloropropene	0.0500	0.04664		mg/Kg		93	79 - 127

TestAmerica Nashville

# QC Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
 Project/Site: 200 Railroad Ave S, Ellensburg WA

TestAmerica Job ID: 490-37104-1

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

**Lab Sample ID: LCS 490-112618/3**

**Matrix: Solid**

**Analysis Batch: 112618**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2,3-Trichlorobenzene	0.0500	0.05066		mg/Kg		101	70 - 150
1,2,3-Trichloropropane	0.0500	0.04543		mg/Kg		91	65 - 139
1,2,4-Trichlorobenzene	0.0500	0.05322		mg/Kg		106	62 - 150
1,2,4-Trimethylbenzene	0.0500	0.05184		mg/Kg		104	77 - 139
1,2-Dibromo-3-Chloropropane	0.0500	0.04364		mg/Kg		87	49 - 142
1,2-Dibromoethane (EDB)	0.0500	0.04605		mg/Kg		92	80 - 135
1,2-Dichlorobenzene	0.0500	0.04809		mg/Kg		96	80 - 134
1,2-Dichloroethane	0.0500	0.04262		mg/Kg		85	65 - 134
1,2-Dichloropropane	0.0500	0.04692		mg/Kg		94	69 - 120
1,3,5-Trimethylbenzene	0.0500	0.05222		mg/Kg		104	78 - 138
1,3-Dichlorobenzene	0.0500	0.04966		mg/Kg		99	79 - 137
1,3-Dichloropropane	0.0500	0.04611		mg/Kg		92	78 - 126
1,4-Dichlorobenzene	0.0500	0.04831		mg/Kg		97	77 - 139
2,2-Dichloropropane	0.0500	0.04512		mg/Kg		90	68 - 145
2-Butanone (MEK)	0.250	0.2148		mg/Kg		86	61 - 132
2-Chlorotoluene	0.0500	0.04960		mg/Kg		99	78 - 132
2-Hexanone	0.250	0.2135		mg/Kg		85	57 - 148
4-Chlorotoluene	0.0500	0.05219		mg/Kg		104	77 - 138
4-Methyl-2-pentanone (MIBK)	0.250	0.2456		mg/Kg		98	59 - 138
Acetone	0.250	0.2139		mg/Kg		86	51 - 149
Benzene	0.0500	0.04535		mg/Kg		91	75 - 127
Bromobenzene	0.0500	0.04661		mg/Kg		93	75 - 130
Bromochloromethane	0.0500	0.04476		mg/Kg		90	70 - 132
Bromodichloromethane	0.0500	0.04566		mg/Kg		91	68 - 135
Bromoform	0.0500	0.04616		mg/Kg		92	36 - 150
Bromomethane	0.0500	0.05057	E	mg/Kg		101	43 - 142
Carbon disulfide	0.0500	0.04552		mg/Kg		91	74 - 135
Carbon tetrachloride	0.0500	0.04547		mg/Kg		91	70 - 141
Chlorobenzene	0.0500	0.04652		mg/Kg		93	84 - 125
Chlorodibromomethane	0.0500	0.04804		mg/Kg		96	66 - 134
Chloroethane	0.0500	0.05224		mg/Kg		104	53 - 144
Chloroform	0.0500	0.04482		mg/Kg		90	76 - 130
Chloromethane	0.0500	0.05919		mg/Kg		118	23 - 150
cis-1,2-Dichloroethene	0.0500	0.04818		mg/Kg		96	75 - 125
cis-1,3-Dichloropropene	0.0500	0.05054		mg/Kg		101	73 - 148
Dibromomethane	0.0500	0.04312		mg/Kg		86	71 - 130
Dichlorodifluoromethane	0.0500	0.05513		mg/Kg		110	12 - 144
Ethylbenzene	0.0500	0.05077		mg/Kg		102	80 - 134
Hexachlorobutadiene	0.0500	0.04665		mg/Kg		93	65 - 148
Isopropylbenzene	0.0500	0.05331		mg/Kg		107	80 - 150
Methyl tert-butyl ether	0.0500	0.04646		mg/Kg		93	70 - 136
Methylene Chloride	0.0500	0.04417		mg/Kg		88	68 - 144
Naphthalene	0.0500	0.05013		mg/Kg		100	69 - 150
n-Butylbenzene	0.0500	0.05515		mg/Kg		110	72 - 152
N-Propylbenzene	0.0500	0.05171		mg/Kg		103	75 - 137
p-Isopropyltoluene	0.0500	0.05428		mg/Kg		109	77 - 141
sec-Butylbenzene	0.0500	0.05342		mg/Kg		107	79 - 141
Styrene	0.0500	0.05281		mg/Kg		106	82 - 137

TestAmerica Nashville

# QC Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
Project/Site: 200 Railroad Ave S, Ellensburg WA

TestAmerica Job ID: 490-37104-1

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

**Lab Sample ID: LCS 490-112618/3**

**Matrix: Solid**

**Analysis Batch: 112618**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits	
tert-Butylbenzene	0.0500	0.05054		mg/Kg		101	80 - 132	
Tetrachloroethene	0.0500	0.04656		mg/Kg		93	78 - 140	
Toluene	0.0500	0.04753		mg/Kg		95	80 - 132	
trans-1,2-Dichloroethene	0.0500	0.04705		mg/Kg		94	76 - 128	
trans-1,3-Dichloropropene	0.0500	0.05145		mg/Kg		103	62 - 139	
Trichloroethene	0.0500	0.04519		mg/Kg		90	77 - 127	
Trichlorofluoromethane	0.0500	0.05055		mg/Kg		101	50 - 140	
Vinyl chloride	0.0500	0.05580		mg/Kg		112	47 - 136	
Xylenes, Total	0.100	0.1018		mg/Kg		102	80 - 137	

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	95		70 - 130
4-Bromofluorobenzene (Surr)	98		70 - 130
Dibromofluoromethane (Surr)	96		70 - 130
Toluene-d8 (Surr)	103		70 - 130

**Lab Sample ID: LCSD 490-112618/4**

**Matrix: Solid**

**Analysis Batch: 112618**

**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
1,1,1,2-Tetrachloroethane	0.0500	0.04606		mg/Kg		92	80 - 136	0	50	
1,1,1-Trichloroethane	0.0500	0.04590		mg/Kg		92	72 - 140	1	50	
1,1,2,2-Tetrachloroethane	0.0500	0.04535		mg/Kg		91	66 - 134	6	50	
1,1,2-Trichloroethane	0.0500	0.04544		mg/Kg		91	78 - 128	0	50	
1,1-Dichloroethane	0.0500	0.04656		mg/Kg		93	75 - 124	0	50	
1,1-Dichloroethene	0.0500	0.04630		mg/Kg		93	75 - 131	2	50	
1,1-Dichloropropene	0.0500	0.04772		mg/Kg		95	79 - 127	2	50	
1,2,3-Trichlorobenzene	0.0500	0.05054		mg/Kg		101	70 - 150	0	50	
1,2,3-Trichloropropane	0.0500	0.04586		mg/Kg		92	65 - 139	1	50	
1,2,4-Trichlorobenzene	0.0500	0.05441		mg/Kg		109	62 - 150	2	50	
1,2,4-Trimethylbenzene	0.0500	0.05201		mg/Kg		104	77 - 139	0	50	
1,2-Dibromo-3-Chloropropane	0.0500	0.04348		mg/Kg		87	49 - 142	0	50	
1,2-Dibromoethane (EDB)	0.0500	0.04612		mg/Kg		92	80 - 135	0	50	
1,2-Dichlorobenzene	0.0500	0.04773		mg/Kg		95	80 - 134	1	50	
1,2-Dichloroethane	0.0500	0.04340		mg/Kg		87	65 - 134	2	50	
1,2-Dichloropropane	0.0500	0.04740		mg/Kg		95	69 - 120	1	50	
1,3,5-Trimethylbenzene	0.0500	0.05320		mg/Kg		106	78 - 138	2	50	
1,3-Dichlorobenzene	0.0500	0.04941		mg/Kg		99	79 - 137	0	50	
1,3-Dichloropropane	0.0500	0.04657		mg/Kg		93	78 - 126	1	42	
1,4-Dichlorobenzene	0.0500	0.04729		mg/Kg		95	77 - 139	2	50	
2,2-Dichloropropane	0.0500	0.04570		mg/Kg		91	68 - 145	1	50	
2-Butanone (MEK)	0.250	0.2108		mg/Kg		84	61 - 132	2	50	
2-Chlorotoluene	0.0500	0.04962		mg/Kg		99	78 - 132	0	50	
2-Hexanone	0.250	0.2113		mg/Kg		85	57 - 148	1	50	
4-Chlorotoluene	0.0500	0.04903		mg/Kg		98	77 - 138	6	50	
4-Methyl-2-pentanone (MIBK)	0.250	0.2429		mg/Kg		97	59 - 138	1	50	
Acetone	0.250	0.2047		mg/Kg		82	51 - 149	4	50	

TestAmerica Nashville



# QC Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
 Project/Site: 200 Railroad Ave S, Ellensburg WA

TestAmerica Job ID: 490-37104-1

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

Lab Sample ID: LCSD 490-112618/4

Matrix: Solid

Analysis Batch: 112618

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	
								RPD	Limit
Benzene	0.0500	0.04637		mg/Kg		93	75 - 127	2	50
Bromobenzene	0.0500	0.04743		mg/Kg		95	75 - 130	2	50
Bromochloromethane	0.0500	0.04564		mg/Kg		91	70 - 132	2	50
Bromodichloromethane	0.0500	0.04669		mg/Kg		93	68 - 135	2	50
Bromoform	0.0500	0.04688		mg/Kg		94	36 - 150	2	50
Bromomethane	0.0500	0.05349	E	mg/Kg		107	43 - 142	6	50
Carbon disulfide	0.0500	0.04634		mg/Kg		93	74 - 135	2	50
Carbon tetrachloride	0.0500	0.04609		mg/Kg		92	70 - 141	1	50
Chlorobenzene	0.0500	0.04683		mg/Kg		94	84 - 125	1	50
Chlorodibromomethane	0.0500	0.04772		mg/Kg		95	66 - 134	1	50
Chloroethane	0.0500	0.05271		mg/Kg		105	53 - 144	1	50
Chloroform	0.0500	0.04519		mg/Kg		90	76 - 130	1	49
Chloromethane	0.0500	0.05810		mg/Kg		116	23 - 150	2	50
cis-1,2-Dichloroethene	0.0500	0.04809		mg/Kg		96	75 - 125	0	50
cis-1,3-Dichloropropene	0.0500	0.05028		mg/Kg		101	73 - 148	1	50
Dibromomethane	0.0500	0.04386		mg/Kg		88	71 - 130	2	50
Dichlorodifluoromethane	0.0500	0.05575		mg/Kg		112	12 - 144	1	50
Ethylbenzene	0.0500	0.05053		mg/Kg		101	80 - 134	0	50
Hexachlorobutadiene	0.0500	0.04619		mg/Kg		92	65 - 148	1	50
Isopropylbenzene	0.0500	0.05251		mg/Kg		105	80 - 150	2	50
Methyl tert-butyl ether	0.0500	0.04642		mg/Kg		93	70 - 136	0	50
Methylene Chloride	0.0500	0.04520		mg/Kg		90	68 - 144	2	50
Naphthalene	0.0500	0.05093		mg/Kg		102	69 - 150	2	50
n-Butylbenzene	0.0500	0.05477		mg/Kg		110	72 - 152	1	50
N-Propylbenzene	0.0500	0.05190		mg/Kg		104	75 - 137	0	50
p-Isopropyltoluene	0.0500	0.05419		mg/Kg		108	77 - 141	0	50
sec-Butylbenzene	0.0500	0.05316		mg/Kg		106	79 - 141	0	50
Styrene	0.0500	0.05226		mg/Kg		105	82 - 137	1	50
tert-Butylbenzene	0.0500	0.05061		mg/Kg		101	80 - 132	0	50
Tetrachloroethene	0.0500	0.04588		mg/Kg		92	78 - 140	1	50
Toluene	0.0500	0.04747		mg/Kg		95	80 - 132	0	50
trans-1,2-Dichloroethene	0.0500	0.04838		mg/Kg		97	76 - 128	3	50
trans-1,3-Dichloropropene	0.0500	0.05031		mg/Kg		101	62 - 139	2	50
Trichloroethene	0.0500	0.04526		mg/Kg		91	77 - 127	0	50
Trichlorofluoromethane	0.0500	0.04922		mg/Kg		98	50 - 140	3	50
Vinyl chloride	0.0500	0.05749		mg/Kg		115	47 - 136	3	50
Xylenes, Total	0.100	0.1020		mg/Kg		102	80 - 137	0	50

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	97		70 - 130
4-Bromofluorobenzene (Surr)	98		70 - 130
Dibromofluoromethane (Surr)	96		70 - 130
Toluene-d8 (Surr)	104		70 - 130

# QC Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
Project/Site: 200 Railroad Ave S, Ellensburg WA

TestAmerica Job ID: 490-37104-1

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

**Lab Sample ID: MB 490-112600/1-A**

**Matrix: Solid**

**Analysis Batch: 112729**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

**Prep Batch: 112600**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.00333		mg/Kg		10/08/13 07:50	10/08/13 20:17	1
Acenaphthylene	ND		0.00333		mg/Kg		10/08/13 07:50	10/08/13 20:17	1
Anthracene	ND		0.00333		mg/Kg		10/08/13 07:50	10/08/13 20:17	1
Benzo[a]anthracene	ND		0.00333		mg/Kg		10/08/13 07:50	10/08/13 20:17	1
Benzo[a]pyrene	ND		0.00333		mg/Kg		10/08/13 07:50	10/08/13 20:17	1
Benzo[b]fluoranthene	ND		0.00333		mg/Kg		10/08/13 07:50	10/08/13 20:17	1
Benzo[g,h,i]perylene	ND		0.00333		mg/Kg		10/08/13 07:50	10/08/13 20:17	1
Benzo[k]fluoranthene	ND		0.00333		mg/Kg		10/08/13 07:50	10/08/13 20:17	1
Chrysene	ND		0.00333		mg/Kg		10/08/13 07:50	10/08/13 20:17	1
Dibenz(a,h)anthracene	ND		0.00333		mg/Kg		10/08/13 07:50	10/08/13 20:17	1
Fluorene	ND		0.00333		mg/Kg		10/08/13 07:50	10/08/13 20:17	1
Fluoranthene	ND		0.00333		mg/Kg		10/08/13 07:50	10/08/13 20:17	1
Indeno[1,2,3-cd]pyrene	ND		0.00333		mg/Kg		10/08/13 07:50	10/08/13 20:17	1
Naphthalene	ND		0.00333		mg/Kg		10/08/13 07:50	10/08/13 20:17	1
Phenanthrene	ND		0.00333		mg/Kg		10/08/13 07:50	10/08/13 20:17	1
Pyrene	ND		0.00333		mg/Kg		10/08/13 07:50	10/08/13 20:17	1
1-Methylnaphthalene	ND		0.00333		mg/Kg		10/08/13 07:50	10/08/13 20:17	1
2-Methylnaphthalene	ND		0.00333		mg/Kg		10/08/13 07:50	10/08/13 20:17	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Terphenyl-d14	84		13 - 120	10/08/13 07:50	10/08/13 20:17	1
Nitrobenzene-d5	63		27 - 120	10/08/13 07:50	10/08/13 20:17	1
2-Fluorobiphenyl (Surr)	68		29 - 120	10/08/13 07:50	10/08/13 20:17	1

**Lab Sample ID: LCS 490-112600/2-A**

**Matrix: Solid**

**Analysis Batch: 112729**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

**Prep Batch: 112600**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	0.0333	0.02754		mg/Kg		83	36 - 120
Acenaphthylene	0.0333	0.02726		mg/Kg		82	38 - 120
Anthracene	0.0333	0.02913		mg/Kg		87	46 - 124
Benzo[a]anthracene	0.0333	0.03086		mg/Kg		93	45 - 120
Benzo[a]pyrene	0.0333	0.02984		mg/Kg		90	45 - 120
Benzo[b]fluoranthene	0.0333	0.03083		mg/Kg		93	42 - 120
Benzo[g,h,i]perylene	0.0333	0.03440		mg/Kg		103	38 - 120
Benzo[k]fluoranthene	0.0333	0.03165		mg/Kg		95	42 - 120
Chrysene	0.0333	0.03181		mg/Kg		95	43 - 120
Dibenz(a,h)anthracene	0.0333	0.03698		mg/Kg		111	32 - 128
Fluorene	0.0333	0.02874		mg/Kg		86	42 - 120
Fluoranthene	0.0333	0.03085		mg/Kg		93	46 - 120
Indeno[1,2,3-cd]pyrene	0.0333	0.03377		mg/Kg		101	41 - 121
Naphthalene	0.0333	0.02652		mg/Kg		80	32 - 120
Phenanthrene	0.0333	0.02934		mg/Kg		88	45 - 120
Pyrene	0.0333	0.03050		mg/Kg		91	43 - 120
1-Methylnaphthalene	0.0333	0.02712		mg/Kg		81	32 - 120
2-Methylnaphthalene	0.0333	0.02717		mg/Kg		82	28 - 120

TestAmerica Nashville

# QC Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
 Project/Site: 200 Railroad Ave S, Ellensburg WA

TestAmerica Job ID: 490-37104-1

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

**Lab Sample ID: LCS 490-112600/2-A**

**Matrix: Solid**

**Analysis Batch: 112729**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

**Prep Batch: 112600**

Surrogate	LCS		Limits
	%Recovery	Qualifier	
Terphenyl-d14	82		13 - 120
Nitrobenzene-d5	66		27 - 120
2-Fluorobiphenyl (Surr)	65		29 - 120

**Lab Sample ID: 490-37096-F-7-B MS**

**Matrix: Solid**

**Analysis Batch: 112729**

**Client Sample ID: Matrix Spike**

**Prep Type: Total/NA**

**Prep Batch: 112600**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS		Unit	D	%Rec	%Rec. Limits
				Result	Qualifier				
Acenaphthene	ND		0.0368	0.02747		mg/Kg	*	75	19 - 120
Acenaphthylene	ND		0.0368	0.02731		mg/Kg	*	74	25 - 120
Anthracene	ND		0.0368	0.02813		mg/Kg	*	77	28 - 125
Benzo[a]anthracene	ND		0.0368	0.03070		mg/Kg	*	83	23 - 120
Benzo[a]pyrene	ND		0.0368	0.02912		mg/Kg	*	79	15 - 128
Benzo[b]fluoranthene	ND		0.0368	0.02980		mg/Kg	*	81	12 - 133
Benzo[g,h,i]perylene	ND		0.0368	0.03038		mg/Kg	*	83	22 - 120
Benzo[k]fluoranthene	ND		0.0368	0.02991		mg/Kg	*	81	28 - 120
Chrysene	ND		0.0368	0.02978		mg/Kg	*	81	20 - 120
Dibenz(a,h)anthracene	ND		0.0368	0.03207		mg/Kg	*	87	12 - 128
Fluorene	ND		0.0368	0.02870		mg/Kg	*	78	20 - 120
Fluoranthene	ND		0.0368	0.03061		mg/Kg	*	83	10 - 143
Indeno[1,2,3-cd]pyrene	ND		0.0368	0.03015		mg/Kg	*	82	22 - 121
Naphthalene	ND		0.0368	0.02671		mg/Kg	*	73	10 - 120
Phenanthrene	ND		0.0368	0.02968		mg/Kg	*	81	21 - 122
Pyrene	ND		0.0368	0.03040		mg/Kg	*	83	20 - 123
1-Methylnaphthalene	ND		0.0368	0.02732		mg/Kg	*	74	10 - 120
2-Methylnaphthalene	ND		0.0368	0.02763		mg/Kg	*	75	13 - 120

Surrogate	MS		Limits
	%Recovery	Qualifier	
Terphenyl-d14	67		13 - 120
Nitrobenzene-d5	58		27 - 120
2-Fluorobiphenyl (Surr)	57		29 - 120

**Lab Sample ID: 490-37096-F-7-C MSD**

**Matrix: Solid**

**Analysis Batch: 112729**

**Client Sample ID: Matrix Spike Duplicate**

**Prep Type: Total/NA**

**Prep Batch: 112600**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD		Unit	D	%Rec	%Rec. Limits	RPD	
				Result	Qualifier					RPD	Limit
Acenaphthene	ND		0.0370	0.02900		mg/Kg	*	78	19 - 120	5	50
Acenaphthylene	ND		0.0370	0.02834		mg/Kg	*	77	25 - 120	4	50
Anthracene	ND		0.0370	0.03100		mg/Kg	*	84	28 - 125	10	49
Benzo[a]anthracene	ND		0.0370	0.03402		mg/Kg	*	92	23 - 120	10	50
Benzo[a]pyrene	ND		0.0370	0.03271		mg/Kg	*	88	15 - 128	12	50
Benzo[b]fluoranthene	ND		0.0370	0.03289		mg/Kg	*	89	12 - 133	10	50
Benzo[g,h,i]perylene	ND		0.0370	0.03594		mg/Kg	*	97	22 - 120	17	50
Benzo[k]fluoranthene	ND		0.0370	0.03298		mg/Kg	*	89	28 - 120	10	45
Chrysene	ND		0.0370	0.03328		mg/Kg	*	90	20 - 120	11	49
Dibenz(a,h)anthracene	ND		0.0370	0.03808		mg/Kg	*	103	12 - 128	17	50

TestAmerica Nashville

# QC Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
Project/Site: 200 Railroad Ave S, Ellensburg WA

TestAmerica Job ID: 490-37104-1

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

**Lab Sample ID: 490-37096-F-7-C MSD**

**Matrix: Solid**

**Analysis Batch: 112729**

**Client Sample ID: Matrix Spike Duplicate**

**Prep Type: Total/NA**

**Prep Batch: 112600**

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	
	Result	Qualifier	Added	Result	Qualifier				Limits	RPD	Limit
Fluorene	ND		0.0370	0.02982		mg/Kg	*	81	20 - 120	4	50
Fluoranthene	ND		0.0370	0.03350		mg/Kg	*	91	10 - 143	9	50
Indeno[1,2,3-cd]pyrene	ND		0.0370	0.03550		mg/Kg	*	96	22 - 121	16	50
Naphthalene	ND		0.0370	0.02728		mg/Kg	*	74	10 - 120	2	50
Phenanthrene	ND		0.0370	0.03164		mg/Kg	*	86	21 - 122	6	50
Pyrene	ND		0.0370	0.03387		mg/Kg	*	92	20 - 123	11	50
1-Methylnaphthalene	ND		0.0370	0.02827		mg/Kg	*	76	10 - 120	3	50
2-Methylnaphthalene	ND		0.0370	0.02856		mg/Kg	*	77	13 - 120	3	50
<b>Surrogate</b>	<b>%Recovery</b>	<b>MSD Qualifier</b>	<b>Limits</b>								
Terphenyl-d14	74		13 - 120								
Nitrobenzene-d5	59		27 - 120								
2-Fluorobiphenyl (Surr)	60		29 - 120								

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

**Lab Sample ID: 490-37096-D-1-A DU**

**Matrix: Solid**

**Analysis Batch: 113587**

**Client Sample ID: Duplicate**

**Prep Type: Total/NA**

**Prep Batch: 112276**

Analyte	Sample	Sample	DU		Unit	D	RPD	RPD	
	Result	Qualifier	Result	Qualifier				Limit	
C6-C12	ND		ND		mg/Kg	*	NC	10	
<b>Surrogate</b>	<b>%Recovery</b>	<b>DU Qualifier</b>	<b>Limits</b>						
a,a,a-Trifluorotoluene	92		50 - 150						

**Lab Sample ID: MB 490-113587/39**

**Matrix: Solid**

**Analysis Batch: 113587**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
C6-C12	ND		5.00		mg/Kg			10/12/13 12:30	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>MB Qualifier</b>	<b>Limits</b>		<b>Prepared</b>		<b>Analyzed</b>		<b>Dil Fac</b>
a,a,a-Trifluorotoluene	97		50 - 150		10/12/13 12:30				1

**Lab Sample ID: LCS 490-113587/64**

**Matrix: Solid**

**Analysis Batch: 113587**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec.		
		Result	Qualifier				Limits		
C6-C12	10.0	9.210		mg/Kg		92	70 - 130		
<b>Surrogate</b>	<b>%Recovery</b>	<b>LCS Qualifier</b>	<b>Limits</b>						
a,a,a-Trifluorotoluene	77		50 - 150						

TestAmerica Nashville

# QC Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
 Project/Site: 200 Railroad Ave S, Ellensburg WA

TestAmerica Job ID: 490-37104-1

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

**Lab Sample ID: MB 490-112601/1-A**

**Matrix: Solid**

**Analysis Batch: 113656**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

**Prep Batch: 112601**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0333		mg/Kg		10/08/13 08:11	10/12/13 09:32	1
PCB-1221	ND		0.0333		mg/Kg		10/08/13 08:11	10/12/13 09:32	1
PCB-1232	ND		0.0333		mg/Kg		10/08/13 08:11	10/12/13 09:32	1
PCB-1242	ND		0.0333		mg/Kg		10/08/13 08:11	10/12/13 09:32	1
PCB-1248	ND		0.0333		mg/Kg		10/08/13 08:11	10/12/13 09:32	1
PCB-1254	ND		0.0333		mg/Kg		10/08/13 08:11	10/12/13 09:32	1
PCB-1260	ND		0.0333		mg/Kg		10/08/13 08:11	10/12/13 09:32	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	103		19 - 147	10/08/13 08:11	10/12/13 09:32	1
DCB Decachlorobiphenyl (Surr)	81		20 - 150	10/08/13 08:11	10/12/13 09:32	1

**Lab Sample ID: LCS 490-112601/2-A**

**Matrix: Solid**

**Analysis Batch: 113656**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

**Prep Batch: 112601**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
PCB-1242	0.167	0.1698		mg/Kg		102	39 - 150

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Tetrachloro-m-xylene	100		19 - 147
DCB Decachlorobiphenyl (Surr)	80		20 - 150

**Lab Sample ID: 490-37104-5 MS**

**Matrix: Solid**

**Analysis Batch: 113656**

**Client Sample ID: SO-062027-100113-MW-7-2**

**Prep Type: Total/NA**

**Prep Batch: 112601**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
PCB-1242	ND		0.191	0.3202		mg/Kg	☼	168	10 - 168

Surrogate	MS %Recovery	MS Qualifier	Limits
Tetrachloro-m-xylene	98		19 - 147
DCB Decachlorobiphenyl (Surr)	71		20 - 150

**Lab Sample ID: 490-37104-5 MSD**

**Matrix: Solid**

**Analysis Batch: 113656**

**Client Sample ID: SO-062027-100113-MW-7-2**

**Prep Type: Total/NA**

**Prep Batch: 112601**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
PCB-1242	ND		0.192	0.3399	F	mg/Kg	☼	177	10 - 168	6	50

Surrogate	MSD %Recovery	MSD Qualifier	Limits
Tetrachloro-m-xylene	69		19 - 147
DCB Decachlorobiphenyl (Surr)	71		20 - 150

TestAmerica Nashville

# QC Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
 Project/Site: 200 Railroad Ave S, Ellensburg WA

TestAmerica Job ID: 490-37104-1

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

**Lab Sample ID: MB 490-112949/1-A**

**Matrix: Solid**

**Analysis Batch: 112980**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

**Prep Batch: 112949**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C24	ND		5.00		mg/Kg		10/09/13 09:22	10/10/13 00:02	1
C24-C40	ND		5.00		mg/Kg		10/09/13 09:22	10/10/13 00:02	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	78		50 - 150	10/09/13 09:22	10/10/13 00:02	1

**Lab Sample ID: LCS 490-112949/2-A**

**Matrix: Solid**

**Analysis Batch: 112980**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

**Prep Batch: 112949**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
C10-C24	50.0	44.37		mg/Kg		89	55 - 129

Surrogate	LCS %Recovery	LCS Qualifier	Limits
<i>o</i> -Terphenyl	90		50 - 150

**Lab Sample ID: 490-37104-1 DU**

**Matrix: Solid**

**Analysis Batch: 112980**

**Client Sample ID: SO-062027-093013-MW-5-2**

**Prep Type: Total/NA**

**Prep Batch: 112949**

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
C10-C24	16.3		17.27		mg/Kg	☼	6	50
C24-C40	6.80		9.654		mg/Kg	☼	35	50

Surrogate	DU %Recovery	DU Qualifier	Limits
<i>o</i> -Terphenyl	65		50 - 150

**Lab Sample ID: 490-37104-5 DU**

**Matrix: Solid**

**Analysis Batch: 112980**

**Client Sample ID: SO-062027-100113-MW-7-2**

**Prep Type: Total/NA**

**Prep Batch: 112949**

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
C10-C24	ND		6.062		mg/Kg	☼	42	50
C24-C40	ND		8.748		mg/Kg	☼	56	50

Surrogate	DU %Recovery	DU Qualifier	Limits
<i>o</i> -Terphenyl	72		50 - 150

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

**Lab Sample ID: MB 490-114526/1-A**

**Matrix: Solid**

**Analysis Batch: 114654**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

**Prep Batch: 114526**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.499		mg/Kg		10/15/13 13:45	10/15/13 16:50	1

TestAmerica Nashville

# QC Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
 Project/Site: 200 Railroad Ave S, Ellensburg WA

TestAmerica Job ID: 490-37104-1

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

Lab Sample ID: LCS 490-114526/2-A

Matrix: Solid

Analysis Batch: 114654

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 114526

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Lead	19.3	19.60		mg/Kg		102	80 - 120

Lab Sample ID: 490-37096-F-7-G MS

Matrix: Solid

Analysis Batch: 114654

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 114526

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Lead	32.0		22.0	44.02	F	mg/Kg	✱	55	75 - 125

Lab Sample ID: 490-37096-F-7-H MSD

Matrix: Solid

Analysis Batch: 114654

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 114526

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Lead	32.0		22.3	54.48	F	mg/Kg	✱	101	75 - 125	21	20

## Method: Moisture - Percent Moisture

Lab Sample ID: 490-37104-1 DU

Matrix: Solid

Analysis Batch: 112469

Client Sample ID: SO-062027-093013-MW-5-2

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Percent Solids	81		80		%		0.8	20

# QC Association Summary

Client: Conestoga-Rovers & Associates, Inc.  
 Project/Site: 200 Railroad Ave S, Ellensburg WA

TestAmerica Job ID: 490-37104-1

## GC/MS VOA

### Prep Batch: 112261

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-37071-A-2-I MS	Matrix Spike	Total/NA	Solid	5030B	
490-37071-A-2-K MSD	Matrix Spike Duplicate	Total/NA	Solid	5030B	

### Prep Batch: 112284

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-37104-2	SO-062027-100113-MW-1-2	Total/NA	Solid	5035	

### Prep Batch: 112286

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-37104-1	SO-062027-093013-MW-5-2	Total/NA	Solid	5035	
490-37104-2	SO-062027-100113-MW-1-2	Total/NA	Solid	5035	
490-37104-3	SO-062027-100113-MW-8-2	Total/NA	Solid	5035	
490-37104-4	SO-062027-100113-SB-13-2	Total/NA	Solid	5035	
490-37104-5	SO-062027-100113-MW-7-2	Total/NA	Solid	5035	

### Analysis Batch: 112382

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-37071-A-2-I MS	Matrix Spike	Total/NA	Solid	8260B	112261
490-37071-A-2-K MSD	Matrix Spike Duplicate	Total/NA	Solid	8260B	112261
490-37104-1	SO-062027-093013-MW-5-2	Total/NA	Solid	8260B	112286
490-37104-3	SO-062027-100113-MW-8-2	Total/NA	Solid	8260B	112286
490-37104-4	SO-062027-100113-SB-13-2	Total/NA	Solid	8260B	112286
LCS 490-112382/3	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 490-112382/4	Lab Control Sample Dup	Total/NA	Solid	8260B	
MB 490-112382/7	Method Blank	Total/NA	Solid	8260B	

### Analysis Batch: 112618

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-37104-2	SO-062027-100113-MW-1-2	Total/NA	Solid	8260B	112286
490-37104-2	SO-062027-100113-MW-1-2	Total/NA	Solid	8260B	112284
490-37104-5	SO-062027-100113-MW-7-2	Total/NA	Solid	8260B	112286
LCS 490-112618/3	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 490-112618/4	Lab Control Sample Dup	Total/NA	Solid	8260B	
MB 490-112618/6	Method Blank	Total/NA	Solid	8260B	
MB 490-112618/7	Method Blank	Total/NA	Solid	8260B	

## GC/MS Semi VOA

### Prep Batch: 112600

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-37096-F-7-B MS	Matrix Spike	Total/NA	Solid	3550B	
490-37096-F-7-C MSD	Matrix Spike Duplicate	Total/NA	Solid	3550B	
490-37104-2	SO-062027-100113-MW-1-2	Total/NA	Solid	3550B	
490-37104-5	SO-062027-100113-MW-7-2	Total/NA	Solid	3550B	
LCS 490-112600/2-A	Lab Control Sample	Total/NA	Solid	3550B	
MB 490-112600/1-A	Method Blank	Total/NA	Solid	3550B	

### Analysis Batch: 112729

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-37096-F-7-B MS	Matrix Spike	Total/NA	Solid	8270C SIM	112600

TestAmerica Nashville



# QC Association Summary

Client: Conestoga-Rovers & Associates, Inc.  
 Project/Site: 200 Railroad Ave S, Ellensburg WA

TestAmerica Job ID: 490-37104-1

## GC/MS Semi VOA (Continued)

### Analysis Batch: 112729 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-37096-F-7-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8270C SIM	112600
490-37104-2	SO-062027-100113-MW-1-2	Total/NA	Solid	8270C SIM	112600
490-37104-5	SO-062027-100113-MW-7-2	Total/NA	Solid	8270C SIM	112600
LCS 490-112600/2-A	Lab Control Sample	Total/NA	Solid	8270C SIM	112600
MB 490-112600/1-A	Method Blank	Total/NA	Solid	8270C SIM	112600

## GC VOA

### Prep Batch: 112276

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-37096-D-1-A DU	Duplicate	Total/NA	Solid	5035	

### Prep Batch: 112284

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-37104-1	SO-062027-093013-MW-5-2	Total/NA	Solid	5035	
490-37104-2	SO-062027-100113-MW-1-2	Total/NA	Solid	5035	
490-37104-3	SO-062027-100113-MW-8-2	Total/NA	Solid	5035	
490-37104-4	SO-062027-100113-SB-13-2	Total/NA	Solid	5035	
490-37104-5	SO-062027-100113-MW-7-2	Total/NA	Solid	5035	

### Analysis Batch: 113587

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-37096-D-1-A DU	Duplicate	Total/NA	Solid	NWTPH-Gx	112276
490-37104-1	SO-062027-093013-MW-5-2	Total/NA	Solid	NWTPH-Gx	112284
490-37104-2	SO-062027-100113-MW-1-2	Total/NA	Solid	NWTPH-Gx	112284
490-37104-3	SO-062027-100113-MW-8-2	Total/NA	Solid	NWTPH-Gx	112284
490-37104-4	SO-062027-100113-SB-13-2	Total/NA	Solid	NWTPH-Gx	112284
490-37104-5	SO-062027-100113-MW-7-2	Total/NA	Solid	NWTPH-Gx	112284
LCS 490-113587/64	Lab Control Sample	Total/NA	Solid	NWTPH-Gx	
MB 490-113587/39	Method Blank	Total/NA	Solid	NWTPH-Gx	

## GC Semi VOA

### Prep Batch: 112601

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-37104-2	SO-062027-100113-MW-1-2	Total/NA	Solid	3550B	
490-37104-5	SO-062027-100113-MW-7-2	Total/NA	Solid	3550B	
490-37104-5 MS	SO-062027-100113-MW-7-2	Total/NA	Solid	3550B	
490-37104-5 MSD	SO-062027-100113-MW-7-2	Total/NA	Solid	3550B	
LCS 490-112601/2-A	Lab Control Sample	Total/NA	Solid	3550B	
MB 490-112601/1-A	Method Blank	Total/NA	Solid	3550B	

### Prep Batch: 112949

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-37104-1	SO-062027-093013-MW-5-2	Total/NA	Solid	3550B	
490-37104-1 DU	SO-062027-093013-MW-5-2	Total/NA	Solid	3550B	
490-37104-2	SO-062027-100113-MW-1-2	Total/NA	Solid	3550B	
490-37104-3	SO-062027-100113-MW-8-2	Total/NA	Solid	3550B	
490-37104-4	SO-062027-100113-SB-13-2	Total/NA	Solid	3550B	
490-37104-5	SO-062027-100113-MW-7-2	Total/NA	Solid	3550B	

TestAmerica Nashville

# QC Association Summary

Client: Conestoga-Rovers & Associates, Inc.  
 Project/Site: 200 Railroad Ave S, Ellensburg WA

TestAmerica Job ID: 490-37104-1

## GC Semi VOA (Continued)

### Prep Batch: 112949 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-37104-5 DU	SO-062027-100113-MW-7-2	Total/NA	Solid	3550B	
LCS 490-112949/2-A	Lab Control Sample	Total/NA	Solid	3550B	
MB 490-112949/1-A	Method Blank	Total/NA	Solid	3550B	

### Analysis Batch: 112980

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-37104-1	SO-062027-093013-MW-5-2	Total/NA	Solid	NWTPH-Dx	112949
490-37104-1 DU	SO-062027-093013-MW-5-2	Total/NA	Solid	NWTPH-Dx	112949
490-37104-2	SO-062027-100113-MW-1-2	Total/NA	Solid	NWTPH-Dx	112949
490-37104-3	SO-062027-100113-MW-8-2	Total/NA	Solid	NWTPH-Dx	112949
490-37104-4	SO-062027-100113-SB-13-2	Total/NA	Solid	NWTPH-Dx	112949
490-37104-5	SO-062027-100113-MW-7-2	Total/NA	Solid	NWTPH-Dx	112949
490-37104-5 DU	SO-062027-100113-MW-7-2	Total/NA	Solid	NWTPH-Dx	112949
LCS 490-112949/2-A	Lab Control Sample	Total/NA	Solid	NWTPH-Dx	112949
MB 490-112949/1-A	Method Blank	Total/NA	Solid	NWTPH-Dx	112949

### Analysis Batch: 113656

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-37104-2	SO-062027-100113-MW-1-2	Total/NA	Solid	8082	112601
490-37104-5	SO-062027-100113-MW-7-2	Total/NA	Solid	8082	112601
490-37104-5 MS	SO-062027-100113-MW-7-2	Total/NA	Solid	8082	112601
490-37104-5 MSD	SO-062027-100113-MW-7-2	Total/NA	Solid	8082	112601
LCS 490-112601/2-A	Lab Control Sample	Total/NA	Solid	8082	112601
MB 490-112601/1-A	Method Blank	Total/NA	Solid	8082	112601

## Metals

### Prep Batch: 114526

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-37096-F-7-G MS	Matrix Spike	Total/NA	Solid	3051	
490-37096-F-7-H MSD	Matrix Spike Duplicate	Total/NA	Solid	3051	
490-37104-2	SO-062027-100113-MW-1-2	Total/NA	Solid	3051	
490-37104-5	SO-062027-100113-MW-7-2	Total/NA	Solid	3051	
LCS 490-114526/2-A	Lab Control Sample	Total/NA	Solid	3051	
MB 490-114526/1-A	Method Blank	Total/NA	Solid	3051	

### Analysis Batch: 114654

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-37096-F-7-G MS	Matrix Spike	Total/NA	Solid	6020	114526
490-37096-F-7-H MSD	Matrix Spike Duplicate	Total/NA	Solid	6020	114526
490-37104-2	SO-062027-100113-MW-1-2	Total/NA	Solid	6020	114526
490-37104-5	SO-062027-100113-MW-7-2	Total/NA	Solid	6020	114526
LCS 490-114526/2-A	Lab Control Sample	Total/NA	Solid	6020	114526
MB 490-114526/1-A	Method Blank	Total/NA	Solid	6020	114526

## General Chemistry

### Analysis Batch: 112469

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-37104-1	SO-062027-093013-MW-5-2	Total/NA	Solid	Moisture	

TestAmerica Nashville

# QC Association Summary

Client: Conestoga-Rovers & Associates, Inc.  
Project/Site: 200 Railroad Ave S, Ellensburg WA

TestAmerica Job ID: 490-37104-1

## General Chemistry (Continued)

### Analysis Batch: 112469 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-37104-1 DU	SO-062027-093013-MW-5-2	Total/NA	Solid	Moisture	
490-37104-2	SO-062027-100113-MW-1-2	Total/NA	Solid	Moisture	
490-37104-3	SO-062027-100113-MW-8-2	Total/NA	Solid	Moisture	
490-37104-4	SO-062027-100113-SB-13-2	Total/NA	Solid	Moisture	
490-37104-5	SO-062027-100113-MW-7-2	Total/NA	Solid	Moisture	



# Lab Chronicle

Client: Conestoga-Rovers & Associates, Inc.  
 Project/Site: 200 Railroad Ave S, Ellensburg WA

TestAmerica Job ID: 490-37104-1

**Client Sample ID: SO-062027-093013-MW-5-2**

**Lab Sample ID: 490-37104-1**

**Date Collected: 09/30/13 14:30**

**Matrix: Solid**

**Date Received: 10/05/13 08:15**

**Percent Solids: 80.7**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			112286	10/05/13 15:29	JLP	TAL NSH
Total/NA	Analysis	8260B		1	112382	10/07/13 17:07	KKK	TAL NSH
Total/NA	Prep	5035			112284	10/05/13 15:26	JLP	TAL NSH
Total/NA	Analysis	NWTPH-Gx		1	113587	10/12/13 19:41	AMC	TAL NSH
Total/NA	Prep	3550B			112949	10/09/13 09:22	BJB	TAL NSH
Total/NA	Analysis	NWTPH-Dx		1	112980	10/10/13 02:35	JML	TAL NSH
Total/NA	Analysis	Moisture		1	112469	10/07/13 12:50	RRS	TAL NSH

**Client Sample ID: SO-062027-100113-MW-1-2**

**Lab Sample ID: 490-37104-2**

**Date Collected: 10/01/13 11:30**

**Matrix: Solid**

**Date Received: 10/05/13 08:15**

**Percent Solids: 86.9**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			112286	10/05/13 15:29	JLP	TAL NSH
Total/NA	Analysis	8260B		1	112618	10/08/13 12:51	KKK	TAL NSH
Total/NA	Prep	5035			112284	10/05/13 15:26	JLP	TAL NSH
Total/NA	Analysis	8260B		1	112618	10/08/13 13:20	KKK	TAL NSH
Total/NA	Prep	3550B			112600	10/08/13 07:50	LP	TAL NSH
Total/NA	Analysis	8270C SIM		1	112729	10/08/13 22:24	BES	TAL NSH
Total/NA	Prep	5035			112284	10/05/13 15:26	JLP	TAL NSH
Total/NA	Analysis	NWTPH-Gx		1	113587	10/12/13 20:14	AMC	TAL NSH
Total/NA	Prep	3550B			112949	10/09/13 09:22	BJB	TAL NSH
Total/NA	Analysis	NWTPH-Dx		1	112980	10/10/13 03:05	JML	TAL NSH
Total/NA	Prep	3550B			112601	10/08/13 08:11	LP	TAL NSH
Total/NA	Analysis	8082		1	113656	10/12/13 11:42	WAM	TAL NSH
Total/NA	Prep	3051			114526	10/15/13 13:45	NLI	TAL NSH
Total/NA	Analysis	6020		1	114654	10/15/13 17:13	BWW	TAL NSH
Total/NA	Analysis	Moisture		1	112469	10/07/13 12:50	RRS	TAL NSH

**Client Sample ID: SO-062027-100113-MW-8-2**

**Lab Sample ID: 490-37104-3**

**Date Collected: 10/01/13 13:30**

**Matrix: Solid**

**Date Received: 10/05/13 08:15**

**Percent Solids: 85.4**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			112286	10/05/13 15:29	JLP	TAL NSH
Total/NA	Analysis	8260B		1	112382	10/07/13 18:05	KKK	TAL NSH
Total/NA	Prep	5035			112284	10/05/13 15:26	JLP	TAL NSH
Total/NA	Analysis	NWTPH-Gx		1	113587	10/12/13 20:47	AMC	TAL NSH
Total/NA	Prep	3550B			112949	10/09/13 09:22	BJB	TAL NSH
Total/NA	Analysis	NWTPH-Dx		1	112980	10/10/13 03:20	JML	TAL NSH
Total/NA	Analysis	Moisture		1	112469	10/07/13 12:50	RRS	TAL NSH

# Lab Chronicle

Client: Conestoga-Rovers & Associates, Inc.  
 Project/Site: 200 Railroad Ave S, Ellensburg WA

TestAmerica Job ID: 490-37104-1

**Client Sample ID: SO-062027-100113-SB-13-2**

**Lab Sample ID: 490-37104-4**

**Date Collected: 10/01/13 14:15**

**Matrix: Solid**

**Date Received: 10/05/13 08:15**

**Percent Solids: 82.3**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			112286	10/05/13 15:29	JLP	TAL NSH
Total/NA	Analysis	8260B		1	112382	10/07/13 18:34	KKK	TAL NSH
Total/NA	Prep	5035			112284	10/05/13 15:26	JLP	TAL NSH
Total/NA	Analysis	NWTPH-Gx		1	113587	10/12/13 21:20	AMC	TAL NSH
Total/NA	Prep	3550B			112949	10/09/13 09:22	BJB	TAL NSH
Total/NA	Analysis	NWTPH-Dx		1	112980	10/10/13 03:35	JML	TAL NSH
Total/NA	Analysis	Moisture		1	112469	10/07/13 12:50	RRS	TAL NSH

**Client Sample ID: SO-062027-100113-MW-7-2**

**Lab Sample ID: 490-37104-5**

**Date Collected: 10/01/13 16:15**

**Matrix: Solid**

**Date Received: 10/05/13 08:15**

**Percent Solids: 84.8**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			112286	10/05/13 15:29	JLP	TAL NSH
Total/NA	Analysis	8260B		1	112618	10/08/13 13:48	KKK	TAL NSH
Total/NA	Prep	3550B			112600	10/08/13 07:50	LP	TAL NSH
Total/NA	Analysis	8270C SIM		1	112729	10/08/13 22:49	BES	TAL NSH
Total/NA	Prep	5035			112284	10/05/13 15:26	JLP	TAL NSH
Total/NA	Analysis	NWTPH-Gx		1	113587	10/12/13 21:53	AMC	TAL NSH
Total/NA	Prep	3550B			112949	10/09/13 09:22	BJB	TAL NSH
Total/NA	Analysis	NWTPH-Dx		1	112980	10/10/13 03:51	JML	TAL NSH
Total/NA	Prep	3550B			112601	10/08/13 08:11	LP	TAL NSH
Total/NA	Analysis	8082		1	113656	10/12/13 10:16	WAM	TAL NSH
Total/NA	Prep	3051			114526	10/15/13 13:45	NLI	TAL NSH
Total/NA	Analysis	6020		1	114654	10/15/13 17:18	BWW	TAL NSH
Total/NA	Analysis	Moisture		1	112469	10/07/13 12:50	RRS	TAL NSH

**Laboratory References:**

TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Drive, Nashville, TN 37204, TEL (615)726-0177

# Method Summary

Client: Conestoga-Rovers & Associates, Inc.  
Project/Site: 200 Railroad Ave S, Ellensburg WA

TestAmerica Job ID: 490-37104-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL NSH
8270C SIM	Semivolatile Organic Compounds (GC/MS SIM)	SW846	TAL NSH
NWTPH-Gx	Northwest - Volatile Petroleum Products (GC)	NWTPH	TAL NSH
8082	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL NSH
NWTPH-Dx	Northwest - Semi-Volatile Petroleum Products (GC)	NWTPH	TAL NSH
6020	Metals (ICP/MS)	SW846	TAL NSH
Moisture	Percent Moisture	EPA	TAL NSH

**Protocol References:**

EPA = US Environmental Protection Agency

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 NSH = TestAmerica Nashville, 2960 Foster Creighton Drive, Nashville, TN 37204, TEL (615)726-0177



# Certification Summary

Client: Conestoga-Rovers & Associates, Inc.  
 Project/Site: 200 Railroad Ave S, Ellensburg WA

TestAmerica Job ID: 490-37104-1

## Laboratory: TestAmerica Nashville

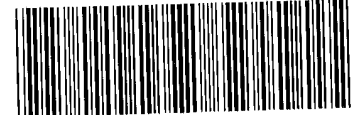
Unless otherwise noted, all analytes for this laboratory were covered under each certification below.

Authority	Program	EPA Region	Certification ID	Expiration Date
Washington	State Program	10	C789	07-19-14

The following analytes are included in this report, but certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
6020	3051	Solid	Lead
8082	3550B	Solid	PCB-1016
8082	3550B	Solid	PCB-1221
8082	3550B	Solid	PCB-1232
8082	3550B	Solid	PCB-1242
8082	3550B	Solid	PCB-1248
8082	3550B	Solid	PCB-1254
8082	3550B	Solid	PCB-1260
8270C SIM	3550B	Solid	1-Methylnaphthalene
8270C SIM	3550B	Solid	2-Methylnaphthalene
8270C SIM	3550B	Solid	Acenaphthene
8270C SIM	3550B	Solid	Acenaphthylene
8270C SIM	3550B	Solid	Anthracene
8270C SIM	3550B	Solid	Benzo[a]anthracene
8270C SIM	3550B	Solid	Benzo[a]pyrene
8270C SIM	3550B	Solid	Benzo[b]fluoranthene
8270C SIM	3550B	Solid	Benzo[g,h,i]perylene
8270C SIM	3550B	Solid	Benzo[k]fluoranthene
8270C SIM	3550B	Solid	Chrysene
8270C SIM	3550B	Solid	Dibenz(a,h)anthracene
8270C SIM	3550B	Solid	Fluoranthene
8270C SIM	3550B	Solid	Fluorene
8270C SIM	3550B	Solid	Indeno[1,2,3-cd]pyrene
8270C SIM	3550B	Solid	Naphthalene
8270C SIM	3550B	Solid	Phenanthrene
8270C SIM	3550B	Solid	Pyrene
Moisture		Solid	Percent Solids
NWTPH-Dx	3550B	Solid	C10-C24
NWTPH-Gx		Solid	C6-C12
NWTPH-Gx	5035	Solid	C6-C12

## COOLER RECEIPT FORM



490-37104 Chain of Custody

Cooler Received/Opened On 10/5/2013 @ 0815

1. Tracking # 1214 (last 4 digits, FedEx)
- Courier: Fedex IR Gun ID 18290455
2. Temperature of rep. sample or temp blank when opened: 3.6 Degrees Celsius
3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen? YES NO (NA)
4. Were custody seals on outside of cooler? (YES)...NO...NA  
If yes, how many and where: 1 front
5. Were the seals intact, signed, and dated correctly? (YES)...NO...NA
6. Were custody papers inside cooler? (YES)...NO...NA  
I certify that I opened the cooler and answered questions 1-6 (initial) ELC
7. Were custody seals on containers: YES (NO) and intact YES...NO...(NA)  
Were these signed and dated correctly? YES...NO...(NA)
8. Packing mat'l used? Bubblewrap Plastic bag Peanuts Vermiculite Foam Insert Paper Other None
9. Cooling process: (Ice) Ice-pack Ice (direct contact) Dry ice Other None
10. Did all containers arrive in good condition (unbroken)? (YES)...NO...NA
11. Were all container labels complete (#, date, signed, pres., etc)? YES...(NO)...NA
12. Did all container labels and tags agree with custody papers? YES...(NO)...NA
- 13a. Were VOA vials received? (YES)...NO...NA  
b. Was there any observable headspace present in any VOA vial? YES...NO...(NA)
14. Was there a Trip Blank in this cooler? YES...(NO)...NA If multiple coolers, sequence # \_\_\_\_\_  
I certify that I unloaded the cooler and answered questions 7-14 (initial) EA
- 15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? YES...NO...(NA)  
b. Did the bottle labels indicate that the correct preservatives were used YES...NO...(NA)
16. Was residual chlorine present? YES...NO...(NA)  
I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (initial) EA
17. Were custody papers properly filled out (ink, signed, etc)? (YES)...NO...NA
18. Did you sign the custody papers in the appropriate place? (YES)...NO...NA
19. Were correct containers used for the analysis requested? (YES)...NO...NA
20. Was sufficient amount of sample sent in each container? (YES)...NO...NA  
I certify that I entered this project into LIMS and answered questions 17-20 (initial) EA  
I certify that I attached a label with the unique LIMS number to each container (initial) EA
21. Were there Non-Conformance issues at login? (YES)...NO Was a NCM generated? (YES)...NO...# \_\_\_\_\_

1 jar for MW-8-2 has the sample time and date recorded but not the ID. This jar was packed in a ziplock bag with the other containers. The ID was recorded on the ziplock bag.



# Shell Oil Products Chain Of Custody Record

①

**LAB (LOCATION)**

CALSCIENCE ( )

SPL ( Houston )

XENCO ( )

TEST AMERICA Nashville

OTHER ( )

Please Check Appropriate Box:

<input type="checkbox"/> ENV. SERVICES	<input type="checkbox"/> MOTIVA RETAIL	<input type="checkbox"/> SHELL RETAIL
<input type="checkbox"/> MOTIVA SD&CM	<input checked="" type="checkbox"/> CONSULTANT	<input type="checkbox"/> LUBES
<input type="checkbox"/> SHELL PIPELINE	<input type="checkbox"/> OTHER	

**Print Bill To Contact Name:**  
Brian Peters

**PO #:** \_\_\_\_\_

**INCIDENT # (ENV SERVICES):**  
7970447

**SAP #:** \_\_\_\_\_

CHECK IF NO INCIDENT # APPLIES

**DATE:** 10/4/13

**PAGE:** 1 of 1

**SAMPLING COMPANY:**  
Conestoga-Rovers & Associates

**LOG CODE:**  
NA

**ADDRESS:**  
20818 44th Ave W., Suite 190, Lynnwood, WA 98036

**SITE ADDRESS: Street and City:**  
200 Railroad Ave S, Ellensburg WA

**STATE:** WA

**GLOBAL ID NO.:** NA

**EDF DELIVERABLE TO (Name, Company, Office Location):** NA

**PHONE NO.:** NA

**E-MAIL:** NA

**CONSULTANT PROJECT NO.:** 062027

**PROJECT CONTACT (Hardcopy or PDF Report to):**  
Brian Peters

**TELEPHONE:** 425-563-6500

**FAX:** 425-563-6599

**E-MAIL:** B.Peters@Crawworld.com

**TURNAROUND TIME (CALENDAR DAYS):**  
 STANDARD (14 DAY)  
  5 DAYS  
  3 DAYS  
  2 DAYS  
  24 HOURS

LA - RWQCB REPORT FORMAT  
  UST AGENCY

**SAMPLER NAME(S) (Print):**  
Stephen Rasmussen

**REQUESTED ANALYSIS**

**SPECIAL INSTRUCTIONS OR NOTES:**

TOT benzene required if benzene > 10 mg/kg

Waived TAT except for those contingent tests needed for Aquatic Binassay Determination (5 day TAT or better may apply)

cc: Derek Cieman, Deisman@Crawworld.com and Shell Lab Billing@Crawworld.com

SHELL CONTRACT RATE APPLIES

STATE REIMBURSEMENT RATE APPLIES EDD NOT NEEDED

RECEIPT VERIFICATION REQUESTED

RESULTS NEEDED ON WEEKEND

TPH - Purgeable (8260B)	TPH - Extractable (8015M)	BTEX (8260B)	5 Oxygenates (8260B)	MTBE (8260B)	TBA (8260B)	DIPE (8260B)	TAME (8260B)	ETBE (8260B)	1,2 DCA (8260B)	EDB (8260B) / EDC	Ethanol (8260B)	Methanol (8015M)	PAHs (8270c) / CPAHs	TCLP: As, Ba, Cd, Cr, Pb, Hg, Se, Ag (8010B or 8020)	PCBs (8082) + HVCs 8100	TRPH (418-1)	NWTPH-6X	NWTPH-DX	Total Lead 6020	TEMPERATURE ON RECEIPT C° <u>3.6°</u>
-------------------------	---------------------------	--------------	----------------------	--------------	-------------	--------------	--------------	--------------	-----------------	-------------------	-----------------	------------------	----------------------	--	-------------------------	--------------	----------	----------	-----------------	--

Field Sample Identification	SAMPLING		MATRIX	PRESERVATIVE					NO. OF CONT.
	DATE	TIME		HCL	HNO3	H2SO4	NONE	OTHER	
<u>SO-062027-093013-MW-5-2</u>	<u>10/13/13</u>	<u>1430</u>	<u>SO</u>						<u>7</u>
<u>SO-062027-100113-MW-1-2</u>	<u>10/1/13</u>	<u>1130</u>	<u>SO</u>						<u>14</u>
<u>SO-062027-100113-MW-8-2</u>	<u>10/1/13</u>	<u>1330</u>	<u>SO</u>						<u>14</u>
<u>SO-062027-100113-SB-13-2</u>	<u>10/1/13</u>	<u>1415</u>	<u>SO</u>						<u>14</u>
<u>SO-062027-100113-MW-7-2</u>	<u>10/1/13</u>	<u>1615</u>	<u>SO</u>						<u>7</u>

Container PID Readings or Laboratory Notes	<u>Additional analysis may be required, please hold pending B. Peters Notification</u>
--	--

**Relinquished by: (Signature)**  
Stephen Rasmussen CRA 10/4/13 1330

**Received by: (Signature)**  
[Signature]

**Relinquished by: (Signature)**

**Received by: (Signature)**

**Relinquished by: (Signature)**

**Received by: (Signature)**

**Date:** \_\_\_\_\_ **Time:** \_\_\_\_\_

**Date:** \_\_\_\_\_ **Time:** \_\_\_\_\_

**Date:** \_\_\_\_\_ **Time:** \_\_\_\_\_

09/08/11 Revision

10/18/2013



## Login Sample Receipt Checklist

Client: Conestoga-Rovers & Associates, Inc.

Job Number: 490-37104-1

**Login Number: 37104**

**List Source: TestAmerica Nashville**

**List Number: 1**

**Creator: Huckaba, Jimmy**

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?	True	
There are no discrepancies between the containers received and the COC.	False	
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").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

## ANALYTICAL REPORT

TestAmerica Laboratories, Inc.  
TestAmerica Nashville  
2960 Foster Creighton Drive  
Nashville, TN 37204  
Tel: (615)726-0177

TestAmerica Job ID: 490-37112-1  
Client Project/Site: 200 Railroad Ave S Ellensburg WA

For:  
Conestoga-Rovers & Associates, Inc.  
20818 44th Ave W  
Suite 190  
Lynnwood, Washington 98036

Attn: Brian Peters



Authorized for release by:  
10/21/2013 10:55:04 AM

Ryan Fitzwater, Senior Project Manager  
(615)726-0177  
[ryan.fitzwater@testamericainc.com](mailto:ryan.fitzwater@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: Conestoga-Rovers & Associates, Inc.  
Project/Site: 200 Railroad Ave S Ellensburg WA

TestAmerica Job ID: 490-37112-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
490-37112-1	SO-062027-100313-MW-5-5	Solid	10/03/13 15:15	10/05/13 08:15
490-37112-2	SO-062027-100313-MW-5-10	Solid	10/03/13 15:25	10/05/13 08:15
490-37112-3	SO-062027-100313-MW-1-5	Solid	10/04/13 09:05	10/05/13 08:15

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# Case Narrative

Client: Conestoga-Rovers & Associates, Inc.  
Project/Site: 200 Railroad Ave S Ellensburg WA

TestAmerica Job ID: 490-37112-1

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## Job ID: 490-37112-1

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Laboratory: TestAmerica Nashville

### Narrative

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#### Job Narrative 490-37112-1

#### Comments

No additional comments.

#### Receipt

The samples were received on 10/5/2013 8:15 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.6° C.

#### GC/MS VOA

Method(s) 8260B: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with batch 112618. See LCS/LCSD

No other analytical or quality issues were noted.

#### GC Semi VOA

Method(s) 8082: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for batch 112601 were outside control limits. 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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## Job ID: 490-37112-2

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Laboratory: TestAmerica Nashville

### Narrative

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#### Job Narrative 490-37112-2

#### Comments

No additional comments.

#### Receipt

The samples were received on 10/5/2013 8:15 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.6° C.

#### GC/MS VOA

Method(s) 8260B: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with batch 112618. See LCS/LCSD

Method(s) 8260B: Surrogate recovery for the following sample(s) was outside control limits: SO-062027-100313-MW-5-5 (490-37112-1). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method(s) 8260B: Due to sample matrix effect on the internal standard (ISTD), a dilution was required for the following sample(s): SO-062027-100313-MW-1-5 (490-37112-3).

Method(s) 8260B: The following sample(s) was diluted due to the nature of the sample matrix: SO-062027-100313-MW-1-5 (490-37112-3). Elevated reporting limits (RLs) are provided.

## Case Narrative

Client: Conestoga-Rovers & Associates, Inc.  
Project/Site: 200 Railroad Ave S Ellensburg WA

TestAmerica Job ID: 490-37112-1

### Job ID: 490-37112-2 (Continued)

#### Laboratory: TestAmerica Nashville (Continued)

Method(s) 8260B: The matrix spike / matrix spike duplicate (MS/MSD) precision for batch 112963 was outside control limits. The associated laboratory control sample / laboratory control sample duplicate (LCS/LCSD) precision met acceptance criteria.

Method(s) 8260B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for batch 112963 were outside control limits. The associated laboratory control sample (LCS) recovery met acceptance criteria.

No other analytical or quality issues were noted.

#### GC/MS Semi VOA

No analytical or quality issues were noted.

#### GC VOA

Method(s) NWTPH/VP: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for batch 113330 were outside control limits. 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: There was insufficient contamination present to perform a pattern match for the following sample(s): (490-37104-5 DU). The percent RPD failed between the source and duplicate samples due to non-homogeneity of sample matrix.

Method(s) NWTPH-Dx: The following sample(s) contained a hydrocarbon pattern for analyte C10-C24 that most closely resembles a Diesel Fuel #2 product used by the laboratory for quantitative purposes: SO-062027-100313-MW-5-10 (490-37112-2).

Method(s) NWTPH-Dx: Surrogate recovery for the following sample(s) was outside control limits: SO-062027-100313-MW-5-10 (490-37112-2). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

No other analytical or quality issues were noted.

#### Metals

Method(s) 6020: The matrix spike / matrix spike duplicate (MS/MSD) percent recoveries and %RPD for batch 490-114526 were outside control limits. <<EXPLANATION REQUIRED = This is attributed to: non-homogeneity of the sample matrix.>>

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: Conestoga-Rovers & Associates, Inc.  
Project/Site: 200 Railroad Ave S Ellensburg WA

TestAmerica Job ID: 490-37112-1

## Qualifiers

### GC/MS VOA

Qualifier	Qualifier Description
X	Surrogate is outside control limits
*	ISTD response or retention time outside acceptable limits
F	MS/MSD Recovery and/or RPD exceeds the control limits
E	Result exceeded calibration range.

### GC VOA

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

### GC Semi VOA

Qualifier	Qualifier Description
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

## 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: Conestoga-Rovers & Associates, Inc.  
 Project/Site: 200 Railroad Ave S Ellensburg WA

TestAmerica Job ID: 490-37112-1

**Client Sample ID: SO-062027-100313-MW-5-5**

**Lab Sample ID: 490-37112-1**

**Date Collected: 10/03/13 15:15**

**Matrix: Solid**

**Date Received: 10/05/13 08:15**

**Percent Solids: 92.1**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.00115		mg/Kg	☼	10/08/13 08:41	10/08/13 16:14	1
1,1,1-Trichloroethane	ND		0.00115		mg/Kg	☼	10/08/13 08:41	10/08/13 16:14	1
1,1,1,2,2-Tetrachloroethane	ND		0.00115		mg/Kg	☼	10/08/13 08:41	10/08/13 16:14	1
1,1,1,2-Trichloroethane	ND		0.00288		mg/Kg	☼	10/08/13 08:41	10/08/13 16:14	1
1,1-Dichloroethane	ND		0.00115		mg/Kg	☼	10/08/13 08:41	10/08/13 16:14	1
1,1-Dichloroethene	ND		0.00115		mg/Kg	☼	10/08/13 08:41	10/08/13 16:14	1
1,1-Dichloropropene	ND		0.00115		mg/Kg	☼	10/08/13 08:41	10/08/13 16:14	1
1,2,3-Trichlorobenzene	ND		0.00115		mg/Kg	☼	10/08/13 08:41	10/08/13 16:14	1
1,2,3-Trichloropropane	ND		0.00115		mg/Kg	☼	10/08/13 08:41	10/08/13 16:14	1
1,2,4-Trichlorobenzene	ND		0.00115		mg/Kg	☼	10/08/13 08:41	10/08/13 16:14	1
1,2,4-Trimethylbenzene	ND		0.00115		mg/Kg	☼	10/08/13 08:41	10/08/13 16:14	1
1,2-Dibromo-3-Chloropropane	ND		0.00288		mg/Kg	☼	10/08/13 08:41	10/08/13 16:14	1
1,2-Dibromoethane (EDB)	ND		0.00115		mg/Kg	☼	10/08/13 08:41	10/08/13 16:14	1
1,2-Dichlorobenzene	ND		0.00115		mg/Kg	☼	10/08/13 08:41	10/08/13 16:14	1
1,2-Dichloroethane	ND		0.00115		mg/Kg	☼	10/08/13 08:41	10/08/13 16:14	1
1,2-Dichloropropane	ND		0.00115		mg/Kg	☼	10/08/13 08:41	10/08/13 16:14	1
1,3,5-Trimethylbenzene	ND		0.00115		mg/Kg	☼	10/08/13 08:41	10/08/13 16:14	1
1,3-Dichlorobenzene	ND		0.00115		mg/Kg	☼	10/08/13 08:41	10/08/13 16:14	1
1,3-Dichloropropane	ND		0.00115		mg/Kg	☼	10/08/13 08:41	10/08/13 16:14	1
1,4-Dichlorobenzene	ND		0.00115		mg/Kg	☼	10/08/13 08:41	10/08/13 16:14	1
2,2-Dichloropropane	ND		0.00115		mg/Kg	☼	10/08/13 08:41	10/08/13 16:14	1
2-Butanone (MEK)	ND		0.0288		mg/Kg	☼	10/08/13 08:41	10/08/13 16:14	1
2-Chlorotoluene	ND		0.00115		mg/Kg	☼	10/08/13 08:41	10/08/13 16:14	1
2-Hexanone	ND		0.0288		mg/Kg	☼	10/08/13 08:41	10/08/13 16:14	1
4-Chlorotoluene	ND		0.00115		mg/Kg	☼	10/08/13 08:41	10/08/13 16:14	1
4-Methyl-2-pentanone (MIBK)	ND		0.0288		mg/Kg	☼	10/08/13 08:41	10/08/13 16:14	1
Acetone	ND		0.0288		mg/Kg	☼	10/08/13 08:41	10/08/13 16:14	1
Benzene	ND		0.00115		mg/Kg	☼	10/08/13 08:41	10/08/13 16:14	1
Bromobenzene	ND		0.00115		mg/Kg	☼	10/08/13 08:41	10/08/13 16:14	1
Bromochloromethane	ND		0.00115		mg/Kg	☼	10/08/13 08:41	10/08/13 16:14	1
Bromodichloromethane	ND		0.00115		mg/Kg	☼	10/08/13 08:41	10/08/13 16:14	1
Bromoform	ND		0.00115		mg/Kg	☼	10/08/13 08:41	10/08/13 16:14	1
Bromomethane	ND		0.00115		mg/Kg	☼	10/08/13 08:41	10/08/13 16:14	1
<b>Carbon disulfide</b>	<b>0.00520</b>		0.00288		mg/Kg	☼	10/08/13 08:41	10/08/13 16:14	1
Carbon tetrachloride	ND		0.00115		mg/Kg	☼	10/08/13 08:41	10/08/13 16:14	1
Chlorobenzene	ND		0.00115		mg/Kg	☼	10/08/13 08:41	10/08/13 16:14	1
Chlorodibromomethane	ND		0.00115		mg/Kg	☼	10/08/13 08:41	10/08/13 16:14	1
Chloroethane	ND		0.00288		mg/Kg	☼	10/08/13 08:41	10/08/13 16:14	1
Chloroform	ND		0.00115		mg/Kg	☼	10/08/13 08:41	10/08/13 16:14	1
Chloromethane	ND		0.00115		mg/Kg	☼	10/08/13 08:41	10/08/13 16:14	1
cis-1,2-Dichloroethene	ND		0.00115		mg/Kg	☼	10/08/13 08:41	10/08/13 16:14	1
cis-1,3-Dichloropropene	ND		0.00115		mg/Kg	☼	10/08/13 08:41	10/08/13 16:14	1
<b>Dibromomethane</b>	<b>0.00179</b>		0.00115		mg/Kg	☼	10/08/13 08:41	10/08/13 16:14	1
Dichlorodifluoromethane	ND		0.00115		mg/Kg	☼	10/08/13 08:41	10/08/13 16:14	1
<b>Ethylbenzene</b>	<b>0.00522</b>		0.00115		mg/Kg	☼	10/08/13 08:41	10/08/13 16:14	1
Hexachlorobutadiene	ND		0.00288		mg/Kg	☼	10/08/13 08:41	10/08/13 16:14	1
Isopropylbenzene	ND		0.00115		mg/Kg	☼	10/08/13 08:41	10/08/13 16:14	1
Methyl tert-butyl ether	ND		0.00115		mg/Kg	☼	10/08/13 08:41	10/08/13 16:14	1
Methylene Chloride	ND		0.00575		mg/Kg	☼	10/08/13 08:41	10/08/13 16:14	1

TestAmerica Nashville

# Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
 Project/Site: 200 Railroad Ave S Ellensburg WA

TestAmerica Job ID: 490-37112-1

**Client Sample ID: SO-062027-100313-MW-5-5**

**Lab Sample ID: 490-37112-1**

Date Collected: 10/03/13 15:15

Matrix: Solid

Date Received: 10/05/13 08:15

Percent Solids: 92.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		0.00288		mg/Kg	☼	10/08/13 08:41	10/08/13 16:14	1
n-Butylbenzene	ND		0.00115		mg/Kg	☼	10/08/13 08:41	10/08/13 16:14	1
<b>N-Propylbenzene</b>	<b>0.00462</b>		0.00115		mg/Kg	☼	10/08/13 08:41	10/08/13 16:14	1
p-Isopropyltoluene	ND		0.00115		mg/Kg	☼	10/08/13 08:41	10/08/13 16:14	1
<b>sec-Butylbenzene</b>	<b>0.00584</b>		0.00115		mg/Kg	☼	10/08/13 08:41	10/08/13 16:14	1
Styrene	ND		0.00115		mg/Kg	☼	10/08/13 08:41	10/08/13 16:14	1
tert-Butylbenzene	ND		0.00115		mg/Kg	☼	10/08/13 08:41	10/08/13 16:14	1
Tetrachloroethene	ND		0.00115		mg/Kg	☼	10/08/13 08:41	10/08/13 16:14	1
Toluene	ND		0.00115		mg/Kg	☼	10/08/13 08:41	10/08/13 16:14	1
trans-1,2-Dichloroethene	ND		0.00115		mg/Kg	☼	10/08/13 08:41	10/08/13 16:14	1
trans-1,3-Dichloropropene	ND		0.00115		mg/Kg	☼	10/08/13 08:41	10/08/13 16:14	1
Trichloroethene	ND		0.00115		mg/Kg	☼	10/08/13 08:41	10/08/13 16:14	1
Trichlorofluoromethane	ND		0.00115		mg/Kg	☼	10/08/13 08:41	10/08/13 16:14	1
Vinyl chloride	ND		0.00115		mg/Kg	☼	10/08/13 08:41	10/08/13 16:14	1
Xylenes, Total	ND		0.00173		mg/Kg	☼	10/08/13 08:41	10/08/13 16:14	1
<b>2-Methylnaphthalene</b>	<b>0.00330</b>		0.00288		mg/Kg	☼	10/08/13 08:41	10/08/13 16:14	1
Hexane	ND		0.00575		mg/Kg	☼	10/08/13 08:41	10/08/13 16:14	1
1-Methylnaphthalene	ND		0.00288		mg/Kg	☼	10/08/13 08:41	10/08/13 16:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	94		70 - 130	10/08/13 08:41	10/08/13 16:14	1
4-Bromofluorobenzene (Surr)	266	X	70 - 130	10/08/13 08:41	10/08/13 16:14	1
Dibromofluoromethane (Surr)	95		70 - 130	10/08/13 08:41	10/08/13 16:14	1
Toluene-d8 (Surr)	121		70 - 130	10/08/13 08:41	10/08/13 16:14	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.00352		mg/Kg	☼	10/08/13 07:50	10/08/13 23:15	1
Acenaphthylene	ND		0.00352		mg/Kg	☼	10/08/13 07:50	10/08/13 23:15	1
Anthracene	ND		0.00352		mg/Kg	☼	10/08/13 07:50	10/08/13 23:15	1
Benzo[a]anthracene	ND		0.00352		mg/Kg	☼	10/08/13 07:50	10/08/13 23:15	1
Benzo[a]pyrene	ND		0.00352		mg/Kg	☼	10/08/13 07:50	10/08/13 23:15	1
Benzo[b]fluoranthene	ND		0.00352		mg/Kg	☼	10/08/13 07:50	10/08/13 23:15	1
Benzo[g,h,i]perylene	ND		0.00352		mg/Kg	☼	10/08/13 07:50	10/08/13 23:15	1
Benzo[k]fluoranthene	ND		0.00352		mg/Kg	☼	10/08/13 07:50	10/08/13 23:15	1
Chrysene	ND		0.00352		mg/Kg	☼	10/08/13 07:50	10/08/13 23:15	1
Dibenz(a,h)anthracene	ND		0.00352		mg/Kg	☼	10/08/13 07:50	10/08/13 23:15	1
Fluorene	ND		0.00352		mg/Kg	☼	10/08/13 07:50	10/08/13 23:15	1
Fluoranthene	ND		0.00352		mg/Kg	☼	10/08/13 07:50	10/08/13 23:15	1
Indeno[1,2,3-cd]pyrene	ND		0.00352		mg/Kg	☼	10/08/13 07:50	10/08/13 23:15	1
Naphthalene	ND		0.00352		mg/Kg	☼	10/08/13 07:50	10/08/13 23:15	1
Phenanthrene	ND		0.00352		mg/Kg	☼	10/08/13 07:50	10/08/13 23:15	1
Pyrene	ND		0.00352		mg/Kg	☼	10/08/13 07:50	10/08/13 23:15	1
1-Methylnaphthalene	ND		0.00352		mg/Kg	☼	10/08/13 07:50	10/08/13 23:15	1
2-Methylnaphthalene	ND		0.00352		mg/Kg	☼	10/08/13 07:50	10/08/13 23:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Terphenyl-d14	74		13 - 120	10/08/13 07:50	10/08/13 23:15	1
Nitrobenzene-d5	43		27 - 120	10/08/13 07:50	10/08/13 23:15	1
2-Fluorobiphenyl (Surr)	46		29 - 120	10/08/13 07:50	10/08/13 23:15	1

TestAmerica Nashville

# Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
Project/Site: 200 Railroad Ave S Ellensburg WA

TestAmerica Job ID: 490-37112-1

**Client Sample ID: SO-062027-100313-MW-5-5**

**Lab Sample ID: 490-37112-1**

Date Collected: 10/03/13 15:15

Matrix: Solid

Date Received: 10/05/13 08:15

Percent Solids: 92.1

**Method: NWTPH/VPH - Northwest - Volatile Petroleum Hydrocarbons (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C5-C6 Aliphatics	ND		3.86		mg/Kg	☼	10/08/13 08:37	10/08/13 15:38	1
C6-C8 aliphatic (adjusted)	ND		5.43		mg/Kg	☼		10/14/13 21:47	1
C6-C8 Aliphatics	ND		3.86		mg/Kg	☼	10/08/13 08:37	10/08/13 15:38	1
C8-C10 aliphatic (adjusted)	ND		5.43		mg/Kg	☼		10/14/13 21:47	1
<b>C10-C12 aliphatic (adjusted)</b>	<b>247</b>		5.43		mg/Kg	☼		10/14/13 21:47	1
<b>C8-C10 Aliphatics</b>	<b>12.5</b>		3.86		mg/Kg	☼	10/08/13 08:37	10/08/13 15:38	1
<b>C10-C12 Aliphatics</b>	<b>439</b>		77.2		mg/Kg	☼	10/08/13 08:37	10/08/13 15:05	20
C5-C6 aliphatics (adjusted)	ND		5.43		mg/Kg	☼		10/14/13 21:47	1
<b>C8-C10 Aromatics</b>	<b>12.4</b>		3.86		mg/Kg	☼	10/08/13 08:37	10/08/13 15:38	1
<b>C10-C12 Aromatics</b>	<b>192</b>		154		mg/Kg	☼	10/08/13 08:37	10/10/13 15:34	40
<b>C12-C13 Aromatics</b>	<b>193</b>		154		mg/Kg	☼	10/08/13 08:37	10/10/13 15:34	40
<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)	86		60 - 140				10/08/13 08:37	10/08/13 15:05	20
2,5-Dibromotoluene (fid)	87		60 - 140				10/08/13 08:37	10/08/13 15:38	1
2,5-Dibromotoluene (pid)	93		60 - 140				10/08/13 08:37	10/08/13 15:38	1
2,5-Dibromotoluene (pid)	113		60 - 140				10/08/13 08:37	10/10/13 15:34	40

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>C6-C12</b>	<b>472</b>		3.86		mg/Kg	☼	10/08/13 08:37	10/13/13 01:12	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	81		50 - 150				10/08/13 08:37	10/13/13 01:12	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0352		mg/Kg	☼	10/08/13 08:11	10/12/13 12:03	1
PCB-1221	ND		0.0352		mg/Kg	☼	10/08/13 08:11	10/12/13 12:03	1
PCB-1232	ND		0.0352		mg/Kg	☼	10/08/13 08:11	10/12/13 12:03	1
PCB-1242	ND		0.0352		mg/Kg	☼	10/08/13 08:11	10/12/13 12:03	1
PCB-1248	ND		0.0352		mg/Kg	☼	10/08/13 08:11	10/12/13 12:03	1
PCB-1254	ND		0.0352		mg/Kg	☼	10/08/13 08:11	10/12/13 12:03	1
PCB-1260	ND		0.0352		mg/Kg	☼	10/08/13 08:11	10/12/13 12:03	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Tetrachloro-m-xylene	86		19 - 147				10/08/13 08:11	10/12/13 12:03	1
DCB Decachlorobiphenyl (Surr)	66		20 - 150				10/08/13 08:11	10/12/13 12:03	1

**Method: NWTPH/EPH - Northwest - Extractable Petroleum Hydrocarbons (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C8-C10 Aliphatics	ND		5.26		mg/Kg	☼	10/09/13 09:01	10/14/13 10:21	1
C10-C12 Aliphatics	ND		5.26		mg/Kg	☼	10/09/13 09:01	10/14/13 10:21	1
C12-C16 Aliphatics	ND		5.26		mg/Kg	☼	10/09/13 09:01	10/14/13 10:21	1
C16-C21 Aliphatics	ND		5.26		mg/Kg	☼	10/09/13 09:01	10/14/13 10:21	1
C21-C34 Aliphatics	ND		5.26		mg/Kg	☼	10/09/13 09:01	10/14/13 10:21	1
C8-C10 Aromatics	ND		5.26		mg/Kg	☼	10/09/13 09:01	10/14/13 15:54	1
C10-C12 Aromatics	ND		5.26		mg/Kg	☼	10/09/13 09:01	10/14/13 15:54	1
C12-C16 Aromatics	ND		5.26		mg/Kg	☼	10/09/13 09:01	10/14/13 15:54	1
C16-C21 Aromatics	ND		5.26		mg/Kg	☼	10/09/13 09:01	10/14/13 15:54	1
C21-C34 Aromatics	ND		5.26		mg/Kg	☼	10/09/13 09:01	10/14/13 15:54	1

TestAmerica Nashville

# Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
 Project/Site: 200 Railroad Ave S Ellensburg WA

TestAmerica Job ID: 490-37112-1

**Client Sample ID: SO-062027-100313-MW-5-5**

**Lab Sample ID: 490-37112-1**

**Date Collected: 10/03/13 15:15**

**Matrix: Solid**

**Date Received: 10/05/13 08:15**

**Percent Solids: 92.1**

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	99		60 - 140	10/09/13 09:01	10/14/13 15:54	1
2-Bromonaphthalene	84		60 - 140	10/09/13 09:01	10/14/13 15:54	1
o-Terphenyl	84		60 - 140	10/09/13 09:01	10/14/13 15:54	1
1-Chlorooctadecane	77		60 - 140	10/09/13 09:01	10/14/13 10:21	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C24	ND		4.80		mg/Kg	☼	10/09/13 09:22	10/10/13 04:21	1
C24-C40	ND		4.80		mg/Kg	☼	10/09/13 09:22	10/10/13 04:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	75		50 - 150	10/09/13 09:22	10/10/13 04:21	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	1.69		0.523		mg/Kg	☼	10/15/13 13:45	10/15/13 17:22	1

**General Chemistry**

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	92		0.10		%			10/07/13 12:50	1

# Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
 Project/Site: 200 Railroad Ave S Ellensburg WA

TestAmerica Job ID: 490-37112-1

**Client Sample ID: SO-062027-100313-MW-5-10**

**Lab Sample ID: 490-37112-2**

**Date Collected: 10/03/13 15:25**

**Matrix: Solid**

**Date Received: 10/05/13 08:15**

**Percent Solids: 92.1**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.00105		mg/Kg	☼	10/08/13 08:41	10/08/13 15:44	1
Ethylbenzene	ND		0.00105		mg/Kg	☼	10/08/13 08:41	10/08/13 15:44	1
Xylenes, Total	ND		0.00158		mg/Kg	☼	10/08/13 08:41	10/08/13 15:44	1
Toluene	ND		0.00105		mg/Kg	☼	10/08/13 08:41	10/08/13 15:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		70 - 130	10/08/13 08:41	10/08/13 15:44	1
1,2-Dichloroethane-d4 (Surr)	101		70 - 130	10/08/13 08:41	10/08/13 15:44	1
Toluene-d8 (Surr)	99		70 - 130	10/08/13 08:41	10/08/13 15:44	1
Dibromofluoromethane (Surr)	101		70 - 130	10/08/13 08:41	10/08/13 15:44	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>C6-C12</b>	<b>9.34</b>		3.08		mg/Kg	☼	10/08/13 08:37	10/13/13 00:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	76		50 - 150	10/08/13 08:37	10/13/13 00:06	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>C10-C24</b>	<b>947</b>		49.0		mg/Kg	☼	10/09/13 09:22	10/10/13 17:39	10
<b>C24-C40</b>	<b>22.6</b>		4.90		mg/Kg	☼	10/09/13 09:22	10/10/13 04:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	132		50 - 150	10/09/13 09:22	10/10/13 04:37	1
o-Terphenyl	194	X	50 - 150	10/09/13 09:22	10/10/13 17:39	10

**General Chemistry**

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Percent Solids</b>	<b>92</b>		0.10		%			10/07/13 12:50	1

# Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
 Project/Site: 200 Railroad Ave S Ellensburg WA

TestAmerica Job ID: 490-37112-1

**Client Sample ID: SO-062027-100313-MW-1-5**

**Lab Sample ID: 490-37112-3**

**Date Collected: 10/04/13 09:05**

**Matrix: Solid**

**Date Received: 10/05/13 08:15**

**Percent Solids: 84.9**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.00150		mg/Kg	☼	10/08/13 08:41	10/09/13 15:01	1
1,1,1-Trichloroethane	ND		0.00150		mg/Kg	☼	10/08/13 08:41	10/09/13 15:01	1
1,1,2,2-Tetrachloroethane	ND		0.0930		mg/Kg	☼	10/08/13 08:37	10/09/13 15:30	1
1,1,2-Trichloroethane	ND		0.00374		mg/Kg	☼	10/08/13 08:41	10/09/13 15:01	1
1,1-Dichloroethane	ND		0.00150		mg/Kg	☼	10/08/13 08:41	10/09/13 15:01	1
1,1-Dichloroethene	ND		0.00150		mg/Kg	☼	10/08/13 08:41	10/09/13 15:01	1
1,1-Dichloropropene	ND		0.00150		mg/Kg	☼	10/08/13 08:41	10/09/13 15:01	1
1,2,3-Trichlorobenzene	ND		0.0930		mg/Kg	☼	10/08/13 08:37	10/09/13 15:30	1
1,2,3-Trichloropropane	ND		0.0930		mg/Kg	☼	10/08/13 08:37	10/09/13 15:30	1
1,2,4-Trichlorobenzene	ND		0.0930		mg/Kg	☼	10/08/13 08:37	10/09/13 15:30	1
1,2,4-Trimethylbenzene	ND		0.0930		mg/Kg	☼	10/08/13 08:37	10/09/13 15:30	1
1,2-Dibromo-3-Chloropropane	ND		0.232		mg/Kg	☼	10/08/13 08:37	10/09/13 15:30	1
1,2-Dibromoethane (EDB)	ND		0.00150		mg/Kg	☼	10/08/13 08:41	10/09/13 15:01	1
1,2-Dichlorobenzene	ND		0.0930		mg/Kg	☼	10/08/13 08:37	10/09/13 15:30	1
1,2-Dichloroethane	ND		0.00150		mg/Kg	☼	10/08/13 08:41	10/09/13 15:01	1
1,2-Dichloropropane	ND		0.00150		mg/Kg	☼	10/08/13 08:41	10/09/13 15:01	1
1,3,5-Trimethylbenzene	ND		0.0930		mg/Kg	☼	10/08/13 08:37	10/09/13 15:30	1
1,3-Dichlorobenzene	ND		0.0930		mg/Kg	☼	10/08/13 08:37	10/09/13 15:30	1
1,3-Dichloropropane	ND		0.00150		mg/Kg	☼	10/08/13 08:41	10/09/13 15:01	1
1,4-Dichlorobenzene	ND		0.0930		mg/Kg	☼	10/08/13 08:37	10/09/13 15:30	1
2,2-Dichloropropane	ND		0.00150		mg/Kg	☼	10/08/13 08:41	10/09/13 15:01	1
2-Butanone (MEK)	ND		0.0374		mg/Kg	☼	10/08/13 08:41	10/09/13 15:01	1
2-Chlorotoluene	ND		0.0930		mg/Kg	☼	10/08/13 08:37	10/09/13 15:30	1
2-Hexanone	ND		0.0374		mg/Kg	☼	10/08/13 08:41	10/09/13 15:01	1
4-Chlorotoluene	ND		0.0930		mg/Kg	☼	10/08/13 08:37	10/09/13 15:30	1
4-Methyl-2-pentanone (MIBK)	ND		0.0374		mg/Kg	☼	10/08/13 08:41	10/09/13 15:01	1
Acetone	ND		0.0374		mg/Kg	☼	10/08/13 08:41	10/09/13 15:01	1
<b>Benzene</b>	<b>0.00230</b>		0.00150		mg/Kg	☼	10/08/13 08:41	10/09/13 15:01	1
Bromobenzene	ND		0.0930		mg/Kg	☼	10/08/13 08:37	10/09/13 15:30	1
Bromochloromethane	ND		0.00150		mg/Kg	☼	10/08/13 08:41	10/09/13 15:01	1
Bromodichloromethane	ND		0.00150		mg/Kg	☼	10/08/13 08:41	10/09/13 15:01	1
Bromoform	ND		0.00150		mg/Kg	☼	10/08/13 08:41	10/09/13 15:01	1
Bromomethane	ND		0.00150		mg/Kg	☼	10/08/13 08:41	10/09/13 15:01	1
Carbon disulfide	ND		0.00374		mg/Kg	☼	10/08/13 08:41	10/09/13 15:01	1
Carbon tetrachloride	ND		0.00150		mg/Kg	☼	10/08/13 08:41	10/09/13 15:01	1
Chlorobenzene	ND		0.00150		mg/Kg	☼	10/08/13 08:41	10/09/13 15:01	1
Chlorodibromomethane	ND		0.00150		mg/Kg	☼	10/08/13 08:41	10/09/13 15:01	1
Chloroethane	ND		0.00374		mg/Kg	☼	10/08/13 08:41	10/09/13 15:01	1
Chloroform	ND		0.00150		mg/Kg	☼	10/08/13 08:41	10/09/13 15:01	1
Chloromethane	ND		0.00150		mg/Kg	☼	10/08/13 08:41	10/09/13 15:01	1
cis-1,2-Dichloroethene	ND		0.00150		mg/Kg	☼	10/08/13 08:41	10/09/13 15:01	1
cis-1,3-Dichloropropene	ND		0.00150		mg/Kg	☼	10/08/13 08:41	10/09/13 15:01	1
Dibromomethane	ND		0.00150		mg/Kg	☼	10/08/13 08:41	10/09/13 15:01	1
Dichlorodifluoromethane	ND		0.00150		mg/Kg	☼	10/08/13 08:41	10/09/13 15:01	1
Ethylbenzene	ND		0.00150		mg/Kg	☼	10/08/13 08:41	10/09/13 15:01	1
Hexachlorobutadiene	ND		0.232		mg/Kg	☼	10/08/13 08:37	10/09/13 15:30	1
Isopropylbenzene	ND		0.00150		mg/Kg	☼	10/08/13 08:41	10/09/13 15:01	1
Methyl tert-butyl ether	ND		0.00150		mg/Kg	☼	10/08/13 08:41	10/09/13 15:01	1
Methylene Chloride	ND		0.00748		mg/Kg	☼	10/08/13 08:41	10/09/13 15:01	1

TestAmerica Nashville

# Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
 Project/Site: 200 Railroad Ave S Ellensburg WA

TestAmerica Job ID: 490-37112-1

**Client Sample ID: SO-062027-100313-MW-1-5**

**Lab Sample ID: 490-37112-3**

Date Collected: 10/04/13 09:05

Matrix: Solid

Date Received: 10/05/13 08:15

Percent Solids: 84.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		0.232		mg/Kg	☼	10/08/13 08:37	10/09/13 15:30	1
n-Butylbenzene	ND		0.0930		mg/Kg	☼	10/08/13 08:37	10/09/13 15:30	1
N-Propylbenzene	ND		0.0930		mg/Kg	☼	10/08/13 08:37	10/09/13 15:30	1
p-Isopropyltoluene	ND		0.0930		mg/Kg	☼	10/08/13 08:37	10/09/13 15:30	1
sec-Butylbenzene	ND		0.0930		mg/Kg	☼	10/08/13 08:37	10/09/13 15:30	1
Styrene	ND		0.00150		mg/Kg	☼	10/08/13 08:41	10/09/13 15:01	1
tert-Butylbenzene	ND		0.0930		mg/Kg	☼	10/08/13 08:37	10/09/13 15:30	1
Tetrachloroethene	ND		0.00150		mg/Kg	☼	10/08/13 08:41	10/09/13 15:01	1
<b>Toluene</b>	<b>0.00156</b>		0.00150		mg/Kg	☼	10/08/13 08:41	10/09/13 15:01	1
trans-1,2-Dichloroethene	ND		0.00150		mg/Kg	☼	10/08/13 08:41	10/09/13 15:01	1
trans-1,3-Dichloropropene	ND		0.00150		mg/Kg	☼	10/08/13 08:41	10/09/13 15:01	1
Trichloroethene	ND		0.00150		mg/Kg	☼	10/08/13 08:41	10/09/13 15:01	1
Trichlorofluoromethane	ND		0.00150		mg/Kg	☼	10/08/13 08:41	10/09/13 15:01	1
Vinyl chloride	ND		0.00150		mg/Kg	☼	10/08/13 08:41	10/09/13 15:01	1
Xylenes, Total	ND		0.00224		mg/Kg	☼	10/08/13 08:41	10/09/13 15:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		70 - 130	10/08/13 08:41	10/09/13 15:01	1
1,2-Dichloroethane-d4 (Surr)	95		70 - 130	10/08/13 08:37	10/09/13 15:30	1
4-Bromofluorobenzene (Surr)	124 *		70 - 130	10/08/13 08:41	10/09/13 15:01	1
4-Bromofluorobenzene (Surr)	99		70 - 130	10/08/13 08:37	10/09/13 15:30	1
Dibromofluoromethane (Surr)	100		70 - 130	10/08/13 08:41	10/09/13 15:01	1
Dibromofluoromethane (Surr)	91		70 - 130	10/08/13 08:37	10/09/13 15:30	1
Toluene-d8 (Surr)	113		70 - 130	10/08/13 08:41	10/09/13 15:01	1
Toluene-d8 (Surr)	104		70 - 130	10/08/13 08:37	10/09/13 15:30	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.00380		mg/Kg	☼	10/08/13 07:50	10/08/13 23:40	1
Acenaphthylene	ND		0.00380		mg/Kg	☼	10/08/13 07:50	10/08/13 23:40	1
Anthracene	ND		0.00380		mg/Kg	☼	10/08/13 07:50	10/08/13 23:40	1
Benzo[a]anthracene	ND		0.00380		mg/Kg	☼	10/08/13 07:50	10/08/13 23:40	1
Benzo[a]pyrene	ND		0.00380		mg/Kg	☼	10/08/13 07:50	10/08/13 23:40	1
Benzo[b]fluoranthene	ND		0.00380		mg/Kg	☼	10/08/13 07:50	10/08/13 23:40	1
Benzo[g,h,i]perylene	ND		0.00380		mg/Kg	☼	10/08/13 07:50	10/08/13 23:40	1
Benzo[k]fluoranthene	ND		0.00380		mg/Kg	☼	10/08/13 07:50	10/08/13 23:40	1
Chrysene	ND		0.00380		mg/Kg	☼	10/08/13 07:50	10/08/13 23:40	1
Dibenz(a,h)anthracene	ND		0.00380		mg/Kg	☼	10/08/13 07:50	10/08/13 23:40	1
Fluorene	ND		0.00380		mg/Kg	☼	10/08/13 07:50	10/08/13 23:40	1
Fluoranthene	ND		0.00380		mg/Kg	☼	10/08/13 07:50	10/08/13 23:40	1
Indeno[1,2,3-cd]pyrene	ND		0.00380		mg/Kg	☼	10/08/13 07:50	10/08/13 23:40	1
Naphthalene	ND		0.00380		mg/Kg	☼	10/08/13 07:50	10/08/13 23:40	1
Phenanthrene	ND		0.00380		mg/Kg	☼	10/08/13 07:50	10/08/13 23:40	1
Pyrene	ND		0.00380		mg/Kg	☼	10/08/13 07:50	10/08/13 23:40	1
1-Methylnaphthalene	ND		0.00380		mg/Kg	☼	10/08/13 07:50	10/08/13 23:40	1
2-Methylnaphthalene	ND		0.00380		mg/Kg	☼	10/08/13 07:50	10/08/13 23:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Terphenyl-d14	75		13 - 120	10/08/13 07:50	10/08/13 23:40	1
Nitrobenzene-d5	47		27 - 120	10/08/13 07:50	10/08/13 23:40	1

TestAmerica Nashville

# Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
 Project/Site: 200 Railroad Ave S Ellensburg WA

TestAmerica Job ID: 490-37112-1

**Client Sample ID: SO-062027-100313-MW-1-5**

**Lab Sample ID: 490-37112-3**

Date Collected: 10/04/13 09:05

Matrix: Solid

Date Received: 10/05/13 08:15

Percent Solids: 84.9

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	53		29 - 120	10/08/13 07:50	10/08/13 23:40	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C12	ND		4.02		mg/Kg	☼	10/08/13 08:37	10/13/13 00:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	77		50 - 150	10/08/13 08:37	10/13/13 00:39	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0387		mg/Kg	☼	10/08/13 08:11	10/12/13 12:25	1
PCB-1221	ND		0.0387		mg/Kg	☼	10/08/13 08:11	10/12/13 12:25	1
PCB-1232	ND		0.0387		mg/Kg	☼	10/08/13 08:11	10/12/13 12:25	1
PCB-1242	ND		0.0387		mg/Kg	☼	10/08/13 08:11	10/12/13 12:25	1
PCB-1248	ND		0.0387		mg/Kg	☼	10/08/13 08:11	10/12/13 12:25	1
PCB-1254	ND		0.0387		mg/Kg	☼	10/08/13 08:11	10/12/13 12:25	1
PCB-1260	ND		0.0387		mg/Kg	☼	10/08/13 08:11	10/12/13 12:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	94		19 - 147	10/08/13 08:11	10/12/13 12:25	1
DCB Decachlorobiphenyl (Surr)	75		20 - 150	10/08/13 08:11	10/12/13 12:25	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C24	ND		4.88		mg/Kg	☼	10/09/13 09:22	10/10/13 04:52	1
C24-C40	ND		4.88		mg/Kg	☼	10/09/13 09:22	10/10/13 04:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	56		50 - 150	10/09/13 09:22	10/10/13 04:52	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	78.4		0.568		mg/Kg	☼	10/15/13 13:45	10/15/13 17:27	1

**General Chemistry**

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Solids	85		0.10		%			10/07/13 12:50	1



# QC Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
 Project/Site: 200 Railroad Ave S Ellensburg WA

TestAmerica Job ID: 490-37112-1

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

**Lab Sample ID: MB 490-112618/7**

**Matrix: Solid**

**Analysis Batch: 112618**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.00200		mg/Kg			10/08/13 12:22	1
1,1,1-Trichloroethane	ND		0.00200		mg/Kg			10/08/13 12:22	1
1,1,2,2-Tetrachloroethane	ND		0.00200		mg/Kg			10/08/13 12:22	1
1,1,2-Trichloroethane	ND		0.00500		mg/Kg			10/08/13 12:22	1
1,1-Dichloroethane	ND		0.00200		mg/Kg			10/08/13 12:22	1
1,1-Dichloroethene	ND		0.00200		mg/Kg			10/08/13 12:22	1
1,1-Dichloropropene	ND		0.00200		mg/Kg			10/08/13 12:22	1
1,2,3-Trichlorobenzene	ND		0.00200		mg/Kg			10/08/13 12:22	1
1,2,3-Trichloropropane	ND		0.00200		mg/Kg			10/08/13 12:22	1
1,2,4-Trichlorobenzene	ND		0.00200		mg/Kg			10/08/13 12:22	1
1,2,4-Trimethylbenzene	ND		0.00200		mg/Kg			10/08/13 12:22	1
1,2-Dibromo-3-Chloropropane	ND		0.00500		mg/Kg			10/08/13 12:22	1
1,2-Dibromoethane (EDB)	ND		0.00200		mg/Kg			10/08/13 12:22	1
1,2-Dichlorobenzene	ND		0.00200		mg/Kg			10/08/13 12:22	1
1,2-Dichloroethane	ND		0.00200		mg/Kg			10/08/13 12:22	1
1,2-Dichloropropane	ND		0.00200		mg/Kg			10/08/13 12:22	1
1,3,5-Trimethylbenzene	ND		0.00200		mg/Kg			10/08/13 12:22	1
1,3-Dichlorobenzene	ND		0.00200		mg/Kg			10/08/13 12:22	1
1,3-Dichloropropane	ND		0.00200		mg/Kg			10/08/13 12:22	1
1,4-Dichlorobenzene	ND		0.00200		mg/Kg			10/08/13 12:22	1
2,2-Dichloropropane	ND		0.00200		mg/Kg			10/08/13 12:22	1
2-Butanone (MEK)	ND		0.0500		mg/Kg			10/08/13 12:22	1
2-Chlorotoluene	ND		0.00200		mg/Kg			10/08/13 12:22	1
2-Hexanone	ND		0.0500		mg/Kg			10/08/13 12:22	1
4-Chlorotoluene	ND		0.00200		mg/Kg			10/08/13 12:22	1
4-Methyl-2-pentanone (MIBK)	ND		0.0500		mg/Kg			10/08/13 12:22	1
Acetone	ND		0.0500		mg/Kg			10/08/13 12:22	1
Benzene	ND		0.00200		mg/Kg			10/08/13 12:22	1
Bromobenzene	ND		0.00200		mg/Kg			10/08/13 12:22	1
Bromochloromethane	ND		0.00200		mg/Kg			10/08/13 12:22	1
Bromodichloromethane	ND		0.00200		mg/Kg			10/08/13 12:22	1
Bromoform	ND		0.00200		mg/Kg			10/08/13 12:22	1
Bromomethane	ND		0.00200		mg/Kg			10/08/13 12:22	1
Carbon disulfide	ND		0.00500		mg/Kg			10/08/13 12:22	1
Carbon tetrachloride	ND		0.00200		mg/Kg			10/08/13 12:22	1
Chlorobenzene	ND		0.00200		mg/Kg			10/08/13 12:22	1
Chlorodibromomethane	ND		0.00200		mg/Kg			10/08/13 12:22	1
Chloroethane	ND		0.00500		mg/Kg			10/08/13 12:22	1
Chloroform	ND		0.00200		mg/Kg			10/08/13 12:22	1
Chloromethane	ND		0.00200		mg/Kg			10/08/13 12:22	1
cis-1,2-Dichloroethene	ND		0.00200		mg/Kg			10/08/13 12:22	1
cis-1,3-Dichloropropene	ND		0.00200		mg/Kg			10/08/13 12:22	1
Dibromomethane	ND		0.00200		mg/Kg			10/08/13 12:22	1
Dichlorodifluoromethane	ND		0.00200		mg/Kg			10/08/13 12:22	1
Ethylbenzene	ND		0.00200		mg/Kg			10/08/13 12:22	1
Hexachlorobutadiene	ND		0.00500		mg/Kg			10/08/13 12:22	1
Isopropylbenzene	ND		0.00200		mg/Kg			10/08/13 12:22	1
Methyl tert-butyl ether	ND		0.00200		mg/Kg			10/08/13 12:22	1

TestAmerica Nashville

# QC Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
 Project/Site: 200 Railroad Ave S Ellensburg WA

TestAmerica Job ID: 490-37112-1

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

**Lab Sample ID: MB 490-112618/7**

**Matrix: Solid**

**Analysis Batch: 112618**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	ND		0.0100		mg/Kg			10/08/13 12:22	1
Naphthalene	ND		0.00500		mg/Kg			10/08/13 12:22	1
n-Butylbenzene	ND		0.00200		mg/Kg			10/08/13 12:22	1
N-Propylbenzene	ND		0.00200		mg/Kg			10/08/13 12:22	1
p-Isopropyltoluene	ND		0.00200		mg/Kg			10/08/13 12:22	1
sec-Butylbenzene	ND		0.00200		mg/Kg			10/08/13 12:22	1
Styrene	ND		0.00200		mg/Kg			10/08/13 12:22	1
tert-Butylbenzene	ND		0.00200		mg/Kg			10/08/13 12:22	1
Tetrachloroethene	ND		0.00200		mg/Kg			10/08/13 12:22	1
Toluene	ND		0.00200		mg/Kg			10/08/13 12:22	1
trans-1,2-Dichloroethene	ND		0.00200		mg/Kg			10/08/13 12:22	1
trans-1,3-Dichloropropene	ND		0.00200		mg/Kg			10/08/13 12:22	1
Trichloroethene	ND		0.00200		mg/Kg			10/08/13 12:22	1
Trichlorofluoromethane	ND		0.00200		mg/Kg			10/08/13 12:22	1
Vinyl chloride	ND		0.00200		mg/Kg			10/08/13 12:22	1
Xylenes, Total	ND		0.00300		mg/Kg			10/08/13 12:22	1
2-Methylnaphthalene	ND		0.00500		mg/Kg			10/08/13 12:22	1
Hexane	ND		0.0100		mg/Kg			10/08/13 12:22	1
1-Methylnaphthalene	ND		0.00500		mg/Kg			10/08/13 12:22	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	97		70 - 130		10/08/13 12:22	1
4-Bromofluorobenzene (Surr)	102		70 - 130		10/08/13 12:22	1
Dibromofluoromethane (Surr)	99		70 - 130		10/08/13 12:22	1
Toluene-d8 (Surr)	105		70 - 130		10/08/13 12:22	1

**Lab Sample ID: LCS 490-112618/3**

**Matrix: Solid**

**Analysis Batch: 112618**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	0.0500	0.04622		mg/Kg		92	80 - 136
1,1,1-Trichloroethane	0.0500	0.04529		mg/Kg		91	72 - 140
1,1,2,2-Tetrachloroethane	0.0500	0.04250		mg/Kg		85	66 - 134
1,1,2-Trichloroethane	0.0500	0.04562		mg/Kg		91	78 - 128
1,1-Dichloroethane	0.0500	0.04659		mg/Kg		93	75 - 124
1,1-Dichloroethene	0.0500	0.04545		mg/Kg		91	75 - 131
1,1-Dichloropropene	0.0500	0.04664		mg/Kg		93	79 - 127
1,2,3-Trichlorobenzene	0.0500	0.05066		mg/Kg		101	70 - 150
1,2,3-Trichloropropane	0.0500	0.04543		mg/Kg		91	65 - 139
1,2,4-Trichlorobenzene	0.0500	0.05322		mg/Kg		106	62 - 150
1,2,4-Trimethylbenzene	0.0500	0.05184		mg/Kg		104	77 - 139
1,2-Dibromo-3-Chloropropane	0.0500	0.04364		mg/Kg		87	49 - 142
1,2-Dibromoethane (EDB)	0.0500	0.04605		mg/Kg		92	80 - 135
1,2-Dichlorobenzene	0.0500	0.04809		mg/Kg		96	80 - 134
1,2-Dichloroethane	0.0500	0.04262		mg/Kg		85	65 - 134
1,2-Dichloropropane	0.0500	0.04692		mg/Kg		94	69 - 120
1,3,5-Trimethylbenzene	0.0500	0.05222		mg/Kg		104	78 - 138

TestAmerica Nashville

# QC Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
 Project/Site: 200 Railroad Ave S Ellensburg WA

TestAmerica Job ID: 490-37112-1

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

**Lab Sample ID: LCS 490-112618/3**

**Matrix: Solid**

**Analysis Batch: 112618**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,3-Dichlorobenzene	0.0500	0.04966		mg/Kg		99	79 - 137
1,3-Dichloropropane	0.0500	0.04611		mg/Kg		92	78 - 126
1,4-Dichlorobenzene	0.0500	0.04831		mg/Kg		97	77 - 139
2,2-Dichloropropane	0.0500	0.04512		mg/Kg		90	68 - 145
2-Butanone (MEK)	0.250	0.2148		mg/Kg		86	61 - 132
2-Chlorotoluene	0.0500	0.04960		mg/Kg		99	78 - 132
2-Hexanone	0.250	0.2135		mg/Kg		85	57 - 148
4-Chlorotoluene	0.0500	0.05219		mg/Kg		104	77 - 138
4-Methyl-2-pentanone (MIBK)	0.250	0.2456		mg/Kg		98	59 - 138
Acetone	0.250	0.2139		mg/Kg		86	51 - 149
Benzene	0.0500	0.04535		mg/Kg		91	75 - 127
Bromobenzene	0.0500	0.04661		mg/Kg		93	75 - 130
Bromochloromethane	0.0500	0.04476		mg/Kg		90	70 - 132
Bromodichloromethane	0.0500	0.04566		mg/Kg		91	68 - 135
Bromoform	0.0500	0.04616		mg/Kg		92	36 - 150
Bromomethane	0.0500	0.05057	E	mg/Kg		101	43 - 142
Carbon disulfide	0.0500	0.04552		mg/Kg		91	74 - 135
Carbon tetrachloride	0.0500	0.04547		mg/Kg		91	70 - 141
Chlorobenzene	0.0500	0.04652		mg/Kg		93	84 - 125
Chlorodibromomethane	0.0500	0.04804		mg/Kg		96	66 - 134
Chloroethane	0.0500	0.05224		mg/Kg		104	53 - 144
Chloroform	0.0500	0.04482		mg/Kg		90	76 - 130
Chloromethane	0.0500	0.05919		mg/Kg		118	23 - 150
cis-1,2-Dichloroethene	0.0500	0.04818		mg/Kg		96	75 - 125
cis-1,3-Dichloropropene	0.0500	0.05054		mg/Kg		101	73 - 148
Dibromomethane	0.0500	0.04312		mg/Kg		86	71 - 130
Dichlorodifluoromethane	0.0500	0.05513		mg/Kg		110	12 - 144
Ethylbenzene	0.0500	0.05077		mg/Kg		102	80 - 134
Hexachlorobutadiene	0.0500	0.04665		mg/Kg		93	65 - 148
Isopropylbenzene	0.0500	0.05331		mg/Kg		107	80 - 150
Methyl tert-butyl ether	0.0500	0.04646		mg/Kg		93	70 - 136
Methylene Chloride	0.0500	0.04417		mg/Kg		88	68 - 144
Naphthalene	0.0500	0.05013		mg/Kg		100	69 - 150
n-Butylbenzene	0.0500	0.05515		mg/Kg		110	72 - 152
N-Propylbenzene	0.0500	0.05171		mg/Kg		103	75 - 137
p-Isopropyltoluene	0.0500	0.05428		mg/Kg		109	77 - 141
sec-Butylbenzene	0.0500	0.05342		mg/Kg		107	79 - 141
Styrene	0.0500	0.05281		mg/Kg		106	82 - 137
tert-Butylbenzene	0.0500	0.05054		mg/Kg		101	80 - 132
Tetrachloroethene	0.0500	0.04656		mg/Kg		93	78 - 140
Toluene	0.0500	0.04753		mg/Kg		95	80 - 132
trans-1,2-Dichloroethene	0.0500	0.04705		mg/Kg		94	76 - 128
trans-1,3-Dichloropropene	0.0500	0.05145		mg/Kg		103	62 - 139
Trichloroethene	0.0500	0.04519		mg/Kg		90	77 - 127
Trichlorofluoromethane	0.0500	0.05055		mg/Kg		101	50 - 140
Vinyl chloride	0.0500	0.05580		mg/Kg		112	47 - 136
Xylenes, Total	0.100	0.1018		mg/Kg		102	80 - 137
Hexane	0.0500	0.04959		mg/Kg		99	60 - 144

TestAmerica Nashville

# QC Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
 Project/Site: 200 Railroad Ave S Ellensburg WA

TestAmerica Job ID: 490-37112-1

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

**Lab Sample ID: LCS 490-112618/3**

**Matrix: Solid**

**Analysis Batch: 112618**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	95		70 - 130
4-Bromofluorobenzene (Surr)	98		70 - 130
Dibromofluoromethane (Surr)	96		70 - 130
Toluene-d8 (Surr)	103		70 - 130

**Lab Sample ID: LCSD 490-112618/4**

**Matrix: Solid**

**Analysis Batch: 112618**

**Client Sample ID: Lab Control Sample Dup**

**Prep Type: Total/NA**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec.		RPD	Limit
							Limits	RPD		
1,1,1,2-Tetrachloroethane	0.0500	0.04606		mg/Kg		92	80 - 136	0	50	
1,1,1-Trichloroethane	0.0500	0.04590		mg/Kg		92	72 - 140	1	50	
1,1,2,2-Tetrachloroethane	0.0500	0.04535		mg/Kg		91	66 - 134	6	50	
1,1,2-Trichloroethane	0.0500	0.04544		mg/Kg		91	78 - 128	0	50	
1,1-Dichloroethane	0.0500	0.04656		mg/Kg		93	75 - 124	0	50	
1,1-Dichloroethene	0.0500	0.04630		mg/Kg		93	75 - 131	2	50	
1,1-Dichloropropene	0.0500	0.04772		mg/Kg		95	79 - 127	2	50	
1,2,3-Trichlorobenzene	0.0500	0.05054		mg/Kg		101	70 - 150	0	50	
1,2,3-Trichloropropane	0.0500	0.04586		mg/Kg		92	65 - 139	1	50	
1,2,4-Trichlorobenzene	0.0500	0.05441		mg/Kg		109	62 - 150	2	50	
1,2,4-Trimethylbenzene	0.0500	0.05201		mg/Kg		104	77 - 139	0	50	
1,2-Dibromo-3-Chloropropane	0.0500	0.04348		mg/Kg		87	49 - 142	0	50	
1,2-Dibromoethane (EDB)	0.0500	0.04612		mg/Kg		92	80 - 135	0	50	
1,2-Dichlorobenzene	0.0500	0.04773		mg/Kg		95	80 - 134	1	50	
1,2-Dichloroethane	0.0500	0.04340		mg/Kg		87	65 - 134	2	50	
1,2-Dichloropropane	0.0500	0.04740		mg/Kg		95	69 - 120	1	50	
1,3,5-Trimethylbenzene	0.0500	0.05320		mg/Kg		106	78 - 138	2	50	
1,3-Dichlorobenzene	0.0500	0.04941		mg/Kg		99	79 - 137	0	50	
1,3-Dichloropropane	0.0500	0.04657		mg/Kg		93	78 - 126	1	42	
1,4-Dichlorobenzene	0.0500	0.04729		mg/Kg		95	77 - 139	2	50	
2,2-Dichloropropane	0.0500	0.04570		mg/Kg		91	68 - 145	1	50	
2-Butanone (MEK)	0.250	0.2108		mg/Kg		84	61 - 132	2	50	
2-Chlorotoluene	0.0500	0.04962		mg/Kg		99	78 - 132	0	50	
2-Hexanone	0.250	0.2113		mg/Kg		85	57 - 148	1	50	
4-Chlorotoluene	0.0500	0.04903		mg/Kg		98	77 - 138	6	50	
4-Methyl-2-pentanone (MIBK)	0.250	0.2429		mg/Kg		97	59 - 138	1	50	
Acetone	0.250	0.2047		mg/Kg		82	51 - 149	4	50	
Benzene	0.0500	0.04637		mg/Kg		93	75 - 127	2	50	
Bromobenzene	0.0500	0.04743		mg/Kg		95	75 - 130	2	50	
Bromochloromethane	0.0500	0.04564		mg/Kg		91	70 - 132	2	50	
Bromodichloromethane	0.0500	0.04669		mg/Kg		93	68 - 135	2	50	
Bromoform	0.0500	0.04688		mg/Kg		94	36 - 150	2	50	
Bromomethane	0.0500	0.05349	E	mg/Kg		107	43 - 142	6	50	
Carbon disulfide	0.0500	0.04634		mg/Kg		93	74 - 135	2	50	
Carbon tetrachloride	0.0500	0.04609		mg/Kg		92	70 - 141	1	50	
Chlorobenzene	0.0500	0.04683		mg/Kg		94	84 - 125	1	50	
Chlorodibromomethane	0.0500	0.04772		mg/Kg		95	66 - 134	1	50	
Chloroethane	0.0500	0.05271		mg/Kg		105	53 - 144	1	50	

TestAmerica Nashville

# QC Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
Project/Site: 200 Railroad Ave S Ellensburg WA

TestAmerica Job ID: 490-37112-1

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

**Lab Sample ID: LCSD 490-112618/4**

**Matrix: Solid**

**Analysis Batch: 112618**

**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		
Chloroform	0.0500	0.04519		mg/Kg		90	76 - 130	1	49	
Chloromethane	0.0500	0.05810		mg/Kg		116	23 - 150	2	50	
cis-1,2-Dichloroethene	0.0500	0.04809		mg/Kg		96	75 - 125	0	50	
cis-1,3-Dichloropropene	0.0500	0.05028		mg/Kg		101	73 - 148	1	50	
Dibromomethane	0.0500	0.04386		mg/Kg		88	71 - 130	2	50	
Dichlorodifluoromethane	0.0500	0.05575		mg/Kg		112	12 - 144	1	50	
Ethylbenzene	0.0500	0.05053		mg/Kg		101	80 - 134	0	50	
Hexachlorobutadiene	0.0500	0.04619		mg/Kg		92	65 - 148	1	50	
Isopropylbenzene	0.0500	0.05251		mg/Kg		105	80 - 150	2	50	
Methyl tert-butyl ether	0.0500	0.04642		mg/Kg		93	70 - 136	0	50	
Methylene Chloride	0.0500	0.04520		mg/Kg		90	68 - 144	2	50	
Naphthalene	0.0500	0.05093		mg/Kg		102	69 - 150	2	50	
n-Butylbenzene	0.0500	0.05477		mg/Kg		110	72 - 152	1	50	
N-Propylbenzene	0.0500	0.05190		mg/Kg		104	75 - 137	0	50	
p-Isopropyltoluene	0.0500	0.05419		mg/Kg		108	77 - 141	0	50	
sec-Butylbenzene	0.0500	0.05316		mg/Kg		106	79 - 141	0	50	
Styrene	0.0500	0.05226		mg/Kg		105	82 - 137	1	50	
tert-Butylbenzene	0.0500	0.05061		mg/Kg		101	80 - 132	0	50	
Tetrachloroethene	0.0500	0.04588		mg/Kg		92	78 - 140	1	50	
Toluene	0.0500	0.04747		mg/Kg		95	80 - 132	0	50	
trans-1,2-Dichloroethene	0.0500	0.04838		mg/Kg		97	76 - 128	3	50	
trans-1,3-Dichloropropene	0.0500	0.05031		mg/Kg		101	62 - 139	2	50	
Trichloroethene	0.0500	0.04526		mg/Kg		91	77 - 127	0	50	
Trichlorofluoromethane	0.0500	0.04922		mg/Kg		98	50 - 140	3	50	
Vinyl chloride	0.0500	0.05749		mg/Kg		115	47 - 136	3	50	
Xylenes, Total	0.100	0.1020		mg/Kg		102	80 - 137	0	50	
Hexane	0.0500	0.04989		mg/Kg		100	60 - 144	1	50	

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	97		70 - 130
4-Bromofluorobenzene (Surr)	98		70 - 130
Dibromofluoromethane (Surr)	96		70 - 130
Toluene-d8 (Surr)	104		70 - 130

**Lab Sample ID: 490-37241-A-2-D MS**

**Matrix: Solid**

**Analysis Batch: 112963**

**Client Sample ID: Matrix Spike**

**Prep Type: Total/NA**

**Prep Batch: 112944**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS		Unit	D	%Rec	%Rec. Limits	
				Result	Qualifier				RPD	Limit
1,1,1,2-Tetrachloroethane	ND		0.0540	0.03251		mg/Kg	*	60	19 - 158	
1,1,1-Trichloroethane	ND		0.0540	0.04200		mg/Kg	*	78	35 - 149	
1,1,2,2-Tetrachloroethane	ND		0.0540	0.02359		mg/Kg	*	44	10 - 162	
1,1,2-Trichloroethane	ND		0.0540	0.02964		mg/Kg	*	55	19 - 157	
1,1-Dichloroethane	ND		0.0540	0.04239		mg/Kg	*	79	42 - 136	
1,1-Dichloroethene	ND		0.0540	0.04254		mg/Kg	*	79	41 - 143	
1,1-Dichloropropene	ND		0.0540	0.04123		mg/Kg	*	76	38 - 145	
1,2,3-Trichlorobenzene	ND		0.0540	0.008347		mg/Kg	*	15	10 - 157	
1,2,3-Trichloropropane	ND		0.0540	0.02321		mg/Kg	*	43	10 - 157	

TestAmerica Nashville

# QC Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
 Project/Site: 200 Railroad Ave S Ellensburg WA

TestAmerica Job ID: 490-37112-1

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

**Lab Sample ID: 490-37241-A-2-D MS**

**Matrix: Solid**

**Analysis Batch: 112963**

**Client Sample ID: Matrix Spike**

**Prep Type: Total/NA**

**Prep Batch: 112944**

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec. Limits
	Result	Qualifier	Added	Result	Qualifier				
1,2,4-Trichlorobenzene	ND		0.0540	0.01075		mg/Kg	*	20	10 - 167
1,2,4-Trimethylbenzene	ND		0.0540	0.02798		mg/Kg	*	49	14 - 165
1,2-Dibromo-3-Chloropropane	ND		0.0540	0.01488		mg/Kg	*	28	10 - 147
1,2-Dibromoethane (EDB)	ND		0.0540	0.02710		mg/Kg	*	50	18 - 156
1,2-Dichlorobenzene	ND		0.0540	0.01983		mg/Kg	*	37	10 - 160
1,2-Dichloroethane	ND		0.0540	0.03064		mg/Kg	*	57	28 - 138
1,2-Dichloropropane	ND		0.0540	0.03714		mg/Kg	*	69	20 - 146
1,3,5-Trimethylbenzene	ND		0.0540	0.03116		mg/Kg	*	58	18 - 164
1,3-Dichlorobenzene	ND		0.0540	0.02400		mg/Kg	*	44	10 - 162
1,3-Dichloropropane	ND		0.0540	0.02959		mg/Kg	*	55	22 - 148
1,4-Dichlorobenzene	ND		0.0540	0.02151		mg/Kg	*	40	11 - 159
2,2-Dichloropropane	ND		0.0540	0.04031		mg/Kg	*	75	33 - 148
2-Butanone (MEK)	ND		0.270	0.1352		mg/Kg	*	50	18 - 153
2-Chlorotoluene	ND		0.0540	0.03053		mg/Kg	*	57	20 - 156
2-Hexanone	ND		0.270	0.09807		mg/Kg	*	36	10 - 169
4-Chlorotoluene	ND		0.0540	0.03046		mg/Kg	*	56	17 - 159
4-Methyl-2-pentanone (MIBK)	ND		0.270	0.1341		mg/Kg	*	50	10 - 168
Acetone	ND		0.270	0.1541		mg/Kg	*	57	19 - 175
Benzene	ND		0.0540	0.03834		mg/Kg	*	71	31 - 143
Bromobenzene	ND		0.0540	0.02539		mg/Kg	*	47	12 - 157
Bromochloromethane	ND		0.0540	0.03313		mg/Kg	*	61	31 - 141
Bromodichloromethane	ND		0.0540	0.03355		mg/Kg	*	62	19 - 148
Bromoform	ND		0.0540	0.02223		mg/Kg	*	41	10 - 165
Bromomethane	ND		0.0540	0.04884		mg/Kg	*	91	10 - 164
Carbon disulfide	ND		0.0540	0.04274		mg/Kg	*	79	32 - 144
Carbon tetrachloride	ND		0.0540	0.04090		mg/Kg	*	76	31 - 149
Chlorobenzene	ND		0.0540	0.03104		mg/Kg	*	58	25 - 152
Chlorodibromomethane	ND		0.0540	0.02918		mg/Kg	*	54	14 - 146
Chloroethane	ND		0.0540	0.04980		mg/Kg	*	92	10 - 151
Chloroform	ND		0.0540	0.03799		mg/Kg	*	70	34 - 160
Chloromethane	ND		0.0540	0.05906		mg/Kg	*	109	10 - 156
cis-1,2-Dichloroethene	ND		0.0540	0.03857		mg/Kg	*	71	36 - 139
cis-1,3-Dichloropropene	ND		0.0540	0.03411		mg/Kg	*	63	15 - 166
Dibromomethane	ND		0.0540	0.02884		mg/Kg	*	53	20 - 146
Dichlorodifluoromethane	ND		0.0540	0.06949		mg/Kg	*	129	10 - 143
Ethylbenzene	ND		0.0540	0.03724		mg/Kg	*	69	23 - 161
Hexachlorobutadiene	ND		0.0540	0.01926		mg/Kg	*	36	10 - 171
Isopropylbenzene	ND		0.0540	0.03574		mg/Kg	*	66	23 - 181
Methyl tert-butyl ether	ND		0.0540	0.02982		mg/Kg	*	55	28 - 141
Methylene Chloride	ND		0.0540	0.03876		mg/Kg	*	64	24 - 182
Naphthalene	ND		0.0540	ND	F	mg/Kg	*	9	10 - 176
n-Butylbenzene	ND		0.0540	0.02763		mg/Kg	*	51	10 - 175
N-Propylbenzene	ND		0.0540	0.03452		mg/Kg	*	64	19 - 162
p-Isopropyltoluene	ND		0.0540	0.03061		mg/Kg	*	57	12 - 168
sec-Butylbenzene	ND		0.0540	0.03182		mg/Kg	*	59	12 - 170
Styrene	ND		0.0540	0.02363		mg/Kg	*	44	10 - 165
tert-Butylbenzene	ND		0.0540	0.03233		mg/Kg	*	60	20 - 164
Tetrachloroethene	ND		0.0540	0.03760		mg/Kg	*	70	33 - 161

TestAmerica Nashville

# QC Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
Project/Site: 200 Railroad Ave S Ellensburg WA

TestAmerica Job ID: 490-37112-1

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

**Lab Sample ID: 490-37241-A-2-D MS**

**Matrix: Solid**

**Analysis Batch: 112963**

**Client Sample ID: Matrix Spike**

**Prep Type: Total/NA**

**Prep Batch: 112944**

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec. Limits
	Result	Qualifier	Added	Result	Qualifier				
Toluene	ND		0.0540	0.03815		mg/Kg	☼	71	30 - 155
trans-1,2-Dichloroethene	ND		0.0540	0.04293		mg/Kg	☼	80	39 - 140
trans-1,3-Dichloropropene	ND		0.0540	0.03019		mg/Kg	☼	56	10 - 157
Trichloroethene	ND		0.0540	0.03794		mg/Kg	☼	70	27 - 153
Trichlorofluoromethane	ND		0.0540	0.04910		mg/Kg	☼	91	25 - 140
Vinyl chloride	ND		0.0540	0.05769		mg/Kg	☼	107	20 - 141
Xylenes, Total	ND		0.108	0.06908		mg/Kg	☼	64	25 - 162
<b>MS MS</b>									
Surrogate	%Recovery	Qualifier	Limits						
1,2-Dichloroethane-d4 (Surr)	101		70 - 130						
4-Bromofluorobenzene (Surr)	105		70 - 130						
Dibromofluoromethane (Surr)	96		70 - 130						
Toluene-d8 (Surr)	106		70 - 130						

**Lab Sample ID: 490-37241-A-2-E MSD**

**Matrix: Solid**

**Analysis Batch: 112963**

**Client Sample ID: Matrix Spike Duplicate**

**Prep Type: Total/NA**

**Prep Batch: 112944**

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
	Result	Qualifier	Added	Result	Qualifier						
1,1,1,2-Tetrachloroethane	ND		0.0599	0.06037	F	mg/Kg	☼	101	19 - 158	60	50
1,1,1-Trichloroethane	ND		0.0599	0.06108		mg/Kg	☼	102	35 - 149	37	50
1,1,1,2-Tetrachloroethane	ND		0.0599	0.06274	F	mg/Kg	☼	105	10 - 162	91	50
1,1,2-Trichloroethane	ND		0.0599	0.06025	E F	mg/Kg	☼	101	19 - 157	68	50
1,1-Dichloroethane	ND		0.0599	0.06479		mg/Kg	☼	108	42 - 136	42	50
1,1-Dichloroethene	ND		0.0599	0.06036		mg/Kg	☼	101	41 - 143	35	50
1,1-Dichloropropene	ND		0.0599	0.06044		mg/Kg	☼	101	38 - 145	38	50
1,2,3-Trichlorobenzene	ND		0.0599	0.01986	F	mg/Kg	☼	33	10 - 157	82	50
1,2,3-Trichloropropane	ND		0.0599	0.06182	F	mg/Kg	☼	103	10 - 157	91	50
1,2,4-Trichlorobenzene	ND		0.0599	0.02419	F	mg/Kg	☼	40	10 - 167	77	50
1,2,4-Trimethylbenzene	ND		0.0599	0.06186	F	mg/Kg	☼	101	14 - 165	75	50
1,2-Dibromo-3-Chloropropane	ND		0.0599	0.04490	F	mg/Kg	☼	75	10 - 147	100	50
1,2-Dibromoethane (EDB)	ND		0.0599	0.05939	F	mg/Kg	☼	99	18 - 156	75	50
1,2-Dichlorobenzene	ND		0.0599	0.04634	F	mg/Kg	☼	77	10 - 160	80	50
1,2-Dichloroethane	ND		0.0599	0.05836	F	mg/Kg	☼	97	28 - 138	62	50
1,2-Dichloropropane	ND		0.0599	0.06374	F	mg/Kg	☼	106	20 - 146	53	50
1,3,5-Trimethylbenzene	ND		0.0599	0.06416	F	mg/Kg	☼	107	18 - 164	69	50
1,3-Dichlorobenzene	ND		0.0599	0.05211	F	mg/Kg	☼	87	10 - 162	74	50
1,3-Dichloropropane	ND		0.0599	0.06102	F	mg/Kg	☼	102	22 - 148	69	42
1,4-Dichlorobenzene	ND		0.0599	0.05041	F	mg/Kg	☼	84	11 - 159	80	50
2,2-Dichloropropane	ND		0.0599	0.05963		mg/Kg	☼	99	33 - 148	39	50
2-Butanone (MEK)	ND		0.300	0.2798	F	mg/Kg	☼	93	18 - 153	70	50
2-Chlorotoluene	ND		0.0599	0.06265	F	mg/Kg	☼	105	20 - 156	69	50
2-Hexanone	ND		0.300	0.2436	F	mg/Kg	☼	81	10 - 169	85	50
4-Chlorotoluene	ND		0.0599	0.06326	F	mg/Kg	☼	106	17 - 159	70	50
4-Methyl-2-pentanone (MIBK)	ND		0.300	0.3250	F	mg/Kg	☼	108	10 - 168	83	50
Acetone	ND		0.300	0.2971	F	mg/Kg	☼	99	19 - 175	63	50
Benzene	ND		0.0599	0.06153		mg/Kg	☼	103	31 - 143	46	50
Bromobenzene	ND		0.0599	0.06075	F	mg/Kg	☼	101	12 - 157	82	50

TestAmerica Nashville

# QC Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
Project/Site: 200 Railroad Ave S Ellensburg WA

TestAmerica Job ID: 490-37112-1

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

**Lab Sample ID: 490-37241-A-2-E MSD**

**Matrix: Solid**

**Analysis Batch: 112963**

**Client Sample ID: Matrix Spike Duplicate**

**Prep Type: Total/NA**

**Prep Batch: 112944**

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier				Limits		
Bromochloromethane	ND		0.0599	0.06172	F	mg/Kg	*	103	31 - 141	60	50
Bromodichloromethane	ND		0.0599	0.06262	F	mg/Kg	*	104	19 - 148	60	50
Bromoform	ND		0.0599	0.05534	F	mg/Kg	*	92	10 - 165	85	50
Bromomethane	ND		0.0599	0.07200	E	mg/Kg	*	120	10 - 164	38	50
Carbon disulfide	ND		0.0599	0.06053		mg/Kg	*	101	32 - 144	34	50
Carbon tetrachloride	ND		0.0599	0.06073		mg/Kg	*	101	31 - 149	39	50
Chlorobenzene	ND		0.0599	0.05756	F	mg/Kg	*	96	25 - 152	60	50
Chlorodibromomethane	ND		0.0599	0.06225	F	mg/Kg	*	104	14 - 146	72	50
Chloroethane	ND		0.0599	0.07289		mg/Kg	*	122	10 - 151	38	50
Chloroform	ND		0.0599	0.06139		mg/Kg	*	102	34 - 160	47	49
Chloromethane	ND		0.0599	0.08228		mg/Kg	*	137	10 - 156	33	50
cis-1,2-Dichloroethene	ND		0.0599	0.06306		mg/Kg	*	105	36 - 139	48	50
cis-1,3-Dichloropropene	ND		0.0599	0.06555	F	mg/Kg	*	109	15 - 166	63	50
Dibromomethane	ND		0.0599	0.05827	F	mg/Kg	*	97	20 - 146	68	50
Dichlorodifluoromethane	ND		0.0599	0.09330	F	mg/Kg	*	156	10 - 143	29	50
Ethylbenzene	ND		0.0599	0.06324	F	mg/Kg	*	106	23 - 161	52	50
Hexachlorobutadiene	ND		0.0599	0.04281	F	mg/Kg	*	71	10 - 171	76	50
Isopropylbenzene	ND		0.0599	0.06178	F	mg/Kg	*	103	23 - 181	53	50
Methyl tert-butyl ether	ND		0.0599	0.06143	F	mg/Kg	*	102	28 - 141	69	50
Methylene Chloride	ND		0.0599	0.06450		mg/Kg	*	101	24 - 182	50	50
Naphthalene	ND		0.0599	0.01117	F	mg/Kg	*	19	10 - 176	82	50
n-Butylbenzene	ND		0.0599	0.05805	F	mg/Kg	*	97	10 - 175	71	50
N-Propylbenzene	ND		0.0599	0.06878	F	mg/Kg	*	115	19 - 162	66	50
p-Isopropyltoluene	ND		0.0599	0.06460	F	mg/Kg	*	108	12 - 168	71	50
sec-Butylbenzene	ND		0.0599	0.06480	F	mg/Kg	*	108	12 - 170	68	50
Styrene	ND		0.0599	0.04204	F	mg/Kg	*	70	10 - 165	56	50
tert-Butylbenzene	ND		0.0599	0.06462	F	mg/Kg	*	108	20 - 164	67	50
Tetrachloroethene	ND		0.0599	0.05905		mg/Kg	*	99	33 - 161	44	50
Toluene	ND		0.0599	0.06210		mg/Kg	*	104	30 - 155	48	50
trans-1,2-Dichloroethene	ND		0.0599	0.06398		mg/Kg	*	107	39 - 140	39	50
trans-1,3-Dichloropropene	ND		0.0599	0.06291	F	mg/Kg	*	105	10 - 157	70	50
Trichloroethene	ND		0.0599	0.05830		mg/Kg	*	97	27 - 153	42	50
Trichlorofluoromethane	ND		0.0599	0.06958		mg/Kg	*	116	25 - 140	35	50
Vinyl chloride	ND		0.0599	0.08053		mg/Kg	*	134	20 - 141	33	50
Xylenes, Total	ND		0.120	0.1226	F	mg/Kg	*	102	25 - 162	56	50

Surrogate	MSD	MSD	Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	100		70 - 130
4-Bromofluorobenzene (Surr)	110		70 - 130
Dibromofluoromethane (Surr)	100		70 - 130
Toluene-d8 (Surr)	106		70 - 130

**Lab Sample ID: MB 490-112963/6**

**Matrix: Solid**

**Analysis Batch: 112963**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil	Fac
	Result	Qualifier								
1,1,1,2-Tetrachloroethane	ND		0.100		mg/Kg			10/09/13 12:32		1

TestAmerica Nashville



# QC Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
 Project/Site: 200 Railroad Ave S Ellensburg WA

TestAmerica Job ID: 490-37112-1

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

**Lab Sample ID: MB 490-112963/6**

**Matrix: Solid**

**Analysis Batch: 112963**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,1,1-Trichloroethane	ND		0.100		mg/Kg			10/09/13 12:32	1
1,1,2,2-Tetrachloroethane	ND		0.100		mg/Kg			10/09/13 12:32	1
1,1,2-Trichloroethane	ND		0.250		mg/Kg			10/09/13 12:32	1
1,1-Dichloroethane	ND		0.100		mg/Kg			10/09/13 12:32	1
1,1-Dichloroethene	ND		0.100		mg/Kg			10/09/13 12:32	1
1,1-Dichloropropene	ND		0.100		mg/Kg			10/09/13 12:32	1
1,2,3-Trichlorobenzene	ND		0.100		mg/Kg			10/09/13 12:32	1
1,2,3-Trichloropropane	ND		0.100		mg/Kg			10/09/13 12:32	1
1,2,4-Trichlorobenzene	ND		0.100		mg/Kg			10/09/13 12:32	1
1,2,4-Trimethylbenzene	ND		0.100		mg/Kg			10/09/13 12:32	1
1,2-Dibromo-3-Chloropropane	ND		0.250		mg/Kg			10/09/13 12:32	1
1,2-Dibromoethane (EDB)	ND		0.100		mg/Kg			10/09/13 12:32	1
1,2-Dichlorobenzene	ND		0.100		mg/Kg			10/09/13 12:32	1
1,2-Dichloroethane	ND		0.100		mg/Kg			10/09/13 12:32	1
1,2-Dichloropropane	ND		0.100		mg/Kg			10/09/13 12:32	1
1,3,5-Trimethylbenzene	ND		0.100		mg/Kg			10/09/13 12:32	1
1,3-Dichlorobenzene	ND		0.100		mg/Kg			10/09/13 12:32	1
1,3-Dichloropropane	ND		0.100		mg/Kg			10/09/13 12:32	1
1,4-Dichlorobenzene	ND		0.100		mg/Kg			10/09/13 12:32	1
2,2-Dichloropropane	ND		0.100		mg/Kg			10/09/13 12:32	1
2-Butanone (MEK)	ND		2.50		mg/Kg			10/09/13 12:32	1
2-Chlorotoluene	ND		0.100		mg/Kg			10/09/13 12:32	1
2-Hexanone	ND		2.50		mg/Kg			10/09/13 12:32	1
4-Chlorotoluene	ND		0.100		mg/Kg			10/09/13 12:32	1
4-Methyl-2-pentanone (MIBK)	ND		2.50		mg/Kg			10/09/13 12:32	1
Acetone	ND		2.50		mg/Kg			10/09/13 12:32	1
Benzene	ND		0.100		mg/Kg			10/09/13 12:32	1
Bromobenzene	ND		0.100		mg/Kg			10/09/13 12:32	1
Bromochloromethane	ND		0.100		mg/Kg			10/09/13 12:32	1
Bromodichloromethane	ND		0.100		mg/Kg			10/09/13 12:32	1
Bromoform	ND		0.100		mg/Kg			10/09/13 12:32	1
Bromomethane	ND		0.100		mg/Kg			10/09/13 12:32	1
Carbon disulfide	ND		0.250		mg/Kg			10/09/13 12:32	1
Carbon tetrachloride	ND		0.100		mg/Kg			10/09/13 12:32	1
Chlorobenzene	ND		0.100		mg/Kg			10/09/13 12:32	1
Chlorodibromomethane	ND		0.100		mg/Kg			10/09/13 12:32	1
Chloroethane	ND		0.250		mg/Kg			10/09/13 12:32	1
Chloroform	ND		0.100		mg/Kg			10/09/13 12:32	1
Chloromethane	ND		0.100		mg/Kg			10/09/13 12:32	1
cis-1,2-Dichloroethene	ND		0.100		mg/Kg			10/09/13 12:32	1
cis-1,3-Dichloropropene	ND		0.100		mg/Kg			10/09/13 12:32	1
Dibromomethane	ND		0.100		mg/Kg			10/09/13 12:32	1
Dichlorodifluoromethane	ND		0.100		mg/Kg			10/09/13 12:32	1
Ethylbenzene	ND		0.100		mg/Kg			10/09/13 12:32	1
Hexachlorobutadiene	ND		0.250		mg/Kg			10/09/13 12:32	1
Isopropylbenzene	ND		0.100		mg/Kg			10/09/13 12:32	1
Methyl tert-butyl ether	ND		0.100		mg/Kg			10/09/13 12:32	1
Methylene Chloride	ND		0.500		mg/Kg			10/09/13 12:32	1

TestAmerica Nashville

# QC Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
 Project/Site: 200 Railroad Ave S Ellensburg WA

TestAmerica Job ID: 490-37112-1

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

**Lab Sample ID: MB 490-112963/6**

**Matrix: Solid**

**Analysis Batch: 112963**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		0.250		mg/Kg			10/09/13 12:32	1
n-Butylbenzene	ND		0.100		mg/Kg			10/09/13 12:32	1
N-Propylbenzene	ND		0.100		mg/Kg			10/09/13 12:32	1
p-Isopropyltoluene	ND		0.100		mg/Kg			10/09/13 12:32	1
sec-Butylbenzene	ND		0.100		mg/Kg			10/09/13 12:32	1
Styrene	ND		0.100		mg/Kg			10/09/13 12:32	1
tert-Butylbenzene	ND		0.100		mg/Kg			10/09/13 12:32	1
Tetrachloroethene	ND		0.100		mg/Kg			10/09/13 12:32	1
Toluene	ND		0.100		mg/Kg			10/09/13 12:32	1
trans-1,2-Dichloroethene	ND		0.100		mg/Kg			10/09/13 12:32	1
trans-1,3-Dichloropropene	ND		0.100		mg/Kg			10/09/13 12:32	1
Trichloroethene	ND		0.100		mg/Kg			10/09/13 12:32	1
Trichlorofluoromethane	ND		0.100		mg/Kg			10/09/13 12:32	1
Vinyl chloride	ND		0.100		mg/Kg			10/09/13 12:32	1
Xylenes, Total	ND		0.150		mg/Kg			10/09/13 12:32	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	91		70 - 130		10/09/13 12:32	1
4-Bromofluorobenzene (Surr)	102		70 - 130		10/09/13 12:32	1
Dibromofluoromethane (Surr)	97		70 - 130		10/09/13 12:32	1
Toluene-d8 (Surr)	107		70 - 130		10/09/13 12:32	1

**Lab Sample ID: MB 490-112963/7**

**Matrix: Solid**

**Analysis Batch: 112963**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.00200		mg/Kg			10/09/13 13:02	1
1,1,1-Trichloroethane	ND		0.00200		mg/Kg			10/09/13 13:02	1
1,1,2,2-Tetrachloroethane	ND		0.00200		mg/Kg			10/09/13 13:02	1
1,1,2-Trichloroethane	ND		0.00500		mg/Kg			10/09/13 13:02	1
1,1-Dichloroethane	ND		0.00200		mg/Kg			10/09/13 13:02	1
1,1-Dichloroethene	ND		0.00200		mg/Kg			10/09/13 13:02	1
1,1-Dichloropropene	ND		0.00200		mg/Kg			10/09/13 13:02	1
1,2,3-Trichlorobenzene	ND		0.00200		mg/Kg			10/09/13 13:02	1
1,2,3-Trichloropropane	ND		0.00200		mg/Kg			10/09/13 13:02	1
1,2,4-Trichlorobenzene	ND		0.00200		mg/Kg			10/09/13 13:02	1
1,2,4-Trimethylbenzene	ND		0.00200		mg/Kg			10/09/13 13:02	1
1,2-Dibromo-3-Chloropropane	ND		0.00500		mg/Kg			10/09/13 13:02	1
1,2-Dibromoethane (EDB)	ND		0.00200		mg/Kg			10/09/13 13:02	1
1,2-Dichlorobenzene	ND		0.00200		mg/Kg			10/09/13 13:02	1
1,2-Dichloroethane	ND		0.00200		mg/Kg			10/09/13 13:02	1
1,2-Dichloropropane	ND		0.00200		mg/Kg			10/09/13 13:02	1
1,3,5-Trimethylbenzene	ND		0.00200		mg/Kg			10/09/13 13:02	1
1,3-Dichlorobenzene	ND		0.00200		mg/Kg			10/09/13 13:02	1
1,3-Dichloropropane	ND		0.00200		mg/Kg			10/09/13 13:02	1
1,4-Dichlorobenzene	ND		0.00200		mg/Kg			10/09/13 13:02	1
2,2-Dichloropropane	ND		0.00200		mg/Kg			10/09/13 13:02	1

TestAmerica Nashville

# QC Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
 Project/Site: 200 Railroad Ave S Ellensburg WA

TestAmerica Job ID: 490-37112-1

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

Lab Sample ID: MB 490-112963/7

Matrix: Solid

Analysis Batch: 112963

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Butanone (MEK)	ND		0.0500		mg/Kg			10/09/13 13:02	1
2-Chlorotoluene	ND		0.00200		mg/Kg			10/09/13 13:02	1
2-Hexanone	ND		0.0500		mg/Kg			10/09/13 13:02	1
4-Chlorotoluene	ND		0.00200		mg/Kg			10/09/13 13:02	1
4-Methyl-2-pentanone (MIBK)	ND		0.0500		mg/Kg			10/09/13 13:02	1
Acetone	ND		0.0500		mg/Kg			10/09/13 13:02	1
Benzene	ND		0.00200		mg/Kg			10/09/13 13:02	1
Bromobenzene	ND		0.00200		mg/Kg			10/09/13 13:02	1
Bromochloromethane	ND		0.00200		mg/Kg			10/09/13 13:02	1
Bromodichloromethane	ND		0.00200		mg/Kg			10/09/13 13:02	1
Bromoform	ND		0.00200		mg/Kg			10/09/13 13:02	1
Bromomethane	ND		0.00200		mg/Kg			10/09/13 13:02	1
Carbon disulfide	ND		0.00500		mg/Kg			10/09/13 13:02	1
Carbon tetrachloride	ND		0.00200		mg/Kg			10/09/13 13:02	1
Chlorobenzene	ND		0.00200		mg/Kg			10/09/13 13:02	1
Chlorodibromomethane	ND		0.00200		mg/Kg			10/09/13 13:02	1
Chloroethane	ND		0.00500		mg/Kg			10/09/13 13:02	1
Chloroform	ND		0.00200		mg/Kg			10/09/13 13:02	1
Chloromethane	ND		0.00200		mg/Kg			10/09/13 13:02	1
cis-1,2-Dichloroethene	ND		0.00200		mg/Kg			10/09/13 13:02	1
cis-1,3-Dichloropropene	ND		0.00200		mg/Kg			10/09/13 13:02	1
Dibromomethane	ND		0.00200		mg/Kg			10/09/13 13:02	1
Dichlorodifluoromethane	ND		0.00200		mg/Kg			10/09/13 13:02	1
Ethylbenzene	ND		0.00200		mg/Kg			10/09/13 13:02	1
Hexachlorobutadiene	ND		0.00500		mg/Kg			10/09/13 13:02	1
Isopropylbenzene	ND		0.00200		mg/Kg			10/09/13 13:02	1
Methyl tert-butyl ether	ND		0.00200		mg/Kg			10/09/13 13:02	1
Methylene Chloride	ND		0.0100		mg/Kg			10/09/13 13:02	1
Naphthalene	ND		0.00500		mg/Kg			10/09/13 13:02	1
n-Butylbenzene	ND		0.00200		mg/Kg			10/09/13 13:02	1
N-Propylbenzene	ND		0.00200		mg/Kg			10/09/13 13:02	1
p-Isopropyltoluene	ND		0.00200		mg/Kg			10/09/13 13:02	1
sec-Butylbenzene	ND		0.00200		mg/Kg			10/09/13 13:02	1
Styrene	ND		0.00200		mg/Kg			10/09/13 13:02	1
tert-Butylbenzene	ND		0.00200		mg/Kg			10/09/13 13:02	1
Tetrachloroethene	ND		0.00200		mg/Kg			10/09/13 13:02	1
Toluene	ND		0.00200		mg/Kg			10/09/13 13:02	1
trans-1,2-Dichloroethene	ND		0.00200		mg/Kg			10/09/13 13:02	1
trans-1,3-Dichloropropene	ND		0.00200		mg/Kg			10/09/13 13:02	1
Trichloroethene	ND		0.00200		mg/Kg			10/09/13 13:02	1
Trichlorofluoromethane	ND		0.00200		mg/Kg			10/09/13 13:02	1
Vinyl chloride	ND		0.00200		mg/Kg			10/09/13 13:02	1
Xylenes, Total	ND		0.00300		mg/Kg			10/09/13 13:02	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	92		70 - 130		10/09/13 13:02	1
4-Bromofluorobenzene (Surr)	100		70 - 130		10/09/13 13:02	1
Dibromofluoromethane (Surr)	97		70 - 130		10/09/13 13:02	1

TestAmerica Nashville

# QC Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
 Project/Site: 200 Railroad Ave S Ellensburg WA

TestAmerica Job ID: 490-37112-1

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

**Lab Sample ID: MB 490-112963/7**

**Matrix: Solid**

**Analysis Batch: 112963**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

Surrogate	MB MB	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	%Recovery Qualifier	70 - 130		10/09/13 13:02	1

**Lab Sample ID: LCS 490-112963/3**

**Matrix: Solid**

**Analysis Batch: 112963**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	0.0500	0.04468		mg/Kg		89	80 - 136
1,1,1-Trichloroethane	0.0500	0.04440		mg/Kg		89	72 - 140
1,1,2,2-Tetrachloroethane	0.0500	0.04357		mg/Kg		87	66 - 134
1,1,2-Trichloroethane	0.0500	0.04515		mg/Kg		90	78 - 128
1,1-Dichloroethane	0.0500	0.04633		mg/Kg		93	75 - 124
1,1-Dichloroethene	0.0500	0.04459		mg/Kg		89	75 - 131
1,1-Dichloropropene	0.0500	0.04661		mg/Kg		93	79 - 127
1,2,3-Trichlorobenzene	0.0500	0.04739		mg/Kg		95	70 - 150
1,2,3-Trichloropropane	0.0500	0.04446		mg/Kg		89	65 - 139
1,2,4-Trichlorobenzene	0.0500	0.05034		mg/Kg		101	62 - 150
1,2,4-Trimethylbenzene	0.0500	0.04966		mg/Kg		99	77 - 139
1,2-Dibromo-3-Chloropropane	0.0500	0.04241		mg/Kg		85	49 - 142
1,2-Dibromoethane (EDB)	0.0500	0.04533		mg/Kg		91	80 - 135
1,2-Dichlorobenzene	0.0500	0.04544		mg/Kg		91	80 - 134
1,2-Dichloroethane	0.0500	0.04170		mg/Kg		83	65 - 134
1,2-Dichloropropane	0.0500	0.04708		mg/Kg		94	69 - 120
1,3,5-Trimethylbenzene	0.0500	0.04950		mg/Kg		99	78 - 138
1,3-Dichlorobenzene	0.0500	0.04725		mg/Kg		95	79 - 137
1,3-Dichloropropane	0.0500	0.04555		mg/Kg		91	78 - 126
1,4-Dichlorobenzene	0.0500	0.04596		mg/Kg		92	77 - 139
2,2-Dichloropropane	0.0500	0.04446		mg/Kg		89	68 - 145
2-Butanone (MEK)	0.250	0.2172		mg/Kg		87	61 - 132
2-Chlorotoluene	0.0500	0.04776		mg/Kg		96	78 - 132
2-Hexanone	0.250	0.2141		mg/Kg		86	57 - 148
4-Chlorotoluene	0.0500	0.05047		mg/Kg		101	77 - 138
4-Methyl-2-pentanone (MIBK)	0.250	0.2434		mg/Kg		97	59 - 138
Acetone	0.250	0.2095		mg/Kg		84	51 - 149
Benzene	0.0500	0.04525		mg/Kg		90	75 - 127
Bromobenzene	0.0500	0.04565		mg/Kg		91	75 - 130
Bromochloromethane	0.0500	0.04372		mg/Kg		87	70 - 132
Bromodichloromethane	0.0500	0.04540		mg/Kg		91	68 - 135
Bromoform	0.0500	0.04502		mg/Kg		90	36 - 150
Bromomethane	0.0500	0.05145	E	mg/Kg		103	43 - 142
Carbon disulfide	0.0500	0.04518		mg/Kg		90	74 - 135
Carbon tetrachloride	0.0500	0.04442		mg/Kg		89	70 - 141
Chlorobenzene	0.0500	0.04521		mg/Kg		90	84 - 125
Chlorodibromomethane	0.0500	0.04653		mg/Kg		93	66 - 134
Chloroethane	0.0500	0.05227		mg/Kg		105	53 - 144
Chloroform	0.0500	0.04406		mg/Kg		88	76 - 130
Chloromethane	0.0500	0.06264		mg/Kg		125	23 - 150
cis-1,2-Dichloroethene	0.0500	0.04788		mg/Kg		96	75 - 125

TestAmerica Nashville

# QC Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
Project/Site: 200 Railroad Ave S Ellensburg WA

TestAmerica Job ID: 490-37112-1

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

**Lab Sample ID: LCS 490-112963/3**

**Matrix: Solid**

**Analysis Batch: 112963**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits	
cis-1,3-Dichloropropene	0.0500	0.04979		mg/Kg		100	73 - 148	
Dibromomethane	0.0500	0.04276		mg/Kg		86	71 - 130	
Dichlorodifluoromethane	0.0500	0.06384		mg/Kg		128	12 - 144	
Ethylbenzene	0.0500	0.04945		mg/Kg		99	80 - 134	
Hexachlorobutadiene	0.0500	0.04192		mg/Kg		84	65 - 148	
Isopropylbenzene	0.0500	0.05082		mg/Kg		102	80 - 150	
Methyl tert-butyl ether	0.0500	0.04560		mg/Kg		91	70 - 136	
Methylene Chloride	0.0500	0.04315		mg/Kg		86	68 - 144	
Naphthalene	0.0500	0.04975		mg/Kg		100	69 - 150	
n-Butylbenzene	0.0500	0.05257		mg/Kg		105	72 - 152	
N-Propylbenzene	0.0500	0.04918		mg/Kg		98	75 - 137	
p-Isopropyltoluene	0.0500	0.05119		mg/Kg		102	77 - 141	
sec-Butylbenzene	0.0500	0.04988		mg/Kg		100	79 - 141	
Styrene	0.0500	0.05118		mg/Kg		102	82 - 137	
tert-Butylbenzene	0.0500	0.04779		mg/Kg		96	80 - 132	
Tetrachloroethene	0.0500	0.04405		mg/Kg		88	78 - 140	
Toluene	0.0500	0.04627		mg/Kg		93	80 - 132	
trans-1,2-Dichloroethene	0.0500	0.04693		mg/Kg		94	76 - 128	
trans-1,3-Dichloropropene	0.0500	0.04947		mg/Kg		99	62 - 139	
Trichloroethene	0.0500	0.04432		mg/Kg		89	77 - 127	
Trichlorofluoromethane	0.0500	0.04858		mg/Kg		97	50 - 140	
Vinyl chloride	0.0500	0.05896		mg/Kg		118	47 - 136	
Xylenes, Total	0.100	0.09788		mg/Kg		98	80 - 137	

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	95		70 - 130
4-Bromofluorobenzene (Surr)	97		70 - 130
Dibromofluoromethane (Surr)	94		70 - 130
Toluene-d8 (Surr)	103		70 - 130

**Lab Sample ID: LCSD 490-112963/4**

**Matrix: Solid**

**Analysis Batch: 112963**

**Client Sample ID: Lab Control Sample Dup**

**Prep Type: Total/NA**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits		RPD	
									RPD	Limit
1,1,1,2-Tetrachloroethane	0.0500	0.04678		mg/Kg		94	80 - 136	5	50	
1,1,1-Trichloroethane	0.0500	0.04610		mg/Kg		92	72 - 140	4	50	
1,1,2,2-Tetrachloroethane	0.0500	0.04587		mg/Kg		92	66 - 134	5	50	
1,1,2-Trichloroethane	0.0500	0.04597		mg/Kg		92	78 - 128	2	50	
1,1-Dichloroethane	0.0500	0.04850		mg/Kg		97	75 - 124	5	50	
1,1-Dichloroethene	0.0500	0.04546		mg/Kg		91	75 - 131	2	50	
1,1-Dichloropropene	0.0500	0.04773		mg/Kg		95	79 - 127	2	50	
1,2,3-Trichlorobenzene	0.0500	0.05161		mg/Kg		103	70 - 150	9	50	
1,2,3-Trichloropropane	0.0500	0.04609		mg/Kg		92	65 - 139	4	50	
1,2,4-Trichlorobenzene	0.0500	0.05283		mg/Kg		106	62 - 150	5	50	
1,2,4-Trimethylbenzene	0.0500	0.05317		mg/Kg		106	77 - 139	7	50	
1,2-Dibromo-3-Chloropropane	0.0500	0.04386		mg/Kg		88	49 - 142	3	50	
1,2-Dibromoethane (EDB)	0.0500	0.04594		mg/Kg		92	80 - 135	1	50	

TestAmerica Nashville

# QC Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
 Project/Site: 200 Railroad Ave S Ellensburg WA

TestAmerica Job ID: 490-37112-1

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

**Lab Sample ID: LCSD 490-112963/4**

**Matrix: Solid**

**Analysis Batch: 112963**

**Client Sample ID: Lab Control Sample Dup**

**Prep Type: Total/NA**

Analyte	Spike	LCSD	LCSD	Unit	D	%Rec	%Rec.	RPD	RPD
	Added	Result	Qualifier				Limits		
1,2-Dichlorobenzene	0.0500	0.04824		mg/Kg		96	80 - 134	6	50
1,2-Dichloroethane	0.0500	0.04382		mg/Kg		88	65 - 134	5	50
1,2-Dichloropropane	0.0500	0.04848		mg/Kg		97	69 - 120	3	50
1,3,5-Trimethylbenzene	0.0500	0.05306		mg/Kg		106	78 - 138	7	50
1,3-Dichlorobenzene	0.0500	0.04997		mg/Kg		100	79 - 137	6	50
1,3-Dichloropropane	0.0500	0.04743		mg/Kg		95	78 - 126	4	42
1,4-Dichlorobenzene	0.0500	0.04932		mg/Kg		99	77 - 139	7	50
2,2-Dichloropropane	0.0500	0.04535		mg/Kg		91	68 - 145	2	50
2-Butanone (MEK)	0.250	0.2177		mg/Kg		87	61 - 132	0	50
2-Chlorotoluene	0.0500	0.05024		mg/Kg		100	78 - 132	5	50
2-Hexanone	0.250	0.2222		mg/Kg		89	57 - 148	4	50
4-Chlorotoluene	0.0500	0.05262		mg/Kg		105	77 - 138	4	50
4-Methyl-2-pentanone (MIBK)	0.250	0.2514		mg/Kg		101	59 - 138	3	50
Acetone	0.250	0.2168		mg/Kg		87	51 - 149	3	50
Benzene	0.0500	0.04676		mg/Kg		94	75 - 127	3	50
Bromobenzene	0.0500	0.04822		mg/Kg		96	75 - 130	5	50
Bromochloromethane	0.0500	0.04505		mg/Kg		90	70 - 132	3	50
Bromodichloromethane	0.0500	0.04676		mg/Kg		94	68 - 135	3	50
Bromoform	0.0500	0.04652		mg/Kg		93	36 - 150	3	50
Bromomethane	0.0500	0.05274	E	mg/Kg		105	43 - 142	2	50
Carbon disulfide	0.0500	0.04643		mg/Kg		93	74 - 135	3	50
Carbon tetrachloride	0.0500	0.04541		mg/Kg		91	70 - 141	2	50
Chlorobenzene	0.0500	0.04701		mg/Kg		94	84 - 125	4	50
Chlorodibromomethane	0.0500	0.04867		mg/Kg		97	66 - 134	4	50
Chloroethane	0.0500	0.05344		mg/Kg		107	53 - 144	2	50
Chloroform	0.0500	0.04498		mg/Kg		90	76 - 130	2	49
Chloromethane	0.0500	0.06296		mg/Kg		126	23 - 150	0	50
cis-1,2-Dichloroethene	0.0500	0.04891		mg/Kg		98	75 - 125	2	50
cis-1,3-Dichloropropene	0.0500	0.05163		mg/Kg		103	73 - 148	4	50
Dibromomethane	0.0500	0.04399		mg/Kg		88	71 - 130	3	50
Dichlorodifluoromethane	0.0500	0.06446		mg/Kg		129	12 - 144	1	50
Ethylbenzene	0.0500	0.05143		mg/Kg		103	80 - 134	4	50
Hexachlorobutadiene	0.0500	0.04499		mg/Kg		90	65 - 148	7	50
Isopropylbenzene	0.0500	0.05336		mg/Kg		107	80 - 150	5	50
Methyl tert-butyl ether	0.0500	0.04676		mg/Kg		94	70 - 136	3	50
Methylene Chloride	0.0500	0.04405		mg/Kg		88	68 - 144	2	50
Naphthalene	0.0500	0.05290		mg/Kg		106	69 - 150	6	50
n-Butylbenzene	0.0500	0.05582		mg/Kg		112	72 - 152	6	50
N-Propylbenzene	0.0500	0.05211		mg/Kg		104	75 - 137	6	50
p-Isopropyltoluene	0.0500	0.05461		mg/Kg		109	77 - 141	6	50
sec-Butylbenzene	0.0500	0.05385		mg/Kg		108	79 - 141	8	50
Styrene	0.0500	0.05302		mg/Kg		106	82 - 137	4	50
tert-Butylbenzene	0.0500	0.05142		mg/Kg		103	80 - 132	7	50
Tetrachloroethene	0.0500	0.04541		mg/Kg		91	78 - 140	3	50
Toluene	0.0500	0.04800		mg/Kg		96	80 - 132	4	50
trans-1,2-Dichloroethene	0.0500	0.04810		mg/Kg		96	76 - 128	2	50
trans-1,3-Dichloropropene	0.0500	0.05089		mg/Kg		102	62 - 139	3	50
Trichloroethene	0.0500	0.04516		mg/Kg		90	77 - 127	2	50

TestAmerica Nashville

# QC Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
 Project/Site: 200 Railroad Ave S Ellensburg WA

TestAmerica Job ID: 490-37112-1

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

Lab Sample ID: LCS D 490-112963/4

Matrix: Solid

Analysis Batch: 112963

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCS D Result	LCS D Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Trichlorofluoromethane	0.0500	0.05101		mg/Kg		102	50 - 140	5	50
Vinyl chloride	0.0500	0.06172		mg/Kg		123	47 - 136	5	50
Xylenes, Total	0.100	0.1028		mg/Kg		103	80 - 137	5	50

Surrogate	LCS D %Recovery	LCS D Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	96		70 - 130
4-Bromofluorobenzene (Surr)	97		70 - 130
Dibromofluoromethane (Surr)	96		70 - 130
Toluene-d8 (Surr)	104		70 - 130

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

Lab Sample ID: MB 490-112600/1-A

Matrix: Solid

Analysis Batch: 112729

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 112600

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.00333		mg/Kg		10/08/13 07:50	10/08/13 20:17	1
Acenaphthylene	ND		0.00333		mg/Kg		10/08/13 07:50	10/08/13 20:17	1
Anthracene	ND		0.00333		mg/Kg		10/08/13 07:50	10/08/13 20:17	1
Benzo[a]anthracene	ND		0.00333		mg/Kg		10/08/13 07:50	10/08/13 20:17	1
Benzo[a]pyrene	ND		0.00333		mg/Kg		10/08/13 07:50	10/08/13 20:17	1
Benzo[b]fluoranthene	ND		0.00333		mg/Kg		10/08/13 07:50	10/08/13 20:17	1
Benzo[g,h,i]perylene	ND		0.00333		mg/Kg		10/08/13 07:50	10/08/13 20:17	1
Benzo[k]fluoranthene	ND		0.00333		mg/Kg		10/08/13 07:50	10/08/13 20:17	1
Chrysene	ND		0.00333		mg/Kg		10/08/13 07:50	10/08/13 20:17	1
Dibenz(a,h)anthracene	ND		0.00333		mg/Kg		10/08/13 07:50	10/08/13 20:17	1
Fluorene	ND		0.00333		mg/Kg		10/08/13 07:50	10/08/13 20:17	1
Fluoranthene	ND		0.00333		mg/Kg		10/08/13 07:50	10/08/13 20:17	1
Indeno[1,2,3-cd]pyrene	ND		0.00333		mg/Kg		10/08/13 07:50	10/08/13 20:17	1
Naphthalene	ND		0.00333		mg/Kg		10/08/13 07:50	10/08/13 20:17	1
Phenanthrene	ND		0.00333		mg/Kg		10/08/13 07:50	10/08/13 20:17	1
Pyrene	ND		0.00333		mg/Kg		10/08/13 07:50	10/08/13 20:17	1
1-Methylnaphthalene	ND		0.00333		mg/Kg		10/08/13 07:50	10/08/13 20:17	1
2-Methylnaphthalene	ND		0.00333		mg/Kg		10/08/13 07:50	10/08/13 20:17	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Terphenyl-d14	84		13 - 120	10/08/13 07:50	10/08/13 20:17	1
Nitrobenzene-d5	63		27 - 120	10/08/13 07:50	10/08/13 20:17	1
2-Fluorobiphenyl (Surr)	68		29 - 120	10/08/13 07:50	10/08/13 20:17	1

Lab Sample ID: LCS 490-112600/2-A

Matrix: Solid

Analysis Batch: 112729

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 112600

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	0.0333	0.02754		mg/Kg		83	36 - 120

TestAmerica Nashville

# QC Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
Project/Site: 200 Railroad Ave S Ellensburg WA

TestAmerica Job ID: 490-37112-1

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

**Lab Sample ID: LCS 490-112600/2-A**

**Matrix: Solid**

**Analysis Batch: 112729**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

**Prep Batch: 112600**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits	
Acenaphthylene	0.0333	0.02726		mg/Kg		82	38 - 120	
Anthracene	0.0333	0.02913		mg/Kg		87	46 - 124	
Benzo[a]anthracene	0.0333	0.03086		mg/Kg		93	45 - 120	
Benzo[a]pyrene	0.0333	0.02984		mg/Kg		90	45 - 120	
Benzo[b]fluoranthene	0.0333	0.03083		mg/Kg		93	42 - 120	
Benzo[g,h,i]perylene	0.0333	0.03440		mg/Kg		103	38 - 120	
Benzo[k]fluoranthene	0.0333	0.03165		mg/Kg		95	42 - 120	
Chrysene	0.0333	0.03181		mg/Kg		95	43 - 120	
Dibenz(a,h)anthracene	0.0333	0.03698		mg/Kg		111	32 - 128	
Fluorene	0.0333	0.02874		mg/Kg		86	42 - 120	
Fluoranthene	0.0333	0.03085		mg/Kg		93	46 - 120	
Indeno[1,2,3-cd]pyrene	0.0333	0.03377		mg/Kg		101	41 - 121	
Naphthalene	0.0333	0.02652		mg/Kg		80	32 - 120	
Phenanthrene	0.0333	0.02934		mg/Kg		88	45 - 120	
Pyrene	0.0333	0.03050		mg/Kg		91	43 - 120	
1-Methylnaphthalene	0.0333	0.02712		mg/Kg		81	32 - 120	
2-Methylnaphthalene	0.0333	0.02717		mg/Kg		82	28 - 120	

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
Terphenyl-d14	82		13 - 120
Nitrobenzene-d5	66		27 - 120
2-Fluorobiphenyl (Surr)	65		29 - 120

**Lab Sample ID: 490-37096-F-7-B MS**

**Matrix: Solid**

**Analysis Batch: 112729**

**Client Sample ID: Matrix Spike**

**Prep Type: Total/NA**

**Prep Batch: 112600**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits	
Acenaphthene	ND		0.0368	0.02747		mg/Kg	☼	75	19 - 120	
Acenaphthylene	ND		0.0368	0.02731		mg/Kg	☼	74	25 - 120	
Anthracene	ND		0.0368	0.02813		mg/Kg	☼	77	28 - 125	
Benzo[a]anthracene	ND		0.0368	0.03070		mg/Kg	☼	83	23 - 120	
Benzo[a]pyrene	ND		0.0368	0.02912		mg/Kg	☼	79	15 - 128	
Benzo[b]fluoranthene	ND		0.0368	0.02980		mg/Kg	☼	81	12 - 133	
Benzo[g,h,i]perylene	ND		0.0368	0.03038		mg/Kg	☼	83	22 - 120	
Benzo[k]fluoranthene	ND		0.0368	0.02991		mg/Kg	☼	81	28 - 120	
Chrysene	ND		0.0368	0.02978		mg/Kg	☼	81	20 - 120	
Dibenz(a,h)anthracene	ND		0.0368	0.03207		mg/Kg	☼	87	12 - 128	
Fluorene	ND		0.0368	0.02870		mg/Kg	☼	78	20 - 120	
Fluoranthene	ND		0.0368	0.03061		mg/Kg	☼	83	10 - 143	
Indeno[1,2,3-cd]pyrene	ND		0.0368	0.03015		mg/Kg	☼	82	22 - 121	
Naphthalene	ND		0.0368	0.02671		mg/Kg	☼	73	10 - 120	
Phenanthrene	ND		0.0368	0.02968		mg/Kg	☼	81	21 - 122	
Pyrene	ND		0.0368	0.03040		mg/Kg	☼	83	20 - 123	
1-Methylnaphthalene	ND		0.0368	0.02732		mg/Kg	☼	74	10 - 120	
2-Methylnaphthalene	ND		0.0368	0.02763		mg/Kg	☼	75	13 - 120	

TestAmerica Nashville



# QC Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
 Project/Site: 200 Railroad Ave S Ellensburg WA

TestAmerica Job ID: 490-37112-1

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

**Lab Sample ID: 490-37096-F-7-B MS**

**Matrix: Solid**

**Analysis Batch: 112729**

**Client Sample ID: Matrix Spike**

**Prep Type: Total/NA**

**Prep Batch: 112600**

Surrogate	MS MS		Limits
	%Recovery	Qualifier	
Terphenyl-d14	67		13 - 120
Nitrobenzene-d5	58		27 - 120
2-Fluorobiphenyl (Surr)	57		29 - 120

**Lab Sample ID: 490-37096-F-7-C MSD**

**Matrix: Solid**

**Analysis Batch: 112729**

**Client Sample ID: Matrix Spike Duplicate**

**Prep Type: Total/NA**

**Prep Batch: 112600**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD MSD		Unit	D	%Rec	%Rec.		RPD	Limit
				Result	Qualifier				Limits	RPD		
Acenaphthene	ND		0.0370	0.02900		mg/Kg	*	78	19 - 120	5	50	
Acenaphthylene	ND		0.0370	0.02834		mg/Kg	*	77	25 - 120	4	50	
Anthracene	ND		0.0370	0.03100		mg/Kg	*	84	28 - 125	10	49	
Benzo[a]anthracene	ND		0.0370	0.03402		mg/Kg	*	92	23 - 120	10	50	
Benzo[a]pyrene	ND		0.0370	0.03271		mg/Kg	*	88	15 - 128	12	50	
Benzo[b]fluoranthene	ND		0.0370	0.03289		mg/Kg	*	89	12 - 133	10	50	
Benzo[g,h,i]perylene	ND		0.0370	0.03594		mg/Kg	*	97	22 - 120	17	50	
Benzo[k]fluoranthene	ND		0.0370	0.03298		mg/Kg	*	89	28 - 120	10	45	
Chrysene	ND		0.0370	0.03328		mg/Kg	*	90	20 - 120	11	49	
Dibenz(a,h)anthracene	ND		0.0370	0.03808		mg/Kg	*	103	12 - 128	17	50	
Fluorene	ND		0.0370	0.02982		mg/Kg	*	81	20 - 120	4	50	
Fluoranthene	ND		0.0370	0.03350		mg/Kg	*	91	10 - 143	9	50	
Indeno[1,2,3-cd]pyrene	ND		0.0370	0.03550		mg/Kg	*	96	22 - 121	16	50	
Naphthalene	ND		0.0370	0.02728		mg/Kg	*	74	10 - 120	2	50	
Phenanthrene	ND		0.0370	0.03164		mg/Kg	*	86	21 - 122	6	50	
Pyrene	ND		0.0370	0.03387		mg/Kg	*	92	20 - 123	11	50	
1-Methylnaphthalene	ND		0.0370	0.02827		mg/Kg	*	76	10 - 120	3	50	
2-Methylnaphthalene	ND		0.0370	0.02856		mg/Kg	*	77	13 - 120	3	50	

Surrogate	MSD MSD		Limits
	%Recovery	Qualifier	
Terphenyl-d14	74		13 - 120
Nitrobenzene-d5	59		27 - 120
2-Fluorobiphenyl (Surr)	60		29 - 120

## Method: NWTPH/VPH - Northwest - Volatile Petroleum Hydrocarbons (GC)

**Lab Sample ID: MB 490-112591/6**

**Matrix: Solid**

**Analysis Batch: 112591**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
C5-C6 Aliphatics	ND		5.00		mg/Kg			10/08/13 10:12	1
C6-C8 Aliphatics	ND		5.00		mg/Kg			10/08/13 10:12	1
C8-C10 Aliphatics	ND		5.00		mg/Kg			10/08/13 10:12	1
C10-C12 Aliphatics	ND		5.00		mg/Kg			10/08/13 10:12	1
C8-C10 Aromatics	ND		5.00		mg/Kg			10/08/13 10:12	1
C10-C12 Aromatics	ND		5.00		mg/Kg			10/08/13 10:12	1
C12-C13 Aromatics	ND		5.00		mg/Kg			10/08/13 10:12	1

TestAmerica Nashville

# QC Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
 Project/Site: 200 Railroad Ave S Ellensburg WA

TestAmerica Job ID: 490-37112-1

## Method: NWTPH/VPH - Northwest - Volatile Petroleum Hydrocarbons (GC) (Continued)

**Lab Sample ID: MB 490-112591/6**

**Matrix: Solid**

**Analysis Batch: 112591**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
2,5-Dibromotoluene (fid)	107		60 - 140		10/08/13 10:12	1
2,5-Dibromotoluene (pid)	111		60 - 140		10/08/13 10:12	1

**Lab Sample ID: LCS 490-112591/3**

**Matrix: Solid**

**Analysis Batch: 112591**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
C6-C8 Aliphatics	10.0	10.62		mg/Kg		106	70 - 130
C8-C10 Aliphatics	30.0	31.62		mg/Kg		105	70 - 130
C10-C12 Aliphatics	10.0	12.42		mg/Kg		124	70 - 130
C8-C10 Aromatics	25.0	26.25		mg/Kg		105	70 - 130
C10-C12 Aromatics	5.00	5.680		mg/Kg		114	70 - 130
C12-C13 Aromatics	5.00	6.017		mg/Kg		120	70 - 130

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
2,5-Dibromotoluene (fid)	106		60 - 140
2,5-Dibromotoluene (pid)	108		60 - 140

**Lab Sample ID: LCSD 490-112591/4**

**Matrix: Solid**

**Analysis Batch: 112591**

**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
C6-C8 Aliphatics	10.0	9.312		mg/Kg		93	70 - 130	13	25
C8-C10 Aliphatics	30.0	27.72		mg/Kg		92	70 - 130	13	25
C10-C12 Aliphatics	10.0	10.69		mg/Kg		107	70 - 130	15	25
C8-C10 Aromatics	25.0	23.45		mg/Kg		94	70 - 130	11	25
C10-C12 Aromatics	5.00	ND		mg/Kg		100	70 - 130	13	25
C12-C13 Aromatics	5.00	5.228		mg/Kg		105	70 - 130	14	25

Surrogate	LCSD LCSD		Limits
	%Recovery	Qualifier	
2,5-Dibromotoluene (fid)	105		60 - 140
2,5-Dibromotoluene (pid)	108		60 - 140

**Lab Sample ID: 490-37275-J-8-A MS**

**Matrix: Solid**

**Analysis Batch: 113330**

**Client Sample ID: Matrix Spike**

**Prep Type: Total/NA**

**Prep Batch: 113054**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
C10-C12 Aromatics	8.27		1.53	9.685	4	mg/Kg	✱	93	70 - 130
C12-C13 Aromatics	11.0		1.53	9.949	4	mg/Kg	✱	-67	70 - 130

TestAmerica Nashville

# QC Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
 Project/Site: 200 Railroad Ave S Ellensburg WA

TestAmerica Job ID: 490-37112-1

## Method: NWTPH/VPH - Northwest - Volatile Petroleum Hydrocarbons (GC) (Continued)

**Lab Sample ID: 490-37275-J-8-A MS**  
**Matrix: Solid**  
**Analysis Batch: 113330**

**Client Sample ID: Matrix Spike**  
**Prep Type: Total/NA**  
**Prep Batch: 113054**

<i>Surrogate</i>	<i>MS</i> %Recovery	<i>MS</i> Qualifier	<i>Limits</i>
2,5-Dibromotoluene (pid)	114		60 - 140

**Lab Sample ID: 490-37275-J-8-A MSD**  
**Matrix: Solid**  
**Analysis Batch: 113330**

**Client Sample ID: Matrix Spike Duplicate**  
**Prep Type: Total/NA**  
**Prep Batch: 113054**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD		Unit	D	%Rec	%Rec.		RPD	Limit
				Result	Qualifier				Limits	RPD		
C8-C10 Aromatics	7.41		7.64	13.83		mg/Kg	☼	84	70 - 130	16	25	
C10-C12 Aromatics	8.27		1.53	6.793	4 F	mg/Kg	☼	-96	70 - 130	35	25	
C12-C13 Aromatics	11.0		1.53	7.317	4 F	mg/Kg	☼	-239	70 - 130	30	25	

<i>Surrogate</i>	<i>MSD</i> %Recovery	<i>MSD</i> Qualifier	<i>Limits</i>
2,5-Dibromotoluene (pid)	109		60 - 140

**Lab Sample ID: MB 490-113330/6**  
**Matrix: Solid**  
**Analysis Batch: 113330**

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

Analyte	MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
C8-C10 Aromatics	ND		5.00		mg/Kg			10/10/13 14:06	1
C10-C12 Aromatics	ND		5.00		mg/Kg			10/10/13 14:06	1
C12-C13 Aromatics	ND		5.00		mg/Kg			10/10/13 14:06	1

<i>Surrogate</i>	<i>MB</i> %Recovery	<i>MB</i> Qualifier	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
2,5-Dibromotoluene (pid)	110		60 - 140		10/10/13 14:06	1

**Lab Sample ID: LCS 490-113330/3**  
**Matrix: Solid**  
**Analysis Batch: 113330**

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

Analyte	Spike Added	LCS		Unit	D	%Rec	%Rec.	
		Result	Qualifier				Limits	RPD
C8-C10 Aromatics	25.0	24.11		mg/Kg		96	70 - 130	
C10-C12 Aromatics	5.00	5.207		mg/Kg		104	70 - 130	
C12-C13 Aromatics	5.00	5.478		mg/Kg		110	70 - 130	

<i>Surrogate</i>	<i>LCS</i> %Recovery	<i>LCS</i> Qualifier	<i>Limits</i>
2,5-Dibromotoluene (pid)	108		60 - 140

**Lab Sample ID: LCSD 490-113330/4**  
**Matrix: Solid**  
**Analysis Batch: 113330**

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

Analyte	Spike Added	LCSD		Unit	D	%Rec	%Rec.		RPD	Limit
		Result	Qualifier				Limits	RPD		
C8-C10 Aromatics	25.0	26.02		mg/Kg		104	70 - 130	8	25	
C10-C12 Aromatics	5.00	5.582		mg/Kg		112	70 - 130	7	25	
C12-C13 Aromatics	5.00	5.980		mg/Kg		120	70 - 130	9	25	

TestAmerica Nashville

# QC Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
 Project/Site: 200 Railroad Ave S Ellensburg WA

TestAmerica Job ID: 490-37112-1

## Method: NWTPH/VPH - Northwest - Volatile Petroleum Hydrocarbons (GC) (Continued)

Lab Sample ID: LCSD 490-113330/4  
 Matrix: Solid  
 Analysis Batch: 113330

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

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
2,5-Dibromotoluene (pid)	108		60 - 140

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

Lab Sample ID: 490-37096-D-1-A DU  
 Matrix: Solid  
 Analysis Batch: 113587

Client Sample ID: Duplicate  
 Prep Type: Total/NA  
 Prep Batch: 112276

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
C6-C12	ND		ND		mg/Kg	☼	NC	10

Surrogate	DU %Recovery	DU Qualifier	Limits
a,a,a-Trifluorotoluene	92		50 - 150

Lab Sample ID: MB 490-113587/39  
 Matrix: Solid  
 Analysis Batch: 113587

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C12	ND		5.00		mg/Kg			10/12/13 12:30	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	97		50 - 150		10/12/13 12:30	1

Lab Sample ID: LCS 490-113587/64  
 Matrix: Solid  
 Analysis Batch: 113587

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
C6-C12	10.0	9.210		mg/Kg		92	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
a,a,a-Trifluorotoluene	77		50 - 150

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

Lab Sample ID: MB 490-112601/1-A  
 Matrix: Solid  
 Analysis Batch: 113656

Client Sample ID: Method Blank  
 Prep Type: Total/NA  
 Prep Batch: 112601

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.0333		mg/Kg		10/08/13 08:11	10/12/13 09:32	1
PCB-1221	ND		0.0333		mg/Kg		10/08/13 08:11	10/12/13 09:32	1
PCB-1232	ND		0.0333		mg/Kg		10/08/13 08:11	10/12/13 09:32	1
PCB-1242	ND		0.0333		mg/Kg		10/08/13 08:11	10/12/13 09:32	1
PCB-1248	ND		0.0333		mg/Kg		10/08/13 08:11	10/12/13 09:32	1
PCB-1254	ND		0.0333		mg/Kg		10/08/13 08:11	10/12/13 09:32	1

TestAmerica Nashville

# QC Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
 Project/Site: 200 Railroad Ave S Ellensburg WA

TestAmerica Job ID: 490-37112-1

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

**Lab Sample ID: MB 490-112601/1-A**

**Matrix: Solid**

**Analysis Batch: 113656**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

**Prep Batch: 112601**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1260	ND		0.0333		mg/Kg		10/08/13 08:11	10/12/13 09:32	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	103		19 - 147	10/08/13 08:11	10/12/13 09:32	1
DCB Decachlorobiphenyl (Surr)	81		20 - 150	10/08/13 08:11	10/12/13 09:32	1

**Lab Sample ID: LCS 490-112601/2-A**

**Matrix: Solid**

**Analysis Batch: 113656**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

**Prep Batch: 112601**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
PCB-1242	0.167	0.1698		mg/Kg		102	39 - 150

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Tetrachloro-m-xylene	100		19 - 147
DCB Decachlorobiphenyl (Surr)	80		20 - 150

**Lab Sample ID: 490-37104-G-5-C MS**

**Matrix: Solid**

**Analysis Batch: 113656**

**Client Sample ID: Matrix Spike**

**Prep Type: Total/NA**

**Prep Batch: 112601**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
PCB-1242	ND		0.191	0.3202		mg/Kg	☼	168	10 - 168

Surrogate	MS %Recovery	MS Qualifier	Limits
Tetrachloro-m-xylene	98		19 - 147
DCB Decachlorobiphenyl (Surr)	71		20 - 150

**Lab Sample ID: 490-37104-G-5-D MSD**

**Matrix: Solid**

**Analysis Batch: 113656**

**Client Sample ID: Matrix Spike Duplicate**

**Prep Type: Total/NA**

**Prep Batch: 112601**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
PCB-1242	ND		0.192	0.3399	F	mg/Kg	☼	177	10 - 168	6	50

Surrogate	MSD %Recovery	MSD Qualifier	Limits
Tetrachloro-m-xylene	69		19 - 147
DCB Decachlorobiphenyl (Surr)	71		20 - 150

## Method: NWTPH/EPH - Northwest - Extractable Petroleum Hydrocarbons (GC)

**Lab Sample ID: MB 490-112940/1-B**

**Matrix: Solid**

**Analysis Batch: 114024**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

**Prep Batch: 112940**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C8-C10 Aliphatics	ND		5.00		mg/Kg		10/09/13 09:01	10/14/13 09:20	1

TestAmerica Nashville

# QC Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
 Project/Site: 200 Railroad Ave S Ellensburg WA

TestAmerica Job ID: 490-37112-1

## Method: NWTPH/EPH - Northwest - Extractable Petroleum Hydrocarbons (GC) (Continued)

**Lab Sample ID: MB 490-112940/1-B**

**Matrix: Solid**

**Analysis Batch: 114024**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

**Prep Batch: 112940**

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
C10-C12 Aliphatics	ND		5.00		mg/Kg		10/09/13 09:01	10/14/13 09:20	1
C12-C16 Aliphatics	ND		5.00		mg/Kg		10/09/13 09:01	10/14/13 09:20	1
C16-C21 Aliphatics	ND		5.00		mg/Kg		10/09/13 09:01	10/14/13 09:20	1
C21-C34 Aliphatics	ND		5.00		mg/Kg		10/09/13 09:01	10/14/13 09:20	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	80		60 - 140				10/09/13 09:01	10/14/13 09:20	1

**Lab Sample ID: MB 490-112940/1-C**

**Matrix: Solid**

**Analysis Batch: 114023**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

**Prep Batch: 112940**

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
C8-C10 Aromatics	ND		5.00		mg/Kg		10/09/13 09:01	10/14/13 14:53	1
C10-C12 Aromatics	ND		5.00		mg/Kg		10/09/13 09:01	10/14/13 14:53	1
C12-C16 Aromatics	ND		5.00		mg/Kg		10/09/13 09:01	10/14/13 14:53	1
C16-C21 Aromatics	ND		5.00		mg/Kg		10/09/13 09:01	10/14/13 14:53	1
C21-C34 Aromatics	ND		5.00		mg/Kg		10/09/13 09:01	10/14/13 14:53	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
2-Fluorobiphenyl (Surr)	100		60 - 140				10/09/13 09:01	10/14/13 14:53	1
2-Bromonaphthalene	96		60 - 140				10/09/13 09:01	10/14/13 14:53	1
o-Terphenyl	88		60 - 140				10/09/13 09:01	10/14/13 14:53	1

**Lab Sample ID: LCS 490-112940/2-B**

**Matrix: Solid**

**Analysis Batch: 114024**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

**Prep Batch: 112940**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits	
C8-C10 Aliphatics	10.0	5.564		mg/Kg		56	50 - 150	
C10-C12 Aliphatics	5.00	ND		mg/Kg		83	70 - 130	
C12-C16 Aliphatics	10.0	8.329		mg/Kg		83	70 - 130	
C16-C21 Aliphatics	15.0	15.53		mg/Kg		104	70 - 130	
C21-C34 Aliphatics	25.0	23.69		mg/Kg		95	70 - 130	
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>					
1-Chlorooctadecane	76		60 - 140					

**Lab Sample ID: LCS 490-112940/2-C**

**Matrix: Solid**

**Analysis Batch: 114023**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

**Prep Batch: 112940**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits	
C10-C12 Aromatics	5.00	ND		mg/Kg		84	70 - 130	
C12-C16 Aromatics	15.0	13.44		mg/Kg		90	70 - 130	
C16-C21 Aromatics	25.0	21.01		mg/Kg		84	70 - 130	
C21-C34 Aromatics	40.0	33.31		mg/Kg		83	70 - 130	

TestAmerica Nashville

# QC Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
 Project/Site: 200 Railroad Ave S Ellensburg WA

TestAmerica Job ID: 490-37112-1

## Method: NWTPH/EPH - Northwest - Extractable Petroleum Hydrocarbons (GC) (Continued)

**Lab Sample ID:** LCS 490-112940/2-C  
**Matrix:** Solid  
**Analysis Batch:** 114023

**Client Sample ID:** Lab Control Sample  
**Prep Type:** Total/NA  
**Prep Batch:** 112940

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
2-Fluorobiphenyl (Surr)	102		60 - 140
2-Bromonaphthalene	90		60 - 140
o-Terphenyl	86		60 - 140

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

**Lab Sample ID:** MB 490-112949/1-A  
**Matrix:** Solid  
**Analysis Batch:** 112980

**Client Sample ID:** Method Blank  
**Prep Type:** Total/NA  
**Prep Batch:** 112949

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
C10-C24	ND		5.00		mg/Kg		10/09/13 09:22	10/10/13 00:02	1
C24-C40	ND		5.00		mg/Kg		10/09/13 09:22	10/10/13 00:02	1

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
o-Terphenyl	78		50 - 150	10/09/13 09:22	10/10/13 00:02	1

**Lab Sample ID:** LCS 490-112949/2-A  
**Matrix:** Solid  
**Analysis Batch:** 112980

**Client Sample ID:** Lab Control Sample  
**Prep Type:** Total/NA  
**Prep Batch:** 112949

Analyte	Spike Added	LCS LCS		Unit	D	%Rec	%Rec. Limits
		Result	Qualifier				
C10-C24	50.0	44.37		mg/Kg		89	55 - 129

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
o-Terphenyl	90		50 - 150

**Lab Sample ID:** 490-37104-F-5-B DU  
**Matrix:** Solid  
**Analysis Batch:** 112980

**Client Sample ID:** Duplicate  
**Prep Type:** Total/NA  
**Prep Batch:** 112949

Analyte	Sample Sample		DU DU		Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
C10-C24	ND		6.062		mg/Kg	✱	42	50
C24-C40	ND		8.748		mg/Kg	✱	56	50

Surrogate	DU DU		Limits
	%Recovery	Qualifier	
o-Terphenyl	72		50 - 150

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

**Lab Sample ID:** MB 490-114526/1-A  
**Matrix:** Solid  
**Analysis Batch:** 114654

**Client Sample ID:** Method Blank  
**Prep Type:** Total/NA  
**Prep Batch:** 114526

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Lead	ND		0.499		mg/Kg		10/15/13 13:45	10/15/13 16:50	1

TestAmerica Nashville

# QC Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
 Project/Site: 200 Railroad Ave S Ellensburg WA

TestAmerica Job ID: 490-37112-1

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

Lab Sample ID: LCS 490-114526/2-A

Matrix: Solid

Analysis Batch: 114654

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 114526

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits	
Lead	19.3	19.60		mg/Kg		102	80 - 120	

Lab Sample ID: 490-37096-F-7-G MS

Matrix: Solid

Analysis Batch: 114654

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 114526

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits	
Lead	32.0		22.0	44.02	F	mg/Kg	✱	55	75 - 125	

Lab Sample ID: 490-37096-F-7-H MSD

Matrix: Solid

Analysis Batch: 114654

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 114526

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits		RPD	RPD Limit
Lead	32.0		22.3	54.48	F	mg/Kg	✱	101	75 - 125		21	20

## Method: Moisture - Percent Moisture

Lab Sample ID: 490-37104-G-1 DU

Matrix: Solid

Analysis Batch: 112469

Client Sample ID: Duplicate

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Percent Solids	81		80		%		0.8	20



# QC Association Summary

Client: Conestoga-Rovers & Associates, Inc.  
 Project/Site: 200 Railroad Ave S Ellensburg WA

TestAmerica Job ID: 490-37112-1

## GC/MS VOA

### Analysis Batch: 112618

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-37112-1	SO-062027-100313-MW-5-5	Total/NA	Solid	8260B	112625
490-37112-2	SO-062027-100313-MW-5-10	Total/NA	Solid	8260B	112625
LCS 490-112618/3	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 490-112618/4	Lab Control Sample Dup	Total/NA	Solid	8260B	
MB 490-112618/7	Method Blank	Total/NA	Solid	8260B	

### Prep Batch: 112621

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-37112-3	SO-062027-100313-MW-1-5	Total/NA	Solid	5035	

### Prep Batch: 112625

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-37112-1	SO-062027-100313-MW-5-5	Total/NA	Solid	5035	
490-37112-2	SO-062027-100313-MW-5-10	Total/NA	Solid	5035	
490-37112-3	SO-062027-100313-MW-1-5	Total/NA	Solid	5035	

### Prep Batch: 112944

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-37241-A-2-D MS	Matrix Spike	Total/NA	Solid	5030B	
490-37241-A-2-E MSD	Matrix Spike Duplicate	Total/NA	Solid	5030B	

### Analysis Batch: 112963

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-37112-3	SO-062027-100313-MW-1-5	Total/NA	Solid	8260B	112625
490-37112-3	SO-062027-100313-MW-1-5	Total/NA	Solid	8260B	112621
490-37241-A-2-D MS	Matrix Spike	Total/NA	Solid	8260B	112944
490-37241-A-2-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8260B	112944
LCS 490-112963/3	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 490-112963/4	Lab Control Sample Dup	Total/NA	Solid	8260B	
MB 490-112963/6	Method Blank	Total/NA	Solid	8260B	
MB 490-112963/7	Method Blank	Total/NA	Solid	8260B	

## GC/MS Semi VOA

### Prep Batch: 112600

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-37096-F-7-B MS	Matrix Spike	Total/NA	Solid	3550B	
490-37096-F-7-C MSD	Matrix Spike Duplicate	Total/NA	Solid	3550B	
490-37112-1	SO-062027-100313-MW-5-5	Total/NA	Solid	3550B	
490-37112-3	SO-062027-100313-MW-1-5	Total/NA	Solid	3550B	
LCS 490-112600/2-A	Lab Control Sample	Total/NA	Solid	3550B	
MB 490-112600/1-A	Method Blank	Total/NA	Solid	3550B	

### Analysis Batch: 112729

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-37096-F-7-B MS	Matrix Spike	Total/NA	Solid	8270C SIM	112600
490-37096-F-7-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8270C SIM	112600
490-37112-1	SO-062027-100313-MW-5-5	Total/NA	Solid	8270C SIM	112600
490-37112-3	SO-062027-100313-MW-1-5	Total/NA	Solid	8270C SIM	112600
LCS 490-112600/2-A	Lab Control Sample	Total/NA	Solid	8270C SIM	112600

TestAmerica Nashville

# QC Association Summary

Client: Conestoga-Rovers & Associates, Inc.  
 Project/Site: 200 Railroad Ave S Ellensburg WA

TestAmerica Job ID: 490-37112-1

## GC/MS Semi VOA (Continued)

### Analysis Batch: 112729 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 490-112600/1-A	Method Blank	Total/NA	Solid	8270C SIM	112600

## GC VOA

### Prep Batch: 112276

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-37096-D-1-A DU	Duplicate	Total/NA	Solid	5035	

### Analysis Batch: 112591

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-37112-1	SO-062027-100313-MW-5-5	Total/NA	Solid	NWTPH/VPH	112621
490-37112-1	SO-062027-100313-MW-5-5	Total/NA	Solid	NWTPH/VPH	112621
LCS 490-112591/3	Lab Control Sample	Total/NA	Solid	NWTPH/VPH	
LCSD 490-112591/4	Lab Control Sample Dup	Total/NA	Solid	NWTPH/VPH	
MB 490-112591/6	Method Blank	Total/NA	Solid	NWTPH/VPH	

### Prep Batch: 112621

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-37112-1	SO-062027-100313-MW-5-5	Total/NA	Solid	5035	
490-37112-2	SO-062027-100313-MW-5-10	Total/NA	Solid	5035	
490-37112-3	SO-062027-100313-MW-1-5	Total/NA	Solid	5035	

### Prep Batch: 113054

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-37275-J-8-A MS	Matrix Spike	Total/NA	Solid	5035	
490-37275-J-8-A MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

### Analysis Batch: 113330

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-37112-1	SO-062027-100313-MW-5-5	Total/NA	Solid	NWTPH/VPH	112621
490-37275-J-8-A MS	Matrix Spike	Total/NA	Solid	NWTPH/VPH	113054
490-37275-J-8-A MSD	Matrix Spike Duplicate	Total/NA	Solid	NWTPH/VPH	113054
LCS 490-113330/3	Lab Control Sample	Total/NA	Solid	NWTPH/VPH	
LCSD 490-113330/4	Lab Control Sample Dup	Total/NA	Solid	NWTPH/VPH	
MB 490-113330/6	Method Blank	Total/NA	Solid	NWTPH/VPH	

### Analysis Batch: 113587

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-37096-D-1-A DU	Duplicate	Total/NA	Solid	NWTPH-Gx	112276
490-37112-1	SO-062027-100313-MW-5-5	Total/NA	Solid	NWTPH-Gx	112621
490-37112-2	SO-062027-100313-MW-5-10	Total/NA	Solid	NWTPH-Gx	112621
490-37112-3	SO-062027-100313-MW-1-5	Total/NA	Solid	NWTPH-Gx	112621
LCS 490-113587/64	Lab Control Sample	Total/NA	Solid	NWTPH-Gx	
MB 490-113587/39	Method Blank	Total/NA	Solid	NWTPH-Gx	

### Analysis Batch: 114284

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-37112-1	SO-062027-100313-MW-5-5	Total/NA	Solid	NWTPH/VPH	

# QC Association Summary

Client: Conestoga-Rovers & Associates, Inc.  
 Project/Site: 200 Railroad Ave S Ellensburg WA

TestAmerica Job ID: 490-37112-1

## GC Semi VOA

### Prep Batch: 112601

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-37104-G-5-C MS	Matrix Spike	Total/NA	Solid	3550B	
490-37104-G-5-D MSD	Matrix Spike Duplicate	Total/NA	Solid	3550B	
490-37112-1	SO-062027-100313-MW-5-5	Total/NA	Solid	3550B	
490-37112-3	SO-062027-100313-MW-1-5	Total/NA	Solid	3550B	
LCS 490-112601/2-A	Lab Control Sample	Total/NA	Solid	3550B	
MB 490-112601/1-A	Method Blank	Total/NA	Solid	3550B	

### Prep Batch: 112940

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-37112-1	SO-062027-100313-MW-5-5	Total/NA	Solid	3541	
LCS 490-112940/2-B	Lab Control Sample	Total/NA	Solid	3541	
LCS 490-112940/2-C	Lab Control Sample	Total/NA	Solid	3541	
MB 490-112940/1-B	Method Blank	Total/NA	Solid	3541	
MB 490-112940/1-C	Method Blank	Total/NA	Solid	3541	

### Prep Batch: 112949

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-37104-F-5-B DU	Duplicate	Total/NA	Solid	3550B	
490-37112-1	SO-062027-100313-MW-5-5	Total/NA	Solid	3550B	
490-37112-2	SO-062027-100313-MW-5-10	Total/NA	Solid	3550B	
490-37112-3	SO-062027-100313-MW-1-5	Total/NA	Solid	3550B	
LCS 490-112949/2-A	Lab Control Sample	Total/NA	Solid	3550B	
MB 490-112949/1-A	Method Blank	Total/NA	Solid	3550B	

### Analysis Batch: 112980

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-37104-F-5-B DU	Duplicate	Total/NA	Solid	NWTPH-Dx	112949
490-37112-1	SO-062027-100313-MW-5-5	Total/NA	Solid	NWTPH-Dx	112949
490-37112-2	SO-062027-100313-MW-5-10	Total/NA	Solid	NWTPH-Dx	112949
490-37112-3	SO-062027-100313-MW-1-5	Total/NA	Solid	NWTPH-Dx	112949
LCS 490-112949/2-A	Lab Control Sample	Total/NA	Solid	NWTPH-Dx	112949
MB 490-112949/1-A	Method Blank	Total/NA	Solid	NWTPH-Dx	112949

### Analysis Batch: 113318

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-37112-2	SO-062027-100313-MW-5-10	Total/NA	Solid	NWTPH-Dx	112949

### Analysis Batch: 113656

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-37104-G-5-C MS	Matrix Spike	Total/NA	Solid	8082	112601
490-37104-G-5-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8082	112601
490-37112-1	SO-062027-100313-MW-5-5	Total/NA	Solid	8082	112601
490-37112-3	SO-062027-100313-MW-1-5	Total/NA	Solid	8082	112601
LCS 490-112601/2-A	Lab Control Sample	Total/NA	Solid	8082	112601
MB 490-112601/1-A	Method Blank	Total/NA	Solid	8082	112601

### Fraction Batch: 113872

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-37112-1	SO-062027-100313-MW-5-5	Total/NA	Solid	EPH Frac	112940
490-37112-1	SO-062027-100313-MW-5-5	Total/NA	Solid	EPH Frac	112940
LCS 490-112940/2-B	Lab Control Sample	Total/NA	Solid	EPH Frac	112940

TestAmerica Nashville

# QC Association Summary

Client: Conestoga-Rovers & Associates, Inc.  
 Project/Site: 200 Railroad Ave S Ellensburg WA

TestAmerica Job ID: 490-37112-1

## GC Semi VOA (Continued)

### Fraction Batch: 113872 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 490-112940/2-C	Lab Control Sample	Total/NA	Solid	EPH Frac	112940
MB 490-112940/1-B	Method Blank	Total/NA	Solid	EPH Frac	112940
MB 490-112940/1-C	Method Blank	Total/NA	Solid	EPH Frac	112940

### Analysis Batch: 114023

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-37112-1	SO-062027-100313-MW-5-5	Total/NA	Solid	NWTPH/EPH	113872
LCS 490-112940/2-C	Lab Control Sample	Total/NA	Solid	NWTPH/EPH	113872
MB 490-112940/1-C	Method Blank	Total/NA	Solid	NWTPH/EPH	113872

### Analysis Batch: 114024

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-37112-1	SO-062027-100313-MW-5-5	Total/NA	Solid	NWTPH/EPH	113872
LCS 490-112940/2-B	Lab Control Sample	Total/NA	Solid	NWTPH/EPH	113872
MB 490-112940/1-B	Method Blank	Total/NA	Solid	NWTPH/EPH	113872

## Metals

### Prep Batch: 114526

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-37096-F-7-G MS	Matrix Spike	Total/NA	Solid	3051	
490-37096-F-7-H MSD	Matrix Spike Duplicate	Total/NA	Solid	3051	
490-37112-1	SO-062027-100313-MW-5-5	Total/NA	Solid	3051	
490-37112-3	SO-062027-100313-MW-1-5	Total/NA	Solid	3051	
LCS 490-114526/2-A	Lab Control Sample	Total/NA	Solid	3051	
MB 490-114526/1-A	Method Blank	Total/NA	Solid	3051	

### Analysis Batch: 114654

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-37096-F-7-G MS	Matrix Spike	Total/NA	Solid	6020	114526
490-37096-F-7-H MSD	Matrix Spike Duplicate	Total/NA	Solid	6020	114526
490-37112-1	SO-062027-100313-MW-5-5	Total/NA	Solid	6020	114526
490-37112-3	SO-062027-100313-MW-1-5	Total/NA	Solid	6020	114526
LCS 490-114526/2-A	Lab Control Sample	Total/NA	Solid	6020	114526
MB 490-114526/1-A	Method Blank	Total/NA	Solid	6020	114526

## General Chemistry

### Analysis Batch: 112469

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-37104-G-1 DU	Duplicate	Total/NA	Solid	Moisture	
490-37112-1	SO-062027-100313-MW-5-5	Total/NA	Solid	Moisture	
490-37112-2	SO-062027-100313-MW-5-10	Total/NA	Solid	Moisture	
490-37112-3	SO-062027-100313-MW-1-5	Total/NA	Solid	Moisture	

# Lab Chronicle

Client: Conestoga-Rovers & Associates, Inc.  
 Project/Site: 200 Railroad Ave S Ellensburg WA

TestAmerica Job ID: 490-37112-1

**Client Sample ID: SO-062027-100313-MW-5-5**

**Lab Sample ID: 490-37112-1**

**Date Collected: 10/03/13 15:15**

**Matrix: Solid**

**Date Received: 10/05/13 08:15**

**Percent Solids: 92.1**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			112625	10/08/13 08:41	JLP	TAL NSH
Total/NA	Analysis	8260B		1	112618	10/08/13 16:14	KKK	TAL NSH
Total/NA	Prep	3550B			112600	10/08/13 07:50	LP	TAL NSH
Total/NA	Analysis	8270C SIM		1	112729	10/08/13 23:15	BES	TAL NSH
Total/NA	Prep	5035			112621	10/08/13 08:37	JLP	TAL NSH
Total/NA	Analysis	NWTPH/VPH		20	112591	10/08/13 15:05	FKG	TAL NSH
Total/NA	Analysis	NWTPH/VPH		1	112591	10/08/13 15:38	FKG	TAL NSH
Total/NA	Analysis	NWTPH/VPH		40	113330	10/10/13 15:34	FKG	TAL NSH
Total/NA	Prep	5035			112621	10/08/13 08:37	JLP	TAL NSH
Total/NA	Analysis	NWTPH-Gx		1	113587	10/13/13 01:12	AMC	TAL NSH
Total/NA	Analysis	NWTPH/VPH		1	114284	10/14/13 21:47	FKG	TAL NSH
Total/NA	Prep	3550B			112949	10/09/13 09:22	BJB	TAL NSH
Total/NA	Analysis	NWTPH-Dx		1	112980	10/10/13 04:21	JML	TAL NSH
Total/NA	Prep	3550B			112601	10/08/13 08:11	LP	TAL NSH
Total/NA	Analysis	8082		1	113656	10/12/13 12:03	WAM	TAL NSH
Total/NA	Prep	3541			112940	10/09/13 09:01	BJB	TAL NSH
Total/NA	Analysis	NWTPH/EPH		1	114023	10/14/13 15:54	KKH	TAL NSH
Total/NA	Fraction	EPH Frac			113872	10/12/13 09:28	TRF	TAL NSH
Total/NA	Analysis	NWTPH/EPH		1	114024	10/14/13 10:21	KKH	TAL NSH
Total/NA	Prep	3051			114526	10/15/13 13:45	NLI	TAL NSH
Total/NA	Analysis	6020		1	114654	10/15/13 17:22	BWW	TAL NSH
Total/NA	Analysis	Moisture		1	112469	10/07/13 12:50	RRS	TAL NSH

**Client Sample ID: SO-062027-100313-MW-5-10**

**Lab Sample ID: 490-37112-2**

**Date Collected: 10/03/13 15:25**

**Matrix: Solid**

**Date Received: 10/05/13 08:15**

**Percent Solids: 92.1**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			112625	10/08/13 08:41	JLP	TAL NSH
Total/NA	Analysis	8260B		1	112618	10/08/13 15:44	KKK	TAL NSH
Total/NA	Prep	5035			112621	10/08/13 08:37	JLP	TAL NSH
Total/NA	Analysis	NWTPH-Gx		1	113587	10/13/13 00:06	AMC	TAL NSH
Total/NA	Analysis	NWTPH-Dx		1	112980	10/10/13 04:37	JML	TAL NSH
Total/NA	Prep	3550B			112949	10/09/13 09:22	BJB	TAL NSH
Total/NA	Analysis	NWTPH-Dx		10	113318	10/10/13 17:39	JLF	TAL NSH
Total/NA	Analysis	Moisture		1	112469	10/07/13 12:50	RRS	TAL NSH

# Lab Chronicle

Client: Conestoga-Rovers & Associates, Inc.  
 Project/Site: 200 Railroad Ave S Ellensburg WA

TestAmerica Job ID: 490-37112-1

**Client Sample ID: SO-062027-100313-MW-1-5**

**Lab Sample ID: 490-37112-3**

**Date Collected: 10/04/13 09:05**

**Matrix: Solid**

**Date Received: 10/05/13 08:15**

**Percent Solids: 84.9**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			112625	10/08/13 08:41	JLP	TAL NSH
Total/NA	Analysis	8260B		1	112963	10/09/13 15:01	KKK	TAL NSH
Total/NA	Prep	5035			112621	10/08/13 08:37	JLP	TAL NSH
Total/NA	Analysis	8260B		1	112963	10/09/13 15:30	KKK	TAL NSH
Total/NA	Prep	3550B			112600	10/08/13 07:50	LP	TAL NSH
Total/NA	Analysis	8270C SIM		1	112729	10/08/13 23:40	BES	TAL NSH
Total/NA	Prep	5035			112621	10/08/13 08:37	JLP	TAL NSH
Total/NA	Analysis	NWTPH-Gx		1	113587	10/13/13 00:39	AMC	TAL NSH
Total/NA	Prep	3550B			112949	10/09/13 09:22	BJB	TAL NSH
Total/NA	Analysis	NWTPH-Dx		1	112980	10/10/13 04:52	JML	TAL NSH
Total/NA	Prep	3550B			112601	10/08/13 08:11	LP	TAL NSH
Total/NA	Analysis	8082		1	113656	10/12/13 12:25	WAM	TAL NSH
Total/NA	Prep	3051			114526	10/15/13 13:45	NLI	TAL NSH
Total/NA	Analysis	6020		1	114654	10/15/13 17:27	BWW	TAL NSH
Total/NA	Analysis	Moisture		1	112469	10/07/13 12:50	RRS	TAL NSH

**Laboratory References:**

TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Drive, Nashville, TN 37204, TEL (615)726-0177



# Method Summary

Client: Conestoga-Rovers & Associates, Inc.  
Project/Site: 200 Railroad Ave S Ellensburg WA

TestAmerica Job ID: 490-37112-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL NSH
8270C SIM	Semivolatile Organic Compounds (GC/MS SIM)	SW846	TAL NSH
NWTPH/VPH	Northwest - Volatile Petroleum Hydrocarbons (GC)	NWTPH	TAL NSH
NWTPH-Gx	Northwest - Volatile Petroleum Products (GC)	NWTPH	TAL NSH
8082	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL NSH
NWTPH/EPH	Northwest - Extractable Petroleum Hydrocarbons (GC)	NWTPH	TAL NSH
NWTPH-Dx	Northwest - Semi-Volatile Petroleum Products (GC)	NWTPH	TAL NSH
6020	Metals (ICP/MS)	SW846	TAL NSH
Moisture	Percent Moisture	EPA	TAL NSH

#### Protocol References:

EPA = US Environmental Protection Agency

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 NSH = TestAmerica Nashville, 2960 Foster Creighton Drive, Nashville, TN 37204, TEL (615)726-0177

# Certification Summary

Client: Conestoga-Rovers & Associates, Inc.  
 Project/Site: 200 Railroad Ave S Ellensburg WA

TestAmerica Job ID: 490-37112-1

## Laboratory: TestAmerica Nashville

Unless otherwise noted, all analytes for this laboratory were covered under each certification below.

Authority	Program	EPA Region	Certification ID	Expiration Date
Washington	State Program	10	C789	07-19-14

The following analytes are included in this report, but certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
6020	3051	Solid	Lead
8082	3550B	Solid	PCB-1016
8082	3550B	Solid	PCB-1221
8082	3550B	Solid	PCB-1232
8082	3550B	Solid	PCB-1242
8082	3550B	Solid	PCB-1248
8082	3550B	Solid	PCB-1254
8082	3550B	Solid	PCB-1260
8260B		Solid	1-Methylnaphthalene
8260B		Solid	2-Methylnaphthalene
8260B		Solid	Hexane
8260B	5035	Solid	1-Methylnaphthalene
8260B	5035	Solid	2-Methylnaphthalene
8260B	5035	Solid	Hexane
8270C SIM	3550B	Solid	1-Methylnaphthalene
8270C SIM	3550B	Solid	2-Methylnaphthalene
8270C SIM	3550B	Solid	Acenaphthene
8270C SIM	3550B	Solid	Acenaphthylene
8270C SIM	3550B	Solid	Anthracene
8270C SIM	3550B	Solid	Benzo[a]anthracene
8270C SIM	3550B	Solid	Benzo[a]pyrene
8270C SIM	3550B	Solid	Benzo[b]fluoranthene
8270C SIM	3550B	Solid	Benzo[g,h,i]perylene
8270C SIM	3550B	Solid	Benzo[k]fluoranthene
8270C SIM	3550B	Solid	Chrysene
8270C SIM	3550B	Solid	Dibenz(a,h)anthracene
8270C SIM	3550B	Solid	Fluoranthene
8270C SIM	3550B	Solid	Fluorene
8270C SIM	3550B	Solid	Indeno[1,2,3-cd]pyrene
8270C SIM	3550B	Solid	Naphthalene
8270C SIM	3550B	Solid	Phenanthrene
8270C SIM	3550B	Solid	Pyrene
Moisture		Solid	Percent Solids
NWTPH-Dx	3550B	Solid	C10-C24
NWTPH-Gx		Solid	C6-C12
NWTPH-Gx	5035	Solid	C6-C12



## COOLER RECEIPT I



490-37112 Chain of Custody

Cooler Received/Opened On 10/5/2013 @ 0815

1. Tracking # 1203 (last 4 digits, FedEx)

Courier: FedEx IR Gun ID 94660220

2. Temperature of rep. sample or temp blank when opened: 2.6 Degrees Celsius

3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen? YES NO NA

4. Were custody seals on outside of cooler? YES..NO...NA

If yes, how many and where: (1) Front

5. Were the seals intact, signed, and dated correctly? YES..NO...NA

6. Were custody papers inside cooler? YES..NO...NA

I certify that I opened the cooler and answered questions 1-6 (initial) MM

7. Were custody seals on containers: YES NO and Intact YES...NO...NA

Were these signed and dated correctly? YES...NO...NA

8. Packing mat'l used? Bubblewrap Plastic bag Peanuts Vermiculite Foam Insert Paper Other None

9. Cooling process: Ice Ice-pack Ice (direct contact) Dry ice Other None

10. Did all containers arrive in good condition (unbroken)? YES..NO...NA

11. Were all container labels complete (#, date, signed, pres., etc)? YES..NO...NA

12. Did all container labels and tags agree with custody papers? YES..NO...NA

13a. Were VOA vials received? YES..NO...NA

b. Was there any observable headspace present in any VOA vial? YES...NO...NA - Soils

14. Was there a Trip Blank in this cooler? YES...NO...NA If multiple coolers, sequence # NA

I certify that I unloaded the cooler and answered questions 7-14 (initial) EF

15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? YES..NO..NA

b. Did the bottle labels indicate that the correct preservatives were used YES..NO...NA

16. Was residual chlorine present? YES...NO..NA

I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (initial) EF

17. Were custody papers properly filled out (ink, signed, etc)? YES..NO...NA

18. Did you sign the custody papers in the appropriate place? YES..NO...NA

19. Were correct containers used for the analysis requested? YES..NO...NA

20. Was sufficient amount of sample sent in each container? YES..NO...NA

I certify that I entered this project into LIMS and answered questions 17-20 (initial) EF

I certify that I attached a label with the unique LIMS number to each container (initial) EF

21. Were there Non-Conformance issues at login? YES..NO Was a NCM generated? YES..NO..#

3

LAB (LOCATION)

- CALSCIENCE (\_\_\_\_\_)
- SPL (Houston)
- XENCO (\_\_\_\_\_)
- TEST AMERICA (Nashville)
- OTHER (\_\_\_\_\_)



Shell Oil Products Chain Of Custody Record

Please Check Appropriate Box:

<input type="checkbox"/> ENV. SERVICES	<input type="checkbox"/> MOTIVA RETAIL	<input type="checkbox"/> SHELL RETAIL
<input type="checkbox"/> MOTIVA SD&CM	<input checked="" type="checkbox"/> CONSULTANT	<input type="checkbox"/> LUBES
<input type="checkbox"/> SHELL PIPELINE	<input type="checkbox"/> OTHER _____	

Print Bill To Contact Name: Brian Peters

PO #: \_\_\_\_\_

INCIDENT # (ENV SERVICES): 7970447

SAF #: \_\_\_\_\_

CHECK IF NO INCIDENT # APPLIES

DATE: 10/4/13

PAGE: 1 of 1

SAMPLING COMPANY: Conestoga-Rovers & Associates

LOG CODE: NA

ADDRESS: 20818 44th Ave W., Suite 190, Lynnwood, WA 98036

PROJECT CONTACT (Hardcopy or PDF Report to): Brian Peters

TELEPHONE: 425-563-6500 FAX: 425-563-6599 E-MAIL: Bpeters@crworld.com

SITE ADDRESS: Street and City: 200 Railroad Ave S, Ellensburg WA

State: WA GLOBAL ID NO.: NA

EDF DELIVERABLE TO (Name, Company, Office Location): NA PHONE NO.: NA E-MAIL: NA

CONSULTANT PROJECT NO.: 062027

SAMPLER NAME(S) (Print): Stephen Rasmussen

TURNAROUND TIME (CALENDAR DAYS):

STANDARD (14 DAY)  5 DAYS  3 DAYS  2 DAYS  24 HOURS  RESULTS NEEDED ON WEEKEND

LA - RWQCB REPORT FORMAT  UST AGENCY:

REQUESTED ANALYSIS

SPECIAL INSTRUCTIONS OR NOTES:

TCLP benzene required if benzene > 10 mg/kg

Marked TAT except for those contingent tests needed for Aquatic Bioassay determination (5 day TAT or better may apply)

cc: Derek Eisman, Deisman@crworld.com and Shell Lab Billing@crworld.com

SHELL CONTRACT RATE APPLIES

STATE REIMBURSEMENT RATE APPLIES EDD NOT NEEDED

RECEIPT VERIFICATION REQUESTED

LAB USE ONLY	Field Sample Identification		SAMPLING		MATRIX	PRESERVATIVE					NO. OF CONT.
			DATE	TIME		HCL	HNO3	H2SO4	NONE	OTHER	
	1	SO-062027-100313-MW-5-5	10/3/13	1515	SO						X
2	SO-062027-100313-MW-5-10	10/3/13	1525	SO						X	7
3	SO-062027-100413-MW-1-5	10/4/13	905	SO						X	7

TPH - Purgeable (8260B)	TPH - Extractable (8015M)	BTEX (8260B)	5 Oxygenates (8260B)	MTBE (8260B)	TBA (8260B)	DPE (8260B)	TAME (8260B)	ETBE (8260B)	<del>4-Ethylphenol (8260B)</del>	EDB (8260B) / EDC	Ethanol (8260B)	Methanol (8015M)	PAHs (8270c) / CPAHs	TCLP: As, Ba, Cd, Cr, Pb, Hg, Se, Ag (8010B or 8020)	PCBs (8082) + HMOs 8260B	TRPH (418.1)	NWTPH-GX	NWTPH-DX	Total Lead 6020	TEMPERATURE ON RECEIPT C°
		X															X	X		

Loc: 490  
37112

Container PID Readings or Laboratory Notes

Additional Analysis may be Required, please Hold Pending B. Peters Notification

Relinquished by: (Signature) [Signature] CRA 10/4/13 1338

Received by: (Signature) [Signature]

Date: 10-5-13 Time: 08:15

2.6 TAN

10/24/2013 Page 1 of 49

## Login Sample Receipt Checklist

Client: Conestoga-Rovers & Associates, Inc.

Job Number: 490-37112-1

**Login Number: 37112**

**List Number: 1**

**Creator: Ford, Easton**

**List Source: TestAmerica Nashville**

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?	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").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



# Appendix D

## Blaine Field Data Sheets

## WELL GAUGING DATA

Project # B1028-LB3 Date 10/28/13 Client CRA

Site 200 S. RAILROAD AVE, ELLensburg, WA

Well ID	Time	Well Size (in.)	Sheen / Odor	Depth to Immiscible Liquid (ft.)	Thickness of Immiscible Liquid (ft.)	Volume of Immiscibles Removed (ml)	Depth to water (ft.)	Depth to well bottom (ft.)	Survey Point: TOB or TOE	Notes
MW-1	1152	2					5.11	12.16	↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓	
MW-2	1158	2				4.29	12.18			
MW-3	1121	2				4.48	12.49			
MW-4	1126	2				3.51	12.30			
MW-5	1140	2				4.11	12.93			
MW-6	1146	2				4.72	13.05			
MW-7	1131	2				4.21	12.83			
MW-8	1136	2				3.83	12.98			

## WELL DEVELOPMENT DATA SHEET

Project #: <u>131028-LB3</u>	Client: <u>CRA</u>
Developer: <u>LB</u>	Date Developed: <u>10/29/13</u>
Well I.D. <u>MW-1</u>	Well Diameter: (circle one) <u>2</u> 3 4 6
Total Well Depth: Before <u>12.16</u> After <u>12.31</u>	Depth to Water: Before <u>5.11</u> After <u>5.72</u>
Reason not developed:	If Free Product, thickness:
Additional Notations:	

Volume Conversion Factor (VCF): $\{12 \times (d^2/4) \times \pi\} / 231$	Well dia.	VCF
where	2"	= 0.16
12 = in / foot	3"	= 0.37
d = diameter (in.)	4"	= 0.65
$\pi = 3.1416$	6"	= 1.47
231 = in <sup>3</sup> /gal	10"	= 4.08
	12"	= 6.87

<u>1.5</u>	X	<u>10</u>	=	<u>15</u>
1 Case Volume		Specified Volumes		gallons

Purging Device:      Bailer            Electric Submersible        
                                  Middleburg            Suction Pump     

Type of Installed Pump \_\_\_\_\_  
 Other equipment used      SURGE BLOCK

TIME	TEMP (F)	pH	Cond. (mS or $\mu$ S)	TURBIDITY (NTUs)	VOLUME REMOVED:	NOTATIONS:
<u>1055</u>	—	—	—	—	—	<u>SURGE WELL w/ SURGE BLOCK FOR 10 MIN</u>
<u>1108</u>	—	—	—	—	—	<u>START PURGE @ 0.5 GPM</u>
<u>1111</u>	<u>49.5</u>	<u>7.52</u>	<u>2638</u>	<u>&gt;1000</u>	<u>1.5</u>	<u>VERY SILTY, BROWN</u>
<u>1114</u>	<u>50.2</u>	<u>7.36</u>	<u>2522</u>	<u>&gt;1000</u>	<u>3.0</u>	<u>VERY SILTY</u>
<u>1117</u>	<u>50.5</u>	<u>7.28</u>	<u>2518</u>	<u>&gt;1000</u>	<u>4.5</u>	<u>VERY SILTY, DTW: 5.72</u>
—	—	<u>SURGED</u>	<u>WELL</u>	<u>w/ PUMP</u>	—	—
<u>1120</u>	<u>50.6</u>	<u>7.19</u>	<u>2517</u>	<u>&gt;1000</u>	<u>6.0</u>	<u>VERY SILTY</u>
<u>1123</u>	<u>50.9</u>	<u>7.15</u>	<u>2516</u>	<u>942</u>	<u>7.5</u>	<u>SILTY, HARD BOTTOM</u>
<u>1126</u>	<u>51.0</u>	<u>7.13</u>	<u>2515</u>	<u>718</u>	<u>9.0</u>	<u>SILTY, DTW: 5.72</u>
—	—	<u>SURGED</u>	<u>WELL</u>	<u>w/ PUMP</u>	—	—
<u>1129</u>	<u>51.3</u>	<u>7.12</u>	<u>2514</u>	<u>582</u>	<u>10.5</u>	<u>SILTY</u>
<u>1132</u>	<u>51.4</u>	<u>7.11</u>	<u>2510</u>	<u>294</u>	<u>12.0</u>	<u>LESS SILTY</u>
<u>1135</u>	<u>51.6</u>	<u>7.10</u>	<u>2508</u>	<u>151</u>	<u>13.5</u>	<u>LESS SILTY, DTW: 5.72</u>
Did Well Dewater?	If yes, note above.		Gallons Actually Evacuated:		<u>25.5</u>	



## WELL DEVELOPMENT DATA SHEET

Project #: 131028-LB3	Client: CPA
Developer: LB	Date Developed: 10/28/13
Well I.D. MW-2	Well Diameter: (circle one) ② 3 4 6
Total Well Depth: Before 12.18 After 12.31	Depth to Water: Before 4.29 After 4.45
Reason not developed:	If Free Product, thickness:
Additional Notations: 80% = 5.87	

Volume Conversion Factor (VCF):  $\frac{12 \times (d^2/4) \times \pi}{231}$   
 where  
 12 = in / foot  
 d = diameter (in.)  
 $\pi = 3.1416$   
 231 = in<sup>3</sup>/gal

Well dia.	VCF
2"	= 0.16
3"	= 0.37
4"	= 0.65
6"	= 1.47
10"	= 4.08
12"	= 6.87

<u>1.5</u>	X	<u>10</u>	=	<u>15</u>
1 Case Volume		Specified Volumes		gallons

Purging Device:    Bailer        Electric Submersible      
                          Middleburg       Suction Pump                   

Type of Installed Pump \_\_\_\_\_  
 Other equipment used SURGE BLOCK

TIME	TEMP (F)	pH	Cond. (mS or $\mu$ S)	TURBIDITY (NTUs)	VOLUME REMOVED:	NOTATIONS:
1201	_____	_____	_____	_____	_____	SURGE WELL w/ SURGE BLOCK FOR 10 MIN.
1213	_____	_____	_____	_____	_____	START PURGE @ 0.5 GPM
1216	61.5	6.59	1283	>1000	1.5	VERY SILTY, BROWN
1219	61.7	6.71	1238	>1000	3.0	VERY SILTY
1222	61.6	6.73	1196	>1000	4.5	VERY SILTY, DTW @ 9.41
_____	_____	_____	_____	_____	_____	SURGED WELL w/ PUMP
1225	61.0	6.76	954	>1000	6.0	VERY SILTY
1228	61.3	6.77	1011	>1000	7.5	VERY SILTY
_____	_____	_____	_____	_____	_____	WELL DEWATERED @ 7.5 GALLONS
1335	_____	_____	_____	_____	_____	RETURN TO WELL DTW: 4.33
1336	_____	_____	_____	_____	_____	SURGE WELL w/ SURGE BLOCK FOR 10 MIN
1608	_____	_____	_____	_____	_____	START PURGE @ 0.5 GPM
1611	60.8	6.71	1098	>1000	9.0	SILTY
Did Well Dewater? Y		If yes, note above.		Gallons Actually Evacuated:		30





## WELL DEVELOPMENT DATA SHEET

Project #: <u>131026-LB3</u>	Client: <u>CRA</u>
Developer: <u>LB</u>	Date Developed: <u>10/28/13</u>
Well I.D. <u>MW-3</u>	Well Diameter: (circle one) <u>3</u> 4 6
Total Well Depth: Before <u>12.49</u> After <u>12.64</u>	Depth to Water: Before <u>4.48</u> After <u>4.56</u>
Reason not developed:	If Free Product, thickness:
Additional Notations:	

Volume Conversion Factor (VCF): (12 x (d <sup>2</sup> /4) x π) / 231	Well dia.	VCF
where	2"	= 0.16
12 = in / foot	3"	= 0.37
d = diameter (in.)	4"	= 0.65
π = 3.1416	6"	= 1.47
231 = in <sup>3</sup> /gal	10"	= 4.08
	12"	= 6.87

<u>1.5</u>	X	<u>10</u>	=	<u>15</u>
1 Case Volume		Specified Volumes		gallons

Purging Device:    Bailer                          Electric Submersible      
                                  Middleburg                          Suction Pump                     

Type of Installed Pump \_\_\_\_\_  
 Other equipment used SURGE BLOCK

TIME	TEMP (F)	pH	Cond. (mS or $\mu$ S)	TURBIDITY (NTUs)	VOLUME REMOVED:	NOTATIONS:
<u>1205</u>	—	—	—	—	—	<u>SURGE WELL w/ SURGE BLOCK FOR 10 MIN.</u>
<u>1210</u>	—	—	—	—	—	<u>START PURGE @ 0.5 GPM</u>
<u>1219</u>	<u>54.3</u>	<u>7.66</u>	<u>1551</u>	<u>&gt;1000</u>	<u>1.5</u>	<u>VERY SILTY, BROWN</u>
<u>1222</u>	<u>54.4</u>	<u>7.67</u>	<u>1547</u>	<u>&gt;1000</u>	<u>3.0</u>	<u>VERY SILTY</u>
<u>1224</u>	<u>54.5</u>	<u>7.66</u>	<u>1536</u>	<u>&gt;1000</u>	<u>4.5</u>	<u>VERY SILTY, DTW: 4.56</u>
—	—	<u>SURGED</u>	<u>WELL w/</u>	<u>PUMP</u>	—	—
<u>1227</u>	<u>54.6</u>	<u>7.65</u>	<u>1529</u>	<u>&gt;1000</u>	<u>6.0</u>	<u>VERY SILTY</u>
<u>1230</u>	<u>54.7</u>	<u>7.64</u>	<u>1527</u>	<u>&gt;1000</u>	<u>7.5</u>	<u>VERY SILTY</u>
<u>1233</u>	<u>54.8</u>	<u>7.62</u>	<u>1525</u>	<u>&gt;1000</u>	<u>9.0</u>	<u>VERY SILTY DTW: 4.56</u>
—	—	<u>SURGED</u>	<u>WELL w/</u>	<u>PUMP</u>	—	—
<u>1236</u>	<u>54.9</u>	<u>7.61</u>	<u>1520</u>	<u>&gt;1000</u>	<u>10.5</u>	<u>SILTY, HARD BOTTOM</u>
<u>1239</u>	<u>55.1</u>	<u>7.60</u>	<u>1516</u>	<u>&gt;1000</u>	<u>12.0</u>	<u>SILTY</u>
<u>1241</u>	<u>55.2</u>	<u>7.59</u>	<u>1514</u>	<u>&gt;1000</u>	<u>13.5</u>	<u>LESS SILTY, DTW: 4.56</u>
Did Well Dewater? <u>N</u>	If yes, note above.		Gallons Actually Evacuated:		<u>30</u>	



## WELL DEVELOPMENT DATA SHEET

Project #: 131028-LB3	Client: CRA
Developer: LB	Date Developed: 10/28/13
Well I.D. MW-4	Well Diameter: (circle one) ② 3 4 6
Total Well Depth: Before 12.30 After 12.51	Depth to Water: Before 3.51 After 4.26
Reason not developed:	If Free Product, thickness:
Additional Notations:	

Volume Conversion Factor (VCF):  
 $\{12 \times (d^2/4) \times \pi\} / 231$   
 where  
 12 = in / foot  
 d = diameter (in.)  
 $\pi = 3.1416$   
 231 = in<sup>3</sup>/gal

Well dia.	VCF
2"	= 0.16
3"	= 0.37
4"	= 0.65
6"	= 1.47
10"	= 4.08
12"	= 6.87

<u>1.5</u>	X	<u>10</u>	=	<u>15</u>
1 Case Volume		Specified Volumes		gallons

Purging Device:      Bailer            Electric Submersible        
                                  Middleburg            Suction Pump     

Type of Installed Pump \_\_\_\_\_  
 Other equipment used SURGE BLOCK

TIME	TEMP (F)	pH	Cond. (mS or $\mu$ S)	TURBIDITY (NTUs)	VOLUME REMOVED:	NOTATIONS:
1235	—	—	—	—	—	SURGED WELL w/ SURGE BLOCK FOR 10 MIN.
1246	—	—	—	—	—	START PURGE @ 0.5 GPM
1251	59.5	6.86	3713	>1000	1.5	VERY SILTY, BROWN
1254	59.9	6.63	3550	>1000	3.0	VERY SILTY
1258	60.0	6.69	3558	>1000	4.5	VERY SILTY, DTW: 6.11
—	—	—	—	—	—	SURGED WELL w/ PUMP
1301	59.7	6.73	3554	>1000	6.0	VERY SILTY
1304	59.5	6.75	3351	>1000	7.5	VERY SILTY
1307	59.2	6.78	3546	>1000	9.0	VERY SILTY, DTW: 9.71
—	—	—	—	—	—	SURGED WELL w/ PUMP
1311	59.1	6.79	3543	>1000	10.5	VERY SILTY, HARD BOTTOM
1314	58.8	6.81	3540	>1000	12.0	VERY SILTY
—	—	—	—	—	—	WELL DEWATERED @ 12 GALLONS
Did Well Dewater? <u>Y</u>		If yes, note above.		Gallons Actually Evacuated:		33.0



## WELL DEVELOPMENT DATA SHEET

Project #: <u>131028-LB3</u>	Client: <u>CFA</u>
Developer: <u>LB</u>	Date Developed: <u>10/29/13</u>
Well I.D. <u>MW-5</u>	Well Diameter: (circle one) <u>2</u> 3 4 6 <u>   </u>
Total Well Depth: Before <u>12.93</u> After <u>13.05</u>	Depth to Water: Before <u>4.11</u> After <u>4.23</u>
Reason not developed:	If Free Product, thickness:
Additional Notations:	

Volume Conversion Factor (VCF): $\{12 \times (d^2/4) \times \pi\} / 231$	Well dia.	VCF
where	2" =	0.16
12 = in / foot	3" =	0.37
d = diameter (in.)	4" =	0.65
$\pi = 3.1416$	6" =	1.47
231 = in <sup>3</sup> /gal	10" =	4.08
	12" =	6.87

<u>1.5</u>	<u>X</u>	<u>10</u>	<u>=</u>	<u>15</u>
I Case Volume		Specified Volumes		gallons

Purging Device:    Bailer                          Electric Submersible      
                          Middleburg                         Suction Pump           

Type of Installed Pump \_\_\_\_\_  
 Other equipment used SURGE BLOCK

TIME	TEMP (F)	pH	Cond. (mS or <del>µS</del> )	TURBIDITY (NTUs)	VOLUME REMOVED:	NOTATIONS:
<u>0931</u>	—	—	<u>SURGED WELL</u>	<u>w/ SURGE</u>		<u>BLOCK FOR 10 MIN.</u>
<u>0943</u>	—	—	<u>START</u>	<u>PURGE</u>	<u>0.5</u>	<u>GPM</u>
<u>0946</u>	<u>53.4</u>	<u>7.07</u>	<u>1264</u>	<u>&gt;1000</u>	<u>1.5</u>	<u>VERY SILTY, BROWN</u>
<u>0949</u>	<u>53.2</u>	<u>6.99</u>	<u>1231</u>	<u>&gt;1000</u>	<u>3.0</u>	<u>VERY SILTY</u>
<u>0952</u>	<u>53.4</u>	<u>6.86</u>	<u>1226</u>	<u>&gt;1000</u>	<u>4.5</u>	<u>VERY SILTY, DTW: 4.23</u>
—	—	—	<u>SURGED WELL</u>	<u>w/ PUMP</u>		
<u>0955</u>	<u>53.5</u>	<u>6.79</u>	<u>1221</u>	<u>&gt;1000</u>	<u>6.0</u>	<u>VERY SILTY, HARD BOTTOM</u>
<u>0958</u>	<u>53.6</u>	<u>6.75</u>	<u>1223</u>	<u>&gt;1000</u>	<u>7.5</u>	<u>VERY SILTY</u>
<u>1001</u>	<u>53.7</u>	<u>6.73</u>	<u>1225</u>	<u>&gt;1000</u>	<u>9.0</u>	<u>SILTY, DTW: 4.23</u>
—	—	—	<u>SURGED</u>	<u>WELL</u>	<u>w/ PUMP</u>	
<u>1004</u>	<u>53.8</u>	<u>6.71</u>	<u>1228</u>	<u>&gt;1000</u>	<u>10.5</u>	<u>SILTY</u>
<u>1007</u>	<u>53.9</u>	<u>6.70</u>	<u>1231</u>	<u>&gt;1000</u>	<u>12.0</u>	<u>SILTY</u>
<u>1010</u>	<u>54.0</u>	<u>6.71</u>	<u>1233</u>	<u>&gt;1000</u>	<u>13.5</u>	<u>LESS SILTY, DTW: 4.23</u>
Did Well Dewater?	If yes, note above.		Gallons Actually Evacuated:		<u>33.0</u>	



## WELL DEVELOPMENT DATA SHEET

Project #: 131028-LB3	Client: CRA
Developer: LB	Date Developed: 10/29/13
Well I.D. MW-6	Well Diameter: (circle one) <input checked="" type="radio"/> 3 <input type="radio"/> 4 <input type="radio"/> 6
Total Well Depth: Before 13.05 After 13.21	Depth to Water: Before 4.72 After 4.61
Reason not developed:	If Free Product, thickness:
Additional Notations:	

Volume Conversion Factor (VCF):  
 $\{12 \times (d^2/4) \times \pi\} / 231$   
 where  
 12 = in / foot  
 d = diameter (in.)  
 $\pi = 3.1416$   
 231 = in<sup>3</sup>/gal

Well dia.	VCF
2"	= 0.16
3"	= 0.37
4"	= 0.65
6"	= 1.47
10"	= 4.08
12"	= 6.87

1.5	X	10	=	15
1 Case Volume		Specified Volumes		gallons

Purging Device:    Bailer        Electric Submersible      
                          Middleburg        Suction Pump   

Type of Installed Pump \_\_\_\_\_  
 Other equipment used    SURGE BLOCK

TIME	TEMP (F)	pH	Cond. (mS or <del>µS</del> )	TURBIDITY (NTUs)	VOLUME REMOVED:	NOTATIONS:
0755	_____	SURGE	WELL w/	SURGE	BLOCK	FOR 10 MIN. _____
0810	_____	START	PURGE	@ 0.5	GPM	_____
0813	48.2	7.33	7715	>1000	1.5	VERY SILTY, BROWN
0816	48.8	7.32	1729	>1000	3.0	VERY SILTY
0819	49.3	7.31	1780	>1000	4.5	VERY SILTY, DTW: 4.61
_____	_____	SURGED	WELL	w/	PUMP	_____
0822	49.6	7.29	1810	>1000	6.0	VERY SILTY
0825	49.9	7.20	1842	>1000	7.5	VERY SILTY
0828	50.1	7.31	1856	>1000	9.0	VERY SILTY, DTW: 4.61
_____	_____	SURGED	WELL	w/	PUMP	_____
0831	50.2	7.30	1858	>1000	10.5	VERY SILTY, HARD BOTTOM
0834	50.3	7.29	1861	>1000	12.0	VERY SILTY
0837	50.1	7.28	1863	>1000	13.5	SILTY, DTW: 4.61
Did Well Dewater?	If yes, note above.		Gallons Actually Evacuated:		37.6	





## WELL DEVELOPMENT DATA SHEET

Project #: 131028-LB3	Client: CRA
Developer: LB	Date Developed: 10/26/13
Well I.D. MW-7	Well Diameter: (circle one) <input checked="" type="radio"/> 3 <input type="radio"/> 4 <input type="radio"/> 6
Total Well Depth: Before 12.83 After 13.13	Depth to Water: Before 4.21 After 4.31
Reason not developed:	If Free Product, thickness:
Additional Notations:	

Volume Conversion Factor (VCF):  
 $\{12 \times (d^2/4) \times \pi\} / 231$   
 where  
 12 = in / foot  
 d = diameter (in.)  
 $\pi = 3.1416$   
 231 = in<sup>3</sup>/gal

Well dia.	VCF
2"	= 0.16
3"	= 0.37
4"	= 0.65
6"	= 1.47
10"	= 4.08
12"	= 6.87

<u>1.5</u>	X	<u>10</u>	=	<u>15</u>
1 Case Volume		Specified Volumes		gallons

Purging Device:      Bailer            Electric Submersible        
                          Middleburg         Suction Pump                     

Type of Installed Pump \_\_\_\_\_  
 Other equipment used      SURGE BLOCK

TIME	TEMP (F)	pH	Cond. (mS or $\mu$ S)	TURBIDITY (NTUs)	VOLUME REMOVED:	NOTATIONS:
1323	_____	_____	_____	_____	_____	SURGE WELL w/ SURGE BLOCK FOR 10 MIN. _____
1334	_____	_____	_____	_____	_____	START PURGE @ 6.5 GPM _____
1337	60.5	7.47	1025	>1000	1.5	VERY SILTY, BROWN
1340	60.4	7.40	1034	>1000	3.0	VERY SILTY
1343	60.1	7.35	1041	>1000	4.5	VERY SILTY, DTW: 4.31
_____	_____	_____	_____	_____	_____	SURGED WELL w/ PUMP _____
1346	59.8	7.30	1036	>1000	6.0	VERY SILTY
1349	60.1	7.29	1033	>1000	7.5	VERY SILTY
1353	60.1	7.32	1029	>1000	9.0	VERY SILTY, DTW: 4.31
_____	_____	_____	_____	_____	_____	SURGED WELL w/ PUMP _____
1356	59.6	7.31	1029	>1000	10.5	VERY SILTY, HARD BOTTOM
1359	59.7	7.30	1028	>1000	12.0	VERY SILTY
1402	59.8	7.29	1027	>1000	13.5	VERY SILTY, DTW: 4.31
Did Well Dewater? N	If yes, note above.		Gallons Actually Evacuated:		34.5	



## WELL DEVELOPMENT DATA SHEET

Project #: <u>131028-LB3</u>	Client: <u>CRA</u>
Developer: <u>LB</u>	Date Developed: <u>6/29/13</u>
Well I.D. <u>MW-8</u>	Well Diameter: (circle one) <u>2</u> 3 4 6
Total Well Depth: Before <u>12.98</u> After <u>13.03</u>	Depth to Water: Before <u>383</u> After <u>394</u>
Reason not developed:	If Free Product, thickness:
Additional Notations:	

Volume Conversion Factor (VCF): $\{12 \times (d^2/4) \times \pi\} / 231$ where 12 = in / foot d = diameter (in.) $\pi = 3.1416$ 231 = in <sup>3</sup> /gal	Well dia.	VCF
	2"	= 0.16
	3"	= 0.37
	4"	= 0.65
	6"	= 1.47
	10"	= 4.08
	12"	= 6.87

<u>1.5</u>	X	<u>10</u>	=	<u>15</u>
1 Case Volume		Specified Volumes		gallons

Purging Device:      Bailer            Electric Submersible        
                                  Middleburg            Suction Pump     

Type of Installed Pump \_\_\_\_\_  
 Other equipment used SURGE BLOCK

TIME	TEMP (F)	pH	Cond. (mS or $\mu$ S)	TURBIDITY (NTUs)	VOLUME REMOVED:	NOTATIONS:
<u>0650</u>	_____	<u>SURGED</u>	<u>WELL w/</u>	<u>SURGE</u>	<u>BLOCK</u>	<u>FOR 10 MIN</u>
<u>0702</u>	_____	<u>START</u>	<u>PURGE</u>	<u>@ 0.5</u>	<u>SPM</u>	_____
<u>0705</u>	<u>61.4</u>	<u>7.54</u>	<u>1297</u>	<u>&gt;1000</u>	<u>1.5</u>	<u>VERY SILTY, BROWN</u>
<u>0708</u>	<u>61.5</u>	<u>7.48</u>	<u>1282</u>	<u>&gt;1000</u>	<u>3.0</u>	<u>VERY SILTY</u>
<u>0710</u>	<u>61.0</u>	<u>7.45</u>	<u>1275</u>	<u>&gt;1000</u>	<u>4.5</u>	<u>SILTY, DTW: 394</u>
_____	_____	<u>SURGED</u>	<u>WELL w/</u>	<u>PUMP</u>	_____	_____
<u>0713</u>	<u>60.2</u>	<u>7.39</u>	<u>1276</u>	<u>&gt;1000</u>	<u>6.0</u>	<u>SILTY</u>
<u>0716</u>	<u>59.4</u>	<u>7.38</u>	<u>1266</u>	<u>&gt;1000</u>	<u>7.5</u>	<u>SILTY</u>
<u>0719</u>	<u>59.1</u>	<u>7.34</u>	<u>1267</u>	<u>&gt;1000</u>	<u>9.0</u>	<u>LESS SILTY, DTW: 394</u>
_____	_____	_____	<u>SURGED</u>	<u>WELL w/</u>	<u>PUMP</u>	_____
<u>0722</u>	<u>58.8</u>	<u>7.32</u>	<u>1265</u>	<u>&gt;1000</u>	<u>10.5</u>	<u>SILTY, HARD BOTTOM</u>
<u>0725</u>	<u>58.7</u>	<u>7.31</u>	<u>1264</u>	<u>&gt;1000</u>	<u>12.0</u>	<u>SILTY</u>
<u>0728</u>	<u>58.6</u>	<u>7.30</u>	<u>1262</u>	<u>&gt;1000</u>	<u>13.5</u>	<u>LESS SILTY, DTW: 394</u>
Did Well Dewater?	If yes, note above.		Gallons Actually Evacuated:		<u>25.5</u>	



ENVIRONMENTAL WELL, REMEDIATION COMPOUND, AND SITE INSPECTION FORM

INCIDENT # 7970447

ADDRESS 200 S. RAILROAD AVE

DATE: 10/26/13

CITY & STATE ELLENBURG, WA

Well ID	Observations Upon Arrival														Note Repairs Made Detailed Explanation of Maintenance Recommended and Performed	Photos of Well Condition		Repair Date and PM Initials		
	Manway Cover, Type, Condition & Size					Well Labeled / Painted Properly*		Well Cap (Gripper) Condition		Well Lock Condition			Well Pad / Surface Condition							
MW-1	Standpipe	Flush	G	P	8	G	N	G	R	G	R	NL	G	P		Y	N			
MW-2	Standpipe	Flush	G	P	8	G	N	G	R	G	R	NL	G	P		Y	N			
MW-3	Standpipe	Flush	G	P	8	G	N	G	R	G	R	NL	G	P		Y	N			
MW-4	Standpipe	Flush	G	P	8	G	N	G	R	G	R	NL	G	P		Y	N			
MW-5	Standpipe	Flush	G	P	8	G	N	G	R	G	R	NL	G	P		Y	N			
MW-6	Standpipe	Flush	G	P	8	G	N	G	R	G	R	NL	G	P		Y	N			
MW-7	Standpipe	Flush	G	P	8	G	N	G	R	G	R	NL	G	P		Y	N			
MW-8	Standpipe	Flush	G	P	8	G	N	G	R	G	R	NL	G	P		Y	N			
	Standpipe	Flush	G	P	Size (Inch)	Y	N	G	R	G	R	NL	G	P		Y	N			
	Standpipe	Flush	G	P	Size (Inch)	Y	N	G	R	G	R	NL	G	P		Y	N			
	Standpipe	Flush	G	P	Size (Inch)	Y	N	G	R	G	R	NL	G	P		Y	N			
TOTAL # CAPS REPLACED =					0	TOTAL # OF LOCKS REPLACED					8									
Condition of Soil Boring Patches or Abandoned Monitoring Wells		G	P	N/A	If POOR, Borings/Well IDs or Location Description										Y	N				
Remediation Compound Type (Check boxes that apply)		Condition of Enclosure			Condition of Area Inside Enclosure			Compound Security			Emergency Contact Info Visible			Cleaning / Repairs Recommended and Conducted			Photos of Condition		Repair Date and PM Initials	
NA		X																		
Building																				
Building w/ Fence Comp.		G	P	N/A	G	P	N/A	G	P	N/A	Y	N	N/A				Y	N		
Fenced Compound																				
Trailer																				
Number of Drums On-site	Does the Label Reveal the Source of the Contents		Labeled Correctly and Writing Legible			Drum Condition			Confirm Drums Related to Environmental		Drums Located to Min Business Interference			Detailed Explanation of Any Issues Resolved			Photos of Drum Condition		Date Drums Removed from Site and PM Initials	
0	Y	N	N/A	Y	N	N/A	G	P	N/A	Y	N	Y	N	N/A				Y	N	

G = Good (Acceptable) R = Replaced  
P = Poor (needs attention) NL = No Lock Required

Note: All repairs other than locks and grippers require Shell PM approval prior to repair.

\* = Groundwater monitoring well covers must be painted and labeled in accordance with applicable regulations.

Version 2.4, March 2008

All environmental wells and the remediation compound were in good condition, locked, and secured upon my departure (unless otherwise noted above).

LEE BURES / PJS

Print or type Name of Field Personnel & Consultant Company

SHELL BILL OF LADING

SOURCE RECORD **BILL OF LADING**

FOR NON-HAZARDOUS PURGEWATER RECOVERED FROM GROUNDWATER WELLS AT SHELL FACILITIES IN THE STATE OF WASHINGTON OR OREGON. THE NON-HAZARDOUS PURGE- WATER WHICH HAS BEEN RECOVERED FROM GROUND- WATER WELLS, IS MADE UP INTO LOADS OF APPROPRIATE SIZE TO BE TRANSPORTED & PROCESSED BY A SHELL APPROVED WASTE HAULER.


The contractor performing this work is BLAINE TECH SERVICES, INC. 22727 72<sup>ND</sup> Ave South, Suite D – 102, Kent, WA 98032. Blaine Tech Services, Inc. is authorized by SHELL OIL COMPANY (SHELL) to recover, collect, apportion into loads, and haul the Non-Hazardous Well Purgewater that is drawn from wells at the SHELL facility indicated below and to deliver that purgewater to BTS. Transport routing of the Non-Hazardous Well Purgewater may be direct from one Shell facility to BTS; from one Shell facility to BTS via another Shell facility; or any combination thereof. The Non-Hazardous Well Purgewater is and remains the property of SHELL.

This Source Record **BILL OF LADING** was initiated to cover the recovery of Non-Hazardous Well Purgewater from wells at the SHELL facility described below:

Perry Pineda  
Shell Engineer

INCIDENT # \_\_\_\_\_

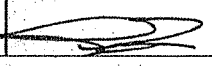
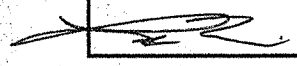
200 S. RAYROAD Ave ELLENSBURG, WA  
street number street name city state

WELL I.D.	GALS.	WELL I.D.	GALS.
MW-1	25.5		
MW-2	30.0		
MW-3	30.0		
MW-4	33.0		
MW-5	33.0		
MW-6	37.5		
MW-7	34.5		
MW-8	25.5		
added equip.		any other	
rinse water	4.0	adjustments	
<b>TOTAL GALS.</b>		loaded onto	
<b>RECOVERED</b>	<u>253</u>	BTS vehicle #	<u>88</u>
BTS event #	time	date	
	<u>131028-183</u>	<u>1330</u>	<u>10/28/13</u>
signature			
*****			
<b>RECEIVED AT</b>	time	date	
<b>BTS Kent</b>		<u>1/1</u>	
unloaded by	signature		
	_____		

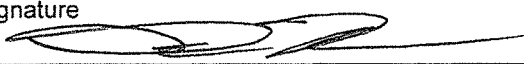
Job Clearance Form									
Station # <b>1910447</b>		Station Address: <b>200 S. RAILROAD AVE, ELLENBURG, WA</b>			Work Order Number: <b>131028-LB3</b>		Date: <b>10/28/13</b>		
Contractor Company Name: <b>BLADIE TECH SERVICES</b>		Contractor person in charge (print name): <b>LIEBURS</b>		Number of workers: <b>1</b>		JSA Reference Number: (if required)		Start Time: <b>11:15</b> End Time: <b>1:00</b>	
Problem/Work Description: <b>GAGE + DEVELOP 8 GROUNDWATER WELLS</b>							Return Call: <b>yes / no</b>		
							Damage Claim: <b>yes / no</b>		
PPE REQUIRED (CHECK AND/OR FILL IN THIS SPACE)									
<input checked="" type="checkbox"/> SAFETY VEST		<input checked="" type="checkbox"/> HARD HAT		<input checked="" type="checkbox"/> SHOES & BOOTS		<input type="checkbox"/> HEARING PROTECTION		<input type="checkbox"/> RESPIRATOR	
<input checked="" type="checkbox"/> PROTECTIVE CLOTHING		<input checked="" type="checkbox"/> GLOVES		<input checked="" type="checkbox"/> SAFETY GLASSES/GOGGLES		<input type="checkbox"/> WELDING PPE		<input type="checkbox"/> OTHER _____	
<small>Contractor to complete this section below if circumstances on site or specific to this job, may generate additional hazards not are not described in the JSA</small>									
Hazards identified by JSA			How to reduce and eliminate risk (include PPE to be worn)						
<b>SEE JSA</b>			<b>NA</b>			<b>NA</b>			
Work documentation requirements: <b>Lower Risk - no JSA required</b> <b>Medium Risk / Higher Risk tasks - JSA required</b> <b>Higher Risk - JSA required &amp; appropriate checklist completed (see below)</b>									
Examples of Higher / Medium tasks: <input type="checkbox"/> Work at heights in all cases on open sites - on closed sites if no JSA present <input type="checkbox"/> Work in confined spaces (e.g. tank, interceptor or deep manhole entry)									
<input type="checkbox"/> Trenching or excavation related to underground tank / product lines <input type="checkbox"/> Hot work with risk of product or vapor ignition									
<input type="checkbox"/> Heavy lifting <input type="checkbox"/> LPG system degassing, installation or maintenance									
<b>This form must be completed for each job and updated and re-signed if circumstances change or additional hazards identified.</b>									
<b>SIGN IN</b>		Contractor representative name			Signature			<b>SIGN OUT</b>	
Operating sites: to be signed by the Site Representative		<b>LIEBURS</b>							
Non-operating sites: to be signed by Contractor Representative only									
<b>GENERAL SAFETY CHECKS</b>		Site representative name			Signature			Contractor signature	
<ul style="list-style-type: none"> <li>• Have all site personnel been informed?</li> <li>• Has fuel delivery services been informed?</li> <li>• Is a fuel delivery due?</li> <li>• Have isolation procedures been agreed - lock out/tag out?</li> <li>• Are work areas combined off to protect workers, site staff &amp; public?</li> <li>• Other:</li> </ul>		<b>Denise Johnson</b>						<b>No SITE REP</b>	
PARTS - Ordered, Replaced and/or Disposed (if include model and serial as appropriate)									

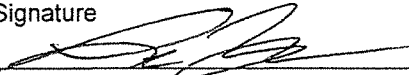
The contractor through its authorized representative shall sign, issue and be solely responsible for all job clearance forms and the obligations arising there under applicable to the work.  
 This form covers important reminders and is not intended to relieve the contractor from safely performing the work in compliance with all applicable laws and regulations.  
 The Site Representative may require the contractor to stop work if it appears that the contractor or any of its workers are failing to comply with the requirements in the applicable items of this form or other applicable safety requirements.



Job Clearance Form												
SUBTRACTOR MUST COMPLETE THIS FORM ON EACH WORK DAY BEFORE WORKING ON THE JOB TO IDENTIFY HAZARDS AND CONTROL THEM TO PROTECT THE HEALTH AND SAFETY OF ALL PERSONNEL AND TO PREVENT DAMAGE TO PROPERTY AND THE ENVIRONMENT												
Station # <b>7970447</b>	Station Address: <b>200 S. PARK ROAD AVE ELICONS BLVD, WA</b>				Work Order Number: <b>131028-LB3</b>		Date: <b>10/29/13</b>					
Contractor Company Name: <b>BLAINE INDUSTRIES</b>		Contractor person in charge (print name): <b>LEE BURG</b>		Number of Workers: <b>1</b>	JSA Reference Number: (if required)	Start Time: <b>0640</b>	End Time: <b>1330</b>	Label:	Travel Time:	Travel Distance:		
Problem/Work Description: <b>SHAUSE + DEVELOP 8 GROUNDWATER WELLS</b>								Return Call: <b>yes / no</b>	Damage Claim: <b>yes / no</b>			
PPE REQUIRED CHECK AND/OR FULL BLANK SPACE												
<input checked="" type="checkbox"/> SAFETY VEST	<input checked="" type="checkbox"/> HARD HAT	<input checked="" type="checkbox"/> SHOES & BOOTS	<input type="checkbox"/> HEARING PROTECTION	<input type="checkbox"/> RESPIRATOR								
<input checked="" type="checkbox"/> PROTECTIVE CLOTHING	<input checked="" type="checkbox"/> GLOVES	<input checked="" type="checkbox"/> SAFETY GLASSES/GOGGLES	<input type="checkbox"/> WELDING PPE	<input type="checkbox"/> OTHER								
Consider to complete this section below if circumstances on site or specific to this job may generate additional hazards, not as not described in the JSA.												
HAZARDOUS MATERIALS			HAZARDOUS MATERIALS BY JSA			How to reduce or eliminate the hazard (PPE or barrier)						
<b>SEE JSA</b>			<b>NA</b>			<b>NA</b>						
Work documentation requirements: <b>Lower Risk - no JSA required</b> <b>Medium Risk / Higher Risk tasks - JSA required</b> <b>Higher Risk - JSA required &amp; appropriate checklist completed (see below)</b>												
<table border="0" style="width:100%;"> <tr> <td style="width:33%;"><b>Examples of Higher / Medium Risk</b></td> <td style="width:33%;"> <input type="checkbox"/> Works at heights in all cases on open areas - on closed areas if no JSA present  <input type="checkbox"/> Trenching or excavation related to underground tank / product lines  <input type="checkbox"/> Heavy lifting             </td> <td style="width:33%;"> <input type="checkbox"/> Work in confined spaces (e.g. tank, interceptor or deep manhole entry)  <input type="checkbox"/> Hot work with risk of product or vapor ignition  <input type="checkbox"/> LPG system degassing, installation or maintenance             </td> </tr> </table>										<b>Examples of Higher / Medium Risk</b>	<input type="checkbox"/> Works at heights in all cases on open areas - on closed areas if no JSA present <input type="checkbox"/> Trenching or excavation related to underground tank / product lines <input type="checkbox"/> Heavy lifting	<input type="checkbox"/> Work in confined spaces (e.g. tank, interceptor or deep manhole entry) <input type="checkbox"/> Hot work with risk of product or vapor ignition <input type="checkbox"/> LPG system degassing, installation or maintenance
<b>Examples of Higher / Medium Risk</b>	<input type="checkbox"/> Works at heights in all cases on open areas - on closed areas if no JSA present <input type="checkbox"/> Trenching or excavation related to underground tank / product lines <input type="checkbox"/> Heavy lifting	<input type="checkbox"/> Work in confined spaces (e.g. tank, interceptor or deep manhole entry) <input type="checkbox"/> Hot work with risk of product or vapor ignition <input type="checkbox"/> LPG system degassing, installation or maintenance										
This form must be completed for each job and updated and re-signed if circumstances change or additional hazards identified.												
<b>SIGN IN</b>				<b>SIGN OUT</b>								
Operating sites: to be signed by the Site Representative				Contractor representative name		Signature		Contractor signature				
Non-operating sites: to be signed by Contractor Representative only				<b>LEE BURG</b>								
<b>GENERAL SAFETY CHECKS</b>				Site representative name		Signature		Site representative name		Signature		
<ul style="list-style-type: none"> <li>• Have all site personnel been informed?</li> <li>• Has fuel delivery services been informed?</li> <li>• Is a fuel delivery due?</li> <li>• Have isolation procedures been agreed - lock out/tag out?</li> <li>• Are work areas combined off to protect workers, site staff &amp; public?</li> <li>• Other:</li> </ul>				<b>NO SITE REP</b>		<b>AYAL</b>		<b>NO SITE REP</b>		<b>AYAL</b>		
<b>PARTS - Order, Replaced and/or Disposed Oil (include model and serial as appropriate)</b>												

The contractor through its authorized representative shall sign, issue and be solely responsible for all job clearance forms and the obligations arising there under applicable to the work.  
 This form covers important reminders and is not intended to relieve the contractor from safely performing the work in compliance with all applicable laws and regulations.  
 The Site Representative may require the contractor to stop work if it appears that the contractor or any of its workers are failing to comply with the requirements in the applicable terms of this form or other applicable safety requirements.

Site Address: <u>200 S. RAILROAD AVE, ELLENSBURG, WA</u>		Date: <u>10/28/13</u>	
Check-In with site representative completed?		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> N/A	
Is fuel delivery scheduled for today?		<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Emergency pump cut-off switch located?		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> N/A	
First aid kit located and confirmed ready-to-use?		<input checked="" type="checkbox"/> Yes	
Fire extinguisher located and confirmed ready-to-use?		<input checked="" type="checkbox"/> Yes	
Eye wash located and confirmed ready-to-use?		<input checked="" type="checkbox"/> Yes	
HASP	Emergency Services information located & reviewed?	<input checked="" type="checkbox"/> Yes	
	Hospital map & route located and reviewed?	<input checked="" type="checkbox"/> Yes	
	Special Hazard Notice section reviewed?	<input checked="" type="checkbox"/> Yes	
	Site Status confirmed or amended, dated and initialed?	<input checked="" type="checkbox"/> Yes	
	Emergency Response procedures reviewed with all work crew members?	<input checked="" type="checkbox"/> Yes	
	Compliance Roster signed by all work crew members?	<input checked="" type="checkbox"/> Yes	
Site walk has been performed to locate wells and identify additional hazards?		<input checked="" type="checkbox"/> Yes	
Job Safety Analysis (JSA) for each task located & reviewed by all work crew members?		<input checked="" type="checkbox"/> Yes	
Work Area Plans reviewed for suitability and effectiveness given current site conditions?		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> N/A	
Traffic Control Plans reviewed for suitability given current road, traffic & weather conditions?		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> N/A	
Stop Work Authority reviewed and understood by all work crew members?		<input checked="" type="checkbox"/> Yes	
<ul style="list-style-type: none"> <li>• In the space below, note unaddressed hazards and conditions that might compromise compliance with Approved Procedures and/or JSA's or impede the safe and proper execution of the Work Plan, Work Area Plan(s) and/or Traffic Control Plan(s).</li> <li>• Report unaddressed hazards and adverse conditions to the Project Manager during Pre-Start Call-In and as hazards are identified or conditions change throughout the workday.</li> <li>• DO NOT COMMENCE OR RESTART WORK until PM has been notified and mitigation measures approved.</li> </ul>			
Time	Hazard or Adverse Condition	PM Initials	Hazard Control Measure
Site representative briefed on planned work activities and Work Area Plans?		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> N/A	
Job Clearance Form completed?		<input checked="" type="checkbox"/> Yes	
Pre-Start Call-In completed and approval to start work received from Project Manager?		<input checked="" type="checkbox"/> Yes	
Printed Name <u>LaBure</u>	Signature 		Time <u>1107</u>

Site Address: <i>200 S. RAILROAD AVE, ELLENSBURG, WA</i>		Date: <i>10/29/13</i>
Check-In with site representative completed?		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> N/A
Is fuel delivery scheduled for today?		<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
Emergency pump cut-off switch located?		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> N/A
First aid kit located and confirmed ready-to-use?		<input checked="" type="checkbox"/> Yes
Fire extinguisher located and confirmed ready-to-use?		<input checked="" type="checkbox"/> Yes
Eye wash located and confirmed ready-to-use?		<input checked="" type="checkbox"/> Yes
HASP	Emergency Services information located & reviewed?	<input checked="" type="checkbox"/> Yes
	Hospital map & route located and reviewed?	<input checked="" type="checkbox"/> Yes
	Special Hazard Notice section reviewed?	<input checked="" type="checkbox"/> Yes
	Site Status confirmed or amended, dated and initialed?	<input checked="" type="checkbox"/> Yes
	Emergency Response procedures reviewed with all work crew members?	<input checked="" type="checkbox"/> Yes
	Compliance Roster signed by all work crew members?	<input checked="" type="checkbox"/> Yes
Site walk has been performed to locate wells and identify additional hazards?		<input checked="" type="checkbox"/> Yes
Job Safety Analysis (JSA) for each task located & reviewed by all work crew members?		<input checked="" type="checkbox"/> Yes
Work Area Plans reviewed for suitability and effectiveness given current site conditions?		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> N/A
Traffic Control Plans reviewed for suitability given current road, traffic & weather conditions?		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> N/A
Stop Work Authority reviewed and understood by all work crew members?		<input checked="" type="checkbox"/> Yes
<ul style="list-style-type: none"> <li>In the space below, note unaddressed hazards and conditions that might compromise compliance with Approved Procedures and/or JSA's or impede the safe and proper execution of the Work Plan, Work Area Plan(s) and/or Traffic Control Plan(s).</li> <li>Report unaddressed hazards and adverse conditions to the Project Manager during Pre-Start Call-In and as hazards are identified or conditions change throughout the workday.</li> <li>DO NOT COMMENCE OR RESTART WORK until PM has been notified and mitigation measures approved.</li> </ul>		
Time	Hazard or Adverse Condition	PM Initials      Hazard Control Measure
Site representative briefed on planned work activities and Work Area Plans?		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> N/A
Job Clearance Form completed?		<input checked="" type="checkbox"/> Yes
Pre-Start Call-In completed and approval to start work received from Project Manager?		<input checked="" type="checkbox"/> Yes
Printed Name <i>LEE BORG</i>	Signature 	Time <i>0640</i>

## WELL GAUGING DATA

Project # 13111-RK1 Date 11/11/18 Client CRA

Site 200 Railroad Ave. S, Ellensburg

Well ID	Time	Well Size (in.)	Sheen / Odor	Depth to Immiscible Liquid (ft.)	Thickness of Immiscible Liquid (ft.)	Volume of Immiscibles Removed (ml)	Depth to water (ft.)	Depth to well bottom (ft.)	Survey Point: TOB or <u>FOC</u>	Notes
MW-1	0900	2					5.08	13.12 ✓✓	↓	
MW-2	0811	2				4.27	13.01 ✓✓			
MW-3	0820	2				4.70	13.10 ✓✓			
MW-4	0829	2				3.60	13.20 ✓✓			
MW-5	0837	2				4.08	13.20			
MW-6	0910	2				4.80	13.20			
MW-7	0845	2				4.30	13.21			
MW-8	0852	2				3.90	13.18			

## LOW FLOW WELL MONITORING DATA SHEET

Project #: <u>13111-024</u>	Client: <u>CRA</u>
Sampler: <u>PK</u>	Gauging Date: <u>11/11/13</u>
Well I.D.: <u>MW-1</u>	Well Diameter (in.): <u>2</u> 3 4 6 8
Total Well Depth (ft.): <u>13.12</u>	Depth to Water (ft.): <u>5.08</u>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVC</u> Grade	Flow Cell Type: <u>YSI-556</u>

Purge Method: 2" Grundfos Pump      ~~Peristaltic Pump~~      Bladder Pump  
 Sampling Method: Dedicated Tubing      ~~New Tubing~~      Other \_\_\_\_\_

Start Purge Time: 1005      Flow Rate: 100 ml/min      Pump Depth: 8'

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or <del>µS/cm</del> )	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or <del>ml</del> )	Depth to Water (ft.)
1011	13.30	6.10	2360	15	1.21	138.1	600	5.14
1014	13.29	6.11	2363	14	1.20	138.7	900	5.16
1017	13.28	6.11	2365	14	1.15	138.3	1200	5.20
1020	13.28	6.12	2369	12	1.13	136.7	1500	5.22
1023	13.27	6.13	2368	9	1.10	135.2	1800	5.25

Did well dewater? Yes  No       Amount actually evacuated: 1.82

Sampling Time: 1024      Sampling Date: 11/11/13

Sample I.D.: GW-062027-11113-PK-MW-1      Laboratory: T-A.

Analyzed for: TPH-G BTEX MTBE TPH-D      Other: SEC-C-C.

Equipment Blank I.D.: @      Duplicate I.D.: \_\_\_\_\_

## LOW FLOW WELL MONITORING DATA SHEET

Project #: 131111-004	Client: CRA
Sampler: RK	Gauging Date: 11/11/13
Well I.D.: MW-2	Well Diameter (in.): <u>2</u> 3 4 6 8
Total Well Depth (ft.): 13.01 <sup>✓</sup>	Depth to Water (ft.): 4.27
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVC</u> Grade	Flow Cell Type: <u>YSI-556</u>

Purge Method: 2" Grundfos Pump ~~Peristaltic Pump~~ Bladder Pump  
 Sampling Method: Dedicated Tubing ~~New Tubing~~ Other \_\_\_\_\_  
 Start Purge Time: 0920 Flow Rate: 100 ml/min Pump Depth: 8'

Time	Temp. ( <u>C</u> or °F)	pH	Cond. (mS/cm or <u>µS/cm</u> )	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or <u>ml</u> )	Depth to Water (ft.)
0926	14.70	6.23	604	17	1.27	103.5	600	4.32
0929	14.71	6.25	603	12	1.27	102.2	900	4.35
0932	14.71	6.25	601	12	1.27	100.7	1200	4.37
0935	14.73	6.26	603	9	1.26	98.3	1500	4.41
0938	14.74	6.27	598	7	1.25	96.1	1600	4.44

Did well dewater? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Amount actually evacuated: <u>1.8L</u>
Sampling Time: <u>0937</u>	Sampling Date: <u>11/11/13</u>
Sample I.D.: <u>GW-062027-111113-RK-MW-2</u>	Laboratory: <u>T-A.</u>
Analyzed for: <u>TPH-G</u> <u>BTEX</u> <u>MTBE</u> <u>TPH-D</u>	Other: <u>sec-c-o-c.</u>
Equipment Blank I.D.: @ _____	Duplicate I.D.: _____

### LOW FLOW WELL MONITORING DATA SHEET

Project #: 13111-224	Client: CRA
Sampler: RK	Gauging Date: 11/11/13
Well I.D.: MW-3	Well Diameter (in.): <u>2</u> 3 4 6 8
Total Well Depth (ft.): 13.10	Depth to Water (ft.): 4.70
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVC</u> Grade	Flow Cell Type: <u>YSI-556</u>

Purge Method: 2" Grundfos Pump ~~Peristaltic Pump~~ Bladder Pump  
 Sampling Method: Dedicated Tubing ~~New Tubing~~ Other \_\_\_\_\_  
 Start Purge Time: 1051 Flow Rate: 100 mL/min Pump Depth: 8'

Time	Temp. ( <u>Q</u> or °F)	pH	Cond. (mS/cm or <del>µS/cm</del> )	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or <u>ml</u> )	Depth to Water (ft.)
1057	13.93	6.80	1054	19	0.78	148.1	600	4.75
1100	13.90	6.81	1050	17	0.79	140.2	900	4.79
1103	13.91	6.81	1048	15	0.78	143.3	1200	4.82
1106	13.91	6.79	1048	15	0.78	142.7	1500	4.84
1109	13.90	6.75	1049	12	0.75	145.4	1600	4.85

Did well dewater? Yes  No  Amount actually evacuated: 1.8L  
 Sampling Time: 1110 Sampling Date: 11/11/13  
 Sample I.D.: GW-06202-11113-RK-MW-3 Laboratory: T.A.  
 Analyzed for: TPH-G BTEX MTBE TPH-D Other: SEC-C-O-C.  
 Equipment Blank I.D.: @ \_\_\_\_\_ Time Duplicate I.D.: \_\_\_\_\_

## LOW FLOW WELL MONITORING DATA SHEET

Project #: <u>131111-024</u>	Client: <u>CRA</u>
Sampler: <u>PK</u>	Gauging Date: <u>11/11/13</u>
Well I.D.: <u>MW-4</u>	Well Diameter (in.): <u>(2)</u> 3 4 6 8 _____
Total Well Depth (ft.): <u>13.20<sup>v</sup></u>	Depth to Water (ft.): <u>3.60</u>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVC</u> Grade	Flow Cell Type: <u>YSI-556</u>

Purge Method: 2" Grundfos Pump      ~~Peristaltic Pump~~      Bladder Pump  
 Sampling Method: Dedicated Tubing      ~~New Tubing~~      Other \_\_\_\_\_

Start Purge Time: 1132      Flow Rate: 100 ml/min      Pump Depth: 7.5'

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or <del>µS/cm</del> )	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or <del>ml</del> )	Depth to Water (ft.)
1138	13.87	6.85	5680	30	0.57	149.1	600	3.65
1141	13.87	6.85	5681	25	0.51	147.3	900	3.62
1144	13.88	6.83	5673	27	0.51	143.2	1200	3.67
1147	13.90	6.83	5676	23	0.50	140.7	1500	3.70
1150	13.92	6.80	5678	24	0.48	141.1	1800	3.73

Did well dewater? Yes  No       Amount actually evacuated: 1.8L

Sampling Time: 1151      Sampling Date: 11/11/13

Sample I.D.: GW-062027-111113-PK-MW-4      Laboratory: T.A.

Analyzed for: TPH-G BTEX MTBE TPH-D      Other: see c.o.c.

Equipment Blank I.D.: \_\_\_\_\_ @ \_\_\_\_\_ Time      Duplicate I.D.: \_\_\_\_\_



## LOW FLOW WELL MONITORING DATA SHEET

Project #: <u>131111-RK</u>	Client: <u>CRA</u>
Sampler: <u>RK</u>	Gauging Date: <u>11/11/13</u>
Well I.D.: <u>MW-5</u>	Well Diameter (in.): <u>2</u> 3 4 6 8
Total Well Depth (ft.): <u>13.20</u>	Depth to Water (ft.): <u>4.08</u>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVC</u> Grade	Flow Cell Type: <u>YSI-556</u>

Purge Method: 2" Grundfos Pump      ~~Peristaltic Pump~~      Bladder Pump  
 Sampling Method: Dedicated Tubing      ~~New Tubing~~      Other \_\_\_\_\_  
 Start Purge Time: 1210      Flow Rate: 100 ml/min      Pump Depth: 7.5'

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or <del>µS/cm</del> )	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or <del>ml</del> )	Depth to Water (ft.)
1216	14.56	6.92	1269	20	1.07	168.2	600	4.13
1219	14.60	6.90	1260	19	1.04	160.3	900	4.17
1222	14.60	6.91	1261	19	1.02	161.4	1200	4.20
1225	14.61	6.91	1261	17	1.02	157.9	1500	4.23
1228	14.61	6.90	1258	14	1.01	155.7	1800	4.27

Did well dewater? Yes  No       Amount actually evacuated: 1.8L

Sampling Time: 1229      Sampling Date: 11/11/13

Sample I.D.: GW-062022-111113-RK-MW-5      Laboratory: T.A.

Analyzed for: TPH-G BTEX MTBE TPH-D      Other: SEC-C-C.

Equipment Blank I.D.: \_\_\_\_\_ @ \_\_\_\_\_ Time      Duplicate I.D.: \_\_\_\_\_

## LOW FLOW WELL MONITORING DATA SHEET

Project #: <u>131111-024</u>	Client: <u>CRA</u>
Sampler: <u>PK</u>	Gauging Date: <u>11/11/13</u>
Well I.D.: <u>MW-6</u>	Well Diameter (in.): <u>2</u> 3 4 6 8
Total Well Depth (ft.): <u>13.20</u>	Depth to Water (ft.): <u>4.80</u>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVC</u> Grade	Flow Cell Type: <u>TSF-556</u>

Purge Method: 2" Grundfos Pump      ~~Peristaltic Pump~~      Bladder Pump  
 Sampling Method: Dedicated Tubing      ~~New Tubing~~      Other \_\_\_\_\_  
 Start Purge Time: 1247      Flow Rate: 100 ml/min      Pump Depth: 7.5'

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or <del>µS/cm</del> )	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or <del>ml</del> )	Depth to Water (ft.)
1253	14.01	7.05	2470	14	1.33	198.1	600	4.85
1256	14.05	6.98	2380	10	1.20	190.3	900	4.82
1259	14.05	6.97	2387	9	1.21	191.4	1200	4.90
1302	14.04	6.95	2390	8	1.22	185.7	1500	4.92
1305	14.04	6.96	2396	6	1.22	187.2	1800	4.93

Did well dewater? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Amount actually evacuated: <u>1.82</u>
Sampling Time: <u>1306</u>	Sampling Date: <u>11/11/13</u>
Sample I.D.: <u>GW-062022-11113-PK-MW-6</u>	Laboratory: <u>T-A.</u>
Analyzed for: <u>TPH-G</u> <u>BTEX</u> <u>MTBE</u> <u>TPH-D</u> Other: <u>SEC-C-C.</u>	
Equipment Blank I.D.: <u>@</u> Time	Duplicate I.D.:

## LOW FLOW WELL MONITORING DATA SHEET

Project #: 13111- <del>xx</del>	Client: CRA
Sampler: <del>PK</del>	Gauging Date: 11/11/13
Well I.D.: MW-7	Well Diameter (in.): <u>2</u> 3 4 6 8
Total Well Depth (ft.): 13-21	Depth to Water (ft.): 4-30
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVC</u> Grade	Flow Cell Type: <u>YSI-556</u>

Purge Method: 2" Grundfos Pump      ~~Peristaltic Pump~~      Bladder Pump  
 Sampling Method: Dedicated Tubing      New Tubing      Other \_\_\_\_\_  
 Start Purge Time: 1320      Flow Rate: 100 ml/min      Pump Depth: 7.5'

Time	Temp. ( <u>C</u> or °F)	pH	Cond. (mS/cm or <u>µS/cm</u> )	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or <u>ml</u> )	Depth to Water (ft.)
1326	14.60	6.75	1118	14	1.14	174.2	600	4.37
1329	14.61	6.70	1115	13	1.10	170.9	900	4.40
1332	14.61	6.71	1111	13	1.11	166.2	1200	4.42
1335	14.60	6.71	1112	12	1.13	167.3	1500	4.45
1338	14.58	6.70	1112	9	1.13	167.9	1800	4.48

Did well dewater? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Amount actually evacuated: <u>1.8L</u>
Sampling Time: <u>1339</u>	Sampling Date: <u>11/11/13</u>
Sample I.D.: <u>GW-062027-11113-<del>PK</del>-MW-7</u>	Laboratory: <u>T.A.</u>
Analyzed for: <u>PHG</u> <u>BTEX</u> <u>MTBE</u> <u>TPH</u>	Other: <u>see c-o-c.</u>
Equipment Blank I.D.: @ _____	Duplicate I.D.: _____

## LOW FLOW WELL MONITORING DATA SHEET

Project #: 131111-004	Client: CRA
Sampler: PK	Gauging Date: 11/11/13
Well I.D.: MW-8	Well Diameter (in.): ② 3 4 6 8
Total Well Depth (ft.): 13.18	Depth to Water (ft.): 3.90
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVC</u> Grade	Flow Cell Type: YSE-556

Purge Method: 2" Grundfos Pump      ~~Peristaltic Pump~~      Bladder Pump  
 Sampling Method: Dedicated Tubing      New Tubing      Other \_\_\_\_\_  
 Start Purge Time: 1400      Flow Rate: 100 mL/min      Pump Depth: 7.5'

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or <del>µS/cm</del> )	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or ml)	Depth to Water (ft.)
1406	15.02	6.90	1079	13	1.10	170.3	600	3.95
1409	15.00	6.92	1073	12	1.13	162.1	900	3.79
1412	15.00	6.92	1070	12	1.17	160.9	1200	4.00
1415	15.00	6.91	1065	10	1.17	155.3	1500	4.03
1418	15.01	6.89	1061	10	1.16	158.9	1800	4.05

Did well dewater? Yes <input checked="" type="checkbox"/> No <input checked="" type="checkbox"/>	Amount actually evacuated: 1.8L
Sampling Time: 1414	Sampling Date: 11/11/13
Sample I.D.: GW-062027-111113-PK-MW-8	Laboratory: T-A.
Analyzed for: <u>PH-G</u> <u>BTEX</u> <u>MTBE</u> <u>TPH-D</u>	Other: see c-o-c.
Equipment Blank I.D.: @ _____	Duplicate I.D.: _____

LAB (LOCATION)

- CALSCIENCE ( )
- SPL Houston ( )
- XENCO ( )
- TEST AMERICA ( )
- OTHER ( )



# Shell Oil Products Chain Of Custody Record

**Please Check Appropriate Box:**

<input type="checkbox"/> ENV. SERVICES	<input type="checkbox"/> MOTIVA RETAIL	<input type="checkbox"/> SHELL RETAIL
<input type="checkbox"/> MOTIVA SD&CM	<input checked="" type="checkbox"/> CONSULTANT	<input type="checkbox"/> LUBES
<input type="checkbox"/> SHELL PIPELINE	<input type="checkbox"/> OTHER	

**Print Bill To Contact Name:**  
Brian Peters- 062027

**INCIDENT # (ENV. SERVICES):** 7 9 7 0 4 4 7

**PO #** \_\_\_\_\_ **SAP #** \_\_\_\_\_

**CHECK IF NO INCIDENT # APPLIES**

**DATE:** 11/11/13

**PAGE:** 1 of 1

**SAMPLING COMPANY:**  
Blaine Tech Services

**ADDRESS:**  
20735 Belshaw Avenue, Carson, CA 90746

**PROJECT CONTRACT # (Hardcopy or PDF Report #):**  
Lorin King

**TELEPHONE:** (310) 885-4455 x 108 **FAX:** (310) 637-5802 **E-MAIL:** lking@blainetech.com

**SITE ADDRESS: Street and City**  
200 Railroad Ave S - Ellensburg

**State:** WA **GLOBAL ID NO.:** NA

**EDP DELIVERABLE TO (Name, Company, Office Location):** CRA, Seattle, WA **PHONE NO.:** 425-563-6500

**E-MAIL:** Snell-US-LabDataManagement@CRAworld.com **CONSULTANT PROJECT NO.:** 13113

**SAMPLER NAME(S) (Print):** *HDJ Dmupay* **LAB USE ONLY**

**TURNAROUND TIME (CALENDAR DAYS):**  
 STANDARD (14 DAY) 
  5 DAYS 
  3 DAYS 
  2 DAYS 
  24 HOURS 
  RESULTS NEEDED ON WEEKEND

LA - RWQCB REPORT FORMAT  UST AGENCY:

## REQUESTED ANALYSIS

**SPECIAL INSTRUCTIONS OR NOTES:**

1) Please upload the "CRA EQulS 4-file EDD" to the CRA Website (<http://cralabedupload.craworld.com/equls/default.aspx>) and/or send it to the Shell-US-LabDataManagement@CRAworld.com email folder. 2) Please indicate that you have uploaded the EDD by including "EDD Uploaded to CRA website" in the body of the email used to deliver the final PDF report to the Shell-US-LabDataManagement@CRAworld.com email folder.

SHELL CONTRACT RATE APPLIES  
 STATE REIMBURSEMENT RATE APPLIES  
 EDO NOT NEEDED  
 RECEIPT VERIFICATION REQUESTED

Copy final report to Shell.Lab.Billing@craworld.com, Shell.results@craworld.com, and Shell-US-LabDataManagement@CRAworld.com

Email Invoice to Shell.Lab.Billing@craworld.com

See Laboratory PM for WA Dept. of Ecology MTCA Method A cleanup levels for minimum detection limits.

**Matrix Codes - WG (groundwater), WS (surface water), WP (drinking water source), W (Trip or Temp Blank)**

LAB USE ONLY	SAMPLE ID					TIME	MATRIX	PRESERVATIVE					NO. OF CONT.	REQUESTED ANALYSIS												TEMPERATURE ON RECEIPT C°	Container PID Readings or Laboratory Notes						
	PROJECT NUMBER	DATE (MMDDYY)	SAMPLER INITIALS	WELL ID	HCL			HNO3	H2SO4	NONE	OTHER	NWTPH-Gx		NWTPH-Dx w/Silica Gel Cleanup	BTEX (8260B)	5 Oxygenates, MTBE, TBA, DIPE, TAME, ETBE (8260B)	EDC (8260B)	EDB	NWTPH-Dx w/o Silica Gel Cleanup	Nitrate/Nitrite by 853.2	Dissolved CO2 by SM4500CO2C	Dissolved Methane by RSK-175	Full Scan VOC's By 8260	Alkalinity by SM2320B	Dissolved Iron (Ferrous)			Manganese by 6010/6020	TPH-O	MTBE (8260B)	Dissolved Lead by 6020	Total Lead	TPH-O w/o Silica Gel Cleanup
	GW	062027	11/11/13	PK	MW-1			X	X						X	X	X	X	X	X													X
GW	062027	11/11/13	PK	MW-2	X	X					X	X	X	X	X	X										X		X	X				
GW	062027	11/11/13	PK	MW-3	X	X					X	X	X	X	X	X										X		X	X				
GW	062027	11/11/13	PK	MW-4	X	X					X	X	X	X	X	X										X		X	X				
GW	062027	11/11/13	PK	MW-5	X	X					X	X	X	X	X	X										X		X	X				
GW	062027	11/11/13	PK	MW-6	X	X					X	X	X	X	X	X										X		X	X				
GW	062027	11/11/13	PK	MW-7	X	X					X	X	X	X	X	X										X		X	X				
GW	062027	11/11/13	PK	MW-8	X	X					X	X	X	X	X	X										X		X	X				

Retrieved by: (Signature)	Received by: (Signature) <i>Shipped via FedEx</i>	Date: 11/11/13	Time:
Retrieved by: (Signature)	Received by: (Signature)	Date:	Time:
Retrieved by: (Signature)	Received by: (Signature)	Date:	Time:

INCIDENT # 7970447

ADDRESS 200 Railroad Ave - S

DATE: 11/11/13

CITY & STATE Ellensburg WA

Well ID	Manway Cover Type, Condition & Size				Observations Upon Arrival								Detailed Explanation of Maintenance Recommended and Performed	Photos of Well Condition	Repair Date and PM Initials				
	Flush	G	P	Size (inch)	Well Labeled/ Painted Properly	Well Cap (Gripper) Condition	Well Lock Condition			Well Pad / Surface Condition									
MW-1	Flush	G	P	8	Y	N	G	R	G	R	NL	G	P		Y	N			
MW-2	Flush	G	P	8	Y	N	G	R	G	R	NL	G	P		Y	N			
MW-3	Flush	G	P	8	Y	N	G	R	G	R	NL	G	P		Y	N			
MW-4	Flush	G	P	8	Y	N	G	R	G	R	NL	G	P		Y	N			
MW-5	Flush	G	P	8	Y	N	G	R	G	R	NL	G	P		Y	N			
MW-6	Flush	G	P	8	Y	N	G	R	G	R	NL	G	P		Y	N			
MW-7	Flush	G	P	8	Y	N	G	R	G	R	NL	G	P		Y	N			
MW-8	Flush	G	P	8	Y	N	G	R	G	R	NL	G	P		Y	N			
	Standpipe	Flush	G	P		Y	N	G	R	G	R	NL	G	P		Y	N		
	Standpipe	Flush	G	P		Y	N	G	R	G	R	NL	G	P		Y	N		
	Standpipe	Flush	G	P		Y	N	G	R	G	R	NL	G	P		Y	N		
TOTAL # CAPS REPLACED =								0					0	= TOTAL # OF LOCKS REPLACED					
Condition of Soil Boring Patches or Abandoned Monitoring Wells		G	P	N/A	IPEDCR Borings Well IDs or Location Description									Y	N				
Remediation Compound(s) in (Check boxes that apply)		Condition of Enclosure			Condition of Area Inside Enclosure			Compound Security			Emergency Contact Info. Visible			Cleaning / Repairs Recommended and Conducted			Photos of Condition	Repair Date and PM Initials	
NA		G			G			G			Y						Y	N	
Building		G			G			G			Y						Y	N	
Building w/ Fence Comp.		G			G			G			Y						Y	N	
Fenced Compound		G			G			G			Y						Y	N	
Trailer		G			G			G			Y						Y	N	
Number of Drums On-site	Does the Label Reveal the Source of the Contaminant?		Labeled Correctly and Writing Legible			Drum Condition			Containment Drums Related to Environmental			Drums Located to Minimize Business Interference			Detailed Explanation of Any Issues Resolved			Photos of Drum Condition	Repair Date and PM Initials
0	Y	N	N/A			G			N/A			Y						Y	N

G = Good (Acceptable) R = Replaced  
P = Poor (needs attention) NL = No Lock Required

All environmental wells and the remediation compound were in good condition, locked, and secured upon my departure (unless otherwise noted above).

Note: All repairs other than locks and grippers require Shell PM approval prior to repair.

\* = Groundwater monitoring well covers must be painted and labeled in accordance with applicable regulations.

Ricky Dhuvar BJS  
Print or type Name of Field Personnel & Consultant Company

SHELL BILL OF LADING

SOURCE RECORD **BILL OF LADING**

FOR NON-HAZARDOUS PURGEWATER RECOVERED FROM GROUNDWATER WELLS AT SHELL FACILITIES IN THE STATE OF WASHINGTON OR OREGON. THE NON-HAZARDOUS PURGE- WATER WHICH HAS BEEN RECOVERED FROM GROUND- WATER WELLS, IS MADE UP INTO LOADS OF APPROPRIATE SIZE TO BE TRANSPORTED & PROCESSED BY A SHELL APPROVED WASTE HAULER.

The contractor performing this work is BLAINE TECH SERVICES, INC. 22727 72<sup>ND</sup> Ave South, Suite D - 102, Kent, WA 98032. Blaine Tech Services, Inc. is authorized by SHELL OIL COMPANY (SHELL) to recover, collect, apportion into loads, and haul the Non-Hazardous Well Purgewater that is drawn from wells at the SHELL facility indicated below and to deliver that purgewater to BTS. Transport routing of the Non-Hazardous Well Purgewater may be direct from one Shell facility to BTS; from one Shell facility to BTS via another Shell facility; or any combination thereof. The Non-Hazardous Well Purgewater is and remains the property of SHELL.

This Source Record **BILL OF LADING** was initiated to cover the recovery of Non-Hazardous Well Purgewater from wells at the SHELL facility described below:

797047 Perry Pineda  
 INCIDENT # Shell Engineer

200 Railroad Ave. S Ellensburg WA  
 street number street name city state

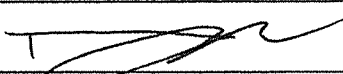
WELL I.D.	GALS.	WELL I.D.	GALS.
MW-1	0.5		
MW-2	0.5		
MW-3	0.5		
MW-4	0.5		
MW-5	0.5		
MW-6	0.5		
MW-7	0.5		
MW-8	0.5		
added equip.		any other	
rinse water	1	adjustments	
<b>TOTAL GALS. RECOVERED</b>	<b>5</b>	loaded onto	
		BTS vehicle #	90
BTS event #	time	date	
13111-PA1	1620	11/11/13	
signature _____			
*****			
<b>RECEIVED AT</b>	time	date	
BTS Kent		/ /	
unloaded by			
signature _____			

Job Clearance Form									
Station # 7970442	Station Address: 200 Railroad Ave. S, Elkensburg	Work Order Number: 13111-RM1			Date: 11/11/13				
Contractor Company Name BTS	Contractor person in charge (print name): Ricky Dugan	Number of Workers: 1	JSA Reference Number: (if required)	Start Time: 0800	End Time: 1433	Level:	Travel Time:	Travel Distance:	
Problem/Work Description:						Return Call: yes / no			
						Damage Claim: yes / no			
PRE-REQUIRED CHECK AND/OR FULL-BANK SPACE									
<input checked="" type="checkbox"/> SAFETY VEST	<input checked="" type="checkbox"/> HARD HAT	<input checked="" type="checkbox"/> SHOES & BOOTS	<input type="checkbox"/> HEARING PROTECTION	<input type="checkbox"/> RESPIRATOR					
<input checked="" type="checkbox"/> PROTECTIVE CLOTHING	<input checked="" type="checkbox"/> GLOVES	<input checked="" type="checkbox"/> SAFETY GLASSES/GOGGLES	<input type="checkbox"/> WELDING PPE	<input type="checkbox"/> OTHER					
Contractor to complete this section below. If circumstances on site or specific to this job, may generate additional hazards, that are not described in the JSA.									
Hazard 1			Hazard 2			Hazard 3			
Grange Purge Sample			N/A						
Work documentation requirements: Lower Risk - no JSA required    Medium Risk / Higher Risk tasks - JSA required    Higher Risk - JSA required & appropriate checklist completed (see below)									
Examples of Higher / Medium Risk: <ul style="list-style-type: none"> <li><input type="checkbox"/> Work at heights: in all cases on open sites - on closed sites if no JSA present</li> <li><input type="checkbox"/> Work in confined spaces (e.g. tank, interceptor or deep manhole entry)</li> <li><input type="checkbox"/> Trenching or excavation related to underground tank / product lines</li> <li><input type="checkbox"/> Hot work with risk of product or vapor ignition</li> <li><input type="checkbox"/> Heavy lifting</li> <li><input type="checkbox"/> LPG system degassing, installation or maintenance</li> </ul>									
This form must be completed for each job and updated and re-signed if circumstances change or additional hazards identified.									
<b>SIGN IN</b>			<b>SIGN OUT</b>						
Operating sites: to be signed by the Site Representative			Contractor representative name			Signature			Contractor signature
Non-operating sites: to be signed by Contractor Representative only			Ricky Dugan						
<b>GENERAL SAFETY CHECKS</b>			<b>GENERAL SAFETY CHECKS</b>						
<ul style="list-style-type: none"> <li>• Have all site personnel been informed?</li> <li>• Has fuel delivery service been informed?</li> <li>• Is a fuel delivery due?</li> <li>• Have isolation procedures been agreed - lock out/tag out?</li> <li>• Are work areas cordoned off to protect workers, site staff &amp; public?</li> <li>• Other:</li> </ul>			<ul style="list-style-type: none"> <li>• Has the work area been left tidy and safe?</li> <li>• Are site personnel aware of status of work including remaining isolation?</li> <li>• Are changes to equipment documented and communicated?</li> <li>• All incidents, near incidents, unsafe situations reported?</li> <li>• Other:</li> </ul>			Site representative name			Signature
PARTS - Ordered, Replaced and/or Disposed OI (include model and serial #s as appropriate)									

The contractor through its authorized representative shall sign, issue and be solely responsible for all job clearance forms and the obligations arising there under applicable to the work.

This form covers important reminders and is not intended to relieve the contractor from safely performing the work in compliance with all applicable laws and regulations. The Site Representative may require the contractor to stop work if it appears that the contractor or any of its workers are failing to comply with the requirements in the applicable terms of this form or other applicable safety requirements.



Site Address: <i>200 Railroad Ave. S, Ellensburg</i>		Date: <i>11/11/13</i>	
Check-In with site representative completed?		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> N/A	
Is fuel delivery scheduled for today?		<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Emergency pump cut-off switch located?		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> N/A	
First aid kit located and confirmed ready-to-use?		<input checked="" type="checkbox"/> Yes	
Fire extinguisher located and confirmed ready-to-use?		<input checked="" type="checkbox"/> Yes	
Eye wash located and confirmed ready-to-use?		<input checked="" type="checkbox"/> Yes	
HASP	Emergency Services information located & reviewed?	<input checked="" type="checkbox"/> Yes	
	Hospital map & route located and reviewed?	<input checked="" type="checkbox"/> Yes	
	Special Hazard Notice section reviewed?	<input checked="" type="checkbox"/> Yes	
	Site Status confirmed or amended, dated and initialed?	<input checked="" type="checkbox"/> Yes	
	Emergency Response procedures reviewed with all work crew members?	<input checked="" type="checkbox"/> Yes	
	Compliance Roster signed by all work crew members?	<input checked="" type="checkbox"/> Yes	
Site walk has been performed to locate wells and identify additional hazards?		<input checked="" type="checkbox"/> Yes	
Job Safety Analysis (JSA) for each task located & reviewed by all work crew members?		<input checked="" type="checkbox"/> Yes	
Work Area Plans reviewed for suitability and effectiveness given current site conditions?		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> N/A	
Traffic Control Plans reviewed for suitability given current road, traffic & weather conditions?		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> N/A	
Stop Work Authority reviewed and understood by all work crew members?		<input checked="" type="checkbox"/> Yes	
<ul style="list-style-type: none"> <li>In the space below, note unaddressed hazards and conditions that might compromise compliance with Approved Procedures and/or JSA's or impede the safe and proper execution of the Work Plan, Work Area Plan(s) and/or Traffic Control Plan(s).</li> <li>Report unaddressed hazards and adverse conditions to the Project Manager during Pre-Start Call-In and as hazards are identified or conditions change throughout the workday.</li> <li>DO NOT COMMENCE OR RESTART WORK until PM has been notified and mitigation measures approved.</li> </ul>			
Time	Hazard or Adverse Condition	PM Initials	Hazard Control Measure
Site representative briefed on planned work activities and Work Area Plans?		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> N/A	
Job Clearance Form completed?		<input checked="" type="checkbox"/> Yes	
Pre-Start Call-In completed and approval to start work received from Project Manager?		<input checked="" type="checkbox"/> Yes	
Printed Name <i>Erney Dupont</i>	Signature 	Time <i>0800</i>	



WELL GAUGING DATA

Project # 140320-SS1 Date 3/20/14 Client CRA-Seattle

Site 200 Railroad Ave South Ellensburg, WA

Well ID	Time	Well Size (in.)	Sheen / Odor	Depth to Immiscible Liquid (ft.)	Thickness of Immiscible Liquid (ft.)	Volume of Immiscibles Removed (ml)	Depth to water (ft.)	Depth to well bottom (ft.)	Survey Point: TOB or TOC	Notes
MW-1	0932	2					4.66	13.18	TOC	
MW-2	1033	2					4.02	12.96		
MW-3	1118	2				4.15	13.05			
MW-4	1209	2				2.70	13.12			
MW-5	1249	2				3.38	13.12			
MW-6	1335	2				4.30	13.14			
MW-7	1407	2				3.62	13.14			
MW-8	1448	2				3.25	13.13	—		

### LOW FLOW WELL MONITORING DATA SHEET

Project #: <u>140320-SS1</u>	Client: <u>7970447</u>
Sampler: <u>SS</u>	Gauging Date: <u>3/20/14</u>
Well I.D.: <u>MW-1</u>	Well Diameter (in.): <u>2</u> 3 4 6 8
Total Well Depth (ft.): <u>13.18</u>	Depth to Water (ft.): <u>4.66</u>
Depth to Free Product: <u>—</u>	Thickness of Free Product (feet): <u>—</u>
Referenced to: <u>PVC</u> Grade	Flow Cell Type: <u>YSI 556</u>

Purge Method: 2" Grundfos Pump      ~~Peristaltic Pump~~      Bladder Pump  
 Sampling Method: Dedicated Tubing      ~~New Tubing~~      Other \_\_\_\_\_  
 Start Purge Time: 0938      Flow Rate: 100 mL/min      Pump Depth: 7'

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or <u>µS/cm</u> )	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or <u>mL</u> )	Depth to Water (ft.)
0943	7.78	5.45	2580	217	8.41	216.4	500	4.66
0946	7.30	5.03	2726	188	3.27	205.6	800	4.67
0949	7.29	4.94	2737	162	2.64	202.0	1100	4.68
0952	7.22	4.92	2740	148	2.43	201.0	1400	4.68
0955	7.18	4.91	2740	120	2.28	199.8	1700	4.68
0958	7.14	4.91	2740	116	2.29	198.6	2000	4.68

Did well dewater? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Amount actually evacuated: <u>2000 mL</u>
Sampling Time: <u>1015</u>	Sampling Date: <u>3/20/14</u>
Sample I.D.: <u>GW-062027-032014-SS-MW-1</u> Laboratory: <u>TA</u>	
Analyzed for:      TPH-G    BTEX    MTBE    TPH-D      Other: <u>See COC</u>	
Equipment Blank I.D.:      @      Time      Duplicate I.D.:	

## LOW FLOW WELL MONITORING DATA SHEET

Project #: 140320-SS1	Client: 7970447
Sampler: SS	Gauging Date: 3/20/14
Well I.D.: MW-2	Well Diameter (in.): ② 3 4 6 8 ____
Total Well Depth (ft.): 12.96	Depth to Water (ft.): 4.02
Depth to Free Product: _____	Thickness of Free Product (feet): _____
Referenced to: <u>PVC</u> Grade	Flow Cell Type: YSI SSG

Purge Method: 2" Grundfos Pump                      Peristaltic Pump                      Bladder Pump  
 Sampling Method: Dedicated Tubing                      New Tubing                      Other \_\_\_\_\_  
 Start Purge Time: 1035                      Flow Rate: 100 mL/min                      Pump Depth: 6' BTDC

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or <del>µS/cm</del> )	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to Water (ft.)
1040	8.40	6.12	922	81	4.93	169.3	500	4.03
1043	8.64	6.44	856	64	1.14	160.8	800	4.04
1046	8.61	6.56	846	52	0.75	158.1	1100	4.05
1049	8.50	6.60	828	32	0.59	156.6	1400	4.06
1052	8.44	6.61	827	28	0.55	154.3	1700	4.06
1055	8.41	6.61	827	26	0.53	152.0	2000	4.06

Did well dewater? Yes <u>(No)</u>	Amount actually evacuated: 2000 mL
Sampling Time: 1115	Sampling Date: 3/20/14
Sample I.D.: GW-067027-072014-SS-MV-2	Laboratory: TA
Analyzed for: TPH-G BTEX MTBE TPH-D	Other: See COC
Equipment Blank I.D.: @ _____	Duplicate I.D.: _____

### LOW FLOW WELL MONITORING DATA SHEET

Project #: 140320-SS1	Client: 7970447
Sampler: SS	Gauging Date: 3/20/14
Well I.D.: MW-3	Well Diameter (in.): 2 3 4 6 8 ____
Total Well Depth (ft.): 13.05	Depth to Water (ft.): 4.15
Depth to Free Product: _____	Thickness of Free Product (feet): _____
Referenced to: <input checked="" type="checkbox"/> PVC Grade	Flow Cell Type: YSI 556

Purge Method: 2" Grundfos Pump                      Peristaltic Pump                      Bladder Pump  
 Sampling Method: Dedicated Tubing                      New Tubing                      Other \_\_\_\_\_  
 Start Purge Time: 1122                      Flow Rate: 100 mL/min                      Pump Depth: 6.5' BPOC

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or µS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to Water (ft.)
1127	9.02	5.83	991	312	3.34	167.2	500	4.15
1130	9.18	6.54	990	263	0.50	153.6	800	4.18
1133	8.52	6.69	980	201	0.43	152.9	1100	4.19
1136	8.88	6.70	977	199	0.47	154.0	1400	4.19

Did well dewater? Yes <input checked="" type="checkbox"/> No	Amount actually evacuated: 1400
Sampling Time: 1150	Sampling Date: 3/20/14
Sample I.D.: GW-062027-032014-SS-MW-3	Laboratory: TA
Analyzed for: TPH-G BTEX MTBE TPH-D	Other: See COC
Equipment Blank I.D.: @ <small>Time</small>	Duplicate I.D.:

### LOW FLOW WELL MONITORING DATA SHEET

Project #: 140326-SS1	Client: 7970447
Sampler: SS	Gauging Date: 3/20/14
Well I.D.: MLV-4	Well Diameter (in.): ② 3 4 6 8
Total Well Depth (ft.): 13.12	Depth to Water (ft.): 2.76
Depth to Free Product: —	Thickness of Free Product (feet): —
Referenced to: <u>PVC</u> Grade	Flow Cell Type: YSI SSG

Purge Method: 2" Grundfos Pump      Peristaltic Pump      Bladder Pump  
 Sampling Method: Dedicated Tubing      New Tubing      Other \_\_\_\_\_  
 Start Purge Time: 1213      Flow Rate: 100 mL/min      Pump Depth: 8' BTOC

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or µS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to Water (ft.)
1218	8.04	6.80	4906	286	3.71	192.4	300	2.80
1221	8.07	6.79	5189	201	1.78	197.8	800	2.88
1224	8.11	6.78	5192	206	1.66	199.2	1100	2.94
1227	8.16	6.78	5193	198	1.62	200.4	1400	2.98

Did well dewater? Yes  No       Amount actually evacuated: 1400 mL

Sampling Time: 1245      Sampling Date: 3/20/14

Sample I.D.: GW-062027-032014-SS-MLV-4      Laboratory: TA

Analyzed for: TPH-G    BTEX    MTBE    TPH-D      Other: See COC

Equipment Blank I.D.: @      Duplicate I.D.:

## LOW FLOW WELL MONITORING DATA SHEET

Project #: 140320-SS1	Client: 7970447
Sampler: SS	Gauging Date: 3/20/14
Well I.D.: MV-5	Well Diameter (in.): ② 3 4 6 8
Total Well Depth (ft.): 13.12	Depth to Water (ft.): 3.38
Depth to Free Product: —	Thickness of Free Product (feet): —
Referenced to: PVC Grade	Flow Cell Type: YSI SSG

Purge Method: 2" Grundfos Pump      Peristaltic Pump      Bladder Pump  
 Sampling Method: Dedicated Tubing      New Tubing      Other \_\_\_\_\_  
 Start Purge Time: 1253      Flow Rate: 100 mL/min      Pump Depth: 6.5' BTOC

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or μS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or pfs)	Depth to Water (ft.)
1258	11.41	7.38	1470	40	3.89	185.4	300	3.40
1301	11.74	7.12	1259	34	2.34	183.7	800	3.42
1304	11.78	7.11	1260	28	0.33	182.0	1100	3.44
1307	11.83	7.11	1261	27	0.31	181.6	1400	3.46

Did well dewater? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Amount actually evacuated: 1400 mL
Sampling Time: 1325	Sampling Date: 3/20/14
Sample I.D.: GW-062027-032014-SS-MV-5 Laboratory: TA	
Analyzed for: TPH-G BTEX MTBE TPH-D	Other: See COC
Equipment Blank I.D.: @ <small>Time</small>	Duplicate I.D.:



## LOW FLOW WELL MONITORING DATA SHEET

Project #: 140320-SS1	Client: 7970447
Sampler: SS	Gauging Date: 3/20/14
Well I.D.: MW-G	Well Diameter (in.): ② 3 4 6 8 ____
Total Well Depth (ft.): 13.14	Depth to Water (ft.): 4.30
Depth to Free Product: _____	Thickness of Free Product (feet): _____
Referenced to: <u>PVC</u> Grade	Flow Cell Type: <u>YSI SSG</u>

Purge Method: 2" Grundfos Pump      Peristaltic Pump      Bladder Pump  
 Sampling Method: Dedicated Tubing      New Tubing      Other \_\_\_\_\_  
 Start Purge Time: 1338      Flow Rate: 100 mL/min      Pump Depth: 6.5 BTOC

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or µS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to Water (ft.)
1343	8.95	5.74	3668	63	6.96	232.4	500	4.30
1346	8.61	4.72	3906	62	1.30	214.0	800	4.30
1349	8.55	4.55	3945	41	1.05	213.5	1100	4.30
1352	8.53	4.56	3948	36	1.01	212.4	1400	4.30
1355	8.48	4.56	3949	33	0.98	211.8	1700	4.30

Did well dewater? Yes <input checked="" type="radio"/> No <input type="radio"/>	Amount actually evacuated: 1700 mL
Sampling Time: 1410	Sampling Date: 3/20/14
Sample I.D.: GW-062027-032014-SS-MW-G	Laboratory: TA
Analyzed for: TPH-G BTEX MTBE TPH-D	Other: See COC
Equipment Blank I.D.: @ _____	Duplicate I.D.: _____

## LOW FLOW WELL MONITORING DATA SHEET

Project #: 140320-SS1	Client: 7970447
Sampler: 5S	Gauging Date: 3/20/14
Well I.D.: MW-7	Well Diameter (in.): ② 3 4 6 8
Total Well Depth (ft.): 13.14	Depth to Water (ft.): 3.62
Depth to Free Product: —	Thickness of Free Product (feet): —
Referenced to: <u>PVO</u> Grade	Flow Cell Type: <u>YSI 556</u>

Purge Method: 2" Grundfos Pump      ~~Peristaltic Pump~~      Bladder Pump  
 Sampling Method: Dedicated Tubing      New Tubing      Other \_\_\_\_\_  
 Start Purge Time: 1412      Flow Rate: 100 mL/min      Pump Depth: 6' BTOC

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or µS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or <del>ml</del> )	Depth to Water (ft.)
1417	10.32	6.14	1431	49	6.69	193.5	800	3.66
1420	10.16	6.63	1221	33	0.37	190.6	800	3.71
1423	10.08	6.63	1224	24	0.35	188.1	1100	3.74
1426	10.01	6.63	1224	20	0.34	186.2	1400	3.77

Did well dewater? Yes <input type="checkbox"/> <u>No</u> <input checked="" type="checkbox"/>	Amount actually evacuated: 1400 mL
Sampling Time: 1445	Sampling Date: 3/20/14
Sample I.D.: <u>GW-062027-032014-SS-MV-7</u>	Laboratory: <u>TA</u>
Analyzed for: TPH-G BTEX MTBE TPH-D	Other: <u>See Coc</u>
Equipment Blank I.D.: @ _____	Duplicate I.D.: _____

## LOW FLOW WELL MONITORING DATA SHEET

Project #: 140320-531	Client: 7970447
Sampler: SS	Gauging Date: 3/20/14
Well I.D.: MW-8	Well Diameter (in.): $\varnothing$ 3 4 6 8 <u>    </u>
Total Well Depth (ft.): 13.13	Depth to Water (ft.): 3.25
Depth to Free Product: <u>    </u>	Thickness of Free Product (feet): <u>    </u>
Referenced to: <u>PVC</u> Grade	Flow Cell Type: <u>YSI SSG</u>

Purge Method: 2" Grundfos Pump                      Peristaltic Pump                      Bladder Pump  
 Sampling Method: Dedicated Tubing                      New Tubing                      Other       
 Start Purge Time: 1453                      Flow Rate: 100 mL/min                      Pump Depth: 5.5' BTOC

Time	Temp. ( <del>DO</del> or °F)	pH	Cond. (mS/cm or <del>µS/cm</del> )	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or <del>ml</del> )	Depth to Water (ft.)
1458	11.02	6.06	1250	101	4.77	203.7	500	3.25
1501	11.38	6.65	1216	94	0.23	200.4	800	3.25
1504	11.53	6.74	1207	77	0.15	201.3	1100	3.25
1507	11.61	6.77	1202	71	0.14	201.1	1400	3.25
1510	11.65	6.77	1200	67	0.12	200.8	1700	3.25

Did well dewater? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Amount actually evacuated: 1700
Sampling Time: 1535	Sampling Date: 3/20/14
Sample I.D.: GW-262027-032014-55-MW-8	Laboratory: TA
Analyzed for: TPH-G BTEX MTBE TPH-D	Other: See COC
Equipment Blank I.D.: @ Time	Duplicate I.D.:

# Shell Oil Products Chain Of Custody Record

LAB (LOCATION)

- CALSCIENCE ( )
- SPL Houston ( )
- XENCO ( )
- TEST AMERICA ( )
- OTHER ( )

Please Check Appropriate Box:

<input type="checkbox"/> ENV. SERVICES	<input type="checkbox"/> MOTIVA RETAIL	<input type="checkbox"/> SHELL RETAIL
<input type="checkbox"/> MOTIVA SDACH	<input checked="" type="checkbox"/> CONSULTANT	<input type="checkbox"/> LUBES
<input type="checkbox"/> SHELL PIPELINE	<input type="checkbox"/> OTHER _____	

Print Bill To Contact Name: **Brian Peters- 062027**

INCIDENT # (ENV SERVICES): **7 9 7 0 4 4 7**

DATE: **3/20/14**

PO # \_\_\_\_\_ SAP # \_\_\_\_\_

PAGE: **1** of **1**

LAB/PROJECT COMPANY: **Blaine Tech Services**

ADDRESS: **20735 Belshaw Avenue, Carson, CA 90746**

PROJECT CONTACT (Hardcopy or PDF Report to): **Lorin King**

SITE ADDRESS: Street and City: **200 Railroad Ave S - Ellensburg**

State: **WA** GLOBAL ID NO.: **NA**

EDF DELIVERABLE TO (Name, Company, Office Location): **CRA, Seattle, WA**

PHONE NO.: **425-863-6500** E-MAIL: **Shell-US-Lab>DataManagement@CRAworld.com**

CONSULTANT PROJECT NO.: \_\_\_\_\_

TELEPHONE: **(310) 885-4455 x 108** FAX: **(310) 637-5802** E-MAIL: **lking@blainetech.com**

SAMPLER NAME(S) (Print): **Seah Sarmiento**

LAB USE ONLY

TURNAROUND TIME (CALENDAR DAYS):  
 STANDARD (14 DAY)  5 DAYS  3 DAYS  2 DAYS  24 HOURS  RESULTS NEEDED ON WEEKEND

LA - RWQCB REPORT FORMAT  UST AGENCY:

**SPECIAL INSTRUCTIONS OR NOTES:**

1) Please upload the "CRA EQUIS 4-file EDD" to the CRA Website (<http://cralabeddupload.craworld.com/equis/default.aspx>) and/or send it to the Shell-US-LabDataManagement@CRAworld.com email folder. 2) Please indicate that you have uploaded the EDD by including "EDD Uploaded to CRA website" in the body of the email used to deliver the final PDF report to the Shell-US-LabDataManagement@CRAworld.com email folder.

SHELL CONTRACT RATE APPLIES  
 STATE REIMBURSEMENT RATE APPLIES  
 EDD NOT NEEDED  
 RECEIPT VERIFICATION REQUESTED

Copy final report to Shell.Lab.Billing@craworld.com, Shell.results@craworld.com, and Shell-US-LabDataManagement@CRAworld.com

Email invoice to Shell.Lab.Billing@craworld.com  
 See Laboratory PM for WA Dept. of Ecology MTCA Method A cleanup levels for minimum detection limits.

LAB USE ONLY	SAMPLE ID				TIME	MATRIX	PRESERVATIVE					NO. OF CONT.	NWTPH-Gx	NWTPH-Dx w/Silica Gel Cleanup	BTEX (8260B)	5 Oxygenates, MTBE, TBA, DIPE, TAME, ETBE (8260B)	EDC (8260B)	EDB	NWTPH-Dx w/ Silica Gel Cleanup	Nitrate/Nitrite by 353.2	Dissolved CO2 by SM4500CO2C	Dissolved Methane by RSK-175	Full Scan VOC's By 8260	Alkalinity by SM2320B	Dissolved Iron (Ferrous)	Manganese by 6010/6020	TPH-O	MTBE (8260B)	Dissolved Lead by 6020	Total Lead	TEMPERATURE ON RECEIPT C°	Container PID Readings or Laboratory Notes
	PROJECT NUMBER	DATE (MMDDYY)	SAMPLER INITIALS	WELL ID			HCL	HNO3	H2SO4	NONE	OTHER																					
	062027	032014	SS	ML-1			X	X																								
GW	062027	032014	SS	ML-1	1015	WG	X	X			11	X	X	X	X	X	X										X					
GW	062027	032014	SS	ML-2	1115		X	X			11	X	X	Y	X	X	Y										X					
GW	062027	032014	SS	ML-3	1150		X	X			11	X	X	X	X	X	Y										X					
GW	062027	032014	SS	ML-4	1248		X	X			11	X	X	X	X	X	Y										X					
GW	062027	032014	SS	ML-5	1325		X	X			11	X	X	X	X	X	Y										X					
GW	062027	032014	SS	ML-6	1410		X	X			11	X	X	X	X	X	Y										X					
GW	062027	032014	SS	ML-7	1445		X	X			11	X	X	X	X	X	Y										X					
GW	062027	032014	SS	ML-8	1535		X	X			11	X	X	X	X	X	Y										X					

Relinquished by: (Signature) \_\_\_\_\_

Received by: (Signature) **Shipped via FedEx**

Date: **3/21/14**

Time: \_\_\_\_\_

Date: \_\_\_\_\_ Time: \_\_\_\_\_

Date: \_\_\_\_\_ Time: \_\_\_\_\_

ENVIRONMENTAL WELL, REMEDIATION COMPOUND, AND SITE INSPECTION FORM

INCIDENT # 7970447

ADDRESS 200 S Railroad Ave Ellensburg, WA

DATE: 3/20/14

CITY & STATE Ellensburg, WA

Well ID	Observations Upon Arrival													Note Repairs Made Detailed Explanation of Maintenance Recommended and Performed	Photos of Well Condition		Repair Date and PM Initials										
	Manway Cover, Type, Condition & Size					Well Labeled / Painted Properly*		Well Cap (Gripper) Condition		Well Lock Condition			Well Pad / Surface Condition														
MW-1	Standpipe	Flush	G	P	8	Y	N	G	R	G	R	NL	G	P		Y	N										
MW-2	Standpipe	Flush	G	P	8	Y	N	G	R	G	R	NL	G	P		Y	N										
MW-3	Standpipe	Flush	G	P	8	Y	N	G	R	G	R	NL	G	P		Y	N										
MW-4	Standpipe	Flush	G	P	8	Y	N	G	R	G	R	NL	G	P		Y	N										
MW-5	Standpipe	Flush	G	P	8	Y	N	G	R	G	R	NL	G	P		Y	N										
MW-6	Standpipe	Flush	G	P	8	Y	N	G	R	G	R	NL	G	P		Y	N										
MW-7	Standpipe	Flush	G	P	8	Y	N	G	R	G	R	NL	G	P		Y	N										
MW-8	Standpipe	Flush	G	P	8	Y	N	G	R	G	R	NL	G	P		Y	N										
MW-9	Standpipe	Flush	G	P		Y	N	G	R	G	R	NL	G	P		Y	N										
	Standpipe	Flush	G	P		Y	N	G	R	G	R	NL	G	P		Y	N										
	Standpipe	Flush	G	P		Y	N	G	R	G	R	NL	G	P		Y	N										
TOTAL # CAPS REPLACED =									0										= TOTAL # OF LOCKS REPLACED								
Condition of Soil Boring Patches of Abandoned Monitoring Wells			G	P	N/A	If POOR, Borings/Well IDs or Location Description													Y	N							
Remediation Compound Type (Check boxes that apply)		Condition of Enclosure			Condition of Area Inside Enclosure			Compound Security			Emergency Contact Info Visible			Cleaning / Repairs Recommended and Conducted				Photos of Condition		Repair Date and PM Initials							
NA		G			G			G			Y							Y		N							
Building		G			G			G			Y							Y		N							
Building w/ Fence Comp.		G			G			G			Y							Y		N							
Fenced Compound		G			G			G			Y							Y		N							
Trailer		G			G			G			Y							Y		N							
Number of Drums On-site		Does the Label Reveal the Source of the Contents		Labeled Correctly and Writing Legible			Drum Condition			Confirm Drums Related to Environmental		Drums Located to Min. Business Interference			Detailed Explanation of Any Issues Resolved				Photos of Drum Condition		Date Drums Removed from Site and PM Initials						
0		Y N		Y N			G P			Y N		Y N							Y		N						

G = Good (Acceptable) R = Replaced  
P = Poor (needs attention) NL = No Lock Required

Note: All repairs other than locks and grippers require Shell PM approval prior to repair.

\* = Groundwater monitoring well covers must be painted and labeled in accordance with applicable regulations.  
Version 2.4, March 2008

All environmental wells and the remediation compound were in good condition, locked, and secured upon my departure (unless otherwise noted above).

Seth Sarmiento - Blaine Tech  
Print or type Name of Field Personnel & Consultant Company

SHELL BILL OF LADING

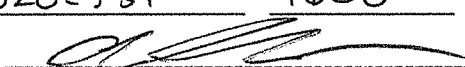
SOURCE RECORD **BILL OF LADING**

FOR NON-HAZARDOUS PURGEWATER RECOVERED FROM GROUNDWATER WELLS AT SHELL FACILITIES IN THE STATE OF WASHINGTON OR OREGON. THE NON-HAZARDOUS PURGE- WATER WHICH HAS BEEN RECOVERED FROM GROUND- WATER WELLS, IS MADE UP INTO LOADS OF APPROPRIATE SIZE TO BE TRANSPORTED & PROCESSED BY A SHELL APPROVED WASTE HAULER.

The contractor performing this work is BLAINE TECH SERVICES, INC. 22727 72<sup>ND</sup> Ave South, Suite D - 102, Kent, WA 98032. Blaine Tech Services, Inc. is authorized by SHELL OIL COMPANY (SHELL) to recover, collect, apportion into loads, and haul the Non-Hazardous Well Purgewater that is drawn from wells at the SHELL facility indicated below and to deliver that purgewater to BTS. Transport routing of the Non-Hazardous Well Purgewater may be direct from one Shell facility to BTS; from one Shell facility to BTS via another Shell facility; or any combination thereof. The Non-Hazardous Well Purgewater is and remains the property of SHELL.


This Source Record **BILL OF LADING** was initiated to cover the recovery of Non-Hazardous Well Purgewater from wells at the SHELL facility described below:

7970447  
 INCIDENT # Perry Pineda  
 Shell Engineer  
 200 Railroad Ave Ellensburg WA  
 street number street name city state

WELL I.D.	GALS.	WELL I.D.	GALS.
MW-1	10.5		
MW-2	10.5		
MW-3	10.5		
MW-4	10.5		
MW-5	10.5		
MW-6	10.5		
MW-7	10.5		
MW-8	10.5		
added equip.		any other	
rinse water	10.5	adjustments	
<b>TOTAL GALS. RECOVERED</b>	<b>4.5</b>	loaded onto	
		BTS vehicle #	92
BTS event #	time	date	
140320-581	1600	3/20/14	
signature			
*****			
<b>RECEIVED AT</b>	time	date	
BTS Kent		/ /	
unloaded by	signature		
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Job Clearance Form											
Station #		Station Address: <u>200 Railroad Ave Ellensburg WA</u>			Work Order Number: <u>140320-SS1</u>		Date: <u>3/20/14</u>				
Contractor Company Name: <u>Moine Tech</u>		Contractor person in charge (print name): <u>Eric Tanner</u>		Number of Workers: <u>1</u>	JSA Reference Number: (If required)	Start Time: <u>0800</u>	End Time: <u>1330</u>	Labor:	Travel Time:		
Problem/Work Description: <u>Gauge, purge, sample groundwater wells</u>							Return Call: <u>yes / no</u>	Damage Claim: <u>yes / no</u>			
PPE REQUIRED (CHECK AN X OR FILL IN BLANK SPACE)											
<input checked="" type="checkbox"/> SAFETY VEST	<input checked="" type="checkbox"/> HARD HAT	<input checked="" type="checkbox"/> SHOES & BOOTS	<input type="checkbox"/> HEARING PROTECTION	<input type="checkbox"/> RESPIRATOR							
<input checked="" type="checkbox"/> PROTECTIVE CLOTHING	<input checked="" type="checkbox"/> GLOVES	<input checked="" type="checkbox"/> SAFETY GLASSES/GOOGLES	<input type="checkbox"/> WELDING PPE	<input type="checkbox"/> OTHER _____							
<small>Contractor to complete this section below if circumstances on site or specific to this job, may generate additional hazards, that are not described in the JSA</small>											
HAZARD			Hazard identified by JSA			How to reduce or minimize risk (include PPE, jobs, warn)					
<u>Gauge</u> <u>Purge</u> <u>Sample</u>			<u>N/A</u>			<u>N/A</u>					
Work documentation requirements: <u>Lower Risk - no JSA required</u> <u>Medium Risk / Higher Risk tasks - JSA required</u> <u>Higher Risk - JSA required &amp; appropriate checklist completed (see below)</u>											
Examples of Higher / Medium Risk: <table style="width:100%; border: none;"> <tr> <td style="width: 50%; border: none;"> <input type="checkbox"/> Work at heights in all cases on open sites - on closed sites if no JSA present  <input type="checkbox"/> Trenching or excavation related to underground tank / product lines  <input type="checkbox"/> Heavy lifting                 </td> <td style="width: 50%; border: none;"> <input type="checkbox"/> Work in confined spaces (e.g. tank, interceptor or deep manhole entry)  <input type="checkbox"/> Hot work with risk of product or vapor ignition  <input type="checkbox"/> LPG system degassing, installation or maintenance                 </td> </tr> </table>										<input type="checkbox"/> Work at heights in all cases on open sites - on closed sites if no JSA present <input type="checkbox"/> Trenching or excavation related to underground tank / product lines <input type="checkbox"/> Heavy lifting	<input type="checkbox"/> Work in confined spaces (e.g. tank, interceptor or deep manhole entry) <input type="checkbox"/> Hot work with risk of product or vapor ignition <input type="checkbox"/> LPG system degassing, installation or maintenance
<input type="checkbox"/> Work at heights in all cases on open sites - on closed sites if no JSA present <input type="checkbox"/> Trenching or excavation related to underground tank / product lines <input type="checkbox"/> Heavy lifting	<input type="checkbox"/> Work in confined spaces (e.g. tank, interceptor or deep manhole entry) <input type="checkbox"/> Hot work with risk of product or vapor ignition <input type="checkbox"/> LPG system degassing, installation or maintenance										
<b>This form must be completed for each job and updated and re-signed if circumstances change or additional hazards identified.</b>											
<b>SIGN IN</b>		Contractor representative name		Signature		<b>SIGN OUT</b>		Contractor signature			
Operating sites to be signed by the Site Representative		<u>Seth Sarmiento</u>				<b>GENERAL SAFETY CHECKS</b>					
Non-operating sites to be signed by Contractor Representative only											
<b>GENERAL SAFETY CHECKS</b>		Site representative name		Signature		Site representative name		Signature			
<input type="checkbox"/> Have all site personnel been informed? <input type="checkbox"/> Has LUL delivery service been informed? <input type="checkbox"/> Is a LUL delivery due? <input type="checkbox"/> Have isolation procedures been agreed - lock out/tag out? <input type="checkbox"/> Are work areas cordoned off to protect workers, site staff & public? <input type="checkbox"/> Clear		<u>Denise Johnson</u>				<u>Denise Johnson</u>					
PARTS - Ordered, Replaced and/or Disposed Of (include model and serial as appropriate)											

The contractor through its authorized representative shall sign, issue and be solely responsible for all job clearance forms and the obligations arising there under applicable to the work.  
 This form covers important reminders and is not intended to relieve the contractor from safely performing the work in compliance with all applicable laws and regulations.  
 The Site Representative may require the contractor to stop work if it appears that the contractor or any of its workers are failing to comply with the requirements in the applicable forms of this form or other applicable safety requirements.

Site Address: <i>200 Railroad Ave Ellensburg, WA</i>		Date: <i>3/20/14</i>
Check-In with site representative completed?		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> N/A
Is fuel delivery scheduled for today?		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A
Emergency pump cut-off switch located?		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> N/A
First aid kit located and confirmed ready-to-use?		<input checked="" type="checkbox"/> Yes
Fire extinguisher located and confirmed ready-to-use?		<input checked="" type="checkbox"/> Yes
Eye wash located and confirmed ready-to-use?		<input checked="" type="checkbox"/> Yes
HASP	Emergency Services information located & reviewed?	<input checked="" type="checkbox"/> Yes
	Hospital map & route located and reviewed?	<input checked="" type="checkbox"/> Yes
	Special Hazard Notice section reviewed?	<input checked="" type="checkbox"/> Yes
	Site Status confirmed or amended, dated and initialed?	<input checked="" type="checkbox"/> Yes
	Emergency Response procedures reviewed with all work crew members?	<input checked="" type="checkbox"/> Yes
Compliance Roster signed by all work crew members?		<input checked="" type="checkbox"/> Yes
Site walk has been performed to locate wells and identify additional hazards?		<input checked="" type="checkbox"/> Yes
Job Safety Analysis (JSA) for each task located & reviewed by all work crew members?		<input checked="" type="checkbox"/> Yes
Work Area Plans reviewed for suitability and effectiveness given current site conditions?		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> N/A
Traffic Control Plans reviewed for suitability given current road, traffic & weather conditions?		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> N/A
Stop Work Authority reviewed and understood by all work crew members?		<input checked="" type="checkbox"/> Yes
<ul style="list-style-type: none"> <li>• In the space below, note unaddressed hazards and conditions that might compromise compliance with Approved Procedures and/or JSA's or impede the safe and proper execution of the Work Plan, Work Area Plan(s) and/or Traffic Control Plan(s).</li> <li>• Report unaddressed hazards and adverse conditions to the Project Manager during Pre-Start Call-In and as hazards are identified or conditions change throughout the workday.</li> <li>• DO NOT COMMENCE OR RESTART WORK until PM has been notified and mitigation measures approved.</li> </ul>		
Time	Hazard or Adverse Condition	PM Initials      Hazard Control Measure
Site representative briefed on planned work activities and Work Area Plans?		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> N/A
Job Clearance Form completed?		<input checked="" type="checkbox"/> Yes
Pre-Start Call-In completed and approval to start work received from Project Manager?		<input checked="" type="checkbox"/> Yes
Printed Name <i>Seth Sarmiento</i>	Signature 	Time <i>0915</i>





## WELL GAUGING DATA

Project # 1410522-LB2 Date 5/22/14 Client CRA

Site ZOO RAILROAD AVE S, ELLENSBURG, WA

Well ID	Time	Well Size (in.)	Sheen / Odor	Depth to Immiscible Liquid (ft.)	Thickness of Immiscible Liquid (ft.)	Volume of Immiscibles Removed (ml)	Depth to water (ft.)	Depth to well bottom (ft.)	Survey Point: TOB or TOG	Notes
MW-1	0850	2					6.22	13.12	↓	
MW-2	0858	2				3.89	12.88			
MW-3	0903	2				3.87	12.98			
MW-4	0909	2				2.67	13.05			
MW-5	0914	2				3.19	13.09			
MW-6	0918	2				4.12	13.12			
MW-7	0924	2				3.51	13.08			
MW-8	0930	2				3.05	13.11	↓		

## LOW FLOW WELL MONITORING DATA SHEET

Project #: <u>140522-LB</u>	Client: <u>CPA</u>
Sampler: <u>LB</u>	Gauging Date: <u>5/22/14</u>
Well I.D.: <u>MW-1</u>	Well Diameter (in.): <u>3</u> 3 4 6 8 _____
Total Well Depth (ft.): <u>13.12</u>	Depth to Water (ft.): <u>6.22</u>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>VG</u> Grade	Flow Cell Type: <u>YSI 556</u>

Purge Method: 2" Grundfos Pump      Peristaltic Pump      Bladder Pump  
 Sampling Method: Dedicated Tubing      New Tubing      Other \_\_\_\_\_  
 Start Purge Time: 0943      Flow Rate: 100 mL/Min      Pump Depth: 9'

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or <del>µS/cm</del> )	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or <del>ml</del> )	Depth to Water (ft.)
0949	12.37	6.87	1341	18	1.33	31.6	600	6.25
0952	12.46	6.86	1339	16	1.31	30.4	900	6.25
0955	12.48	6.85	1338	15	1.30	29.5	1200	6.25
0958	12.49	6.84	1337	14	1.29	28.4	1500	6.25
1001	12.50	6.83	1336	13	1.28	27.3	1800	6.25

Did well dewater? Yes <input checked="" type="checkbox"/> No <input checked="" type="checkbox"/>	Amount actually evacuated: <u>1.8L</u>
Sampling Time: <u>1002</u>	Sampling Date: <u>5/22/14</u>
Sample I.D.: <u>6W-068027-052214-LB-MW-1</u>	Laboratory: <u>TA</u>
Analyzed for: <u>TPH</u> <u>BTEX</u> MTBE <u>TPH-D</u> Other: <u>SEE COC</u>	
Equipment Blank I.D.: _____ @ _____ Time	Duplicate I.D.: _____

## LOW FLOW WELL MONITORING DATA SHEET

Project #: <u>140522-LBZ</u>	Client: <u>CRA</u>
Sampler: <u>LB</u>	Gauging Date: <u>5/22/14</u>
Well I.D.: <u>MW-2</u>	Well Diameter (in.): <u>2</u> 3 4 6 8 _____
Total Well Depth (ft.): <u>12.88</u>	Depth to Water (ft.): <u>3.89</u>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVC</u> Grade	Flow Cell Type: <u>YSI 550</u>

Purge Method: 2" Grundfos Pump      Peristaltic Pump      Bladder Pump  
 Sampling Method: Dedicated Tubing      New Tubing      Other \_\_\_\_\_  
 Start Purge Time: 1025      Flow Rate: 100 mL/MIN      Pump Depth: 65'

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or µS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to Water (ft.)
1031	13.22	6.90	704	17	1.35	40.5	600	4.01
1034	13.25	6.90	760	15	1.31	37.9	900	4.01
1037	13.24	6.89	757	14	1.30	33.4	1200	4.01
1040	13.23	6.88	756	13	1.29	32.6	1500	4.01
1043	13.22	6.87	755	12	1.28	31.2	1800	4.01

Did well dewater? Yes <u>NO</u>	Amount actually evacuated: <u>1.8L</u>
Sampling Time: <u>1044</u>	Sampling Date: <u>5/22/14</u>
Sample I.D.: <u>6w-062077-052214-LB-MW-2</u>	Laboratory: <u>TA</u>
Analyzed for: <u>TPH-G</u> <u>BTEX</u> <u>MTBE</u> <u>TPH-D</u>	Other: <u>SEE COC</u>
Equipment Blank I.D.: @ _____	Duplicate I.D.: _____

## LOW FLOW WELL MONITORING DATA SHEET

Project #: <u>140522-LB2</u>	Client: <u>CRA</u>
Sampler: <u>LB</u>	Gauging Date: <u>5/22/14</u>
Well I.D.: <u>MW-3</u>	Well Diameter (in.): <u>2</u> 3 4 6 8 <u>    </u>
Total Well Depth (ft.): <u>12.98</u>	Depth to Water (ft.): <u>3.87</u>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVC</u> Grade	Flow Cell Type: <u>VSI 556</u>

Purge Method: 2" Grundfos Pump      Peristaltic Pump      Bladder Pump  
 Sampling Method: Dedicated Tubing      New Tubing      Other \_\_\_\_\_  
 Start Purge Time: 1104      Flow Rate: 100 mL / MIN      Pump Depth: 6.5'

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or µS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to Water (ft.)
1110	13.96	6.99	1003	18	1.30	29.8	600	3.89
1113	14.01	6.98	1002	16	1.29	31.1	900	3.90
1116	14.02	6.97	1000	15	1.26	30.8	1200	3.90
1119	14.02	6.96	998	14	1.25	29.4	1500	3.90
1122	14.01	6.97	997	13	1.24	28.6	1800	3.90

Did well dewater? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Amount actually evacuated: <u>1.8L</u>
Sampling Time: <u>1123</u>	Sampling Date: <u>5/22/14</u>
Sample I.D.: <u>6W-062027-052214-LB-MW-3</u>	Laboratory: <u>TA</u>
Analyzed for: <u>TPH</u> <u>BTEX</u> MTBE <u>TPH-D</u>	Other: <u>SEE COC</u>
Equipment Blank I.D.: _____ @ _____ Time	Duplicate I.D.: _____

## LOW FLOW WELL MONITORING DATA SHEET

Project #: <u>140522-LB2</u>	Client: <u>CRA</u>
Sampler: <u>LB</u>	Gauging Date: <u>5/22/14</u>
Well I.D.: <u>MW-4</u>	Well Diameter (in.): <u>2</u> 3 4 6 8 _____
Total Well Depth (ft.): <u>13.05</u>	Depth to Water (ft.): <u>2.67</u>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVC</u> Grade	Flow Cell Type: <u>YSI 550</u>

Purge Method: 2" Grundfos Pump      ~~Peristaltic Pump~~      Bladder Pump  
 Sampling Method: Dedicated Tubing      New Tubing      Other \_\_\_\_\_  
 Start Purge Time: 1145      Flow Rate: 100 mL / MIN      Pump Depth: 5.5'

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or µS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to Water (ft.)
1157	14.14	7.16	1172	16	1.15	34.6	600	2.69
1154	14.11	7.13	1169	14	1.10	28.5	900	2.69
1157	14.15	7.11	1167	13	1.09	26.4	1200	2.69
1200	14.16	7.10	1166	12	1.08	25.2	1500	2.69
1203	14.17	7.09	1165	11	1.07	24.6	1800	2.69

Did well dewater? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Amount actually evacuated: <u>1.8L</u>
Sampling Time: <u>1204</u>	Sampling Date: <u>5/22/14</u>
Sample I.D.: <u>GW-062027-052214-LB-MW-4</u>	Laboratory: <u>TA</u>
Analyzed for: <u>TPH-G</u> <u>BTEX</u> <u>MTBE</u> <u>PPH-D</u>	<u>Other</u> <u>SEE COC</u>
Equipment Blank I.D.: _____ @ _____ Time	Duplicate I.D.: _____

## LOW FLOW WELL MONITORING DATA SHEET

Project #: 140522-LB2	Client: CRA
Sampler: LB	Gauging Date: 5/22/14
Well I.D.: MW-5	Well Diameter (in.): ② 3 4 6 8 _____
Total Well Depth (ft.): 13.09	Depth to Water (ft.): 3.19
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVC</u> Grade	Flow Cell Type: <u>YSI 550</u>

Purge Method: 2" Grundfos Pump                      Peristaltic  Pump                      Bladder Pump  
 Sampling Method: Dedicated  Tubing                      New Tubing                      Other \_\_\_\_\_

Start Purge Time: 1221                      Flow Rate: 100 mL/MIN                      Pump Depth: 6'

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or μS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to Water (ft.)
1227	14.04	6.51	1258	18	1.41	88.7	600	3.21
1230	14.06	6.61	1259	17	1.38	81.4	900	3.21
1233	14.08	6.63	1258	16	1.34	80.1	1200	3.21
1236	14.09	6.64	1257	15	1.33	79.6	1500	3.21
1239	14.10	6.65	1256	14	1.32	78.2	1800	3.21

Did well dewater? Yes <input checked="" type="checkbox"/> NO	Amount actually evacuated: 1.8L
Sampling Time: 1240	Sampling Date: 5/22/14
Sample I.D.: GW-062027-062214-LB-MW-5	Laboratory: TA
Analyzed for: <del>TPH</del> <del>BTEX</del> MTBE <del>PPH-D</del>	Other: <u>SEE COC</u>
Equipment Blank I.D.: @	Duplicate I.D.:

## LOW FLOW WELL MONITORING DATA SHEET

Project #: 140522-LBL	Client: CPA
Sampler: LB	Gauging Date: 5/22/14
Well I.D.: MW-6	Well Diameter (in.): $\varnothing$ 3 4 6 8 ____
Total Well Depth (ft.): 13.12	Depth to Water (ft.): 4.12
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: PYO Grade	Flow Cell Type: YSI 536

Purge Method: 2" Grundfos Pump      Peristaltic Pump      Bladder Pump  
 Sampling Method: Dedicated Tubing      New Tubing      Other \_\_\_\_\_  
 Start Purge Time: 1301      Flow Rate: 100 mL/min      Pump Depth: 7'

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or <del>µS/cm</del> )	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to Water (ft.)
1307	16.33	7.08	4044	18	1.37	67.6	600	4.16
1310	16.38	7.01	4043	17	1.35	64.5	900	4.16
1313	16.39	6.98	4087	16	1.33	63.4	1200	4.16
1316	16.40	6.97	4036	15	1.32	62.1	1500	4.16
1319	16.42	6.96	4035	14	1.31	61.6	1800	4.16

Did well dewater? Yes <input checked="" type="checkbox"/>	Amount actually evacuated: 1.8L
Sampling Time: 1320	Sampling Date: 5/22/14
Sample I.D.: MW-6	Laboratory: TA
Analyzed for: <del>TPH-G</del> <del>BTEX</del> MTBE <del>TPH-D</del> Other: SEE COC	
Equipment Blank I.D.: @ <small>Time</small>	Duplicate I.D.:



## LOW FLOW WELL MONITORING DATA SHEET

Project #: <u>140522-LB2</u>	Client: <u>CRA</u>
Sampler: <u>LB</u>	Gauging Date: <u>5/22/14</u>
Well I.D.: <u>MW-7</u>	Well Diameter (in.): <u>3</u> 3 4 6 8 _____
Total Well Depth (ft.): <u>13.08</u>	Depth to Water (ft.): <u>3.51</u>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVC</u> Grade	Flow Cell Type: <u>YSI 556</u>

Purge Method: 2" Grundfos Pump      ~~Peristaltic Pump~~      Bladder Pump  
 Sampling Method: Dedicated Tubing      New Tubing      Other \_\_\_\_\_  
 Start Purge Time: 1341      Flow Rate: 100 ML / MIN      Pump Depth: 6.5'

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or <del>µS/cm</del> )	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or <del>ml</del> )	Depth to Water (ft.)
1347	15.50	6.97	1153	21	1.14	36.1	600	3.55
1350	15.41	7.01	1143	20	1.10	27.6	900	3.55
1353	15.42	7.03	1142	19	1.09	26.4	1200	3.55
1356	15.43	7.02	1141	18	1.08	25.3	1500	3.55
1359	15.45	7.01	1140	17	1.07	24.8	1800	3.55

Did well dewater? Yes <input checked="" type="checkbox"/> <u>NO</u>	Amount actually evacuated: <u>1.6L</u>
Sampling Time: <u>1400</u>	Sampling Date: <u>5/22/14</u>
Sample I.D.: <u>GW-062067-052214-LB-mw.7</u>	Laboratory: <u>TA</u>
Analyzed for: <u>TPH-G</u> <u>BTEX</u> <u>MTBE</u> <u>TPH-D</u>	Other: <u>SEE COL</u>
Equipment Blank I.D.: _____ @ _____ Time	Duplicate I.D.: _____

## LOW FLOW WELL MONITORING DATA SHEET

Project #: <u>140522-LB2</u>	Client: <u>CRA</u>
Sampler: <u>LB</u>	Gauging Date: <u>5/22/14</u>
Well I.D.: <u>MW-8</u>	Well Diameter (in.): <u>2</u> 3 4 6 8 _____
Total Well Depth (ft.): <u>13.11</u>	Depth to Water (ft.): <u>3.05</u>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVC</u> Grade	Flow Cell Type: <u>YSE 536</u>

Purge Method: 2" Grundfos Pump      Peristaltic Pump      Bladder Pump  
 Sampling Method: Dedicated Tubing      New Tubing      Other \_\_\_\_\_  
 Start Purge Time: 1417      Flow Rate: 100 mL/min      Pump Depth: 6'

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or µS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to Water (ft.)
1423	14.96	6.94	1234	18	1.27	42.3	600	3.09
1426	14.95	6.78	1233	16	1.23	35.8	900	3.09
1429	14.95	6.75	1232	15	1.20	31.4	1200	3.09
1432	14.94	6.74	1231	14	1.19	30.6	1500	3.09
1435	14.93	6.73	1230	13	1.18	29.2	1800	3.09

Did well dewater? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Amount actually evacuated: <u>1.8L</u>
Sampling Time: <u>1436</u>	Sampling Date: <u>5/22/14</u>
Sample I.D.: <u>GW-062027-052214-LB-MW-8</u>	Laboratory: <u>TA</u>
Analyzed for: <u>TPH-G</u> <u>BTEX</u> <u>MTBE</u> <u>TPH-D</u>	Other: <u>SEE COL</u>
Equipment Blank I.D.: _____ @ _____ Time	Duplicate I.D.: _____

# Shell Oil Products Chain Of Custody Record

LAB (LOCATION)  
 CALSCIENCE ( )  
 SPL Houston ( )  
 XENCO ( )  
 TEST AMERICA ( )  
 OTHER ( )

Please Check Appropriate Box:  
 ENV. SERVICES     MOTIVA RETAIL     SHELL RETAIL  
 MOTIVA SDCM     CONSULTANT     LUBES  
 SHELL PIPELINE     OTHER ( )

Print Bill To Contact Name: **Brian Peters- 062027**  
 INCIDENT # (ENV SERVICES): **7 9 7 0 4 4 7**  
 PO # \_\_\_\_\_ SAP # \_\_\_\_\_  
 CHECK IF NO INCIDENT # APPLIES  
 DATE: **5/22/14**  
 PAGE: **1** of **1**

SAMPLER COMPANY: **Blaine Tech Services**  
 ADDRESS: **20735 Belshaw Avenue, Carson, CA 90746**  
 PROJECT CONTACT (if hardcopy or PDF Report to): **Lorin King**  
 TELEPHONE: **(310) 885-4455 x 108** FAX: **(310) 637-5802** E-MAIL: **lking@blainetech.com**

LOG CODE: \_\_\_\_\_

SITE ADDRESS: Street and City: **200 Railroad Ave S - Ellensburg** State: **WA** GLOBAL ID NO.: **NA**  
 EDP DELIVERABLE TO (Name, Company, Office Location): **CRA, Seattle, WA** PHONE NO.: **425-563-6500** E-MAIL: **Shell-US-LabDataManagement@CRAworld.com** CONSULTANT PROJECT NO.: **140522-182**  
 SAMPLER NAME(S) (Print): **LEE BORES** LAB USE ONLY

TURNAROUND TIME (CALENDAR DAYS):  
 STANDARD (14 DAY)     5 DAYS     3 DAYS     2 DAYS     24 HOURS     RESULTS NEEDED ON WEEKEND  
 LA - RWQCB REPORT FORMAT     UST AGENCY:


SPECIAL INSTRUCTIONS OR NOTES:  
 1) Please upload the "CRA EQuIS 4-file EDD" to the CRA Website (http://cralabedupload.craworld.com/equis/default.aspx) and/or send it to the Shell-US-LabDataManagement@CRAworld.com email folder. 2) Please indicate that you have uploaded the EDD by including "EDD Uploaded to CRA website" in the body of the email used to deliver the final PDF report to the Shell-US-LabDataManagement@CRAworld.com email folder.

SHELL CONTRACT RATE APPLIES  
 STATE REIMBURSEMENT RATE APPLIES  
 EDD NOT NEEDED  
 RECEIPT VERIFICATION REQUESTED

Copy final report to Shell.Lab.Billing@craworld.com, Shell.results@craworld.com, and Shell-US-LabDataManagement@CRAworld.com  
 Email Invoice to Shell.Lab.Billing@craworld.com  
 See Laboratory PM for WA Dept. of Ecology MTCA Method A cleanup levels for minimum detection limits.

Matrix Codes - WG (groundwater), WS (surface water), WP (drinking water source), W (Trip or Temp Blank)

LAB USE ONLY	SAMPLE ID					TIME	MATRIX	PRESERVATIVE					NO. OF CONT.	REQUESTED ANALYSIS														TEMPERATURE ON RECEIPT C°			
	PROJECT NUMBER	DATE (MMDDYY)	SAMPLER INITIALS	WELL ID	HCL			HNO3	H2SO4	NONE	OTHER	NWTPH-Dx		NWTPH-Dx w/Silica Gel Cleanup (8260B)	BTEX (8260B)	6 Oxygenates, MTBE, TBA, DIPE, TAME, ETBE (8260B)	EDC (8260B)	EDB	NWTPH-Dx w/o Silica Gel Cleanup	Nitrate/Nitrite by 363.2	Dissolved CO2 by SM4600C02C	Dissolved Methane by RSK-175	Full Scan VOC's By 8260	Alkalinity by SM2320B	Dissolved Iron (Ferrous)	Manganese by 6010/6020	TPH-O		MTBE (8260B)	Total Lead	Container PID Readings or Laboratory Notes
GW	062027	052214	LB	MW-1	1002	WG	X	X																	X	X					
SW	062027	052214	LB	MW-2	1044	WG	X	X																	X	X					
GW	062027	052214	LB	MW-3	1123	WG	X	X																	X	X					
GW	062027	052214	LB	MW-4	1204	WG	X	X																	X	X					
GW	062027	052214	LB	MW-5	1240	WG	X	X																	X	X					
GW	062027	052214	LB	MW-6	1320	WG	X	X																	X	X					
GW	062027	052214	LB	MW-7	1400	WG	X	X																	X	X					
GW	062027	052214	LB	MW-8	1426	WG	X	X																	X	X					

Retinquished by: (Signature)  Received by: (Signature) **SHIPPED VIA FEDEX** Date: **5/28/14** Time: \_\_\_\_\_

Retinquished by: (Signature) \_\_\_\_\_ Received by: (Signature) \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_

Retinquished by: (Signature) \_\_\_\_\_ Received by: (Signature) \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_

ENVIRONMENTAL WELL, REMEDIATION COMPOUND, AND SITE INSPECTION FORM

INCIDENT # 797047  
 DATE: 5/22/14

ADDRESS 200 RAILROAD AVE S  
 CITY & STATE ELLENBURG, WA

Well ID	Observations Upon Arrival														Note Repairs Made Detailed Explanation of Maintenance Recommended and Performed	Photos of Well Condition		Repair Date and PM Initials		
	Manway Cover, Type, Condition & Size					Well Labeled / Painted Properly*		Well Cap (Gripper) Condition		Well Lock Condition			Well Pad / Surface Condition							
MW-1	Standpipe	Flush	G	P	8 (inch)	G	N	G	R	G	R	NL	G	P		Y	N			
MW-2	Standpipe	Flush	G	P	8 (inch)	G	N	G	R	G	R	NL	G	P		Y	N			
MW-3	Standpipe	Flush	G	P	8 (inch)	G	N	G	R	G	R	NL	G	P		Y	N			
MW-4	Standpipe	Flush	G	P	8 (inch)	G	N	G	R	G	R	NL	G	P		Y	N			
MW-5	Standpipe	Flush	G	P	8 (inch)	G	N	G	R	G	R	NL	G	P		Y	N			
MW-6	Standpipe	Flush	G	P	8 (inch)	G	N	G	R	G	R	NL	G	P		Y	N			
MW-7	Standpipe	Flush	G	P	8 (inch)	G	N	G	R	G	R	NL	G	P		Y	N			
MW-8	Standpipe	Flush	G	P	8 (inch)	G	N	G	R	G	R	NL	G	P		Y	N			
	Standpipe	Flush	G	P	Size (inch)	Y	N	G	R	G	R	NL	G	P		Y	N			
	Standpipe	Flush	G	P	Size (inch)	Y	N	G	R	G	R	NL	G	P		Y	N			
	Standpipe	Flush	G	P	Size (inch)	Y	N	G	R	G	R	NL	G	P		Y	N			
TOTAL # CAPS REPLACED = <u>0</u>										= TOTAL # OF LOCKS REPLACED <u>0</u>										
Condition of Soil Boring Patches or Abandoned Monitoring Wells		G	P	<u>N/A</u>	If POOR, Borings/Well IDs or Location Description										Y	N				
Remediation Compound Type (Check boxes that apply)		Condition of Enclosure			Condition of Area Inside Enclosure			Compound Security			Emergency Contact Info Visible			Cleaning / Repairs Recommended and Conducted			Photos of Condition		Repair Date and PM Initials	
NA		G			G			G			Y						Y			N
Building		P			P			P			N						N			
Building w/ Fence Comp.		N/A			N/A			N/A			N/A						N/A			
Fenced Compound																				
Trailer																				
Number of Drums On-site	Does the Label Reveal the Source of the Contents	Labeled Correctly and Writing Legible			Drum Condition			Confirm Drums Related to Environmental		Drums Located to Min Business Interference			Detailed Explanation of Any Issues Resolved			Photos of Drum Condition		Date Drums Removed from Site and PM Initials		
<u>0</u>	Y	N	N/A	Y	N	N/A	G	P	N/A	Y	N	Y	N	N/A				Y	N	

G = Good (Acceptable) R = Replaced  
 P = Poor (needs attention) NL = No Lock Required

Note: All repairs other than locks and grippers require Shell PM approval prior to repair.

\* = Groundwater monitoring well covers must be painted and labeled in accordance with applicable regulations.

All environmental wells and the remediation compound were in good condition, locked, and secured upon my departure (unless otherwise noted above).

LEE BURES / BTR

Print or type Name of Field Personnel & Consultant Company

SHELL BILL OF LADING

SOURCE RECORD **BILL OF LADING**

FOR NON-HAZARDOUS PURGEWATER RECOVERED FROM GROUNDWATER WELLS AT SHELL FACILITIES IN THE STATE OF WASHINGTON OR OREGON. THE NON-HAZARDOUS PURGE- WATER WHICH HAS BEEN RECOVERED FROM GROUND- WATER WELLS, IS MADE UP INTO LOADS OF APPROPRIATE SIZE TO BE TRANSPORTED & PROCESSED BY A SHELL APPROVED WASTE HAULER.

The contractor performing this work is BLAINE TECH SERVICES, INC. 22727 72<sup>ND</sup> Ave South, Suite D - 102, Kent, WA 98032. Blaine Tech Services, Inc. is authorized by SHELL OIL COMPANY (SHELL) to recover, collect, apportion into loads, and haul the Non-Hazardous Well Purgewater that is drawn from wells at the SHELL facility indicated below and to deliver that purgewater to BTS. Transport routing of the Non-Hazardous Well Purgewater may be direct from one Shell facility to BTS; from one Shell facility to BTS via another Shell facility; or any combination thereof. The Non-Hazardous Well Purgewater is and remains the property of SHELL.

This Source Record **BILL OF LADING** was initiated to cover the recovery of Non-Hazardous Well Purgewater from wells at the SHELL facility described below:

7970447                      Perry Pineda  
INCIDENT #                      Shell Engineer

200 RAILROAD AVE S, ELLENBERG, WA  
street number      street name      city                      state

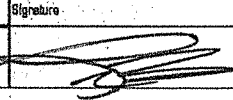

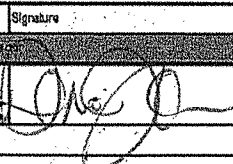
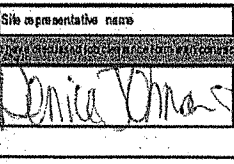
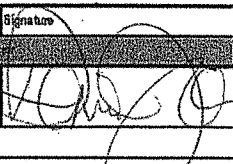
WELL I.D.	GALS.	WELL I.D.	GALS.
MW-1	1 0.5		
MW-2	1 0.5		
MW-3	1 0.5		
MW-4	1 0.5		
MW-5	1 0.5		
MW-6	1 0.5		
MW-7	1 0.5		
MW-8	1 0.5		
added equip.		any other	
rinse water	1 2.0	adjustments	
<b>TOTAL GALS.</b>		loaded onto	
<b>RECOVERED</b>	<u>6.0</u>	BTS vehicle #	<u>88</u>

BTS event #                      time                      date  
140572-482                      1500                      5 / 22 / 14

signature

\*\*\*\*\*

**RECEIVED AT**                      time                      date  
BTS Kent                                              /   /  
unloaded by  
signature

Job Clearance Form									
Station # <b>7470417</b>		Station Address: <b>200 RAILROAD AVES, ELLISBURG, WA</b>			Work Order Number: <b>140522-LB2</b>		Date: <b>5/22/14</b>		
Contractor Company Name: <b>BLATINE TECH SERVICES</b>		Contractor person in charge (print name): <b>LEE BURES</b>		Number of workers: <b>1</b>	JSA Reference Number: <b>(if required)</b>	Start Time: <b>0840</b>	End Time: <b>1500</b>	Lead in: <b></b>	Travel Time: <b></b>
Problem/Work Description: <b>GAUGE, PURSE, &amp; SAMPLE 8 GROUNDWATER WELLS</b>								Return Call: <b>yes / no</b>	
								Damage Claim: <b>yes / no</b>	
PPE REQUIRED (CHECK AND/OR FILL BLANK SPACE)									
<input checked="" type="checkbox"/> SAFETY VEST		<input checked="" type="checkbox"/> HARD HAT		<input checked="" type="checkbox"/> SHOES & BOOTS		<input type="checkbox"/> HEARING PROTECTION		<input type="checkbox"/> RESPIRATOR	
<input checked="" type="checkbox"/> PROTECTIVE CLOTHING		<input checked="" type="checkbox"/> GLOVES		<input checked="" type="checkbox"/> SAFETY GLASSES/GOGGLES		<input type="checkbox"/> WELDING PPE		<input type="checkbox"/> OTHER	
Contractor to complete this section below if circumstances on site or specific to this job may generate additional hazards, not as not described in the JSA									
TASKS			Hazard(s) not in JSA			New Product or Process Risk (include PPE to be worn)			
<b>GAUGE</b>			<b>NIL</b>			<b>NA</b>			
<b>PURSE</b>									
<b>SAMPLE</b>									
Work documentation requirements: <b>Lower Risk - no JSA required</b> <b>Medium Risk / Higher Risk tasks - JSA required</b> <b>Higher Risk - JSA required &amp; appropriate check list completed (see below)</b>									
Examples of Higher / Medium risks:		<input type="checkbox"/> Work at heights: in all cases on open sites - on closed sites if no JSA present <input type="checkbox"/> Trenching or excavation related to underground tank / product lines <input type="checkbox"/> Heavy lifting				<input type="checkbox"/> Work in confined spaces (e.g. tank, intercept or deep manhole entry) <input type="checkbox"/> Hot work with risk of product or spark ignition <input type="checkbox"/> LPG system degassing, installation or maintenance			
This form must be completed for each job and updated and re-signed if circumstances change or additional hazards identified.									
<b>SIGN IN</b>		Contractor representative name <b>Lee Bures</b>			Signature 		<b>SIGN OUT</b>		Contractor signature 
Operating sites: to be signed by the Site Representative		Site representative name <b>Denise Johnson</b>			Signature 		<b>GENERAL SAFETY CHECKS</b>		
Non-operating sites: to be signed by Contractor Representative only							Site representative name <b>Denise Johnson</b>		
<b>GENERAL SAFETY CHECKS</b> • Have all site personnel been informed? • Has fuel delivery service been informed? • Is a fuel delivery due? • Have isolation procedures been agreed - lock out/tag out? • Are work areas confined off to protect workers, site staff & public? • Other:		• Has the work area been left tidy and safe? • Are site personnel aware of status of work including remaining isolation? • Are changes to equipment documented and communicated? • All incidents, near incidents, unsafe situations reported? • Other:			Site representative name <b>Denise Johnson</b>		Signature 		Signature 
PARTS - Ordered, Replaced and/or Disposed OI (include model and serial # as appropriate)									

The contractor through its authorized representative shall sign, issue and be solely responsible for all job clearance forms and the obligations arising there under applicable to the work.  
 This form covers important reminders and is not intended to relieve the contractor from safely performing the work in compliance with all applicable laws and regulations.  
 The Site Representative may require the contractor to stop work if it appears that the contractor or any of its workers are failing to comply with the requirements in the applicable terms of this form or other applicable safety requirements.



## WELL GAUGING DATA

Project # 140805-JBI Date 8/5/14 Client CRA

Site 200 Rail Road Ave S Ellensburg WA

Well ID	Time	Well Size (in.)	Sheen / Odor	Depth to Immiscible Liquid (ft.)	Thickness of Immiscible Liquid (ft.)	Volume of Immiscibles Removed (ml)	Depth to water (ft.)	Depth to well bottom (ft.)	Survey Point: TOB or <del>TOC</del>	Notes
MW-1	0611	2					5.08	13.12	↓	
MW-2	0614	2				4.43	12.89			
MW-3	0618	2				4.69	12.97			
MW-4	0622	2				3.61	13.05			
MW-5	0626	2				4.12	13.08			
MW-6	0630	2				4.72	13.12			
MW-7	0634	2				4.34	13.08			
MW-8	0639	2				3.88	13.12			



## LOW FLOW WELL MONITORING DATA SHEET

Project #: 140805-JB1	Client: CRA
Sampler: JB	Gauging Date: 8/5/14
Well I.D.: mw-1	Well Diameter (in.): <input checked="" type="radio"/> 3 <input type="radio"/> 4 <input type="radio"/> 6 <input type="radio"/> 8 <input type="checkbox"/> _____
Total Well Depth (ft.): 13.12	Depth to Water (ft.): 5.08
Depth to Free Product: —	Thickness of Free Product (feet): —
Referenced to: <input checked="" type="radio"/> PVC <input type="radio"/> Grade	Flow Cell Type: YSI 556

Purge Method: 2" Grundfos Pump                      Peristaltic Pump                      Bladder Pump  
 Sampling Method: Dedicated Tubing                      New Tubing                      Other \_\_\_\_\_  
 Start Purge Time: 0702                      Flow Rate: 100 mL/min                      Pump Depth: 10'

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or <del>µS/cm</del> )	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to Water (ft.)
0708	15.58	6.35	1991	174	3.04	59.1	600	5.11
0711	15.66	6.25	1948	150	3.26	48.4	900	5.11
0714	15.74	6.20	1936	101	2.75	42.3	1200	5.11
0717	15.77	6.17	1929	53	2.62	40.9	1500	5.11
0720	15.84	6.16	1919	41	2.57	39.1	1800	5.11

Did well dewater? Yes <input checked="" type="radio"/> No	Amount actually evacuated: 1.8L
Sampling Time: 0730	Sampling Date: 8/5/14
Sample I.D.: GW-062027-080514-JB-mw1	Laboratory: TA
Analyzed for: TP <input checked="" type="radio"/> BTEX <input checked="" type="radio"/> MTBE <input checked="" type="radio"/>	Other: See Col
Equipment Blank I.D.: @	Duplicate I.D.:

### LOW FLOW WELL MONITORING DATA SHEET

Project #: 140805-JB1	Client: CRA
Sampler: JB	Gauging Date: 8/5/14
Well I.D.: mw-2	Well Diameter (in.): <input checked="" type="radio"/> 2   3   4   6   8
Total Well Depth (ft.): 12.89	Depth to Water (ft.): 4.43
Depth to Free Product: _____	Thickness of Free Product (feet): _____
Referenced to: <input checked="" type="radio"/> PVC <input type="radio"/> Grade	Flow Cell Type: VS1556

Purge Method: 2" Grundfos Pump      Peristaltic Pump      Bladder Pump  
 Sampling Method: Dedicated Tubing      New Tubing      Other \_\_\_\_\_  
 Start Purge Time: 0738      Flow Rate: 100 mL/min      Pump Depth: 9'

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or µS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to Water (ft.)
0744	17.00	6.63	796	16	2.74	49.7	600	4.48
0747	16.99	6.60	782	9	2.24	46.1	900	4.48
0750	17.02	6.59	765	7	2.94	46.4	1200	4.48
0753	17.07	6.58	753	4	2.85	45.2	1500	4.48
0756	17.01	6.57	751	3	2.81	44.7	1800	4.48

Did well dewater? Yes <input checked="" type="radio"/> No <input type="radio"/>	Amount actually evacuated: 1.8L
Sampling Time: 0810	Sampling Date: 8/5/14
Sample I.D.: GW-062027-080514-JB-mw-2	Laboratory: TA
Analyzed for: <input checked="" type="checkbox"/> TPH <input checked="" type="checkbox"/> BTEX <input checked="" type="checkbox"/> MTBE <input checked="" type="checkbox"/> TPED	Other: See C0C
Equipment Blank I.D.: @ _____	Duplicate I.D.: _____

### LOW FLOW WELL MONITORING DATA SHEET

Project #: 140805 - JBI	Client: CRA
Sampler: JB	Gauging Date: 8/5/14
Well I.D.: mw-3	Well Diameter (in.): <input checked="" type="radio"/> 3 <input type="radio"/> 4 <input type="radio"/> 6 <input type="radio"/> 8
Total Well Depth (ft.): 12.97	Depth to Water (ft.): 4.69
Depth to Free Product: —	Thickness of Free Product (feet): —
Referenced to: <input checked="" type="checkbox"/> Grade	Flow Cell Type: YSI 556

Purge Method:                    2" Grundfos Pump                    Peristaltic Pump                    Bladder Pump  
 Sampling Method:                Dedicated Tubing                        New Tubing                                Other \_\_\_\_\_

Start Purge Time: 0815                    Flow Rate: 100 ml/min                    Pump Depth: 9'

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or μS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or ml)	Depth to Water (ft.)
0821	19.18	6.65	1006	19	1.08	49.5	600	4.71
0824	19.48	6.69	1008	13	0.90	41.4	900	4.73
0827	19.60	6.74	1011	10	1.04	42.7	1200	4.73
0830	19.62	6.76	1013	8	1.11	41.9	1500	4.73
0833	19.70	6.78	1016	7	1.19	40.8	1800	4.73

Did well dewater? Yes <input checked="" type="checkbox"/> No	Amount actually evacuated: 1.8 l
Sampling Time: 0840	Sampling Date: 8/5/14
Sample I.D.: GW-062027-080514-JB-mw-3	Laboratory: TA
Analyzed for: <input checked="" type="checkbox"/> TPH-C <input checked="" type="checkbox"/> BTEX <input type="checkbox"/> MTBE <input checked="" type="checkbox"/> TPED	Other: see CoC.
Equipment Blank I.D.: @	Duplicate I.D.:

## LOW FLOW WELL MONITORING DATA SHEET

Project #: 140805-381	Client: CRA
Sampler: JB	Gauging Date: 8/5/14
Well I.D.: mw-4	Well Diameter (in.): <input checked="" type="radio"/> 2    3    4    6    8    _____
Total Well Depth (ft.): 13.05	Depth to Water (ft.): 3.61
Depth to Free Product: —	Thickness of Free Product (feet): —
Referenced to: <input checked="" type="radio"/> PVE <input type="radio"/> Grade	Flow Cell Type: YSI 556

Purge Method: 2" Grundfos Pump                      Peristaltic Pump                      Bladder Pump  
 Sampling Method: Dedicated Tubing                      New Tubing                      Other \_\_\_\_\_  
 Start Purge Time: 0854                      Flow Rate: 100 ml/min                      Pump Depth: 7'

Time	Temp. ( <input checked="" type="radio"/> °C or °F)	pH	Cond. (mS/cm or <input checked="" type="radio"/> µS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or <input checked="" type="radio"/> ml)	Depth to Water (ft.)
0900	19.88	7.08	1279	21	2.59	41.9	600	3.65
0903	19.66	7.08	1277	17	2.81	43.1	900	3.65
0906	19.56	7.08	1263	15	2.89	42.5	1200	3.65
0909	19.50	7.07	1254	14	2.79	21.8	1500	3.65
0912	19.43	7.07	1247	14	2.74	21.2	1800	3.65

Did well dewater? Yes  No                      Amount actually evacuated: 1.8L

Sampling Time: 0920                      Sampling Date: 8/5/14

Sample I.D.: Gw-062027-080514-JB-mw-4                      Laboratory: TA

Analyzed for:  TPEL     BTEX     MTBE     TRLD                      Other: See CdC

Equipment Blank I.D.: @                      Duplicate I.D.:

## LOW FLOW WELL MONITORING DATA SHEET

Project #: 140805-JB1	Client: CRA
Sampler: JB	Gauging Date: 8/5/14
Well I.D.: mw-5	Well Diameter (in.): <input checked="" type="radio"/> 2   3   4   6   8   ___
Total Well Depth (ft.): 13.08	Depth to Water (ft.): 4.12
Depth to Free Product: —	Thickness of Free Product (feet): —
Referenced to: <input checked="" type="radio"/> PVC <input type="radio"/> Grade	Flow Cell Type: YSI 556

Purge Method: 2" Grundfos Pump      Peristaltic Pump      Bladder Pump  
 Sampling Method: Dedicated Tubing      New Tubing      Other \_\_\_\_\_  
 Start Purge Time: 0927      Flow Rate: 100 mL/min      Pump Depth: 9'

Time	Temp. (°C or °F)	pH	Cond. (mS/cm or µS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Depth to Water (ft.)
0933	16.06	6.97	1137	4	1.66	92.4	600	4.14
0936	16.25	6.86	1139	2	1.81	90.2	900	4.14
0939	16.38	6.80	1138	3	1.76	89.3	1200	4.14
0942	16.30	6.78	1136	2	1.69	89.7	1500	4.14
0945	16.28	6.78	1134	2	1.61	88.8	1800	4.14

Did well dewater? Yes <input checked="" type="radio"/> No	Amount actually evacuated: 1.8 L
Sampling Time: 0959	Sampling Date: 8/5/14
Sample I.D.: GW-062027-080514-JB-mw-5	Laboratory: TA
Analyzed for: <input checked="" type="checkbox"/> TRP <input checked="" type="checkbox"/> BTEX <input type="checkbox"/> MTBE <input checked="" type="checkbox"/> TPH	Other: See CoC
Equipment Blank I.D.: @ <small>Time</small>	Duplicate I.D.:

## LOW FLOW WELL MONITORING DATA SHEET

Project #: 140805 - JB1	Client: CRA
Sampler: JB	Gauging Date: 8/5/14
Well I.D.: mw-6	Well Diameter (in.): <input checked="" type="radio"/> 3    4    6    8    _____
Total Well Depth (ft.): 13.12	Depth to Water (ft.): 4.72
Depth to Free Product: _____	Thickness of Free Product (feet): _____
Referenced to: <input checked="" type="radio"/> PVC    Grade	Flow Cell Type: YSI 556

Purge Method: 2" Grundfos Pump                      Peristaltic Pump                      Bladder Pump  
 Sampling Method: Dedicated Tubing                      New Tubing                      Other \_\_\_\_\_  
 Start Purge Time: 1002                      Flow Rate: 100 ml/min                      Pump Depth: 9'

Time	Temp. ( <input checked="" type="radio"/> C or °F)	pH	Cond. (mS/cm or <input checked="" type="radio"/> µS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or <input checked="" type="radio"/> mL)	Depth to Water (ft.)
1008	20.59	5.88	1892	7	1.98	74.3	660	4.77
1011	20.80	5.92	1899	7	2.09	75.4	900	4.77
1014	20.67	5.91	1892	7	1.92	72.7	1200	4.77
1017	20.62	5.90	1894	5	1.87	72.1	1500	4.77
1020	20.71	5.89	1892	5	1.85	72.0	1800	4.77

Did well dewater? Yes <input type="radio"/> No <input checked="" type="radio"/>	Amount actually evacuated: 1.8L
Sampling Time: 1027	Sampling Date: 8/5/14
Sample I.D.: GW-062027-080514-JB-mw-6	Laboratory: TA
Analyzed for: TPH <input checked="" type="checkbox"/> BTEX <input checked="" type="checkbox"/> MTBE <input checked="" type="checkbox"/> TRH <input checked="" type="checkbox"/>	Other: See CoC
Equipment Blank I.D.: @ _____ Time	Duplicate I.D.: _____

## LOW FLOW WELL MONITORING DATA SHEET

Project #: <u>140805-JB1</u>	Client: <u>CRA</u>
Sampler: <u>JB</u>	Gauging Date: <u>8/5/14</u>
Well I.D.: <u>mw-7</u>	Well Diameter (in.): <u>2</u> 3 4 6 8
Total Well Depth (ft.): <u>13.08</u>	Depth to Water (ft.): <u>4.34</u>
Depth to Free Product: <u>    </u>	Thickness of Free Product (feet): <u>    </u>
Referenced to: <u>PVC</u> Grade	Flow Cell Type: <u>YSI 556</u>

Purge Method: 2" Grundfos Pump      Peristaltic Pump      Bladder Pump  
 Sampling Method: Dedicated Tubing      New Tubing      Other \_\_\_\_\_  
 Start Purge Time: 1037      Flow Rate: 180 ml/min      Pump Depth: 9'

Time	Temp. ( <u>C</u> or °F)	pH	Cond. (mS/cm or <u>µS/cm</u> )	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or <u>ml</u> )	Depth to Water (ft.)
1043	17.86	6.83	1003	21	2.18	42.1	600	4.38
1046	18.07	6.78	994	20	2.10	40.8	900	4.38
1049	17.90	6.77	992	19	2.06	39.4	1200	4.38
1052	17.81	6.77	989	15	1.97	38.6	1500	4.38
1055	17.89	6.77	984	13	1.95	37.9	1800	4.38

Did well dewater? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Amount actually evacuated: <u>1.8L</u>
Sampling Time: <u>1103</u>	Sampling Date: <u>8/5/14</u>
Sample I.D.: <u>CW-062027-080514-JB-mw-7</u>	Laboratory: <u>TA</u>
Analyzed for: <input checked="" type="checkbox"/> TPH <input checked="" type="checkbox"/> BTEX <input checked="" type="checkbox"/> MTBE <input checked="" type="checkbox"/> TCA-D	Other: <u>see CaC</u>
Equipment Blank I.D.: <u>    </u> @ <u>    </u> Time	Duplicate I.D.: <u>    </u>

## LOW FLOW WELL MONITORING DATA SHEET

Project #: 140805-JB1	Client: CRA
Sampler: JB	Gauging Date: 8/5/14
Well I.D.: mw-8	Well Diameter (in.): <input checked="" type="radio"/> 3 <input type="radio"/> 4 <input type="radio"/> 6 <input type="radio"/> 8 <input type="checkbox"/> _____
Total Well Depth (ft.): 13.12	Depth to Water (ft.): 3.88
Depth to Free Product: —	Thickness of Free Product (feet): —
Referenced to: <input checked="" type="radio"/> PVC <input type="radio"/> Grade	Flow Cell Type: YS1556

Purge Method: 2" Grundfos Pump      Peristaltic Pump      Bladder Pump  
 Sampling Method: Dedicated Tubing      New Tubing      Other \_\_\_\_\_  
 Start Purge Time: 1111      Flow Rate: 100 ml/min      Pump Depth: 8'

Time	Temp. ( <input checked="" type="radio"/> °C or °F)	pH	Cond. (mS/cm or <input checked="" type="radio"/> µS/cm)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or <input checked="" type="radio"/> ml)	Depth to Water (ft.)
1117	17.38	6.82	1162	44	2.84	52.1	600	3.92
1120	17.55	6.81	1165	35	2.85	52.9	900	3.92
1123	17.53	6.82	1172	23	2.69	51.3	1200	3.92
1126	17.46	6.82	1175	20	2.62	50.7	1500	3.92
1129	17.43	6.83	1177	17	2.56	50.2	1800	3.92

Did well dewater? Yes <input type="radio"/> No <input checked="" type="radio"/>	Amount actually evacuated: 1.8L
Sampling Time: 1135	Sampling Date: 8/5/14
Sample I.D.: CW-062027-080514-JB-mw-8	Laboratory: TA
Analyzed for: <input checked="" type="radio"/> TPH <input checked="" type="radio"/> BTEX <input type="radio"/> MTBE <input checked="" type="radio"/> TPH/D	Other: See COC
Equipment Blank I.D.: @ _____	Duplicate I.D.: _____



# Shell Oil Products Chain Of Custody Record

LAB (LOCATION)

CALSCIENCE ( )

SPL Houston ( )

XENCO ( )

TEST AMERICA ( )

OTHER ( )

Please Check Appropriate Box:

ENV. SERVICES      NOTIYA RETAIL      SHELL RETAIL

NOTIYA SD&CM      CONSULTANT      LUBES

SHELL PIPELINE      OTHER ( )

Print Bill To Contact Name: **Brian Peters- 062027**

INCIDENT # (ENV SERVICES): **7 9 7 0 4 4 7**

DATE: **8/5/14**

PO # \_\_\_\_\_ SAP # \_\_\_\_\_

PAGE: 1 of 1

SAMPLING COMPANY: **Blaine Tech Services**

ADDRESS: **20735 Belshaw Avenue, Carson, CA 90746**

PROJECT CONTACT (Hardcopy or PDF Report to): **Lorin King**

TELEPHONE: (310) 885-4455 x 108 FAX: (310) 637-5802 EMAIL: **lking@blainetech.com**

SITE ADDRESS: Street and City: **200 Railroad Ave S - Ellensburg**

State: **WA** Global ID 142: **NA**

PHONE NO.: **425-563-6500** E-MAIL: **Shell-US-LabDataManagement@CRAworld.com**

CONSULTANT PROJECT NO.: **140805-JB1**

SAMPLER NAME(S) (Print): **Justin Blackburn**

TURNAROUND TIME (CALENDAR DAYS):

STANDARD (14 DAY)      5 DAYS      3 DAYS      2 DAYS      24 HOURS      RESULTS NEEDED ON WEEKEND

LA - RWQCB REPORT FORMAT      UST AGENCY:

## REQUESTED ANALYSIS

SPECIAL INSTRUCTIONS OR NOTES:

1) Please upload the "CRA EQuIS 4-file EDD" to the CRA Website (<http://craledupload.craworld.com/equis/default.aspx>) and/or send it to the Shell-US-LabDataManagement@CRAworld.com email folder. 2) Please indicate that you have uploaded the EDD by including "EDD Uploaded to CRA website" in the body of the email used to deliver the final PDF report to the Shell-US-LabDataManagement@CRAworld.com email folder.

SHELL CONTRACT RATE APPLIES

STATE REIMBURSEMENT RATE APPLIES

EDD NOT NEEDED

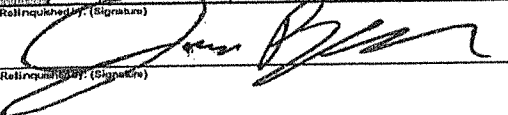
RECEIPT VERIFICATION REQUESTED

Copy final report to Shell.Lab.Billing@craworld.com, Shell.results@craworld.com, and Shell-US-LabDataManagement@CRAworld.com

See Laboratory PM for WA Dept. of Ecology MTCA Method A cleanup levels for minimum detection limits.

Matrix Codes - WG (groundwater), WS (surface water), WP (drinking water source), W(Trip or Temp Blank)

LAB USE ONLY	PROJECT NUMBER	DATE (MMDDYY)	SAMPLER INITIALS	WELL ID	TIME	MATRIX	PRESERVATIVE					NO. OF CONT.	NWTPH-Gx	NWTPH-Dx w/Silica Gel Cleanup (8260B)	BTEX (8260B)	5 Oxygenates, MTBE, TBA, DIPE, TAME, ETBE (8260B)	EDC (8260B)	EDB	NWTPH-Dx w/o Silica Gel Cleanup	Nitrate/Nitrite by 353.2	Dissolved CO2 by SM4500CO2C	Dissolved Methane by RSK-175	Full Scan VOC's By 8260	Alkalinity by SM2320B	Dissolved Iron (Ferrous)	Manganese by 8010/8020	TPH-O	MTBE (8260B)	Dissolved Lead by 6020	Total Lead	TEMPERATURE ON RECEIPT C°	Container PID Readings or Laboratory Notes	
							HCL	HNO3	H2SO4	NONE	OTHER																						
	GW - 062027	080514	JB	mw-1	0730	WG	X	X	X	X	11	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
	GW 062027	080514	JB	mw-2	0810	WG	X	X	X	X	11	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
	GW 062027	080514	JB	mw-3	0840	WG	X	X	X	X	11	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
	GW 062027	080514	JB	mw-4	0920	WG	X	X	X	X	11	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X				
	GW 062027	080514	JB	mw-5	0953	WG	X	X	X	X	11	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X				
	GW 062027	080514	JB	mw-6	1027	WG	X	X	X	X	11	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X					
	GW 062027	080514	JB	mw-7	1103	WG	X	X	X	X	11	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X					
	GW 062027	080514	JB	mw-8	1135	WG	X	X	X	X	11	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X					

Relinquished by: (Signature) 	Received by: (Signature) <b>Shipped via Fed ex</b>	Date: <b>8/5/14</b>	Time:
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:

ENVIRONMENTAL WELL, REMEDIATION COMPOUND, AND SITE INSPECTION FORM

INCIDENT # 7970447

ADDRESS 200 Railroad Ave S

DATE: 8/5/14

CITY & STATE Ellensburg WA

Well ID	Observations Upon Arrival													Note Repairs Made Detailed Explanation of Maintenance Recommended and Performed	Photos of Well Condition		Repair Date and PM Initials			
	Manway Cover, Type, Condition & Size					Well Labeled / Painted Properly*		Well Cap (Gripper) Condition		Well Lock Condition			Well Pad / Surface Condition							
MW-1	Standpipe	Flush	G	P	Size (Inch) 5	Y	N	G	R	G	R	NL	G	P		Y	N			
MW-2	Standpipe	Flush	G	P	Size (Inch) 8	Y	N	G	R	G	R	NL	G	P		Y	N			
MW-3	Standpipe	Flush	G	P	Size (Inch) 8	Y	N	G	R	G	R	NL	G	P		Y	N			
MW-4	Standpipe	Flush	G	P	Size (Inch) 8	Y	N	G	R	G	R	NL	G	P		Y	N			
MW-5	Standpipe	Flush	G	P	Size (Inch) 8	Y	N	G	R	G	R	NL	G	P		Y	N			
MW-6	Standpipe	Flush	G	P	Size (Inch) 8	Y	N	G	R	G	R	NL	G	P		Y	N			
MW-7	Standpipe	Flush	G	P	Size (Inch) 8	Y	N	G	R	G	R	NL	G	P		Y	N			
MW-8	Standpipe	Flush	G	P	Size (Inch) 8	Y	N	G	R	G	R	NL	G	P		Y	N			
	Standpipe	Flush	G	P	Size (Inch)	Y	N	G	R	G	R	NL	G	P		Y	N			
	Standpipe	Flush	G	P	Size (Inch)	Y	N	G	R	G	R	NL	G	P		Y	N			
	Standpipe	Flush	G	P	Size (Inch)	Y	N	G	R	G	R	NL	G	P		Y	N			
TOTAL # CAPS REPLACED =					0	TOTAL # OF LOCKS REPLACED					0									
Condition of Soil Boring Patches of Abandoned Monitoring Wells		G	P	N/A	If PODR, Borings/Well IDs or Location Description													Y	N	
Remediation Compound Type (Check boxes that apply)		Condition of Enclosure			Condition of Area Inside Enclosure			Compound Security			Emergency Contact Info Visible			Cleaning / Repairs Recommended and Conducted			Photos of Condition		Repair Date and PM Initials	
NA		G			G			G			Y			/			Y			
Building		G			G			G			Y			/			Y			
Building w/ Fence Comp.		G			G			G			Y			/			Y			
Fenced Compound		G			G			G			Y			/			Y			
Trailer		G			G			G			Y			/			Y			
Number of Drums On-site	Does the Label Reveal the Source of the Contents	Labeled Correctly and Writing Legible			Drum Condition			Confirm Drums Related to Environmental		Drums Located to Min Business Interference			Detailed Explanation of Any Issues Resolved			Photos of Drum Condition		Date Drums Removed from Site and PM Initials		
0	Y	N	N/A	Y	N	N/A	G	P	N/A	Y	N	Y	N	N/A				Y	N	

G = Good (Acceptable) R = Replaced  
P = Poor (needs attention) NL = No Lock Required

Note: All repairs other than locks and grippers require Shell PM approval prior to repair.

\* = Groundwater monitoring well covers must be painted and labeled in accordance with applicable regulations.

All environmental wells and the remediation compound were in good condition, locked, and secured upon my departure (unless otherwise noted above).

Justin Blackburn / BTS

Print or type Name of Field Personnel & Consultant Company

SHELL BILL OF LADING

SOURCE RECORD **BILL OF LADING**

FOR NON-HAZARDOUS PURGEWATER RECOVERED FROM GROUNDWATER WELLS AT SHELL FACILITIES IN THE STATE OF WASHINGTON OR OREGON. THE NON-HAZARDOUS PURGE- WATER WHICH HAS BEEN RECOVERED FROM GROUND- WATER WELLS, IS MADE UP INTO LOADS OF APPROPRIATE SIZE TO BE TRANSPORTED & PROCESSED BY A SHELL APPROVED WASTE HAULER.

The contractor performing this work is BLAINE TECH SERVICES, INC. 22727 72<sup>ND</sup> Ave South, Suite D - 102, Kent, WA 98032. Blaine Tech Services, Inc. is authorized by SHELL OIL COMPANY (SHELL) to recover, collect, apportion into loads, and haul the Non-Hazardous Well Purgewater that is drawn from wells at the SHELL facility indicated below and to deliver that purgewater to BTS. Transport routing of the Non-Hazardous Well Purgewater may be direct from one Shell facility to BTS; from one Shell facility to BTS via another Shell facility; or any combination thereof. The Non-Hazardous Well Purgewater is and remains the property of SHELL.

This Source Record **BILL OF LADING** was initiated to cover the recovery of Non-Hazardous Well Purgewater from wells at the SHELL facility described below:

<u>7970447</u>		<u>Perry Pineda</u>	
INCIDENT #		Shell Engineer	
<u>200. Railroad Ave S</u>		<u>Ellensburg WA</u>	
street number	street name	city	state

WELL I.D.	GALS.	WELL I.D.	GALS.
<u>mw-1</u>	<u>1 .5</u>	<u>          </u>	<u>          </u>
<u>mw-2</u>	<u>1 .5</u>	<u>          </u>	<u>          </u>
<u>mw-3</u>	<u>1 .5</u>	<u>          </u>	<u>          </u>
<u>mw-4</u>	<u>1 .5</u>	<u>          </u>	<u>          </u>
<u>mw-5</u>	<u>1 .5</u>	<u>          </u>	<u>          </u>
<u>mw-6</u>	<u>1 .5</u>	<u>          </u>	<u>          </u>
<u>mw-7</u>	<u>1 .5</u>	<u>          </u>	<u>          </u>
<u>mw-8</u>	<u>1 .5</u>	<u>          </u>	<u>          </u>
added equip.		any other adjustments	
rinse water	<u>1 4</u>		
<b>TOTAL GALS. RECOVERED</b>	<u>8</u>	loaded onto BTS vehicle #	<u>90</u>
BTS event #	time	date	
<u>140805-JB1</u>	<u>1155</u>	<u>8 / 5 / 14</u>	
signature <u>[Signature]</u>			
*****			
<b>RECEIVED AT</b>	time	date	
<u>BTS Kent</u>		<u>      /      /      </u>	
unloaded by signature _____			

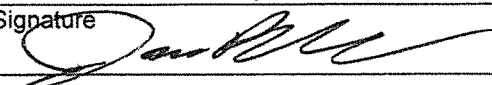
Job Clearance Form											
Station # <b>7970447</b>		Station Address: <b>200 Railroad Ave S Ellensburg WA</b>			Work Order Number: <b>140805-JB1</b>		Date: <b>8/5/14</b>				
Contractor Company Name: <b>BTS</b>		Contractor person in charge (print name): <b>Justin Blackburn</b>		Number of Workers: <b>1</b>	JSA Reference Number: <i>(if required)</i>	Start Time: <b>605</b>	End Time: <b>1200</b>	Laborer	Travel Time:		
Problem/Work Description: <b>Gauge, Purge &amp; Sample groundwater wells</b>							Return Call:	yes/ no			
							Damage Claim:	yes/ no			
(CHECK REQUIRED CHECK AND DRILL HOLE SPACE)											
<input checked="" type="checkbox"/> SAFETY VEST		<input checked="" type="checkbox"/> HARD HAT		<input checked="" type="checkbox"/> SHOES & BOOTS		<input type="checkbox"/> HEARING PROTECTION		<input type="checkbox"/> RESPIRATOR			
<input checked="" type="checkbox"/> PROTECTIVE CLOTHING		<input checked="" type="checkbox"/> GLOVES		<input checked="" type="checkbox"/> SAFETY GLASSES/GOGGLES		<input type="checkbox"/> WELDING PPE		<input type="checkbox"/> OTHER			
Contractor to complete this section below if circumstances on site or specific to this job may generate additional hazards that are not described in the JSA											
(JOB TYPE)			Hazard(s) not covered by JSA			Risk (including one that may be a JSA) that has PPE to be worn					
<b>Gauge Purge Sample</b>			<b>N/A</b>			<b>N/A</b>					
Work documentation requirements: <b>Lower Risk - no JSA required    Medium Risk / Higher Risk tasks - JSA required    Higher Risk - JSA required &amp; appropriate checklist completed (see below)</b>											
<table border="0" style="width:100%;"> <tr> <td style="width:50%; vertical-align: top;"> <b>Examples of Higher / Medium tasks:</b>  <input type="checkbox"/> Works at heights: in all cases on open sites - on closed sites if no JSA present  <input type="checkbox"/> Trenching or excavation related to underground tank / product lines  <input type="checkbox"/> Heavy lifting             </td> <td style="width:50%; vertical-align: top;"> <input type="checkbox"/> Work in confined spaces (e.g. tank, interceptor or deep manhole entry)  <input type="checkbox"/> Hot work with risk of product or vapor ignition  <input type="checkbox"/> LPQ system degassing, installation or maintenance             </td> </tr> </table>										<b>Examples of Higher / Medium tasks:</b> <input type="checkbox"/> Works at heights: in all cases on open sites - on closed sites if no JSA present <input type="checkbox"/> Trenching or excavation related to underground tank / product lines <input type="checkbox"/> Heavy lifting	<input type="checkbox"/> Work in confined spaces (e.g. tank, interceptor or deep manhole entry) <input type="checkbox"/> Hot work with risk of product or vapor ignition <input type="checkbox"/> LPQ system degassing, installation or maintenance
<b>Examples of Higher / Medium tasks:</b> <input type="checkbox"/> Works at heights: in all cases on open sites - on closed sites if no JSA present <input type="checkbox"/> Trenching or excavation related to underground tank / product lines <input type="checkbox"/> Heavy lifting	<input type="checkbox"/> Work in confined spaces (e.g. tank, interceptor or deep manhole entry) <input type="checkbox"/> Hot work with risk of product or vapor ignition <input type="checkbox"/> LPQ system degassing, installation or maintenance										
This form must be completed for each job and updated and re-signed if circumstances change or additional hazards identified.											
<b>SIGN IN</b>		Contractor representative name <b>Justin Blackburn</b>			Signature <i>[Signature]</i>		<b>SIGN OUT</b>			Contractor signature <i>[Signature]</i>	
Operating sites: to be signed by the Site Representative		Non-operating sites: to be signed by Contractor Representative only			<b>GENERAL SAFETY CHECKS</b> • Has the work area been left tidy and safe? • Are site personnel aware of status of work including remaining isolation? • Are changes to equipment documented and communicated? • All incidents, near incidents, unsafe situations reported? • Other:		Site representative name		Signature		
<b>GENERAL SAFETY CHECKS</b> • Have all site personnel been informed? • Has fuel delivery service been informed? • Is fuel delivery due? • Have isolation procedures been agreed - lock out/tag out? • Are work areas cordoned off to protect workers, site staff & public? • Other:		Site representative name <b>Denice Tompkins</b>		Signature <i>[Signature]</i>							
PARTS - Ordered, Replaced and/or Disposed Of (include model and serial as appropriate)											

The contractor through its authorized representative shall sign, issue and be solely responsible for all job clearance forms and the obligations arising there under applicable to the work.  
 This form covers important reminders and is not intended to relieve the contractor from safely performing the work in compliance with all applicable laws and regulations.  
 The Site Representative may require the contractor to stop work if it appears that the contractor or any of its workers are failing to comply with the requirements in the applicable items of this form or other applicable safety requirements.

Site Address: <b>200 Railroad Ave S Ellensburg WA</b>		Date: <b>8/5/14</b>
Check-in with site representative completed?		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> N/A
Is fuel delivery scheduled for today?		<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
Emergency pump cut-off switch located?		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> N/A
First aid kit located and confirmed ready-to-use?		<input checked="" type="checkbox"/> Yes
Fire extinguisher located and confirmed ready-to-use?		<input type="checkbox"/> Yes
Eye wash located and confirmed ready-to-use?		<input checked="" type="checkbox"/> Yes
HASP	Emergency Services information located & reviewed?	<input checked="" type="checkbox"/> Yes
	Hospital map & route located and reviewed?	<input checked="" type="checkbox"/> Yes
	Special Hazard Notice section reviewed?	<input checked="" type="checkbox"/> Yes
	Site Status confirmed or amended, dated and initialed?	<input checked="" type="checkbox"/> Yes
	Emergency Response procedures reviewed with all work crew members?	<input type="checkbox"/> Yes
	Compliance Roster signed by all work crew members?	<input checked="" type="checkbox"/> Yes
Site walk has been performed to locate wells and identify additional hazards?		<input type="checkbox"/> Yes
Job Safety Analysis (JSA) for each task located & reviewed by all work crew members?		<input checked="" type="checkbox"/> Yes
Work Area Plans reviewed for suitability and effectiveness given current site conditions?		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> N/A
Traffic Control Plans reviewed for suitability given current road, traffic & weather conditions?		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> N/A
Stop Work Authority reviewed and understood by all work crew members?		<input checked="" type="checkbox"/> Yes

- In the space below, note unaddressed hazards and conditions that might compromise compliance with Approved Procedures and/or JSA's or impede the safe and proper execution of the Work Plan, Work Area Plan(s) and/or Traffic Control Plan(s).
- Report unaddressed hazards and adverse conditions to the Project Manager during Pre-Start Call-In and as hazards are identified or conditions change throughout the workday.
- DO NOT COMMENCE OR RESTART WORK until PM has been notified and mitigation measures approved.

Time	Hazard or Adverse Condition	PM Initials	Hazard Control Measure

Site representative briefed on planned work activities and Work Area Plans?		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> N/A
Job Clearance Form completed?		<input checked="" type="checkbox"/> Yes
Pre-Start Call-In completed and approval to start work received from Project Manager?		<input type="checkbox"/> Yes
Printed Name <b>Justin Blackburn</b>	Signature 	Time <b>605</b>



# Appendix E

## Survey Data



STATEWIDE LAND SURVEYING INC.

Coordinate System		UTM Zone	Vertical Datum	Quad Map	Station No.	Address	
Washington State		Zone 10	Navd 88	Ellensburg South		200 Railroad Ave S	
Plane Coordinate						Ellensburg, WA	
System Nad 83							
2011							
Well	Northing (Y)	Easting (X)	Latitude	Longitude	El. Surface	El. Rim	El. PVC
MW-1	604548.64	1626786.27	N46°59'28.0101"	W120°33'16.6290"	1508.07	1508.07	1507.56
MW-2	604500.17	1626709.89	N46°59'27.5311"	W120°33'17.7303"	1507.08	1507.10	1506.75
MW-3	604626.02	1626752.06	N46°59'28.7736"	W120°33'17.1233"	1507.85	1507.89	1507.23
MW-4	604641.57	1626830.04	N46°59'28.9277"	W120°33'15.9986"	1506.81	1506.86	1506.25
MW-5	604516.89	1626888.79	N46°59'27.6974"	W120°33'15.1498"	1507.03	1507.09	1506.69
MW-6	604512.45	1626807.95	N46°59'27.6530"	W120°33'16.3160"	1507.57	1507.57	1507.17
MW-7	604562.58	1626834.81	N46°59'28.1481"	W120°33'15.9290"	1506.89	1507.12	1506.83
MW-8	604563.09	1626871.63	N46°59'28.1533"	W120°33'15.3978"	1506.93	1506.96	1506.50
SB-10	604511.64	1626795.71	N46°59'27.6450"	W120°33'16.4924"	1507.48		

500 N.W. 20th St., Suite 101  
 Gresham, Oregon 97030  
[www.statewidesurveying.com](http://www.statewidesurveying.com) [survey@statewidesurveying.com](mailto:survey@statewidesurveying.com)  
 (o) 503.665-7777 (f) 503-665.7988



**MONITORING WELL SURVEY**



**CONESTOGA-ROVERS  
& ASSOCIATES**

SITUATED IN THE SOUTHWEST QUARTER OF SECTION 2, TOWNSHIP 17 NORTH, RANGE 18 EAST OF THE WILLAMETTE MERIDIAN, CITY OF ELLENSBURG, COUNTY OF KITTITAS, STATE OF WASHINGTON.



**SCALE: 1" = 40'**

**VERTICAL DATUM**

NAVD 88(GEOID 2012A)

**UTM ZONE**

ZONE 10

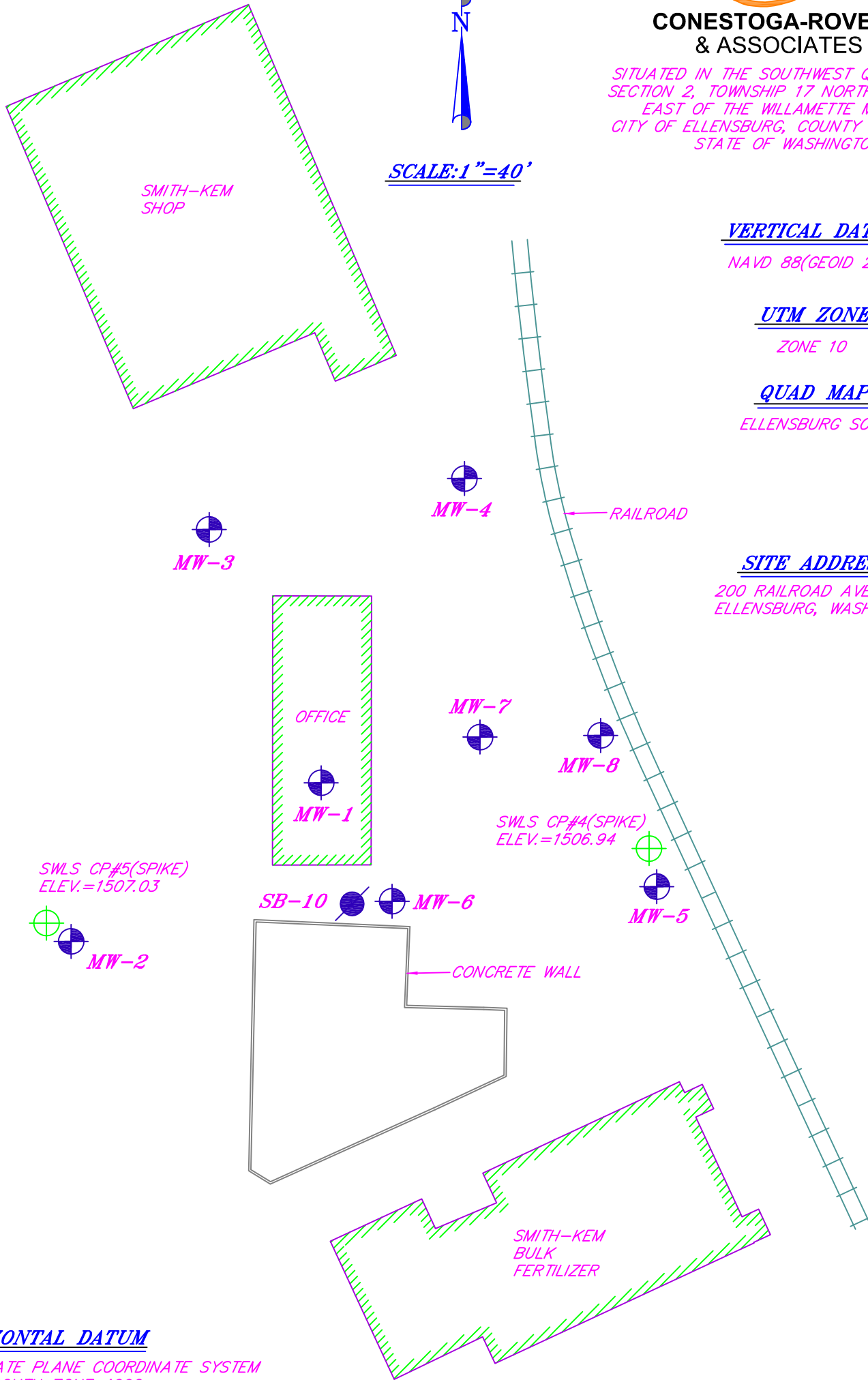
**QUAD MAP**

ELLENSBURG SOUTH

**SITE ADDRESS**

200 RAILROAD AVE. SOUTH  
ELLENSBURG, WASHINGTON

RAILROAD AVENUE



**HORIZONTAL DATUM**

WASHINGTON STATE PLANE COORDINATE SYSTEM  
NAD 83/2011, SOUTH ZONE 4602,  
IN U.S. SURVEY FEET.

**SITE BENCHMARKS**

STATEWIDE LAND SURVEYING SITE CONTROL POINT NUMBER 4 AND 5. SPIKES AS SHOWN HEREON. ELEVATION FOR CP# 4 IS 1506.94 AND CP#5 IS 1507.03 FEET. ELEVATION WAS DERIVED FROM THE WASHINGTON STATE REFERENCE NETWORK.

**LEGEND**

- = MONITORING WELL AS NOTED.
- = SOIL BORING AS NOTED.
- = SITE BENCHMARK AS NOTED.
- SB. = SOIL BORING.
- MW = MONITORING WELL.



<b>STATEWIDE LAND SURVEYING INC.</b>		
WWW.STATEWIDESURVEYING.COM E.SURVEY@STATEWIDESURVEYING.COM		
DRAWN KDC	DATE 10/28/13	500 NW 20TH ST. #101 GRESHAM, OR 97030 (F) 503.665.7988 (O) 503.665.7777
CHECKED DHH	DATE 10/28/13	
SCALE 1" = 40'	SHEET 1 OF 1	PROJECT NO. 2013-118

# Appendix F

## Groundwater Laboratory Analytical Reports

# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

## ANALYTICAL REPORT

TestAmerica Laboratories, Inc.  
TestAmerica Nashville  
2960 Foster Creighton Drive  
Nashville, TN 37204  
Tel: (615)726-0177

TestAmerica Job ID: 490-40187-1  
TestAmerica Sample Delivery Group: SAP / 062027  
Client Project/Site: 200 Railroad Ave S, Ellensburg, WA

For:  
Conestoga-Rovers & Associates, Inc.  
20818 44th Ave W  
Suite 190  
Lynnwood, Washington 98036

Attn: Brian Peters



Authorized for release by:  
12/17/2013 12:48:50 PM

Ryan Fitzwater, Senior Project Manager  
(615)726-0177  
[ryan.fitzwater@testamericainc.com](mailto:ryan.fitzwater@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: Conestoga-Rovers & Associates, Inc.  
Project/Site: 200 Railroad Ave S, Ellensburg, WA

TestAmerica Job ID: 490-40187-1  
SDG: SAP / 062027

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
490-40187-1	GW-062027-111113-RM-MW-1	Ground Water	11/11/13 10:24	11/12/13 08:30
490-40187-2	GW-062027-111113-RM-MW-2	Ground Water	11/11/13 09:39	11/12/13 08:30
490-40187-3	GW-062027-111113-RM-MW-3	Ground Water	11/11/13 11:10	11/12/13 08:30
490-40187-4	GW-062027-111113-RM-MW-4	Ground Water	11/11/13 11:51	11/12/13 08:30
490-40187-5	GW-062027-111113-RM-MW-5	Ground Water	11/11/13 12:29	11/12/13 08:30
490-40187-6	GW-062027-111113-RM-MW-6	Ground Water	11/11/13 13:06	11/12/13 08:30
490-40187-7	GW-062027-111113-RM-MW-7	Ground Water	11/11/13 13:39	11/12/13 08:30
490-40187-8	GW-062027-111113-RM-MW-8	Ground Water	11/11/13 14:19	11/12/13 08:30



# Case Narrative

Client: Conestoga-Rovers & Associates, Inc.  
Project/Site: 200 Railroad Ave S, Ellensburg, WA

TestAmerica Job ID: 490-40187-1  
SDG: SAP / 062027

---

## Job ID: 490-40187-1

---

Laboratory: TestAmerica Nashville

### Narrative

---

Job Narrative  
490-40187-1

#### Comments

No additional comments.

#### Receipt

The samples were received on 11/12/2013 8:30 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 3 coolers at receipt time were 0.8° C, 2.0° C and 4.5° C.

Except:

The following samples were received at the laboratory without a sample collection time documented on the chain of custody: GW-062027-111113-RM-MW-5 (490-40187-5). Times taken from labels.

#### GC/MS VOA

Method(s) 8260B: The following volatiles sample(s) was diluted due to foaming at the time of purging during the original sample analysis: GW-062027-111113-RM-MW-4 (490-40187-4). Elevated reporting limits (RLs) are provided.

No other analytical or quality issues were noted.

#### GC Semi VOA

No analytical or quality issues were noted.

#### VOA Prep

No analytical or quality issues were noted.

---

## Job ID: 490-40187-2

---

Laboratory: TestAmerica Nashville

### Narrative

---

Job Narrative  
490-40187-2

#### Comments

No additional comments.

#### Receipt

The samples were received on 11/12/2013 8:30 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 3 coolers at receipt time were 0.8° C, 2.0° C and 4.5° C.

Except:

The following samples were received at the laboratory without a sample collection time documented on the chain of custody: GW-062027-111113-RM-MW-5 (490-40187-5). Times taken from labels.

#### GC VOA

Method(s) NWTPH-Gx: Insufficient sample volume was available to perform batch duplicate associated with batch 121669. The laboratory control sample (LCS) was performed in duplicate to provide precision data for this batch.

Method(s) NWTPH-Gx: The following samples were diluted due to the nature of the sample matrix: GW-062027-111113-RM-MW-1 (490-40187-1), GW-062027-111113-RM-MW-4 (490-40187-4), GW-062027-111113-RM-MW-6 (490-40187-6), GW-062027-111113-RM-MW-8 (490-40187-8). Elevated reporting limits (RLs) are provided.

# Case Narrative

Client: Conestoga-Rovers & Associates, Inc.  
Project/Site: 200 Railroad Ave S, Ellensburg, WA

TestAmerica Job ID: 490-40187-1  
SDG: SAP / 062027

## Job ID: 490-40187-2 (Continued)

### Laboratory: TestAmerica Nashville (Continued)

Method(s) NWTPH-Gx: Insufficient sample volume was available to perform batch duplicate associated with batch 122267. The laboratory control sample (LCS) was performed in duplicate to provide precision data for this batch.

No other analytical or quality issues were noted.

#### GC Semi VOA

Method(s) NWTPH-Dx: The following sample(s) contained a hydrocarbon pattern which does not match a typical Total Petroleum Hydrocarbon (TPH) pattern used by the laboratory for quantitative purposes: GW-062027-111113-RM-MW-4 (490-40187-4).

Method(s) NWTPH-Dx: There was insufficient contamination present to perform a pattern match for the following sample(s): (490-40187-1 DU), GW-062027-111113-RM-MW-1 (490-40187-1), GW-062027-111113-RM-MW-3 (490-40187-3), GW-062027-111113-RM-MW-5 (490-40187-5).

Method(s) NWTPH-Dx: The following sample(s) contained a hydrocarbon pattern that most closely resembles a Diesel Fuel #2 product used by the laboratory for quantitative purposes: GW-062027-111113-RM-MW-2 (490-40187-2), GW-062027-111113-RM-MW-6 (490-40187-6).

Method(s) NWTPH-Dx: The percent surrogate failed between the source and duplicate samples due to non-homogeneity of sample matrix.

Method(s) NWTPH-Dx: Surrogate recovery for the following sample(s) was outside control limits: GW-062027-111113-RM-MW-4 (490-40187-4). Re-extraction and/or re-analysis was performed with concurring results.

Method(s) NWTPH-Dx: Surrogate recovery for the following sample(s) was outside control limits: GW-062027-111113-RM-MW-7 (490-40187-7), GW-062027-111113-RM-MW-8 (490-40187-8). Re-extraction and/or re-analysis was performed with concurring results.

Method(s) NWTPH-Dx: The following sample(s) contained a hydrocarbon pattern which does not match a typical Total Petroleum Hydrocarbon (TPH) pattern used by the laboratory for quantitative purposes: GW-062027-111113-RM-MW-4 (490-40187-4).

Method(s) NWTPH-Dx: Re-extraction and/or re-analysis was performed with concurring results. The original analysis has been reported. GW-062027-111113-RM-MW-6 (490-40187-6).

Method(s) NWTPH-Dx: Re-extraction and/or re-analysis was performed with concurring results. The original analysis has been reported. GW-062027-111113-RM-MW-6 (490-40187-6).

Method(s) NWTPH-Dx: The following sample(s) contained a hydrocarbon pattern which does not match a typical Total Petroleum Hydrocarbon (TPH) pattern used by the laboratory for quantitative purposes: GW-062027-111113-RM-MW-4 (490-40187-4).

Method(s) NWTPH-Dx: Reanalysis of the following sample(s) was performed outside of the analytical holding time: (490-40187-3 DU), GW-062027-111113-RM-MW-2 (490-40187-2), GW-062027-111113-RM-MW-3 (490-40187-3), GW-062027-111113-RM-MW-4 (490-40187-4), GW-062027-111113-RM-MW-5 (490-40187-5). Original extraction contaminated. Re-extraction reported with qualification.

No other analytical or quality issues were noted.

#### Metals

No analytical or quality issues were noted.

#### Organic Prep

Method(s) 3510C: The following sample(s) formed emulsions during the extraction procedure: (490-40187-1 DU), GW-062027-111113-RM-MW-1 (490-40187-1), GW-062027-111113-RM-MW-2 (490-40187-2), GW-062027-111113-RM-MW-3 (490-40187-3), GW-062027-111113-RM-MW-4 (490-40187-4), GW-062027-111113-RM-MW-5 (490-40187-5), GW-062027-111113-RM-MW-6 (490-40187-6), GW-062027-111113-RM-MW-7 (490-40187-7), GW-062027-111113-RM-MW-8 (490-40187-8). The emulsions were broken up using centrifuge.

Method(s) 3510C: The following sample(s) formed emulsions during the extraction procedure: (490-40187-8 DU). The emulsions were

## Case Narrative

Client: Conestoga-Rovers & Associates, Inc.  
Project/Site: 200 Railroad Ave S, Ellensburg, WA

TestAmerica Job ID: 490-40187-1  
SDG: SAP / 062027

### Job ID: 490-40187-2 (Continued)

#### Laboratory: TestAmerica Nashville (Continued)

broken up using pour backs.

Method(s) 3510C: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with batch \_\_122375\_\_.

Method(s) 3510C: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with batch 125222.

No other analytical or quality issues were noted.

#### VOA Prep

No analytical or quality issues were noted.

### Job ID: 490-40187-3

#### Laboratory: TestAmerica Nashville

##### Narrative

##### Job Narrative 490-40187-3

##### Comments

No additional comments.

##### Receipt

The samples were received on 11/12/2013 8:30 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 3 coolers at receipt time were 0.8° C, 2.0° C and 4.5° C.

Except:

The following samples were received at the laboratory without a sample collection time documented on the chain of custody: GW-062027-111113-RM-MW-5 (490-40187-5). Times taken from labels.

##### GC Semi VOA

Method(s) NWTPH-Dx: There was insufficient contamination present to perform a pattern match for the following sample(s): (490-40187-1 DU), GW-062027-111113-RM-MW-1 (490-40187-1).

Method(s) NWTPH-Dx: The following sample(s) contained a hydrocarbon pattern which does not match a typical Total Petroleum Hydrocarbon (TPH) pattern used by the laboratory for quantitative purposes: GW-062027-111113-RM-MW-4 (490-40187-4).

Method(s) NWTPH-Dx: The following sample(s) contained a hydrocarbon pattern which does not match a typical Total Petroleum Hydrocarbon (TPH) pattern used by the laboratory for quantitative purposes: GW-062027-111113-RM-MW-6 (490-40187-6).

Method(s) NWTPH-Dx: Surrogate recovery for the following sample(s) was outside control limits: GW-062027-111113-RM-MW-6 (490-40187-6). Re-extraction and/or re-analysis was performed outside of holding time with acceptable results. The hydrocarbon results and pattern were confirmed by re-extraction and re-analysis.

Method(s) NWTPH-Dx: Surrogate recovery for the following sample(s) was outside control limits: GW-062027-111113-RM-MW-7 (490-40187-7), GW-062027-111113-RM-MW-8 (490-40187-8). Re-extraction and/or re-analysis was performed with concurring results.

Method(s) NWTPH-Dx: Surrogate recovery for the following sample(s) was outside control limits: GW-062027-111113-RM-MW-4 (490-40187-4). Re-extraction and/or re-analysis was performed with concurring results.

Method(s) NWTPH-Dx: Surrogate recovery for the following sample(s) was outside control limits: GW-062027-111113-RM-MW-1 (490-40187-1). Evidence of matrix interferences is not obvious. The hydrocarbon results have been confirmed by re-extraction and re-analysis.



# Case Narrative

Client: Conestoga-Rovers & Associates, Inc.  
Project/Site: 200 Railroad Ave S, Ellensburg, WA

TestAmerica Job ID: 490-40187-1  
SDG: SAP / 062027

## Job ID: 490-40187-3 (Continued)

### Laboratory: TestAmerica Nashville (Continued)

Method(s) NWTPH-Dx: There was insufficient contamination present to perform a pattern match for the following sample(s):  
GW-062027-111113-RM-MW-1 (490-40187-1).

Method(s) NWTPH-Dx: Surrogate recovery for the following sample(s) was outside control limits: GW-062027-111113-RM-MW-4  
(490-40187-4). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method(s) NWTPH-Dx: The following sample(s) contained a hydrocarbon pattern which does not match a typical Total Petroleum  
Hydrocarbon (TPH) pattern used by the laboratory for quantitative purposes: GW-062027-111113-RM-MW-4 (490-40187-4).

No other analytical or quality issues were noted.

### Organic Prep

Method(s) 3510C: The following sample(s) formed emulsions during the extraction procedure: (490-40187-1 DU). The emulsions were  
broken up using centrifuge.

Method(s) 3510C: The following sample(s) formed emulsions during the extraction procedure: (490-40187-8 DU),  
GW-062027-111113-RM-MW-1 (490-40187-1), GW-062027-111113-RM-MW-2 (490-40187-2), GW-062027-111113-RM-MW-3  
(490-40187-3), GW-062027-111113-RM-MW-4 (490-40187-4), GW-062027-111113-RM-MW-5 (490-40187-5),  
GW-062027-111113-RM-MW-6 (490-40187-6), GW-062027-111113-RM-MW-7 (490-40187-7), GW-062027-111113-RM-MW-8  
(490-40187-8). The emulsions were broken up using pour backs.

Method(s) 3510C: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with  
batch 122375.

Method(s) 3510C: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with  
batch 122939.

Method(s) 3510C: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with  
batch 125222.

Method(s) 3510C: The following sample(s) formed emulsions during the extraction procedure: GW-062027-111113-RM-MW-4  
(490-40187-4). The emulsions were broken up using the centrifuge.

No other analytical or quality issues were noted.

## Definitions/Glossary

Client: Conestoga-Rovers & Associates, Inc.  
Project/Site: 200 Railroad Ave S, Ellensburg, WA

TestAmerica Job ID: 490-40187-1  
SDG: SAP / 062027

### Qualifiers

#### GC/MS VOA

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.
E	Result exceeded calibration range.

#### GC Semi VOA

Qualifier	Qualifier Description
X	Surrogate is outside control limits
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: Conestoga-Rovers & Associates, Inc.  
 Project/Site: 200 Railroad Ave S, Ellensburg, WA

TestAmerica Job ID: 490-40187-1  
 SDG: SAP / 062027

**Client Sample ID: GW-062027-111113-RM-MW-1**

**Lab Sample ID: 490-40187-1**

**Date Collected: 11/11/13 10:24**

**Matrix: Ground Water**

**Date Received: 11/12/13 08:30**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane	ND		1.00		ug/L			11/19/13 05:19	1
Benzene	ND		1.00		ug/L			11/19/13 05:19	1
Diisopropyl ether	ND		2.00		ug/L			11/19/13 05:19	1
Ethyl tert-butyl ether	ND		1.00		ug/L			11/19/13 05:19	1
Ethylbenzene	ND		1.00		ug/L			11/19/13 05:19	1
Methyl tert-butyl ether	ND		1.00		ug/L			11/19/13 05:19	1
Tert-amyl methyl ether	ND		1.00		ug/L			11/19/13 05:19	1
tert-Butyl alcohol (TBA)	ND		10.0		ug/L			11/19/13 05:19	1
Toluene	ND		1.00		ug/L			11/19/13 05:19	1
Xylenes, Total	ND		2.00		ug/L			11/19/13 05:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	114		70 - 130		11/19/13 05:19	1
4-Bromofluorobenzene (Surr)	91		70 - 130		11/19/13 05:19	1
Dibromofluoromethane (Surr)	110		70 - 130		11/19/13 05:19	1
Toluene-d8 (Surr)	95		70 - 130		11/19/13 05:19	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C12	ND		500		ug/L			11/15/13 22:05	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	82		50 - 150		11/15/13 22:05	5

**Method: 8011 - EDB and DBCP in Water by Microextraction**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylene Dibromide	ND		0.0100		ug/L		11/18/13 10:36	11/18/13 15:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dibromopropane	114		70 - 130	11/18/13 10:36	11/18/13 15:43	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C24	177		105		ug/L		11/15/13 14:57	11/17/13 04:17	1
C24-C40	ND		105		ug/L		11/15/13 14:57	11/17/13 04:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	36	X	50 - 150	11/15/13 14:57	11/17/13 04:17	1

**Method: NWTPH-Dx - Semi-Volatile Petroleum Products by NWTPH with Silica Gel Cleanup**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C24	178		100		ug/L		11/14/13 09:13	11/15/13 20:30	1
C24-C40	ND		100		ug/L		11/14/13 09:13	11/16/13 18:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	61		50 - 150	11/14/13 09:13	11/15/13 20:30	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.00284		0.00200		mg/L		11/13/13 11:01	11/13/13 18:46	1

TestAmerica Nashville

# Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
 Project/Site: 200 Railroad Ave S, Ellensburg, WA

TestAmerica Job ID: 490-40187-1  
 SDG: SAP / 062027

**Client Sample ID: GW-062027-111113-RM-MW-2**

**Lab Sample ID: 490-40187-2**

**Date Collected: 11/11/13 09:39**

**Matrix: Ground Water**

**Date Received: 11/12/13 08:30**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane	ND		1.00		ug/L			11/19/13 05:47	1
Benzene	ND		1.00		ug/L			11/19/13 05:47	1
Diisopropyl ether	ND		2.00		ug/L			11/19/13 05:47	1
Ethyl tert-butyl ether	ND		1.00		ug/L			11/19/13 05:47	1
Ethylbenzene	ND		1.00		ug/L			11/19/13 05:47	1
Methyl tert-butyl ether	ND		1.00		ug/L			11/19/13 05:47	1
Tert-amyl methyl ether	ND		1.00		ug/L			11/19/13 05:47	1
tert-Butyl alcohol (TBA)	ND		10.0		ug/L			11/19/13 05:47	1
Toluene	ND		1.00		ug/L			11/19/13 05:47	1
Xylenes, Total	ND		2.00		ug/L			11/19/13 05:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	113		70 - 130		11/19/13 05:47	1
4-Bromofluorobenzene (Surr)	92		70 - 130		11/19/13 05:47	1
Dibromofluoromethane (Surr)	110		70 - 130		11/19/13 05:47	1
Toluene-d8 (Surr)	98		70 - 130		11/19/13 05:47	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C12	ND		100		ug/L			11/15/13 20:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	83		50 - 150		11/15/13 20:01	1

**Method: 8011 - EDB and DBCP in Water by Microextraction**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylene Dibromide	ND		0.0100		ug/L		11/18/13 10:36	11/18/13 16:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dibromopropane	113		70 - 130	11/18/13 10:36	11/18/13 16:09	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C24	ND		95.2		ug/L		11/15/13 14:57	11/17/13 04:32	1
C24-C40	ND		95.2		ug/L		11/15/13 14:57	11/17/13 04:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	63		50 - 150	11/15/13 14:57	11/17/13 04:32	1

**Method: NWTPH-Dx - Semi-Volatile Petroleum Products by NWTPH with Silica Gel Cleanup**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C24	ND		95.2		ug/L		11/15/13 14:57	12/07/13 21:36	1
C24-C40	ND		95.2		ug/L		11/15/13 14:57	12/07/13 21:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	75		50 - 150	11/15/13 14:57	12/07/13 21:36	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.00200		mg/L		11/13/13 11:01	11/13/13 19:00	1

TestAmerica Nashville

# Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
 Project/Site: 200 Railroad Ave S, Ellensburg, WA

TestAmerica Job ID: 490-40187-1  
 SDG: SAP / 062027

**Client Sample ID: GW-062027-111113-RM-MW-3**

**Lab Sample ID: 490-40187-3**

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

**Matrix: Ground Water**

**Date Received: 11/12/13 08:30**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane	ND		1.00		ug/L			11/19/13 06:16	1
Benzene	ND		1.00		ug/L			11/19/13 06:16	1
Diisopropyl ether	ND		2.00		ug/L			11/19/13 06:16	1
Ethyl tert-butyl ether	ND		1.00		ug/L			11/19/13 06:16	1
Ethylbenzene	ND		1.00		ug/L			11/19/13 06:16	1
Methyl tert-butyl ether	ND		1.00		ug/L			11/19/13 06:16	1
Tert-amyl methyl ether	ND		1.00		ug/L			11/19/13 06:16	1
tert-Butyl alcohol (TBA)	ND		10.0		ug/L			11/19/13 06:16	1
Toluene	ND		1.00		ug/L			11/19/13 06:16	1
Xylenes, Total	ND		2.00		ug/L			11/19/13 06:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	113		70 - 130		11/19/13 06:16	1
4-Bromofluorobenzene (Surr)	92		70 - 130		11/19/13 06:16	1
Dibromofluoromethane (Surr)	112		70 - 130		11/19/13 06:16	1
Toluene-d8 (Surr)	95		70 - 130		11/19/13 06:16	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C12	ND		100		ug/L			11/15/13 20:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	82		50 - 150		11/15/13 20:32	1

**Method: 8011 - EDB and DBCP in Water by Microextraction**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylene Dibromide	ND		0.0100		ug/L		11/18/13 10:36	11/18/13 16:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dibromopropane	111		70 - 130	11/18/13 10:36	11/18/13 16:34	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C24	ND		93.5		ug/L		11/15/13 14:57	11/17/13 04:48	1
C24-C40	ND		93.5		ug/L		11/15/13 14:57	11/17/13 04:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	67		50 - 150	11/15/13 14:57	11/17/13 04:48	1

**Method: NWTPH-Dx - Semi-Volatile Petroleum Products by NWTPH with Silica Gel Cleanup**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C24	ND		93.5		ug/L		11/15/13 14:57	12/07/13 21:52	1
C24-C40	ND		93.5		ug/L		11/15/13 14:57	12/07/13 21:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	75		50 - 150	11/15/13 14:57	12/07/13 21:52	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0109		0.00200		mg/L		11/13/13 11:01	11/13/13 19:05	1

TestAmerica Nashville

# Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
 Project/Site: 200 Railroad Ave S, Ellensburg, WA

TestAmerica Job ID: 490-40187-1  
 SDG: SAP / 062027

**Client Sample ID: GW-062027-111113-RM-MW-4**

**Lab Sample ID: 490-40187-4**

**Date Collected: 11/11/13 11:51**

**Matrix: Ground Water**

**Date Received: 11/12/13 08:30**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane	ND		10.0		ug/L			11/19/13 20:18	10
Benzene	ND		10.0		ug/L			11/19/13 20:18	10
Diisopropyl ether	ND		20.0		ug/L			11/19/13 20:18	10
Ethyl tert-butyl ether	ND		10.0		ug/L			11/19/13 20:18	10
Ethylbenzene	ND		10.0		ug/L			11/19/13 20:18	10
Methyl tert-butyl ether	ND		10.0		ug/L			11/19/13 20:18	10
Tert-amyl methyl ether	ND		10.0		ug/L			11/19/13 20:18	10
tert-Butyl alcohol (TBA)	ND		100		ug/L			11/19/13 20:18	10
Toluene	ND		10.0		ug/L			11/19/13 20:18	10
Xylenes, Total	ND		20.0		ug/L			11/19/13 20:18	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	112		70 - 130		11/19/13 20:18	10
4-Bromofluorobenzene (Surr)	89		70 - 130		11/19/13 20:18	10
Dibromofluoromethane (Surr)	109		70 - 130		11/19/13 20:18	10
Toluene-d8 (Surr)	94		70 - 130		11/19/13 20:18	10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C12	ND		1000		ug/L			11/15/13 23:37	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	83		50 - 150		11/15/13 23:37	10

**Method: 8011 - EDB and DBCP in Water by Microextraction**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylene Dibromide	ND		0.0100		ug/L		11/18/13 10:36	11/18/13 17:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dibromopropane	112		70 - 130	11/18/13 10:36	11/18/13 17:51	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C24	883		111		ug/L		11/15/13 14:57	11/17/13 05:04	1
C24-C40	565		111		ug/L		11/15/13 14:57	11/17/13 05:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	18	X	50 - 150	11/15/13 14:57	11/17/13 05:04	1

**Method: NWTPH-Dx - Semi-Volatile Petroleum Products by NWTPH with Silica Gel Cleanup**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C24	720		111		ug/L		11/15/13 14:57	12/07/13 22:07	1
C24-C40	302		111		ug/L		11/15/13 14:57	12/07/13 22:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	18	X	50 - 150	11/15/13 14:57	12/07/13 22:07	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.00502		0.00200		mg/L		11/13/13 11:01	11/14/13 16:36	1

TestAmerica Nashville

# Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
 Project/Site: 200 Railroad Ave S, Ellensburg, WA

TestAmerica Job ID: 490-40187-1  
 SDG: SAP / 062027

**Client Sample ID: GW-062027-111113-RM-MW-5**

**Lab Sample ID: 490-40187-5**

**Date Collected: 11/11/13 12:29**

**Matrix: Ground Water**

**Date Received: 11/12/13 08:30**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane	ND		1.00		ug/L			11/19/13 07:11	1
Benzene	ND		1.00		ug/L			11/19/13 07:11	1
Diisopropyl ether	ND		2.00		ug/L			11/19/13 07:11	1
Ethyl tert-butyl ether	ND		1.00		ug/L			11/19/13 07:11	1
Ethylbenzene	ND		1.00		ug/L			11/19/13 07:11	1
Methyl tert-butyl ether	ND		1.00		ug/L			11/19/13 07:11	1
Tert-amyl methyl ether	ND		1.00		ug/L			11/19/13 07:11	1
tert-Butyl alcohol (TBA)	ND		10.0		ug/L			11/19/13 07:11	1
Toluene	ND		1.00		ug/L			11/19/13 07:11	1
Xylenes, Total	ND		2.00		ug/L			11/19/13 07:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	106		70 - 130		11/19/13 07:11	1
4-Bromofluorobenzene (Surr)	92		70 - 130		11/19/13 07:11	1
Dibromofluoromethane (Surr)	100		70 - 130		11/19/13 07:11	1
Toluene-d8 (Surr)	91		70 - 130		11/19/13 07:11	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C12	ND		100		ug/L			11/15/13 21:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	84		50 - 150		11/15/13 21:03	1

**Method: 8011 - EDB and DBCP in Water by Microextraction**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylene Dibromide	ND		0.0100		ug/L		11/18/13 10:36	11/18/13 18:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dibromopropane	110		70 - 130	11/18/13 10:36	11/18/13 18:17	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C24	ND		105		ug/L		11/15/13 14:57	11/17/13 05:19	1
C24-C40	ND		105		ug/L		11/15/13 14:57	11/17/13 05:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	62		50 - 150	11/15/13 14:57	11/17/13 05:19	1

**Method: NWTPH-Dx - Semi-Volatile Petroleum Products by NWTPH with Silica Gel Cleanup**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C24	ND		105		ug/L		11/15/13 14:57	12/07/13 22:23	1
C24-C40	ND		105		ug/L		11/15/13 14:57	12/07/13 22:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	67		50 - 150	11/15/13 14:57	12/07/13 22:23	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.00200		mg/L		11/13/13 11:01	11/13/13 19:15	1

TestAmerica Nashville

# Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
 Project/Site: 200 Railroad Ave S, Ellensburg, WA

TestAmerica Job ID: 490-40187-1  
 SDG: SAP / 062027

**Client Sample ID: GW-062027-111113-RM-MW-6**

**Lab Sample ID: 490-40187-6**

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

**Matrix: Ground Water**

**Date Received: 11/12/13 08:30**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane	ND		1.00		ug/L			11/19/13 07:39	1
Benzene	ND		1.00		ug/L			11/19/13 07:39	1
Diisopropyl ether	ND		2.00		ug/L			11/19/13 07:39	1
Ethyl tert-butyl ether	ND		1.00		ug/L			11/19/13 07:39	1
Ethylbenzene	ND		1.00		ug/L			11/19/13 07:39	1
Methyl tert-butyl ether	ND		1.00		ug/L			11/19/13 07:39	1
Tert-amyl methyl ether	ND		1.00		ug/L			11/19/13 07:39	1
tert-Butyl alcohol (TBA)	ND		10.0		ug/L			11/19/13 07:39	1
Toluene	ND		1.00		ug/L			11/19/13 07:39	1
Xylenes, Total	ND		2.00		ug/L			11/19/13 07:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	107		70 - 130		11/19/13 07:39	1
4-Bromofluorobenzene (Surr)	92		70 - 130		11/19/13 07:39	1
Dibromofluoromethane (Surr)	108		70 - 130		11/19/13 07:39	1
Toluene-d8 (Surr)	91		70 - 130		11/19/13 07:39	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C12	ND		500		ug/L			11/15/13 23:06	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	82		50 - 150		11/15/13 23:06	5

**Method: 8011 - EDB and DBCP in Water by Microextraction**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylene Dibromide	ND		0.0100		ug/L		11/18/13 10:36	11/18/13 18:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dibromopropane	107		70 - 130	11/18/13 10:36	11/18/13 18:42	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C24	758		111		ug/L		11/15/13 14:57	11/17/13 05:35	1
C24-C40	149		111		ug/L		11/15/13 14:57	11/17/13 05:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	45	X	50 - 150	11/15/13 14:57	11/17/13 05:35	1

**Method: NWTPH-Dx - Semi-Volatile Petroleum Products by NWTPH with Silica Gel Cleanup**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C24	841		95.2		ug/L		11/14/13 09:13	11/15/13 22:04	1
C24-C40	ND		95.2		ug/L		11/14/13 09:13	11/16/13 20:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	68		50 - 150	11/14/13 09:13	11/15/13 22:04	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.00200		mg/L		11/13/13 11:01	11/13/13 19:19	1

TestAmerica Nashville



# Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
 Project/Site: 200 Railroad Ave S, Ellensburg, WA

TestAmerica Job ID: 490-40187-1  
 SDG: SAP / 062027

**Client Sample ID: GW-062027-111113-RM-MW-7**

**Lab Sample ID: 490-40187-7**

**Date Collected: 11/11/13 13:39**

**Matrix: Ground Water**

**Date Received: 11/12/13 08:30**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane	ND		1.00		ug/L			11/19/13 08:07	1
Benzene	ND		1.00		ug/L			11/19/13 08:07	1
Diisopropyl ether	ND		2.00		ug/L			11/19/13 08:07	1
Ethyl tert-butyl ether	ND		1.00		ug/L			11/19/13 08:07	1
Ethylbenzene	ND		1.00		ug/L			11/19/13 08:07	1
Methyl tert-butyl ether	ND		1.00		ug/L			11/19/13 08:07	1
Tert-amyl methyl ether	ND		1.00		ug/L			11/19/13 08:07	1
tert-Butyl alcohol (TBA)	ND		10.0		ug/L			11/19/13 08:07	1
Toluene	ND		1.00		ug/L			11/19/13 08:07	1
Xylenes, Total	ND		2.00		ug/L			11/19/13 08:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	108		70 - 130		11/19/13 08:07	1
4-Bromofluorobenzene (Surr)	90		70 - 130		11/19/13 08:07	1
Dibromofluoromethane (Surr)	108		70 - 130		11/19/13 08:07	1
Toluene-d8 (Surr)	93		70 - 130		11/19/13 08:07	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C12	ND		100		ug/L			11/15/13 21:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	80		50 - 150		11/15/13 21:34	1

**Method: 8011 - EDB and DBCP in Water by Microextraction**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylene Dibromide	ND		0.0100		ug/L		11/18/13 10:36	11/18/13 19:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dibromopropane	100		70 - 130	11/18/13 10:36	11/18/13 19:08	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C24	ND		111		ug/L		11/15/13 14:57	11/17/13 05:51	1
C24-C40	ND		111		ug/L		11/15/13 14:57	11/17/13 05:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	37	X	50 - 150	11/15/13 14:57	11/17/13 05:51	1

**Method: NWTPH-Dx - Semi-Volatile Petroleum Products by NWTPH with Silica Gel Cleanup**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C24	ND		100		ug/L		11/14/13 09:13	11/15/13 22:51	1
C24-C40	ND		100		ug/L		11/14/13 09:13	11/25/13 14:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	49	X	50 - 150	11/14/13 09:13	11/15/13 22:51	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.00200		mg/L		11/13/13 11:01	11/13/13 19:24	1

TestAmerica Nashville

# Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
 Project/Site: 200 Railroad Ave S, Ellensburg, WA

TestAmerica Job ID: 490-40187-1  
 SDG: SAP / 062027

**Client Sample ID: GW-062027-111113-RM-MW-8**

**Lab Sample ID: 490-40187-8**

**Date Collected: 11/11/13 14:19**

**Matrix: Ground Water**

**Date Received: 11/12/13 08:30**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane	ND		1.00		ug/L			11/19/13 08:35	1
Benzene	ND		1.00		ug/L			11/19/13 08:35	1
Diisopropyl ether	ND		2.00		ug/L			11/19/13 08:35	1
Ethyl tert-butyl ether	ND		1.00		ug/L			11/19/13 08:35	1
Ethylbenzene	ND		1.00		ug/L			11/19/13 08:35	1
Methyl tert-butyl ether	ND		1.00		ug/L			11/19/13 08:35	1
Tert-amyl methyl ether	ND		1.00		ug/L			11/19/13 08:35	1
tert-Butyl alcohol (TBA)	ND		10.0		ug/L			11/19/13 08:35	1
Toluene	ND		1.00		ug/L			11/19/13 08:35	1
Xylenes, Total	ND		2.00		ug/L			11/19/13 08:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	112		70 - 130		11/19/13 08:35	1
4-Bromofluorobenzene (Surr)	88		70 - 130		11/19/13 08:35	1
Dibromofluoromethane (Surr)	110		70 - 130		11/19/13 08:35	1
Toluene-d8 (Surr)	89		70 - 130		11/19/13 08:35	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C12	ND		500		ug/L			11/15/13 22:36	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	83		50 - 150		11/15/13 22:36	5

**Method: 8011 - EDB and DBCP in Water by Microextraction**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylene Dibromide	ND		0.0100		ug/L		11/18/13 10:36	11/18/13 19:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dibromopropane	110		70 - 130	11/18/13 10:36	11/18/13 19:33	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C24	ND		96.2		ug/L		11/15/13 14:57	11/17/13 06:07	1
C24-C40	ND		96.2		ug/L		11/15/13 14:57	11/17/13 06:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	29	X	50 - 150	11/15/13 14:57	11/17/13 06:07	1

**Method: NWTPH-Dx - Semi-Volatile Petroleum Products by NWTPH with Silica Gel Cleanup**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C24	ND		100		ug/L		11/14/13 09:13	11/15/13 23:06	1
C24-C40	ND		100		ug/L		11/14/13 09:13	11/25/13 14:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	47	X	50 - 150	11/14/13 09:13	11/15/13 23:06	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.00224		0.00200		mg/L		11/13/13 11:01	11/13/13 19:29	1

TestAmerica Nashville

# QC Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
 Project/Site: 200 Railroad Ave S, Ellensburg, WA

TestAmerica Job ID: 490-40187-1  
 SDG: SAP / 062027

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

**Lab Sample ID: MB 490-122865/7**

**Matrix: Water**

**Analysis Batch: 122865**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane	ND		1.00		ug/L			11/19/13 01:08	1
Benzene	ND		1.00		ug/L			11/19/13 01:08	1
Diisopropyl ether	ND		2.00		ug/L			11/19/13 01:08	1
Ethyl tert-butyl ether	ND		1.00		ug/L			11/19/13 01:08	1
Ethylbenzene	ND		1.00		ug/L			11/19/13 01:08	1
Methyl tert-butyl ether	ND		1.00		ug/L			11/19/13 01:08	1
Tert-amyl methyl ether	ND		1.00		ug/L			11/19/13 01:08	1
tert-Butyl alcohol (TBA)	ND		10.0		ug/L			11/19/13 01:08	1
Toluene	ND		1.00		ug/L			11/19/13 01:08	1
Xylenes, Total	ND		2.00		ug/L			11/19/13 01:08	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	112		70 - 130		11/19/13 01:08	1
4-Bromofluorobenzene (Surr)	89		70 - 130		11/19/13 01:08	1
Dibromofluoromethane (Surr)	109		70 - 130		11/19/13 01:08	1
Toluene-d8 (Surr)	96		70 - 130		11/19/13 01:08	1

**Lab Sample ID: LCS 490-122865/3**

**Matrix: Water**

**Analysis Batch: 122865**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dichloroethane	50.0	56.47		ug/L		113	77 - 121
Benzene	50.0	51.64		ug/L		103	80 - 121
Diisopropyl ether	50.0	49.09		ug/L		98	61 - 142
Ethyl tert-butyl ether	50.0	47.73		ug/L		95	63 - 135
Ethylbenzene	50.0	56.65		ug/L		113	80 - 130
Methyl tert-butyl ether	50.0	50.91		ug/L		102	72 - 133
Tert-amyl methyl ether	50.0	44.97		ug/L		90	63 - 135
tert-Butyl alcohol (TBA)	500	382.6		ug/L		77	54 - 150
Toluene	50.0	52.11		ug/L		104	80 - 126
Xylenes, Total	100	114.4		ug/L		114	80 - 132

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	108		70 - 130
4-Bromofluorobenzene (Surr)	90		70 - 130
Dibromofluoromethane (Surr)	108		70 - 130
Toluene-d8 (Surr)	92		70 - 130

**Lab Sample ID: LCSD 490-122865/4**

**Matrix: Water**

**Analysis Batch: 122865**

**Client Sample ID: Lab Control Sample Dup**

**Prep Type: Total/NA**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2-Dichloroethane	50.0	56.68		ug/L		113	77 - 121	0	17
Benzene	50.0	51.09		ug/L		102	80 - 121	1	17
Diisopropyl ether	50.0	49.53		ug/L		99	61 - 142	1	50

TestAmerica Nashville

# QC Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
 Project/Site: 200 Railroad Ave S, Ellensburg, WA

TestAmerica Job ID: 490-40187-1  
 SDG: SAP / 062027

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

**Lab Sample ID: LCSD 490-122865/4**

**Matrix: Water**

**Analysis Batch: 122865**

**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
Ethyl tert-butyl ether	50.0	48.32		ug/L		97	63 - 135	1	19
Ethylbenzene	50.0	56.38		ug/L		113	80 - 130	0	15
Methyl tert-butyl ether	50.0	51.29		ug/L		103	72 - 133	1	16
Tert-amyl methyl ether	50.0	45.41		ug/L		91	63 - 135	1	15
tert-Butyl alcohol (TBA)	500	392.4		ug/L		78	54 - 150	3	32
Toluene	50.0	53.72		ug/L		107	80 - 126	3	15
Xylenes, Total	100	111.9		ug/L		112	80 - 132	2	15

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	108		70 - 130
4-Bromofluorobenzene (Surr)	90		70 - 130
Dibromofluoromethane (Surr)	110		70 - 130
Toluene-d8 (Surr)	96		70 - 130

**Lab Sample ID: 490-40187-2 MS**

**Matrix: Ground Water**

**Analysis Batch: 122865**

**Client Sample ID: GW-062027-111113-RM-MW-2**

**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	
										RPD	Limit
1,2-Dichloroethane	ND		50.0	51.31		ug/L		103	64 - 136		
Benzene	ND		50.0	47.05		ug/L		94	75 - 133		
Diisopropyl ether	ND		50.0	45.22		ug/L		90	10 - 200		
Ethyl tert-butyl ether	ND		50.0	43.20		ug/L		86	60 - 138		
Ethylbenzene	ND		50.0	51.89		ug/L		104	79 - 139		
Methyl tert-butyl ether	ND		50.0	44.80		ug/L		90	66 - 141		
Tert-amyl methyl ether	ND		50.0	40.39		ug/L		81	61 - 138		
tert-Butyl alcohol (TBA)	ND		500	372.4		ug/L		74	50 - 183		
Toluene	ND		50.0	46.84		ug/L		94	75 - 136		
Xylenes, Total	ND		100	103.0		ug/L		103	74 - 141		

Surrogate	MS		Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	105		70 - 130
4-Bromofluorobenzene (Surr)	92		70 - 130
Dibromofluoromethane (Surr)	109		70 - 130
Toluene-d8 (Surr)	89		70 - 130

**Lab Sample ID: 490-40187-2 MSD**

**Matrix: Ground Water**

**Analysis Batch: 122865**

**Client Sample ID: GW-062027-111113-RM-MW-2**

**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	
										RPD	Limit
1,2-Dichloroethane	ND		50.0	49.78		ug/L		100	64 - 136	3	17
Benzene	ND		50.0	42.34		ug/L		85	75 - 133	11	17
Diisopropyl ether	ND		50.0	43.99		ug/L		88	10 - 200	3	50
Ethyl tert-butyl ether	ND		50.0	44.28		ug/L		89	60 - 138	2	19
Ethylbenzene	ND		50.0	46.56		ug/L		93	79 - 139	11	15
Methyl tert-butyl ether	ND		50.0	47.21		ug/L		94	66 - 141	5	16
Tert-amyl methyl ether	ND		50.0	42.21		ug/L		84	61 - 138	4	15

TestAmerica Nashville

# QC Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
 Project/Site: 200 Railroad Ave S, Ellensburg, WA

TestAmerica Job ID: 490-40187-1  
 SDG: SAP / 062027

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

**Lab Sample ID: 490-40187-2 MSD**

**Client Sample ID: GW-062027-111113-RM-MW-2**

**Matrix: Ground Water**

**Prep Type: Total/NA**

**Analysis Batch: 122865**

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier				Limits		
tert-Butyl alcohol (TBA)	ND		500	441.5		ug/L		88	50 - 183	17	32
Toluene	ND		50.0	43.18		ug/L		86	75 - 136	8	15
Xylenes, Total	ND		100	92.87		ug/L		93	74 - 141	10	15

Surrogate	MSD	MSD	Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	108		70 - 130
4-Bromofluorobenzene (Surr)	92		70 - 130
Dibromofluoromethane (Surr)	107		70 - 130
Toluene-d8 (Surr)	92		70 - 130

**Lab Sample ID: MB 490-122985/7**

**Client Sample ID: Method Blank**

**Matrix: Water**

**Prep Type: Total/NA**

**Analysis Batch: 122985**

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,2-Dichloroethane	ND		1.00		ug/L			11/19/13 13:46	1
Benzene	ND		1.00		ug/L			11/19/13 13:46	1
Diisopropyl ether	ND		2.00		ug/L			11/19/13 13:46	1
Ethyl tert-butyl ether	ND		1.00		ug/L			11/19/13 13:46	1
Ethylbenzene	ND		1.00		ug/L			11/19/13 13:46	1
Methyl tert-butyl ether	ND		1.00		ug/L			11/19/13 13:46	1
Tert-amyl methyl ether	ND		1.00		ug/L			11/19/13 13:46	1
tert-Butyl alcohol (TBA)	ND		10.0		ug/L			11/19/13 13:46	1
Toluene	ND		1.00		ug/L			11/19/13 13:46	1
Xylenes, Total	ND		2.00		ug/L			11/19/13 13:46	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1,2-Dichloroethane-d4 (Surr)	114		70 - 130		11/19/13 13:46	1
4-Bromofluorobenzene (Surr)	88		70 - 130		11/19/13 13:46	1
Dibromofluoromethane (Surr)	109		70 - 130		11/19/13 13:46	1
Toluene-d8 (Surr)	95		70 - 130		11/19/13 13:46	1

**Lab Sample ID: LCS 490-122985/3**

**Client Sample ID: Lab Control Sample**

**Matrix: Water**

**Prep Type: Total/NA**

**Analysis Batch: 122985**

Analyte	Spike	LCS	LCS	Unit	D	%Rec	%Rec.
		Added	Result				Qualifier
1,2-Dichloroethane	50.0	53.56		ug/L		107	77 - 121
Benzene	50.0	47.59		ug/L		95	80 - 121
Diisopropyl ether	50.0	46.19		ug/L		92	61 - 142
Ethyl tert-butyl ether	50.0	46.26		ug/L		93	63 - 135
Ethylbenzene	50.0	51.48		ug/L		103	80 - 130
Methyl tert-butyl ether	50.0	48.83		ug/L		98	72 - 133
Tert-amyl methyl ether	50.0	43.99		ug/L		88	63 - 135
tert-Butyl alcohol (TBA)	500	408.5		ug/L		82	54 - 150
Toluene	50.0	50.21		ug/L		100	80 - 126
Xylenes, Total	100	102.8		ug/L		103	80 - 132

TestAmerica Nashville

# QC Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
 Project/Site: 200 Railroad Ave S, Ellensburg, WA

TestAmerica Job ID: 490-40187-1  
 SDG: SAP / 062027

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

**Lab Sample ID: LCS 490-122985/3**

**Matrix: Water**

**Analysis Batch: 122985**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

Surrogate	LCS		Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	107		70 - 130
4-Bromofluorobenzene (Surr)	92		70 - 130
Dibromofluoromethane (Surr)	108		70 - 130
Toluene-d8 (Surr)	96		70 - 130

**Lab Sample ID: LCSD 490-122985/4**

**Matrix: Water**

**Analysis Batch: 122985**

**Client Sample ID: Lab Control Sample Dup**

**Prep Type: Total/NA**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec.		RPD	Limit
							Limits	RPD		
1,2-Dichloroethane	50.0	51.65		ug/L		103	77 - 121	4	17	
Benzene	50.0	44.94		ug/L		90	80 - 121	6	17	
Diisopropyl ether	50.0	44.99		ug/L		90	61 - 142	3	50	
Ethyl tert-butyl ether	50.0	45.50		ug/L		91	63 - 135	2	19	
Ethylbenzene	50.0	48.67		ug/L		97	80 - 130	6	15	
Methyl tert-butyl ether	50.0	48.19		ug/L		96	72 - 133	1	16	
Tert-amyl methyl ether	50.0	43.02		ug/L		86	63 - 135	2	15	
tert-Butyl alcohol (TBA)	500	402.9		ug/L		81	54 - 150	1	32	
Toluene	50.0	46.09		ug/L		92	80 - 126	9	15	
Xylenes, Total	100	97.49		ug/L		97	80 - 132	5	15	

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	105		70 - 130
4-Bromofluorobenzene (Surr)	93		70 - 130
Dibromofluoromethane (Surr)	105		70 - 130
Toluene-d8 (Surr)	94		70 - 130

**Lab Sample ID: 490-40292-C-2 MS**

**Matrix: Water**

**Analysis Batch: 122985**

**Client Sample ID: Matrix Spike**

**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS		Unit	D	%Rec	%Rec.	
				Result	Qualifier				Limits	RPD
1,2-Dichloroethane	ND		50.0	56.38		ug/L		113	64 - 136	
Benzene	ND		50.0	52.59		ug/L		105	75 - 133	
Diisopropyl ether	ND		50.0	49.96		ug/L		100	10 - 200	
Ethyl tert-butyl ether	ND		50.0	49.29		ug/L		99	60 - 138	
Ethylbenzene	ND		50.0	56.19		ug/L		112	79 - 139	
Methyl tert-butyl ether	290		50.0	351.9	E 4	ug/L		123	66 - 141	
Tert-amyl methyl ether	ND		50.0	46.42		ug/L		93	61 - 138	
tert-Butyl alcohol (TBA)	4090		500	4774	E 4	ug/L		136	50 - 183	
Toluene	ND		50.0	53.25		ug/L		107	75 - 136	
Xylenes, Total	ND		100	111.3		ug/L		111	74 - 141	

Surrogate	MS		Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	108		70 - 130
4-Bromofluorobenzene (Surr)	91		70 - 130
Dibromofluoromethane (Surr)	109		70 - 130

TestAmerica Nashville

# QC Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
 Project/Site: 200 Railroad Ave S, Ellensburg, WA

TestAmerica Job ID: 490-40187-1  
 SDG: SAP / 062027

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

Lab Sample ID: 490-40292-C-2 MS

Matrix: Water

Analysis Batch: 122985

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Surrogate	MS MS		Limits
	%Recovery	Qualifier	
Toluene-d8 (Surr)	95		70 - 130

Lab Sample ID: 490-40292-D-2 MSD

Matrix: Water

Analysis Batch: 122985

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD MSD		Unit	D	%Rec	%Rec.		RPD	Limit
				Result	Qualifier				Limits	RPD		
1,2-Dichloroethane	ND		50.0	53.33		ug/L		107	64 - 136	6	17	
Benzene	ND		50.0	51.59		ug/L		103	75 - 133	2	17	
Diisopropyl ether	ND		50.0	48.76		ug/L		98	10 - 200	2	50	
Ethyl tert-butyl ether	ND		50.0	47.81		ug/L		96	60 - 138	3	19	
Ethylbenzene	ND		50.0	55.98		ug/L		112	79 - 139	0	15	
Methyl tert-butyl ether	290		50.0	338.2	E 4	ug/L		96	66 - 141	4	16	
Tert-amyl methyl ether	ND		50.0	44.80		ug/L		90	61 - 138	4	15	
tert-Butyl alcohol (TBA)	4090		500	4684	E 4	ug/L		118	50 - 183	2	32	
Toluene	ND		50.0	53.20		ug/L		106	75 - 136	0	15	
Xylenes, Total	ND		100	110.1		ug/L		110	74 - 141	1	15	

Surrogate	MSD MSD		Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	103		70 - 130
4-Bromofluorobenzene (Surr)	93		70 - 130
Dibromofluoromethane (Surr)	106		70 - 130
Toluene-d8 (Surr)	95		70 - 130

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

Lab Sample ID: MB 490-122267/8

Matrix: Water

Analysis Batch: 122267

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
C6-C12	ND		100		ug/L			11/15/13 12:49	1

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
a,a,a-Trifluorotoluene	88		50 - 150		11/15/13 12:49	1

Lab Sample ID: LCS 490-122267/5

Matrix: Water

Analysis Batch: 122267

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS LCS		Unit	D	%Rec	%Rec.	
		Result	Qualifier				Limits	RPD
C6-C12	1000	1071		ug/L		107	39 - 143	

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
a,a,a-Trifluorotoluene	123		50 - 150

# QC Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
 Project/Site: 200 Railroad Ave S, Ellensburg, WA

TestAmerica Job ID: 490-40187-1  
 SDG: SAP / 062027

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

**Lab Sample ID:** LCSD 490-122267/27  
**Matrix:** Water  
**Analysis Batch:** 122267

**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
C6-C12	1000	1024		ug/L		102	39 - 143	4	18
<b>Surrogate</b>		<b>%Recovery</b>	<b>Qualifier</b>						<b>Limits</b>
a,a,a-Trifluorotoluene		129							50 - 150

## Method: 8011 - EDB and DBCP in Water by Microextraction

**Lab Sample ID:** MB 580-149445/1-A  
**Matrix:** Water  
**Analysis Batch:** 149446

**Client Sample ID:** Method Blank  
**Prep Type:** Total/NA  
**Prep Batch:** 149445

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylene Dibromide	ND		0.0100		ug/L		11/18/13 10:36	11/18/13 12:44	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-Dibromopropane	121		70 - 130				11/18/13 10:36	11/18/13 12:44	1

**Lab Sample ID:** LCS 580-149445/2-A  
**Matrix:** Water  
**Analysis Batch:** 149446

**Client Sample ID:** Lab Control Sample  
**Prep Type:** Total/NA  
**Prep Batch:** 149445

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ethylene Dibromide	0.0573	0.06394		ug/L		112	70 - 130
<b>Surrogate</b>		<b>%Recovery</b>	<b>Qualifier</b>				<b>Limits</b>
1,2-Dibromopropane		118					70 - 130

**Lab Sample ID:** LCSD 580-149445/3-A  
**Matrix:** Water  
**Analysis Batch:** 149446

**Client Sample ID:** Lab Control Sample Dup  
**Prep Type:** Total/NA  
**Prep Batch:** 149445

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ethylene Dibromide	0.0573	0.06222		ug/L		109	70 - 130	3	20
<b>Surrogate</b>		<b>%Recovery</b>	<b>Qualifier</b>				<b>Limits</b>		
1,2-Dibromopropane		120					70 - 130		

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

**Lab Sample ID:** MB 490-122375/1-A  
**Matrix:** Water  
**Analysis Batch:** 122561

**Client Sample ID:** Method Blank  
**Prep Type:** Total/NA  
**Prep Batch:** 122375

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C24	ND		100		ug/L		11/15/13 14:57	11/17/13 03:45	1
C24-C40	ND		100		ug/L		11/15/13 14:57	11/17/13 03:45	1

TestAmerica Nashville



# QC Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
 Project/Site: 200 Railroad Ave S, Ellensburg, WA

TestAmerica Job ID: 490-40187-1  
 SDG: SAP / 062027

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

**Lab Sample ID: MB 490-122375/1-A**  
**Matrix: Water**  
**Analysis Batch: 122561**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 122375**

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	65		50 - 150	11/15/13 14:57	11/17/13 03:45	1

**Lab Sample ID: LCS 490-122375/2-A**  
**Matrix: Water**  
**Analysis Batch: 122561**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 122375**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
C10-C24	1000	703.5		ug/L		70	51 - 132

Surrogate	LCS %Recovery	LCS Qualifier	Limits
<i>o</i> -Terphenyl	78		50 - 150

**Lab Sample ID: 490-40187-8 DU**  
**Matrix: Ground Water**  
**Analysis Batch: 122561**

**Client Sample ID: GW-062027-111113-RM-MW-8**  
**Prep Type: Total/NA**  
**Prep Batch: 122375**

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
C10-C24	ND		ND		ug/L		26	41
C24-C40	ND		ND		ug/L		NC	41

Surrogate	DU %Recovery	DU Qualifier	Limits
<i>o</i> -Terphenyl	12	X	50 - 150

## Method: NWTPH-Dx - Semi-Volatile Petroleum Products by NWTPH with Silica Gel Cleanup

**Lab Sample ID: MB 490-121841/1-A**  
**Matrix: Water**  
**Analysis Batch: 122379**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 121841**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C24	ND		100		ug/L		11/14/13 09:13	11/15/13 17:06	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	68		50 - 150	11/14/13 09:13	11/15/13 17:06	1

**Lab Sample ID: MB 490-121841/1-A**  
**Matrix: Water**  
**Analysis Batch: 122561**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 121841**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C24-C40	ND		100		ug/L		11/14/13 09:13	11/16/13 15:12	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	76		50 - 150	11/14/13 09:13	11/16/13 15:12	1

# QC Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
 Project/Site: 200 Railroad Ave S, Ellensburg, WA

TestAmerica Job ID: 490-40187-1  
 SDG: SAP / 062027

## Method: NWTPH-Dx - Semi-Volatile Petroleum Products by NWTPH with Silica Gel Cleanup (Continued)

**Lab Sample ID: LCS 490-121841/2-A**  
**Matrix: Water**  
**Analysis Batch: 122379**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 121841**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
C10-C24	1000	691.2		ug/L		69	51 - 132
<b>Surrogate</b>	<b>%Recovery</b>	<b>LCS Qualifier</b>	<b>Limits</b>				
<i>o-Terphenyl</i>	88		50 - 150				

**Lab Sample ID: LCS 490-121841/2-A**  
**Matrix: Water**  
**Analysis Batch: 122839**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 121841**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
C10-C24	1000	766.7		ug/L		77	51 - 132
<b>Surrogate</b>	<b>%Recovery</b>	<b>LCS Qualifier</b>	<b>Limits</b>				
<i>o-Terphenyl</i>	96		50 - 150				

**Lab Sample ID: 490-40187-1 DU**  
**Matrix: Ground Water**  
**Analysis Batch: 122379**

**Client Sample ID: GW-062027-111113-RM-MW-1**  
**Prep Type: Total/NA**  
**Prep Batch: 121841**

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
C10-C24	178		187.3		ug/L		5	41
<b>Surrogate</b>	<b>%Recovery</b>	<b>DU Qualifier</b>	<b>Limits</b>					
<i>o-Terphenyl</i>	49	X	50 - 150					

**Lab Sample ID: 490-40187-1 DU**  
**Matrix: Ground Water**  
**Analysis Batch: 122561**

**Client Sample ID: GW-062027-111113-RM-MW-1**  
**Prep Type: Total/NA**  
**Prep Batch: 121841**

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
C24-C40	ND		ND		ug/L		NC	41

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

**Lab Sample ID: MB 490-121565/1-A**  
**Matrix: Water**  
**Analysis Batch: 121830**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 121565**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.00200		mg/L		11/13/13 11:01	11/13/13 18:04	1

# QC Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
 Project/Site: 200 Railroad Ave S, Ellensburg, WA

TestAmerica Job ID: 490-40187-1  
 SDG: SAP / 062027

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

**Lab Sample ID: LCS 490-121565/2-A**  
**Matrix: Water**  
**Analysis Batch: 121830**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 121565**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Lead	0.100	0.1026		mg/L		103	80 - 120

**Lab Sample ID: LCSD 490-121565/3-A**  
**Matrix: Water**  
**Analysis Batch: 121830**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 121565**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Lead	0.100	0.1063		mg/L		106	80 - 120	4	20

**Lab Sample ID: 490-39890-I-1-B MS**  
**Matrix: Water**  
**Analysis Batch: 121830**

**Client Sample ID: Matrix Spike**  
**Prep Type: Total/NA**  
**Prep Batch: 121565**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Lead	ND		0.100	0.1043		mg/L		104	75 - 125

**Lab Sample ID: 490-39890-I-1-C MSD**  
**Matrix: Water**  
**Analysis Batch: 121830**

**Client Sample ID: Matrix Spike Duplicate**  
**Prep Type: Total/NA**  
**Prep Batch: 121565**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Lead	ND		0.100	0.1026		mg/L		103	75 - 125	2	20

# QC Association Summary

Client: Conestoga-Rovers & Associates, Inc.  
 Project/Site: 200 Railroad Ave S, Ellensburg, WA

TestAmerica Job ID: 490-40187-1  
 SDG: SAP / 062027

## GC/MS VOA

### Analysis Batch: 122865

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-40187-1	GW-062027-111113-RM-MW-1	Total/NA	Ground Water	8260B	
490-40187-2	GW-062027-111113-RM-MW-2	Total/NA	Ground Water	8260B	
490-40187-2 MS	GW-062027-111113-RM-MW-2	Total/NA	Ground Water	8260B	
490-40187-2 MSD	GW-062027-111113-RM-MW-2	Total/NA	Ground Water	8260B	
490-40187-3	GW-062027-111113-RM-MW-3	Total/NA	Ground Water	8260B	
490-40187-5	GW-062027-111113-RM-MW-5	Total/NA	Ground Water	8260B	
490-40187-6	GW-062027-111113-RM-MW-6	Total/NA	Ground Water	8260B	
490-40187-7	GW-062027-111113-RM-MW-7	Total/NA	Ground Water	8260B	
490-40187-8	GW-062027-111113-RM-MW-8	Total/NA	Ground Water	8260B	
LCS 490-122865/3	Lab Control Sample	Total/NA	Water	8260B	
LCSD 490-122865/4	Lab Control Sample Dup	Total/NA	Water	8260B	
MB 490-122865/7	Method Blank	Total/NA	Water	8260B	

### Analysis Batch: 122985

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-40187-4	GW-062027-111113-RM-MW-4	Total/NA	Ground Water	8260B	
490-40292-C-2 MS	Matrix Spike	Total/NA	Water	8260B	
490-40292-D-2 MSD	Matrix Spike Duplicate	Total/NA	Water	8260B	
LCS 490-122985/3	Lab Control Sample	Total/NA	Water	8260B	
LCSD 490-122985/4	Lab Control Sample Dup	Total/NA	Water	8260B	
MB 490-122985/7	Method Blank	Total/NA	Water	8260B	

## GC VOA

### Analysis Batch: 122267

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-40187-1	GW-062027-111113-RM-MW-1	Total/NA	Ground Water	NWTPH-Gx	
490-40187-2	GW-062027-111113-RM-MW-2	Total/NA	Ground Water	NWTPH-Gx	
490-40187-3	GW-062027-111113-RM-MW-3	Total/NA	Ground Water	NWTPH-Gx	
490-40187-4	GW-062027-111113-RM-MW-4	Total/NA	Ground Water	NWTPH-Gx	
490-40187-5	GW-062027-111113-RM-MW-5	Total/NA	Ground Water	NWTPH-Gx	
490-40187-6	GW-062027-111113-RM-MW-6	Total/NA	Ground Water	NWTPH-Gx	
490-40187-7	GW-062027-111113-RM-MW-7	Total/NA	Ground Water	NWTPH-Gx	
490-40187-8	GW-062027-111113-RM-MW-8	Total/NA	Ground Water	NWTPH-Gx	
LCS 490-122267/5	Lab Control Sample	Total/NA	Water	NWTPH-Gx	
LCSD 490-122267/27	Lab Control Sample Dup	Total/NA	Water	NWTPH-Gx	
MB 490-122267/8	Method Blank	Total/NA	Water	NWTPH-Gx	

## GC Semi VOA

### Prep Batch: 121841

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-40187-1	GW-062027-111113-RM-MW-1	Total/NA	Ground Water	3510C	
490-40187-1 DU	GW-062027-111113-RM-MW-1	Total/NA	Ground Water	3510C	
490-40187-6	GW-062027-111113-RM-MW-6	Total/NA	Ground Water	3510C	
490-40187-7	GW-062027-111113-RM-MW-7	Total/NA	Ground Water	3510C	
490-40187-8	GW-062027-111113-RM-MW-8	Total/NA	Ground Water	3510C	
LCS 490-121841/2-A	Lab Control Sample	Total/NA	Water	3510C	
MB 490-121841/1-A	Method Blank	Total/NA	Water	3510C	

# QC Association Summary

Client: Conestoga-Rovers & Associates, Inc.  
 Project/Site: 200 Railroad Ave S, Ellensburg, WA

TestAmerica Job ID: 490-40187-1  
 SDG: SAP / 062027

## GC Semi VOA (Continued)

### Prep Batch: 122375

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-40187-1	GW-062027-111113-RM-MW-1	Total/NA	Ground Water	3510C	
490-40187-2	GW-062027-111113-RM-MW-2	Total/NA	Ground Water	3510C	
490-40187-3	GW-062027-111113-RM-MW-3	Total/NA	Ground Water	3510C	
490-40187-4	GW-062027-111113-RM-MW-4	Total/NA	Ground Water	3510C	
490-40187-5	GW-062027-111113-RM-MW-5	Total/NA	Ground Water	3510C	
490-40187-6	GW-062027-111113-RM-MW-6	Total/NA	Ground Water	3510C	
490-40187-7	GW-062027-111113-RM-MW-7	Total/NA	Ground Water	3510C	
490-40187-8	GW-062027-111113-RM-MW-8	Total/NA	Ground Water	3510C	
490-40187-8 DU	GW-062027-111113-RM-MW-8	Total/NA	Ground Water	3510C	
LCS 490-122375/2-A	Lab Control Sample	Total/NA	Water	3510C	
MB 490-122375/1-A	Method Blank	Total/NA	Water	3510C	

### Analysis Batch: 122379

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-40187-1	GW-062027-111113-RM-MW-1	Total/NA	Ground Water	NWTPH-Dx	121841
490-40187-1 DU	GW-062027-111113-RM-MW-1	Total/NA	Ground Water	NWTPH-Dx	121841
490-40187-6	GW-062027-111113-RM-MW-6	Total/NA	Ground Water	NWTPH-Dx	121841
490-40187-7	GW-062027-111113-RM-MW-7	Total/NA	Ground Water	NWTPH-Dx	121841
490-40187-8	GW-062027-111113-RM-MW-8	Total/NA	Ground Water	NWTPH-Dx	121841
LCS 490-121841/2-A	Lab Control Sample	Total/NA	Water	NWTPH-Dx	121841
MB 490-121841/1-A	Method Blank	Total/NA	Water	NWTPH-Dx	121841

### Analysis Batch: 122561

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-40187-1	GW-062027-111113-RM-MW-1	Total/NA	Ground Water	NWTPH-Dx	121841
490-40187-1	GW-062027-111113-RM-MW-1	Total/NA	Ground Water	NWTPH-Dx	122375
490-40187-1 DU	GW-062027-111113-RM-MW-1	Total/NA	Ground Water	NWTPH-Dx	121841
490-40187-2	GW-062027-111113-RM-MW-2	Total/NA	Ground Water	NWTPH-Dx	122375
490-40187-3	GW-062027-111113-RM-MW-3	Total/NA	Ground Water	NWTPH-Dx	122375
490-40187-4	GW-062027-111113-RM-MW-4	Total/NA	Ground Water	NWTPH-Dx	122375
490-40187-5	GW-062027-111113-RM-MW-5	Total/NA	Ground Water	NWTPH-Dx	122375
490-40187-6	GW-062027-111113-RM-MW-6	Total/NA	Ground Water	NWTPH-Dx	121841
490-40187-6	GW-062027-111113-RM-MW-6	Total/NA	Ground Water	NWTPH-Dx	122375
490-40187-7	GW-062027-111113-RM-MW-7	Total/NA	Ground Water	NWTPH-Dx	122375
490-40187-8	GW-062027-111113-RM-MW-8	Total/NA	Ground Water	NWTPH-Dx	122375
490-40187-8 DU	GW-062027-111113-RM-MW-8	Total/NA	Ground Water	NWTPH-Dx	122375
LCS 490-122375/2-A	Lab Control Sample	Total/NA	Water	NWTPH-Dx	122375
MB 490-121841/1-A	Method Blank	Total/NA	Water	NWTPH-Dx	121841
MB 490-122375/1-A	Method Blank	Total/NA	Water	NWTPH-Dx	122375

### Analysis Batch: 122839

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 490-121841/2-A	Lab Control Sample	Total/NA	Water	NWTPH-Dx	121841

### Analysis Batch: 124425

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-40187-7	GW-062027-111113-RM-MW-7	Total/NA	Ground Water	NWTPH-Dx	121841
490-40187-8	GW-062027-111113-RM-MW-8	Total/NA	Ground Water	NWTPH-Dx	121841

# QC Association Summary

Client: Conestoga-Rovers & Associates, Inc.  
 Project/Site: 200 Railroad Ave S, Ellensburg, WA

TestAmerica Job ID: 490-40187-1  
 SDG: SAP / 062027

## GC Semi VOA (Continued)

### Analysis Batch: 127307

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-40187-2	GW-062027-111113-RM-MW-2	Total/NA	Ground Water	NWTPH-Dx	122375
490-40187-3	GW-062027-111113-RM-MW-3	Total/NA	Ground Water	NWTPH-Dx	122375
490-40187-4	GW-062027-111113-RM-MW-4	Total/NA	Ground Water	NWTPH-Dx	122375
490-40187-5	GW-062027-111113-RM-MW-5	Total/NA	Ground Water	NWTPH-Dx	122375

### Prep Batch: 149445

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-40187-1	GW-062027-111113-RM-MW-1	Total/NA	Ground Water	8011	
490-40187-2	GW-062027-111113-RM-MW-2	Total/NA	Ground Water	8011	
490-40187-3	GW-062027-111113-RM-MW-3	Total/NA	Ground Water	8011	
490-40187-4	GW-062027-111113-RM-MW-4	Total/NA	Ground Water	8011	
490-40187-5	GW-062027-111113-RM-MW-5	Total/NA	Ground Water	8011	
490-40187-6	GW-062027-111113-RM-MW-6	Total/NA	Ground Water	8011	
490-40187-7	GW-062027-111113-RM-MW-7	Total/NA	Ground Water	8011	
490-40187-8	GW-062027-111113-RM-MW-8	Total/NA	Ground Water	8011	
LCS 580-149445/2-A	Lab Control Sample	Total/NA	Water	8011	
LCSD 580-149445/3-A	Lab Control Sample Dup	Total/NA	Water	8011	
MB 580-149445/1-A	Method Blank	Total/NA	Water	8011	

### Analysis Batch: 149446

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-40187-1	GW-062027-111113-RM-MW-1	Total/NA	Ground Water	8011	149445
490-40187-2	GW-062027-111113-RM-MW-2	Total/NA	Ground Water	8011	149445
490-40187-3	GW-062027-111113-RM-MW-3	Total/NA	Ground Water	8011	149445
490-40187-4	GW-062027-111113-RM-MW-4	Total/NA	Ground Water	8011	149445
490-40187-5	GW-062027-111113-RM-MW-5	Total/NA	Ground Water	8011	149445
490-40187-6	GW-062027-111113-RM-MW-6	Total/NA	Ground Water	8011	149445
490-40187-7	GW-062027-111113-RM-MW-7	Total/NA	Ground Water	8011	149445
490-40187-8	GW-062027-111113-RM-MW-8	Total/NA	Ground Water	8011	149445
LCS 580-149445/2-A	Lab Control Sample	Total/NA	Water	8011	149445
LCSD 580-149445/3-A	Lab Control Sample Dup	Total/NA	Water	8011	149445
MB 580-149445/1-A	Method Blank	Total/NA	Water	8011	149445

## Metals

### Prep Batch: 121565

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-39890-I-1-B MS	Matrix Spike	Total/NA	Water	3010A	
490-39890-I-1-C MSD	Matrix Spike Duplicate	Total/NA	Water	3010A	
490-40187-1	GW-062027-111113-RM-MW-1	Total/NA	Ground Water	3010A	
490-40187-2	GW-062027-111113-RM-MW-2	Total/NA	Ground Water	3010A	
490-40187-3	GW-062027-111113-RM-MW-3	Total/NA	Ground Water	3010A	
490-40187-4	GW-062027-111113-RM-MW-4	Total/NA	Ground Water	3010A	
490-40187-5	GW-062027-111113-RM-MW-5	Total/NA	Ground Water	3010A	
490-40187-6	GW-062027-111113-RM-MW-6	Total/NA	Ground Water	3010A	
490-40187-7	GW-062027-111113-RM-MW-7	Total/NA	Ground Water	3010A	
490-40187-8	GW-062027-111113-RM-MW-8	Total/NA	Ground Water	3010A	
LCS 490-121565/2-A	Lab Control Sample	Total/NA	Water	3010A	
LCSD 490-121565/3-A	Lab Control Sample Dup	Total/NA	Water	3010A	
MB 490-121565/1-A	Method Blank	Total/NA	Water	3010A	

# QC Association Summary

Client: Conestoga-Rovers & Associates, Inc.  
Project/Site: 200 Railroad Ave S, Ellensburg, WA

TestAmerica Job ID: 490-40187-1  
SDG: SAP / 062027

## Metals (Continued)

### Analysis Batch: 121830

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-39890-I-1-B MS	Matrix Spike	Total/NA	Water	6020	121565
490-39890-I-1-C MSD	Matrix Spike Duplicate	Total/NA	Water	6020	121565
490-40187-1	GW-062027-111113-RM-MW-1	Total/NA	Ground Water	6020	121565
490-40187-2	GW-062027-111113-RM-MW-2	Total/NA	Ground Water	6020	121565
490-40187-3	GW-062027-111113-RM-MW-3	Total/NA	Ground Water	6020	121565
490-40187-5	GW-062027-111113-RM-MW-5	Total/NA	Ground Water	6020	121565
490-40187-6	GW-062027-111113-RM-MW-6	Total/NA	Ground Water	6020	121565
490-40187-7	GW-062027-111113-RM-MW-7	Total/NA	Ground Water	6020	121565
490-40187-8	GW-062027-111113-RM-MW-8	Total/NA	Ground Water	6020	121565
LCS 490-121565/2-A	Lab Control Sample	Total/NA	Water	6020	121565
LCSD 490-121565/3-A	Lab Control Sample Dup	Total/NA	Water	6020	121565
MB 490-121565/1-A	Method Blank	Total/NA	Water	6020	121565

### Analysis Batch: 122090

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-40187-4	GW-062027-111113-RM-MW-4	Total/NA	Ground Water	6020	121565

# Lab Chronicle

Client: Conestoga-Rovers & Associates, Inc.  
 Project/Site: 200 Railroad Ave S, Ellensburg, WA

TestAmerica Job ID: 490-40187-1  
 SDG: SAP / 062027

**Client Sample ID: GW-062027-111113-RM-MW-1**

**Lab Sample ID: 490-40187-1**

Date Collected: 11/11/13 10:24

Matrix: Ground Water

Date Received: 11/12/13 08:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	10 mL	10 mL	122865	11/19/13 05:19	EML	TAL NSH
Total/NA	Analysis	NWTPH-Gx		5	5 mL	5 mL	122267	11/15/13 22:05	KML	TAL NSH
Total/NA	Analysis	NWTPH-Dx		1			122379	11/15/13 20:30	JML	TAL NSH
Total/NA	Prep	3510C			1000 mL	1 mL	121841	11/14/13 09:13	CLH	TAL NSH
Total/NA	Analysis	NWTPH-Dx		1			122561	11/16/13 18:36	GMH	TAL NSH
Total/NA	Prep	3510C			950 mL	1 mL	122375	11/15/13 14:57	MAH	TAL NSH
Total/NA	Analysis	NWTPH-Dx		1			122561	11/17/13 04:17	GMH	TAL NSH
Total/NA	Prep	8011			35 mL	2 mL	149445	11/18/13 10:36	SGH	TAL SEA
Total/NA	Analysis	8011		1			149446	11/18/13 15:43	SGH	TAL SEA
Total/NA	Prep	3010A			50 mL	50 mL	121565	11/13/13 11:01	NLI	TAL NSH
Total/NA	Analysis	6020		1			121830	11/13/13 18:46	BWW	TAL NSH

**Client Sample ID: GW-062027-111113-RM-MW-2**

**Lab Sample ID: 490-40187-2**

Date Collected: 11/11/13 09:39

Matrix: Ground Water

Date Received: 11/12/13 08:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	10 mL	10 mL	122865	11/19/13 05:47	EML	TAL NSH
Total/NA	Analysis	NWTPH-Gx		1	5 mL	5 mL	122267	11/15/13 20:01	KML	TAL NSH
Total/NA	Prep	3510C			1050 mL	1 mL	122375	11/15/13 14:57	MAH	TAL NSH
Total/NA	Analysis	NWTPH-Dx		1			122561	11/17/13 04:32	GMH	TAL NSH
Total/NA	Analysis	NWTPH-Dx		1			127307	12/07/13 21:36	GMH	TAL NSH
Total/NA	Prep	8011			35 mL	2 mL	149445	11/18/13 10:36	SGH	TAL SEA
Total/NA	Analysis	8011		1			149446	11/18/13 16:09	SGH	TAL SEA
Total/NA	Prep	3010A			50 mL	50 mL	121565	11/13/13 11:01	NLI	TAL NSH
Total/NA	Analysis	6020		1			121830	11/13/13 19:00	BWW	TAL NSH

**Client Sample ID: GW-062027-111113-RM-MW-3**

**Lab Sample ID: 490-40187-3**

Date Collected: 11/11/13 11:10

Matrix: Ground Water

Date Received: 11/12/13 08:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	10 mL	10 mL	122865	11/19/13 06:16	EML	TAL NSH
Total/NA	Analysis	NWTPH-Gx		1	5 mL	5 mL	122267	11/15/13 20:32	KML	TAL NSH
Total/NA	Prep	3510C			1070 mL	1 mL	122375	11/15/13 14:57	MAH	TAL NSH
Total/NA	Analysis	NWTPH-Dx		1			122561	11/17/13 04:48	GMH	TAL NSH
Total/NA	Analysis	NWTPH-Dx		1			127307	12/07/13 21:52	GMH	TAL NSH
Total/NA	Prep	8011			35 mL	2 mL	149445	11/18/13 10:36	SGH	TAL SEA
Total/NA	Analysis	8011		1			149446	11/18/13 16:34	SGH	TAL SEA
Total/NA	Prep	3010A			50 mL	50 mL	121565	11/13/13 11:01	NLI	TAL NSH
Total/NA	Analysis	6020		1			121830	11/13/13 19:05	BWW	TAL NSH



## Lab Chronicle

Client: Conestoga-Rovers & Associates, Inc.  
 Project/Site: 200 Railroad Ave S, Ellensburg, WA

TestAmerica Job ID: 490-40187-1  
 SDG: SAP / 062027

**Client Sample ID: GW-062027-111113-RM-MW-4**

**Lab Sample ID: 490-40187-4**

**Date Collected: 11/11/13 11:51**

**Matrix: Ground Water**

**Date Received: 11/12/13 08:30**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		10	10 mL	10 mL	122985	11/19/13 20:18	EML	TAL NSH
Total/NA	Analysis	NWTPH-Gx		10	5 mL	5 mL	122267	11/15/13 23:37	KML	TAL NSH
Total/NA	Prep	3510C			900 mL	1 mL	122375	11/15/13 14:57	MAH	TAL NSH
Total/NA	Analysis	NWTPH-Dx		1			122561	11/17/13 05:04	GMH	TAL NSH
Total/NA	Analysis	NWTPH-Dx		1			127307	12/07/13 22:07	GMH	TAL NSH
Total/NA	Prep	8011			35 mL	2 mL	149445	11/18/13 10:36	SGH	TAL SEA
Total/NA	Analysis	8011		1			149446	11/18/13 17:51	SGH	TAL SEA
Total/NA	Prep	3010A			50 mL	50 mL	121565	11/13/13 11:01	NLI	TAL NSH
Total/NA	Analysis	6020		1			122090	11/14/13 16:36	BWW	TAL NSH

**Client Sample ID: GW-062027-111113-RM-MW-5**

**Lab Sample ID: 490-40187-5**

**Date Collected: 11/11/13 12:29**

**Matrix: Ground Water**

**Date Received: 11/12/13 08:30**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	10 mL	10 mL	122865	11/19/13 07:11	EML	TAL NSH
Total/NA	Analysis	NWTPH-Gx		1	5 mL	5 mL	122267	11/15/13 21:03	KML	TAL NSH
Total/NA	Analysis	NWTPH-Dx		1			122561	11/17/13 05:19	GMH	TAL NSH
Total/NA	Prep	3510C			950 mL	1 mL	122375	11/15/13 14:57	MAH	TAL NSH
Total/NA	Analysis	NWTPH-Dx		1			127307	12/07/13 22:23	GMH	TAL NSH
Total/NA	Prep	8011			35 mL	2 mL	149445	11/18/13 10:36	SGH	TAL SEA
Total/NA	Analysis	8011		1			149446	11/18/13 18:17	SGH	TAL SEA
Total/NA	Prep	3010A			50 mL	50 mL	121565	11/13/13 11:01	NLI	TAL NSH
Total/NA	Analysis	6020		1			121830	11/13/13 19:15	BWW	TAL NSH

**Client Sample ID: GW-062027-111113-RM-MW-6**

**Lab Sample ID: 490-40187-6**

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

**Matrix: Ground Water**

**Date Received: 11/12/13 08:30**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	10 mL	10 mL	122865	11/19/13 07:39	EML	TAL NSH
Total/NA	Analysis	NWTPH-Gx		5	5 mL	5 mL	122267	11/15/13 23:06	KML	TAL NSH
Total/NA	Prep	3510C			1050 mL	1 mL	121841	11/14/13 09:13	CLH	TAL NSH
Total/NA	Analysis	NWTPH-Dx		1			122379	11/15/13 22:04	JML	TAL NSH
Total/NA	Analysis	NWTPH-Dx		1			122561	11/16/13 20:10	GMH	TAL NSH
Total/NA	Prep	3510C			900 mL	1 mL	122375	11/15/13 14:57	MAH	TAL NSH
Total/NA	Analysis	NWTPH-Dx		1			122561	11/17/13 05:35	GMH	TAL NSH
Total/NA	Prep	8011			35 mL	2 mL	149445	11/18/13 10:36	SGH	TAL SEA
Total/NA	Analysis	8011		1			149446	11/18/13 18:42	SGH	TAL SEA
Total/NA	Prep	3010A			50 mL	50 mL	121565	11/13/13 11:01	NLI	TAL NSH
Total/NA	Analysis	6020		1			121830	11/13/13 19:19	BWW	TAL NSH

# Lab Chronicle

Client: Conestoga-Rovers & Associates, Inc.  
 Project/Site: 200 Railroad Ave S, Ellensburg, WA

TestAmerica Job ID: 490-40187-1  
 SDG: SAP / 062027

**Client Sample ID: GW-062027-111113-RM-MW-7**

**Lab Sample ID: 490-40187-7**

**Date Collected: 11/11/13 13:39**

**Matrix: Ground Water**

**Date Received: 11/12/13 08:30**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	10 mL	10 mL	122865	11/19/13 08:07	EML	TAL NSH
Total/NA	Analysis	NWTPH-Gx		1	5 mL	5 mL	122267	11/15/13 21:34	KML	TAL NSH
Total/NA	Prep	3510C			1000 mL	1 mL	121841	11/14/13 09:13	CLH	TAL NSH
Total/NA	Analysis	NWTPH-Dx		1			122379	11/15/13 22:51	JML	TAL NSH
Total/NA	Prep	3510C			900 mL	1 mL	122375	11/15/13 14:57	MAH	TAL NSH
Total/NA	Analysis	NWTPH-Dx		1			122561	11/17/13 05:51	GMH	TAL NSH
Total/NA	Analysis	NWTPH-Dx		1			124425	11/25/13 14:43	KKH	TAL NSH
Total/NA	Prep	8011			35 mL	2 mL	149445	11/18/13 10:36	SGH	TAL SEA
Total/NA	Analysis	8011		1			149446	11/18/13 19:08	SGH	TAL SEA
Total/NA	Prep	3010A			50 mL	50 mL	121565	11/13/13 11:01	NLI	TAL NSH
Total/NA	Analysis	6020		1			121830	11/13/13 19:24	BWW	TAL NSH

**Client Sample ID: GW-062027-111113-RM-MW-8**

**Lab Sample ID: 490-40187-8**

**Date Collected: 11/11/13 14:19**

**Matrix: Ground Water**

**Date Received: 11/12/13 08:30**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	10 mL	10 mL	122865	11/19/13 08:35	EML	TAL NSH
Total/NA	Analysis	NWTPH-Gx		5	5 mL	5 mL	122267	11/15/13 22:36	KML	TAL NSH
Total/NA	Prep	3510C			1000 mL	1 mL	121841	11/14/13 09:13	CLH	TAL NSH
Total/NA	Analysis	NWTPH-Dx		1			122379	11/15/13 23:06	JML	TAL NSH
Total/NA	Prep	3510C			1040 mL	1 mL	122375	11/15/13 14:57	MAH	TAL NSH
Total/NA	Analysis	NWTPH-Dx		1			122561	11/17/13 06:07	GMH	TAL NSH
Total/NA	Analysis	NWTPH-Dx		1			124425	11/25/13 14:59	KKH	TAL NSH
Total/NA	Prep	8011			35 mL	2 mL	149445	11/18/13 10:36	SGH	TAL SEA
Total/NA	Analysis	8011		1			149446	11/18/13 19:33	SGH	TAL SEA
Total/NA	Prep	3010A			50 mL	50 mL	121565	11/13/13 11:01	NLI	TAL NSH
Total/NA	Analysis	6020		1			121830	11/13/13 19:29	BWW	TAL NSH

**Laboratory References:**

TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Drive, Nashville, TN 37204, TEL (615)726-0177

TAL SEA = TestAmerica Seattle, 5755 8th Street East, Tacoma, WA 98424, TEL (253)922-2310

# Method Summary

Client: Conestoga-Rovers & Associates, Inc.  
Project/Site: 200 Railroad Ave S, Ellensburg, WA

TestAmerica Job ID: 490-40187-1  
SDG: SAP / 062027

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL NSH
NWTPH-Gx	Northwest - Volatile Petroleum Products (GC)	NWTPH	TAL NSH
8011	EDB and DBCP in Water by Microextraction	EPA	TAL SEA
NWTPH-Dx	Semi-Volatile Petroleum Products by NWTPH with Silica Gel Cleanup	NWTPH	TAL NSH
NWTPH-Dx	Northwest - Semi-Volatile Petroleum Products (GC)	NWTPH	TAL NSH
6020	Metals (ICP/MS)	SW846	TAL NSH

#### Protocol References:

EPA = US Environmental Protection Agency

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 NSH = TestAmerica Nashville, 2960 Foster Creighton Drive, Nashville, TN 37204, TEL (615)726-0177

TAL SEA = TestAmerica Seattle, 5755 8th Street East, Tacoma, WA 98424, TEL (253)922-2310

# Certification Summary

Client: Conestoga-Rovers & Associates, Inc.  
Project/Site: 200 Railroad Ave S, Ellensburg, WA

TestAmerica Job ID: 490-40187-1  
SDG: SAP / 062027

## Laboratory: TestAmerica Nashville

The certifications listed below are applicable to this report.

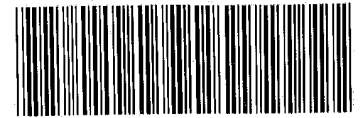
Authority	Program	EPA Region	Certification ID	Expiration Date
Washington	State Program	10	C789	07-19-14

## 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
Oregon	NELAP	10	WA100007	11-06-14
USDA	Federal		P330-11-00222	05-20-14
Washington	State Program	10	C553	02-17-14

## COOLER RECEIPT FORM



490-40187 Chain of Custody

Cooler Received/Opened On : 11/12/2013 @ 0830

Tracking # 1207 (last 4 digits, FedEx)

Courier: Fed-ex IR Gun : 97460373

1. Temperature of rep. sample or temp blank when opened: 0.8 Degrees Celsius
3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen? YES NO NA
4. Were custody seals on outside of cooler? YES...NO...NA  
If yes, how many and where: 1 Front
5. Were the seals intact, signed, and dated correctly? YES...NO...NA
6. Were custody papers inside cooler? YES...NO...NA

I certify that I opened the cooler and answered questions 1-6 (initial) W

7. Were custody seals on containers: YES NO and Intact YES NO NA  
Were these signed and dated correctly? YES...NO...NA
8. Packing mat'l used? Bubblewrap Plastic bag Peanuts Vermiculite Foam Insert Paper Other None
9. Cooling process: Ice Ice-pack Ice (direct contact) Dry ice Other None
10. Did all containers arrive in good condition (unbroken)? YES...NO...NA
11. Were all container labels complete (#, date, signed, pres., etc)? CH YES...NO...NA
12. Did all container labels and tags agree with custody papers? 11-12-13 YES...NO...NA
- 13a. Were VOA vials received? YES...NO...NA
- b. Was there any observable headspace present in any VOA vial? YES...NO...NA
14. Was there a Trip Blank in this cooler? YES...NO...NA If multiple coolers, sequence # 1

I certify that I unloaded the cooler and answered questions 7-14 (initial) W

- 15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? YES...NO...NA
- b. Did the bottle labels indicate that the correct preservatives were used YES...NO...NA
16. Was residual chlorine present? YES...NO...NA

I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (initial) W

17. Were custody papers properly filled out (ink, signed, etc)? YES...NO...NA
18. Did you sign the custody papers in the appropriate place? YES...NO...NA
19. Were correct containers used for the analysis requested? YES...NO...NA
20. Was sufficient amount of sample sent in each container? YES...NO...NA

I certify that I entered this project into LIMS and answered questions 17-20 (initial) CH

I certify that I attached a label with the unique LIMS number to each container (initial) CH

21. Were there Non-Conformance issues at login? YES...NO Was a NCM generated? YES...NO # 11-12-13

1 liter for MW-5 had no cracked 1st.

COOLER RECEIPT FORM

Cooler Received/Opened On 11/12/2013 @ 8:30

1. Tracking # 1229 (last 4 digits, FedEx)

Courier:      FedEx      IR Gun ID 18290455

2. Temperature of rep. sample or temp blank when opened: 2.0 Degrees Celsius

3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen? YES NO (NA)

4. Were custody seals on outside of cooler? (YES)...NO...NA

If yes, how many and where: 1 Front

5. Were the seals intact, signed, and dated correctly? YES (NO)...NA

6. Were custody papers inside cooler? (YES)...NO...NA

I certify that I opened the cooler and answered questions 1-6 (initial) AJH

7. Were custody seals on containers: YES (NO) and Intact YES...NO (NA)

Were these signed and dated correctly? YES...NO (NA)

8. Packing mat'l used? (Bubblewrap) Plastic bag Peanuts Vermiculite Foam Insert Paper Other None

9. Cooling process: (ice) Ice-pack Ice (direct contact) Dry ice Other None

10. Did all containers arrive in good condition (unbroken)? (YES)...NO...NA

11. Were all container labels complete (#, date, signed, pres., etc)? (YES)...NO...NA

12. Did all container labels and tags agree with custody papers? (YES)...NO...NA

13a. Were VOA vials received? YES...NO (NA)

b. Was there any observable headspace present in any VOA vial? YES...NO (NA)

14. Was there a Trip Blank in this cooler? YES...NO (NA) If multiple coolers, sequence #     

I certify that I unloaded the cooler and answered questions 7-14 (initial) CH

15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? YES..NO (NA)

b. Did the bottle labels indicate that the correct preservatives were used (YES)...NO...NA

16. Was residual chlorine present? YES...NO (NA)

I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (initial) A

17. Were custody papers properly filled out (ink, signed, etc)? (YES)...NO...NA

18. Did you sign the custody papers in the appropriate place? (YES)...NO...NA

19. Were correct containers used for the analysis requested? (YES)...NO...NA

20. Was sufficient amount of sample sent in each container? (YES)...NO...NA

I certify that I entered this project into LIMS and answered questions 17-20 (initial) CH

I certify that I attached a label with the unique LIMS number to each container (initial) A

21. Were there Non-Conformance issues at login? YES...NO (NO) Was a NCM generated? YES...NO (NO)...#     

Not signed or Dated

COOLER RECEIPT FORM

TAN 40187

Cooler Received/Opened On: 11/12/2013 @0830

1. Tracking # 1218 (last 4 digits, FedEx)

Courier: Fed-Ex IR Gun ID: 14740456

2. Temperature of rep. sample or temp blank when opened: 4.5 Degrees Celsius

3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen? YES NO NA

4. Were custody seals on outside of cooler? YES...NO...NA

If yes, how many and where: 1 Front

5. Were the seals intact, signed, and dated correctly? YES...NO...NA

6. Were custody papers inside cooler? YES...NO...NA

I certify that I opened the cooler and answered questions 1-6 (initial) EF

7. Were custody seals on containers: YES NO and Intact YES...NO NA

Were these signed and dated correctly? YES...NO...NA

8. Packing mat'l used? Bubblewrap Plastic bag Peanuts Vermiculite Foam Insert Paper Other None

9. Cooling process: Ice Ice-pack Ice (direct contact) Dry ice Other None

10. Did all containers arrive in good condition (unbroken)? YES...NO...NA

11. Were all container labels complete (#, date, signed, pres., etc)? YES...NO...NA

12. Did all container labels and tags agree with custody papers? YES...NO...NA

13a. Were VOA vials received? YES...NO...NA

b. Was there any observable headspace present in any VOA vial? YES...NO...NA

14. Was there a Trip Blank in this cooler? YES...NO...NA If multiple coolers, sequence # \_\_\_\_\_

I certify that I unloaded the cooler and answered questions 7-14 (initial) Ch

15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? YES...NO...NA

b. Did the bottle labels indicate that the correct preservatives were used YES...NO...NA

16. Was residual chlorine present? YES...NO...NA

I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (initial) Ch

17. Were custody papers properly filled out (ink, signed, etc)? YES...NO...NA

18. Did you sign the custody papers in the appropriate place? YES...NO...NA

19. Were correct containers used for the analysis requested? YES...NO...NA

20. Was sufficient amount of sample sent in each container? YES...NO...NA

I certify that I entered this project into LIMS and answered questions 17-20 (initial) Ch

I certify that I attached a label with the unique LIMS number to each container (initial) Ch

21. Were there Non-Conformance issues at login? YES...NO Was a NCM generated? YES...NO..# \_\_\_\_\_



Shell Oil Products Chain Of Custody Record

LAB (LOCATION)

- CALSCIENCE ( )
- SPL Houston ( )
- XENCO ( )
- TEST AMERICA ( )
- OTHER ( )

Please Check Appropriate Box:

- ENV. SERVICES
- MOTIVA RETAIL
- SHELL RETAIL
- MOTIVA SD&CM
- CONSULTANT
- LUBES
- SHELL PIPELINE
- OTHER

Print Bill To Contact Name:

Brian Peters- 062027

INCIDENT # (ENV SERVICES)

7 9 7 0 4 4 7

CHECK IF NO INCIDENT #

DATE: 11/11/13

PAGE: 1 of 1

SAMPLING COMPANY:  
Blaine Tech Services

ADDRESS:  
20735 Belshaw Avenue, Carson, CA 90746

PROJECT CONTACT (Hardcopy or PDF Report to):  
Lorin King

TELEPHONE: (310) 885-4455 x 108  
FAX: (310) 637-5802  
E-MAIL: lkino@blainetech.com

TURNAROUND TIME (CALENDAR DAYS):  
 STANDARD (14 DAY)  5 DAYS  3 DAYS  2 DAYS  24 HOURS  RESULTS NEEDED ON WEEKEND

LA - RWQCB REPORT FORMAT  UST AGENCY:

SPECIAL INSTRUCTIONS OR NOTES:  
1) Please upload the "CRA EQUIS 4-file EDD" to the CRA Website (http://cralabeddupload.CRAworld.com/equis/default.aspx) and/or send it to the Shell-US-LabDataManagement@CRAworld.com email folder. 2) Please indicate that you have uploaded the EDD by including "EDD Uploaded to CRA website" in the body of the email used to deliver the final PDF report to the Shell-US-LabDataManagement@CRAworld.com email folder.

Copy final report to Shell.Lab.Billing@craworld.com, Shell.results@craworld.com, and Shell-US-LabDataManagement@CRAworld.com

Email invoice to Shell.Lab.Billing@craworld.com  
See Laboratory PM for WA Dept. of Ecology MTCA Method A cleanup levels for minimum detection limits.

Matrix Codes - WG (groundwater), WS (surface water), WP (drinking water source), W (Trip or Temp Blank)

SITE ADDRESS: Street and City  
200 Railroad Ave S - Ellensburg

State: WA  
GLOBAL ID NO.: NA

EDF DELIVERABLE TO (Name, Company, Office Location):  
CRA, Seattle, WA

PHONE NO.: 425-563-6500  
E-MAIL: Shell-US-LabDataManagement@CRAworld.com

CONSULTANT PROJECT NO.: 131113

SAMPLER NAME(S) (Print): *10000 Dmpay*

REQUESTED ANALYSIS

TEMPERATURE ON RECEIPT C°	REQUESTED ANALYSIS														TEMPERATURE ON RECEIPT C°				
	NWTPH-Dx w/ Silica Gel Cleanup	BTEX (8260B)	5 Oxygenates, MTBE, TBA, DIPE, TAME, ETBE (8260B)	EDC (8260B)	EDB	NWTPH-Dx w/o Silica Gel Cleanup	Nitrate/Nitrite by 353.2	Dissolved CO2 by SM4500CO2C	Dissolved Methane by RSK-175	Full Scan VOC's By 8280	Alkalinity by SM2320B	Dissolved Iron (Ferrous)	Manganese by 8010/6020	TPH-O	MTBE (8260B)	Dissolved Lead by 6020	Total Lead	TPH-o w/o Silica Gel Cleanup	Container PID Readings or Laboratory Notes
	X	X	X	X	X	X							X	X	X	X	X	0.8, 2.0, 4.5	
	X	X	X	X	X	X							X	X	X	X	X		
	X	X	X	X	X	X							X	X	X	X	X		
	X	X	X	X	X	X							X	X	X	X	X		
	X	X	X	X	X	X							X	X	X	X	X		
	X	X	X	X	X	X							X	X	X	X	X		
	X	X	X	X	X	X							X	X	X	X	X		
	X	X	X	X	X	X							X	X	X	X	X		

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Relinquished by: (Signature) <i>[Signature]</i>	Received by: (Signature) <i>[Signature]</i> <i>Shipped via FedEx</i>	Date: 11/11/13	Time:
Relinquished by: (Signature)	Received by: (Signature) <i>[Signature]</i> <i>TAN</i>	Date: 11-12-13	Time: 0830

12/17/2013



## Login Sample Receipt Checklist

Client: Conestoga-Rovers & Associates, Inc.

Job Number: 490-40187-1  
SDG Number: SAP / 062027

**Login Number: 40187**

**List Number: 1**

**Creator: Huckaba, Jimmy**

**List Source: TestAmerica Nashville**

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?	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").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



## Login Sample Receipt Checklist

Client: Conestoga-Rovers & Associates, Inc.

Job Number: 490-40187-1  
SDG Number: SAP / 062027

**Login Number: 40187**

**List Number: 1**

**Creator: Blankinship, Tom X**

**List Source: TestAmerica Seattle**

**List Creation: 11/15/13 07:46 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	2.7°C by IR
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").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

## ANALYTICAL REPORT

TestAmerica Laboratories, Inc.  
TestAmerica Nashville  
2960 Foster Creighton Drive  
Nashville, TN 37204  
Tel: (615)726-0177

TestAmerica Job ID: 490-49164-1  
TestAmerica Sample Delivery Group: SAP# / 062027  
Client Project/Site: 200 Railroad Ave S, Ellensburg, WA

For:  
Conestoga-Rovers & Associates, Inc.  
20818 44th Ave W  
Suite 190  
Lynnwood, Washington 98036

Attn: Brian Peters



Authorized for release by:  
4/7/2014 3:47:14 PM

Ryan Fitzwater, Senior Project Manager  
(615)726-0177  
[ryan.fitzwater@testamericainc.com](mailto:ryan.fitzwater@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: Conestoga-Rovers & Associates, Inc.  
Project/Site: 200 Railroad Ave S, Ellensburg, WA

TestAmerica Job ID: 490-49164-1  
SDG: SAP# / 062027

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
490-49164-1	GW-062027-032014-SS-MW-1	Ground Water	03/20/14 10:15	03/24/14 08:30
490-49164-2	GW-062027-032014-SS-MW-2	Ground Water	03/20/14 11:15	03/24/14 08:30
490-49164-3	GW-062027-032014-SS-MW-3	Ground Water	03/20/14 11:50	03/24/14 08:30
490-49164-4	GW-062027-032014-SS-MW-4	Ground Water	03/20/14 12:45	03/24/14 08:30
490-49164-5	GW-062027-032014-SS-MW-5	Ground Water	03/20/14 13:25	03/24/14 08:30
490-49164-6	GW-062027-032014-SS-MW-6	Ground Water	03/20/14 14:10	03/24/14 08:30
490-49164-7	GW-062027-032014-SS-MW-7	Ground Water	03/20/14 14:45	03/24/14 08:30
490-49164-8	GW-062027-032014-SS-MW-8	Ground Water	03/20/14 15:35	03/24/14 08:30



# Case Narrative

Client: Conestoga-Rovers & Associates, Inc.  
Project/Site: 200 Railroad Ave S, Ellensburg, WA

TestAmerica Job ID: 490-49164-1  
SDG: SAP# / 062027

**Job ID: 490-49164-1**

**Laboratory: TestAmerica Nashville**

## Narrative

### Job Narrative 490-49164-1

#### Comments

No additional comments.

#### Receipt

The samples were received on 3/24/2014 8:30 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 5 coolers at receipt time were 1.3° C, 1.7° C, 1.8° C, 2.2° C and 2.3° C.

#### GC/MS VOA

Method(s) 8260B: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate/sample duplicate (MS/MSD/DUP) associated with batch 150472.

Method(s) 8260B: The matrix spike and matrix spike duplicate (MS/MSD) for batch 150946 were unable to be analyzed due to an autosampler malfunction. Refer to laboratory control sample and duplicate (LCS/LCSD) for accuracy and precision.

No other analytical or quality issues were noted.

#### GC Semi VOA

Method(s) 8011: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate/sample duplicate (MS/MSD/DUP) associated with batch 150411. (LCS 490-150411/4-A)

Method(s) 8011: Surrogate recovery for the following sample(s) was outside the upper control limit: (LCS 490-150411/4-A), (MB 490-150411/3-A), GW-062027-032014-SS-MW-1 (490-49164-1), GW-062027-032014-SS-MW-2 (490-49164-2), GW-062027-032014-SS-MW-3 (490-49164-3). This sample did not contain any target analytes; therefore, re-extraction and/or re-analysis was not performed.

Method(s) 8011: The following sample(s) required a dilution due to the nature of the sample matrix: GW-062027-032014-SS-MW-8 (490-49164-8). 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. Elevated reporting limits also provided. GW-062027-032014-SS-MW-8 (490-49164-8)

Method(s) 8011: The continuing calibration verification (CCV) associated with batch 150297 recovered above the upper control limit for 12DBCP and EDB. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following samples are impacted: (CCV 490-150297/37), GW-062027-032014-SS-MW-8 (490-49164-8).

Method(s) 8011: The continuing calibration verification (CCV) associated with batch 150297 recovered above the upper control limit for 12DBCP. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following samples are impacted: (CCV 490-150297/33), GW-062027-032014-SS-MW-4 (490-49164-4), GW-062027-032014-SS-MW-5 (490-49164-5), GW-062027-032014-SS-MW-6 (490-49164-6), GW-062027-032014-SS-MW-7 (490-49164-7), GW-062027-032014-SS-MW-8 (490-49164-8).

Method(s) 8011: The continuing calibration verification (CCV) associated with batch 150297 recovered above the upper control limit for Ethylene Dibromide. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following samples are impacted: (CCV 490-150297/21), (LCS 490-150411/4-A), (MB 490-150411/3-A), GW-062027-032014-SS-MW-1 (490-49164-1), GW-062027-032014-SS-MW-2 (490-49164-2), GW-062027-032014-SS-MW-3 (490-49164-3).

Method(s) 8011: Surrogate recovery for the following sample(s) was outside the upper control limit: GW-062027-032014-SS-MW-4 (490-49164-4), GW-062027-032014-SS-MW-6 (490-49164-6). This sample did not contain any target analytes; therefore, re-extraction and/or re-analysis was not performed.

No other analytical or quality issues were noted.

#### VOA Prep

## Case Narrative

Client: Conestoga-Rovers & Associates, Inc.  
Project/Site: 200 Railroad Ave S, Ellensburg, WA

TestAmerica Job ID: 490-49164-1  
SDG: SAP# / 062027

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### Job ID: 490-49164-1 (Continued)

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#### Laboratory: TestAmerica Nashville (Continued)

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

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### Job ID: 490-49164-2

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#### Laboratory: TestAmerica Nashville

##### Narrative

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##### Job Narrative 490-49164-2

##### Comments

No additional comments.

##### Receipt

The samples were received on 3/24/2014 8:30 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 5 coolers at receipt time were 1.3° C, 1.7° C, 1.8° C, 2.2° C and 2.3° C.

##### GC VOA

Method(s) NWTPH-Gx: The following sample(s) was diluted due to the nature of the sample matrix: GW-062027-032014-SS-MW-4 (490-49164-4)490-49164-E-4. Elevated reporting limits (RLs) are provided.

No other analytical or quality issues were noted.

##### GC Semi VOA

Method(s) NWTPH-Dx: The following sample(s) contained a hydrocarbon pattern which does not match a typical Total Petroleum Hydrocarbon (TPH) pattern used by the laboratory for quantitative purposes: (490-49164-1 DU), GW-062027-032014-SS-MW-1 (490-49164-1), GW-062027-032014-SS-MW-4 (490-49164-4), GW-062027-032014-SS-MW-6 (490-49164-6).

Method(s) NWTPH-Dx: The sample duplicate (DUP) precision for batch 150984 was outside control limits: (490-49164-1 DU). Sample matrix interference and/or non-homogeneity are suspected.

Method(s) NWTPH-Dx: Surrogate recovery for the following sample(s) was outside control limits: GW-062027-032014-SS-MW-4 (490-49164-4). Re-extraction and/or re-analysis was performed with concurring results. The original analysis has been reported.

No other analytical or quality issues were noted.

##### Metals

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

##### Organic Prep

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

##### VOA Prep

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

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### Job ID: 490-49164-3

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#### Laboratory: TestAmerica Nashville

##### Narrative

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##### Job Narrative 490-49164-3

##### Comments

No additional comments.

##### Receipt

## Case Narrative

Client: Conestoga-Rovers & Associates, Inc.  
Project/Site: 200 Railroad Ave S, Ellensburg, WA

TestAmerica Job ID: 490-49164-1  
SDG: SAP# / 062027

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### Job ID: 490-49164-3 (Continued)

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#### Laboratory: TestAmerica Nashville (Continued)

The samples were received on 3/24/2014 8:30 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 5 coolers at receipt time were 1.3° C, 1.7° C, 1.8° C, 2.2° C and 2.3° C.

#### GC Semi VOA

Method(s) NWTPH-Dx: The following sample(s) contained a hydrocarbon pattern which does not match a typical Total Petroleum Hydrocarbon (TPH) pattern used by the laboratory for quantitative purposes: (490-49164-1 DU), GW-062027-032014-SS-MW-1 (490-49164-1), GW-062027-032014-SS-MW-4 (490-49164-4), GW-062027-032014-SS-MW-6 (490-49164-6).

Method(s) NWTPH-Dx: Surrogate recovery for the following sample(s) was outside control limits: GW-062027-032014-SS-MW-4 (490-49164-4). Re-extraction and/or re-analysis was performed with concurring results. The original analysis has been reported.

Method(s) NWTPH-Dx: The last preceding ccv, which was within acceptance limits, was analyzed less than 12 hours from the following ccv: (CCV 490-152214/149). The ccv analyzed between these two passing ccvs failed due to a bad injection resulting in no recovery.

No other analytical or quality issues were noted.

#### Organic Prep

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





## Definitions/Glossary

Client: Conestoga-Rovers & Associates, Inc.  
Project/Site: 200 Railroad Ave S, Ellensburg, WA

TestAmerica Job ID: 490-49164-1  
SDG: SAP# / 062027

### Qualifiers

#### GC Semi VOA

Qualifier	Qualifier Description
p	The %RPD between the primary and confirmation column/detector is >40%. The lower value has been reported.
X	Surrogate is outside control limits
F3	Duplicate RPD exceeds the control limit
X	Surrogate is outside control limits
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: Conestoga-Rovers & Associates, Inc.  
 Project/Site: 200 Railroad Ave S, Ellensburg, WA

TestAmerica Job ID: 490-49164-1  
 SDG: SAP# / 062027

**Client Sample ID: GW-062027-032014-SS-MW-1**

**Lab Sample ID: 490-49164-1**

**Date Collected: 03/20/14 10:15**

**Matrix: Ground Water**

**Date Received: 03/24/14 08:30**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane	ND		1.00		ug/L			03/28/14 16:02	1
Benzene	ND		1.00		ug/L			03/28/14 16:02	1
Ethylbenzene	ND		1.00		ug/L			03/28/14 16:02	1
Toluene	ND		1.00		ug/L			03/28/14 16:02	1
Xylenes, Total	ND		3.00		ug/L			03/28/14 16:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	87		70 - 130		03/28/14 16:02	1
4-Bromofluorobenzene (Surr)	103		70 - 130		03/28/14 16:02	1
Dibromofluoromethane (Surr)	91		70 - 130		03/28/14 16:02	1
Toluene-d8 (Surr)	103		70 - 130		03/28/14 16:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C12	ND		100		ug/L			03/31/14 16:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	90		50 - 150		03/31/14 16:28	1

**Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylene Dibromide	ND		0.0200		ug/L		03/26/14 12:15	03/26/14 17:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,3-Dichlorobenzene	159	p X	50 - 150	03/26/14 12:15	03/26/14 17:19	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C24	252		93.5		ug/L		03/28/14 09:02	03/29/14 13:41	1
C24-C40	94.1		93.5		ug/L		03/28/14 09:02	03/29/14 13:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	62		50 - 150	03/28/14 09:02	03/29/14 13:41	1

**Method: NWTPH-Dx - Semi-Volatile Petroleum Products by NWTPH with Silica Gel Cleanup**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C24	186		93.5		ug/L		03/28/14 09:02	03/29/14 17:18	1
C24-C40	ND		93.5		ug/L		03/28/14 09:02	03/29/14 17:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	60		50 - 150	03/28/14 09:02	03/29/14 17:18	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.00200		mg/L		03/26/14 11:46	04/02/14 03:30	1

# Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
 Project/Site: 200 Railroad Ave S, Ellensburg, WA

TestAmerica Job ID: 490-49164-1  
 SDG: SAP# / 062027

**Client Sample ID: GW-062027-032014-SS-MW-2**

**Lab Sample ID: 490-49164-2**

**Date Collected: 03/20/14 11:15**

**Matrix: Ground Water**

**Date Received: 03/24/14 08:30**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane	ND		1.00		ug/L			03/27/14 15:22	1
Benzene	ND		1.00		ug/L			03/27/14 15:22	1
Ethylbenzene	ND		1.00		ug/L			03/27/14 15:22	1
Toluene	ND		1.00		ug/L			03/27/14 15:22	1
Xylenes, Total	ND		3.00		ug/L			03/27/14 15:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	104		70 - 130		03/27/14 15:22	1
4-Bromofluorobenzene (Surr)	112		70 - 130		03/27/14 15:22	1
Dibromofluoromethane (Surr)	98		70 - 130		03/27/14 15:22	1
Toluene-d8 (Surr)	103		70 - 130		03/27/14 15:22	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C12	ND		100		ug/L			03/31/14 16:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	90		50 - 150		03/31/14 16:58	1

**Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylene Dibromide	ND		0.0199		ug/L		03/26/14 12:15	03/26/14 17:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,3-Dichlorobenzene	154	p X	50 - 150	03/26/14 12:15	03/26/14 17:36	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C24	ND		93.5		ug/L		03/28/14 09:02	03/29/14 14:11	1
C24-C40	ND		93.5		ug/L		03/28/14 09:02	03/29/14 14:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	76		50 - 150	03/28/14 09:02	03/29/14 14:11	1

**Method: NWTPH-Dx - Semi-Volatile Petroleum Products by NWTPH with Silica Gel Cleanup**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C24	ND		93.5		ug/L		03/28/14 09:02	03/29/14 17:49	1
C24-C40	ND		93.5		ug/L		03/28/14 09:02	03/29/14 17:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	89		50 - 150	03/28/14 09:02	03/29/14 17:49	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.00200		mg/L		03/26/14 11:46	04/02/14 03:35	1

# Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
 Project/Site: 200 Railroad Ave S, Ellensburg, WA

TestAmerica Job ID: 490-49164-1  
 SDG: SAP# / 062027

**Client Sample ID: GW-062027-032014-SS-MW-3**

**Lab Sample ID: 490-49164-3**

**Date Collected: 03/20/14 11:50**

**Matrix: Ground Water**

**Date Received: 03/24/14 08:30**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane	ND		1.00		ug/L			03/27/14 15:49	1
Benzene	ND		1.00		ug/L			03/27/14 15:49	1
Ethylbenzene	ND		1.00		ug/L			03/27/14 15:49	1
Toluene	ND		1.00		ug/L			03/27/14 15:49	1
Xylenes, Total	ND		3.00		ug/L			03/27/14 15:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	104		70 - 130		03/27/14 15:49	1
4-Bromofluorobenzene (Surr)	111		70 - 130		03/27/14 15:49	1
Dibromofluoromethane (Surr)	98		70 - 130		03/27/14 15:49	1
Toluene-d8 (Surr)	102		70 - 130		03/27/14 15:49	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C12	ND		100		ug/L			03/31/14 17:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	93		50 - 150		03/31/14 17:29	1

**Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylene Dibromide	ND		0.0201		ug/L		03/26/14 12:15	03/26/14 17:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,3-Dichlorobenzene	190	X	50 - 150	03/26/14 12:15	03/26/14 17:53	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C24	ND		93.5		ug/L		03/28/14 09:02	03/29/14 14:27	1
C24-C40	ND		93.5		ug/L		03/28/14 09:02	03/29/14 14:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	65		50 - 150	03/28/14 09:02	03/29/14 14:27	1

**Method: NWTPH-Dx - Semi-Volatile Petroleum Products by NWTPH with Silica Gel Cleanup**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C24	ND		93.5		ug/L		03/28/14 09:02	03/29/14 18:04	1
C24-C40	ND		93.5		ug/L		03/28/14 09:02	03/29/14 18:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	81		50 - 150	03/28/14 09:02	03/29/14 18:04	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.00200		mg/L		03/26/14 11:46	04/02/14 03:40	1

# Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
 Project/Site: 200 Railroad Ave S, Ellensburg, WA

TestAmerica Job ID: 490-49164-1  
 SDG: SAP# / 062027

**Client Sample ID: GW-062027-032014-SS-MW-4**

**Lab Sample ID: 490-49164-4**

**Date Collected: 03/20/14 12:45**

**Matrix: Ground Water**

**Date Received: 03/24/14 08:30**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane	ND		1.00		ug/L			03/27/14 16:17	1
Benzene	ND		1.00		ug/L			03/27/14 16:17	1
Ethylbenzene	ND		1.00		ug/L			03/27/14 16:17	1
Toluene	ND		1.00		ug/L			03/27/14 16:17	1
Xylenes, Total	ND		3.00		ug/L			03/27/14 16:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	108		70 - 130		03/27/14 16:17	1
4-Bromofluorobenzene (Surr)	110		70 - 130		03/27/14 16:17	1
Dibromofluoromethane (Surr)	97		70 - 130		03/27/14 16:17	1
Toluene-d8 (Surr)	101		70 - 130		03/27/14 16:17	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C12	ND		500		ug/L			03/31/14 18:00	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	90		50 - 150		03/31/14 18:00	5

**Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylene Dibromide	ND		0.0201		ug/L		03/26/14 12:15	03/26/14 18:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,3-Dichlorobenzene	159	X	50 - 150	03/26/14 12:15	03/26/14 18:45	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C24	1000		93.5		ug/L		03/28/14 09:02	03/29/14 14:43	1
C24-C40	303		93.5		ug/L		03/28/14 09:02	03/29/14 14:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	36	X	50 - 150	03/28/14 09:02	03/29/14 14:43	1

**Method: NWTPH-Dx - Semi-Volatile Petroleum Products by NWTPH with Silica Gel Cleanup**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C24	819		93.5		ug/L		03/28/14 09:02	03/29/14 18:19	1
C24-C40	180		93.5		ug/L		03/28/14 09:02	03/29/14 18:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	43	X	50 - 150	03/28/14 09:02	03/29/14 18:19	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.00316		0.00200		mg/L		03/26/14 11:46	04/02/14 03:45	1

# Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
 Project/Site: 200 Railroad Ave S, Ellensburg, WA

TestAmerica Job ID: 490-49164-1  
 SDG: SAP# / 062027

**Client Sample ID: GW-062027-032014-SS-MW-5**

**Lab Sample ID: 490-49164-5**

**Date Collected: 03/20/14 13:25**

**Matrix: Ground Water**

**Date Received: 03/24/14 08:30**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane	ND		1.00		ug/L			03/27/14 16:43	1
Benzene	ND		1.00		ug/L			03/27/14 16:43	1
Ethylbenzene	ND		1.00		ug/L			03/27/14 16:43	1
Toluene	ND		1.00		ug/L			03/27/14 16:43	1
Xylenes, Total	ND		3.00		ug/L			03/27/14 16:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	106		70 - 130		03/27/14 16:43	1
4-Bromofluorobenzene (Surr)	110		70 - 130		03/27/14 16:43	1
Dibromofluoromethane (Surr)	98		70 - 130		03/27/14 16:43	1
Toluene-d8 (Surr)	102		70 - 130		03/27/14 16:43	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C12	ND		100		ug/L			03/31/14 18:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	93		50 - 150		03/31/14 18:31	1

**Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylene Dibromide	ND		0.0205		ug/L		03/26/14 12:15	03/26/14 19:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,3-Dichlorobenzene	144		50 - 150	03/26/14 12:15	03/26/14 19:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C24	ND		93.5		ug/L		03/28/14 09:02	03/29/14 14:58	1
C24-C40	ND		93.5		ug/L		03/28/14 09:02	03/29/14 14:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	71		50 - 150	03/28/14 09:02	03/29/14 14:58	1

**Method: NWTPH-Dx - Semi-Volatile Petroleum Products by NWTPH with Silica Gel Cleanup**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C24	ND		93.5		ug/L		03/28/14 09:02	03/29/14 18:35	1
C24-C40	ND		93.5		ug/L		03/28/14 09:02	03/29/14 18:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	89		50 - 150	03/28/14 09:02	03/29/14 18:35	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.00200		mg/L		03/26/14 11:46	04/02/14 03:50	1

# Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
 Project/Site: 200 Railroad Ave S, Ellensburg, WA

TestAmerica Job ID: 490-49164-1  
 SDG: SAP# / 062027

**Client Sample ID: GW-062027-032014-SS-MW-6**

**Lab Sample ID: 490-49164-6**

**Date Collected: 03/20/14 14:10**

**Matrix: Ground Water**

**Date Received: 03/24/14 08:30**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane	ND		1.00		ug/L			03/27/14 17:11	1
Benzene	ND		1.00		ug/L			03/27/14 17:11	1
Ethylbenzene	ND		1.00		ug/L			03/27/14 17:11	1
Toluene	ND		1.00		ug/L			03/27/14 17:11	1
Xylenes, Total	ND		3.00		ug/L			03/27/14 17:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	106		70 - 130		03/27/14 17:11	1
4-Bromofluorobenzene (Surr)	111		70 - 130		03/27/14 17:11	1
Dibromofluoromethane (Surr)	98		70 - 130		03/27/14 17:11	1
Toluene-d8 (Surr)	103		70 - 130		03/27/14 17:11	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C12	ND		100		ug/L			03/31/14 19:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	92		50 - 150		03/31/14 19:01	1

**Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylene Dibromide	ND		0.0199		ug/L		03/26/14 12:15	03/26/14 19:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,3-Dichlorobenzene	189	X	50 - 150	03/26/14 12:15	03/26/14 19:19	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C24	594		93.5		ug/L		03/28/14 09:02	03/29/14 15:14	1
C24-C40	139		93.5		ug/L		03/28/14 09:02	03/29/14 15:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	55		50 - 150	03/28/14 09:02	03/29/14 15:14	1

**Method: NWTPH-Dx - Semi-Volatile Petroleum Products by NWTPH with Silica Gel Cleanup**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C24	514		93.5		ug/L		03/28/14 09:02	03/29/14 18:50	1
C24-C40	120		93.5		ug/L		03/28/14 09:02	03/29/14 18:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	61		50 - 150	03/28/14 09:02	03/29/14 18:50	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.00200		mg/L		03/26/14 11:46	04/02/14 04:05	1

# Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
 Project/Site: 200 Railroad Ave S, Ellensburg, WA

TestAmerica Job ID: 490-49164-1  
 SDG: SAP# / 062027

**Client Sample ID: GW-062027-032014-SS-MW-7**

**Lab Sample ID: 490-49164-7**

**Date Collected: 03/20/14 14:45**

**Matrix: Ground Water**

**Date Received: 03/24/14 08:30**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane	ND		1.00		ug/L			03/27/14 17:38	1
Benzene	ND		1.00		ug/L			03/27/14 17:38	1
Ethylbenzene	ND		1.00		ug/L			03/27/14 17:38	1
Toluene	ND		1.00		ug/L			03/27/14 17:38	1
Xylenes, Total	ND		3.00		ug/L			03/27/14 17:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105		70 - 130		03/27/14 17:38	1
4-Bromofluorobenzene (Surr)	110		70 - 130		03/27/14 17:38	1
Dibromofluoromethane (Surr)	96		70 - 130		03/27/14 17:38	1
Toluene-d8 (Surr)	101		70 - 130		03/27/14 17:38	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C12	ND		100		ug/L			03/31/14 19:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	95		50 - 150		03/31/14 19:32	1

**Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylene Dibromide	ND		0.0204		ug/L		03/26/14 12:15	03/26/14 19:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,3-Dichlorobenzene	142		50 - 150	03/26/14 12:15	03/26/14 19:37	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C24	ND		93.5		ug/L		03/28/14 09:02	03/29/14 15:29	1
C24-C40	ND		93.5		ug/L		03/28/14 09:02	03/29/14 15:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	56		50 - 150	03/28/14 09:02	03/29/14 15:29	1

**Method: NWTPH-Dx - Semi-Volatile Petroleum Products by NWTPH with Silica Gel Cleanup**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C24	ND		93.5		ug/L		03/28/14 09:02	03/29/14 19:05	1
C24-C40	ND		93.5		ug/L		03/28/14 09:02	03/29/14 19:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	57		50 - 150	03/28/14 09:02	03/29/14 19:05	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.00200		mg/L		03/26/14 11:46	04/02/14 04:10	1



# Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
 Project/Site: 200 Railroad Ave S, Ellensburg, WA

TestAmerica Job ID: 490-49164-1  
 SDG: SAP# / 062027

**Client Sample ID: GW-062027-032014-SS-MW-8**

**Lab Sample ID: 490-49164-8**

**Date Collected: 03/20/14 15:35**

**Matrix: Ground Water**

**Date Received: 03/24/14 08:30**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane	ND		1.00		ug/L			03/27/14 18:05	1
Benzene	ND		1.00		ug/L			03/27/14 18:05	1
Ethylbenzene	ND		1.00		ug/L			03/27/14 18:05	1
Toluene	ND		1.00		ug/L			03/27/14 18:05	1
Xylenes, Total	ND		3.00		ug/L			03/27/14 18:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	104		70 - 130		03/27/14 18:05	1
4-Bromofluorobenzene (Surr)	110		70 - 130		03/27/14 18:05	1
Dibromofluoromethane (Surr)	98		70 - 130		03/27/14 18:05	1
Toluene-d8 (Surr)	101		70 - 130		03/27/14 18:05	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C12	ND		100		ug/L			03/31/14 20:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	93		50 - 150		03/31/14 20:03	1

**Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylene Dibromide	ND		0.203		ug/L		03/26/14 12:15	03/26/14 22:13	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,3-Dichlorobenzene	0	X	50 - 150	03/26/14 12:15	03/26/14 22:13	10
1,3-Dichlorobenzene	0	X	50 - 150	03/26/14 12:15	03/27/14 08:59	50

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C24	ND		93.5		ug/L		03/28/14 09:02	03/29/14 15:45	1
C24-C40	ND		93.5		ug/L		03/28/14 09:02	03/29/14 15:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	54		50 - 150	03/28/14 09:02	03/29/14 15:45	1

**Method: NWTPH-Dx - Semi-Volatile Petroleum Products by NWTPH with Silica Gel Cleanup**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C24	ND		93.5		ug/L		03/28/14 09:02	03/29/14 19:21	1
C24-C40	ND		93.5		ug/L		03/28/14 09:02	03/29/14 19:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	55		50 - 150	03/28/14 09:02	03/29/14 19:21	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.00200		mg/L		03/26/14 11:46	04/02/14 04:15	1

# QC Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
 Project/Site: 200 Railroad Ave S, Ellensburg, WA

TestAmerica Job ID: 490-49164-1  
 SDG: SAP# / 062027

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

**Lab Sample ID: MB 490-150472/7**

**Matrix: Water**

**Analysis Batch: 150472**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane	ND		1.00		ug/L			03/27/14 09:58	1
Benzene	ND		1.00		ug/L			03/27/14 09:58	1
Ethylbenzene	ND		1.00		ug/L			03/27/14 09:58	1
Toluene	ND		1.00		ug/L			03/27/14 09:58	1
Xylenes, Total	ND		3.00		ug/L			03/27/14 09:58	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		70 - 130		03/27/14 09:58	1
4-Bromofluorobenzene (Surr)	108		70 - 130		03/27/14 09:58	1
Dibromofluoromethane (Surr)	98		70 - 130		03/27/14 09:58	1
Toluene-d8 (Surr)	101		70 - 130		03/27/14 09:58	1

**Lab Sample ID: LCS 490-150472/3**

**Matrix: Water**

**Analysis Batch: 150472**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dichloroethane	50.0	53.49		ug/L		107	77 - 121
Benzene	50.0	52.57		ug/L		105	80 - 121
Ethylbenzene	50.0	55.45		ug/L		111	80 - 130
Toluene	50.0	50.43		ug/L		101	80 - 126
Xylenes, Total	100	114.5		ug/L		115	80 - 132

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	102		70 - 130
4-Bromofluorobenzene (Surr)	112		70 - 130
Dibromofluoromethane (Surr)	101		70 - 130
Toluene-d8 (Surr)	98		70 - 130

**Lab Sample ID: LCSD 490-150472/4**

**Matrix: Water**

**Analysis Batch: 150472**

**Client Sample ID: Lab Control Sample Dup**

**Prep Type: Total/NA**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2-Dichloroethane	50.0	54.32		ug/L		109	77 - 121	2	17
Benzene	50.0	53.15		ug/L		106	80 - 121	1	17
Ethylbenzene	50.0	56.51		ug/L		113	80 - 130	2	15
Toluene	50.0	51.68		ug/L		103	80 - 126	2	15
Xylenes, Total	100	117.5		ug/L		117	80 - 132	3	15

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	103		70 - 130
4-Bromofluorobenzene (Surr)	111		70 - 130
Dibromofluoromethane (Surr)	101		70 - 130
Toluene-d8 (Surr)	99		70 - 130

# QC Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
 Project/Site: 200 Railroad Ave S, Ellensburg, WA

TestAmerica Job ID: 490-49164-1  
 SDG: SAP# / 062027

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

**Lab Sample ID: MB 490-150946/7**

**Matrix: Water**

**Analysis Batch: 150946**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane	ND		1.00		ug/L			03/28/14 15:36	1
Benzene	ND		1.00		ug/L			03/28/14 15:36	1
Ethylbenzene	ND		1.00		ug/L			03/28/14 15:36	1
Toluene	ND		1.00		ug/L			03/28/14 15:36	1
Xylenes, Total	ND		3.00		ug/L			03/28/14 15:36	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	89		70 - 130		03/28/14 15:36	1
4-Bromofluorobenzene (Surr)	104		70 - 130		03/28/14 15:36	1
Dibromofluoromethane (Surr)	91		70 - 130		03/28/14 15:36	1
Toluene-d8 (Surr)	103		70 - 130		03/28/14 15:36	1

**Lab Sample ID: LCS 490-150946/3**

**Matrix: Water**

**Analysis Batch: 150946**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dichloroethane	50.0	44.90		ug/L		90	77 - 121
Benzene	50.0	55.12		ug/L		110	80 - 121
Ethylbenzene	50.0	54.52		ug/L		109	80 - 130
Toluene	50.0	55.29		ug/L		111	80 - 126
Xylenes, Total	100	111.3		ug/L		111	80 - 132

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	81		70 - 130
4-Bromofluorobenzene (Surr)	106		70 - 130
Dibromofluoromethane (Surr)	86		70 - 130
Toluene-d8 (Surr)	103		70 - 130

**Lab Sample ID: LCSD 490-150946/4**

**Matrix: Water**

**Analysis Batch: 150946**

**Client Sample ID: Lab Control Sample Dup**

**Prep Type: Total/NA**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2-Dichloroethane	50.0	45.73		ug/L		91	77 - 121	2	17
Benzene	50.0	55.17		ug/L		110	80 - 121	0	17
Ethylbenzene	50.0	54.79		ug/L		110	80 - 130	1	15
Toluene	50.0	55.25		ug/L		111	80 - 126	0	15
Xylenes, Total	100	111.6		ug/L		112	80 - 132	0	15

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	80		70 - 130
4-Bromofluorobenzene (Surr)	103		70 - 130
Dibromofluoromethane (Surr)	85		70 - 130
Toluene-d8 (Surr)	104		70 - 130

# QC Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
 Project/Site: 200 Railroad Ave S, Ellensburg, WA

TestAmerica Job ID: 490-49164-1  
 SDG: SAP# / 062027

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

**Lab Sample ID: MB 490-151447/7**

**Matrix: Water**

**Analysis Batch: 151447**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C12	ND		100		ug/L			03/31/14 09:17	1
Surrogate	%Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	93		50 - 150					03/31/14 09:17	1

**Lab Sample ID: LCS 490-151447/5**

**Matrix: Water**

**Analysis Batch: 151447**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
C6-C12	1000	1008		ug/L		101	39 - 143
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
a,a,a-Trifluorotoluene	82		50 - 150				

**Lab Sample ID: LCSD 490-151447/6**

**Matrix: Water**

**Analysis Batch: 151447**

**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
C6-C12	1000	975.6		ug/L		98	39 - 143	3	18
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
a,a,a-Trifluorotoluene	81		50 - 150						

**Lab Sample ID: 490-49475-E-1 DU**

**Matrix: Water**

**Analysis Batch: 151447**

**Client Sample ID: Duplicate**

**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
C6-C12	ND		ND		ug/L		NC	18
Surrogate	DU %Recovery	DU Qualifier	Limits					
a,a,a-Trifluorotoluene	91		50 - 150					

## Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

**Lab Sample ID: MB 490-150411/3-A**

**Matrix: Water**

**Analysis Batch: 150297**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

**Prep Batch: 150411**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylene Dibromide	ND		0.0200		ug/L		03/26/14 11:15	03/26/14 12:38	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,3-Dichlorobenzene	170	X	50 - 150				03/26/14 11:15	03/26/14 12:38	1

TestAmerica Nashville

# QC Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
 Project/Site: 200 Railroad Ave S, Ellensburg, WA

TestAmerica Job ID: 490-49164-1  
 SDG: SAP# / 062027

## Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC) (Continued)

**Lab Sample ID: LCS 490-150411/4-A**

**Matrix: Water**

**Analysis Batch: 150297**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

**Prep Batch: 150411**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ethylene Dibromide	0.286	0.3641		ug/L		127	70 - 130
<b>Surrogate</b>		<b>LCS %Recovery</b>	<b>LCS Qualifier</b>				<b>Limits</b>
1,3-Dichlorobenzene		175	X				50 - 150

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

**Lab Sample ID: MB 490-150984/1-A**

**Matrix: Water**

**Analysis Batch: 151229**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

**Prep Batch: 150984**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C24	ND		100		ug/L		03/28/14 09:02	03/29/14 13:10	1
C24-C40	ND		100		ug/L		03/28/14 09:02	03/29/14 13:10	1
<b>Surrogate</b>		<b>MB %Recovery</b>	<b>MB Qualifier</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
o-Terphenyl		64					03/28/14 09:02	03/29/14 13:10	1

**Lab Sample ID: LCS 490-150984/2-A**

**Matrix: Water**

**Analysis Batch: 151229**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

**Prep Batch: 150984**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
C10-C24	1000	763.0		ug/L		76	51 - 132
<b>Surrogate</b>		<b>LCS %Recovery</b>	<b>LCS Qualifier</b>				<b>Limits</b>
o-Terphenyl		72					50 - 150

**Lab Sample ID: 490-49164-1 DU**

**Matrix: Ground Water**

**Analysis Batch: 151229**

**Client Sample ID: GW-062027-032014-SS-MW-1**

**Prep Type: Total/NA**

**Prep Batch: 150984**

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
C10-C24	252		276.5		ug/L		9	41
C24-C40	94.1		ND		ug/L		3	41
<b>Surrogate</b>		<b>DU %Recovery</b>	<b>DU Qualifier</b>					<b>Limits</b>
o-Terphenyl		72						50 - 150

# QC Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
 Project/Site: 200 Railroad Ave S, Ellensburg, WA

TestAmerica Job ID: 490-49164-1  
 SDG: SAP# / 062027

## Method: NWTPH-Dx - Semi-Volatile Petroleum Products by NWTPH with Silica Gel Cleanup

**Lab Sample ID: MB 490-150984/1-A**  
**Matrix: Water**  
**Analysis Batch: 151297**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 150984**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C24	ND		100		ug/L		03/28/14 09:02	03/29/14 16:46	1
C24-C40	ND		100		ug/L		03/28/14 09:02	03/29/14 16:46	1
Surrogate	%Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	64		50 - 150				03/28/14 09:02	03/29/14 16:46	1

**Lab Sample ID: LCS 490-150984/2-A**  
**Matrix: Water**  
**Analysis Batch: 151297**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 150984**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
C10-C24	1000	816.0		ug/L		82	51 - 132
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
<i>o</i> -Terphenyl	75		50 - 150				

**Lab Sample ID: 490-49164-1 DU**  
**Matrix: Ground Water**  
**Analysis Batch: 151297**

**Client Sample ID: GW-062027-032014-SS-MW-1**  
**Prep Type: Total/NA**  
**Prep Batch: 150984**

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
C10-C24	186		305.2	F3	ug/L		49	41
C24-C40	ND		96.27		ug/L		20	41
Surrogate	DU %Recovery	DU Qualifier	Limits					
<i>o</i> -Terphenyl	82		50 - 150					

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

**Lab Sample ID: MB 490-150395/1-A**  
**Matrix: Water**  
**Analysis Batch: 152007**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 150395**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.00200		mg/L		03/26/14 11:46	04/02/14 03:05	1

**Lab Sample ID: LCS 490-150395/2-A**  
**Matrix: Water**  
**Analysis Batch: 152007**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 150395**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Lead	0.100	0.1051		mg/L		105	80 - 120

# QC Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
 Project/Site: 200 Railroad Ave S, Ellensburg, WA

TestAmerica Job ID: 490-49164-1  
 SDG: SAP# / 062027

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

**Lab Sample ID: 490-48963-G-1-B MS**  
**Matrix: Water**  
**Analysis Batch: 152007**

**Client Sample ID: Matrix Spike**  
**Prep Type: Total/NA**  
**Prep Batch: 150395**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Lead	ND		0.100	0.1021		mg/L		102	75 - 125

**Lab Sample ID: 490-48963-G-1-C MSD**  
**Matrix: Water**  
**Analysis Batch: 152007**

**Client Sample ID: Matrix Spike Duplicate**  
**Prep Type: Total/NA**  
**Prep Batch: 150395**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Lead	ND		0.100	0.1037		mg/L		104	75 - 125	2	20

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

# QC Association Summary

Client: Conestoga-Rovers & Associates, Inc.  
 Project/Site: 200 Railroad Ave S, Ellensburg, WA

TestAmerica Job ID: 490-49164-1  
 SDG: SAP# / 062027

## GC/MS VOA

### Analysis Batch: 150472

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-49164-2	GW-062027-032014-SS-MW-2	Total/NA	Ground Water	8260B	
490-49164-3	GW-062027-032014-SS-MW-3	Total/NA	Ground Water	8260B	
490-49164-4	GW-062027-032014-SS-MW-4	Total/NA	Ground Water	8260B	
490-49164-5	GW-062027-032014-SS-MW-5	Total/NA	Ground Water	8260B	
490-49164-6	GW-062027-032014-SS-MW-6	Total/NA	Ground Water	8260B	
490-49164-7	GW-062027-032014-SS-MW-7	Total/NA	Ground Water	8260B	
490-49164-8	GW-062027-032014-SS-MW-8	Total/NA	Ground Water	8260B	
LCS 490-150472/3	Lab Control Sample	Total/NA	Water	8260B	
LCS 490-150472/4	Lab Control Sample Dup	Total/NA	Water	8260B	
MB 490-150472/7	Method Blank	Total/NA	Water	8260B	

### Analysis Batch: 150946

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-49164-1	GW-062027-032014-SS-MW-1	Total/NA	Ground Water	8260B	
LCS 490-150946/3	Lab Control Sample	Total/NA	Water	8260B	
LCS 490-150946/4	Lab Control Sample Dup	Total/NA	Water	8260B	
MB 490-150946/7	Method Blank	Total/NA	Water	8260B	

## GC VOA

### Analysis Batch: 151447

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-49164-1	GW-062027-032014-SS-MW-1	Total/NA	Ground Water	NWTPH-Gx	
490-49164-2	GW-062027-032014-SS-MW-2	Total/NA	Ground Water	NWTPH-Gx	
490-49164-3	GW-062027-032014-SS-MW-3	Total/NA	Ground Water	NWTPH-Gx	
490-49164-4	GW-062027-032014-SS-MW-4	Total/NA	Ground Water	NWTPH-Gx	
490-49164-5	GW-062027-032014-SS-MW-5	Total/NA	Ground Water	NWTPH-Gx	
490-49164-6	GW-062027-032014-SS-MW-6	Total/NA	Ground Water	NWTPH-Gx	
490-49164-7	GW-062027-032014-SS-MW-7	Total/NA	Ground Water	NWTPH-Gx	
490-49164-8	GW-062027-032014-SS-MW-8	Total/NA	Ground Water	NWTPH-Gx	
490-49475-E-1 DU	Duplicate	Total/NA	Water	NWTPH-Gx	
LCS 490-151447/5	Lab Control Sample	Total/NA	Water	NWTPH-Gx	
LCS 490-151447/6	Lab Control Sample Dup	Total/NA	Water	NWTPH-Gx	
MB 490-151447/7	Method Blank	Total/NA	Water	NWTPH-Gx	

## GC Semi VOA

### Analysis Batch: 150297

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-49164-1	GW-062027-032014-SS-MW-1	Total/NA	Ground Water	8011	150411
490-49164-2	GW-062027-032014-SS-MW-2	Total/NA	Ground Water	8011	150411
490-49164-3	GW-062027-032014-SS-MW-3	Total/NA	Ground Water	8011	150411
490-49164-4	GW-062027-032014-SS-MW-4	Total/NA	Ground Water	8011	150411
490-49164-5	GW-062027-032014-SS-MW-5	Total/NA	Ground Water	8011	150411
490-49164-6	GW-062027-032014-SS-MW-6	Total/NA	Ground Water	8011	150411
490-49164-7	GW-062027-032014-SS-MW-7	Total/NA	Ground Water	8011	150411
490-49164-8	GW-062027-032014-SS-MW-8	Total/NA	Ground Water	8011	150411
490-49164-8	GW-062027-032014-SS-MW-8	Total/NA	Ground Water	8011	150411
LCS 490-150411/4-A	Lab Control Sample	Total/NA	Water	8011	150411
MB 490-150411/3-A	Method Blank	Total/NA	Water	8011	150411

TestAmerica Nashville



# QC Association Summary

Client: Conestoga-Rovers & Associates, Inc.  
 Project/Site: 200 Railroad Ave S, Ellensburg, WA

TestAmerica Job ID: 490-49164-1  
 SDG: SAP# / 062027

## GC Semi VOA (Continued)

### Prep Batch: 150411

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-49164-1	GW-062027-032014-SS-MW-1	Total/NA	Ground Water	8011	
490-49164-2	GW-062027-032014-SS-MW-2	Total/NA	Ground Water	8011	
490-49164-3	GW-062027-032014-SS-MW-3	Total/NA	Ground Water	8011	
490-49164-4	GW-062027-032014-SS-MW-4	Total/NA	Ground Water	8011	
490-49164-5	GW-062027-032014-SS-MW-5	Total/NA	Ground Water	8011	
490-49164-6	GW-062027-032014-SS-MW-6	Total/NA	Ground Water	8011	
490-49164-7	GW-062027-032014-SS-MW-7	Total/NA	Ground Water	8011	
490-49164-8	GW-062027-032014-SS-MW-8	Total/NA	Ground Water	8011	
LCS 490-150411/4-A	Lab Control Sample	Total/NA	Water	8011	
MB 490-150411/3-A	Method Blank	Total/NA	Water	8011	

### Prep Batch: 150984

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-49164-1	GW-062027-032014-SS-MW-1	Total/NA	Ground Water	3510C	
490-49164-1 DU	GW-062027-032014-SS-MW-1	Total/NA	Ground Water	3510C	
490-49164-2	GW-062027-032014-SS-MW-2	Total/NA	Ground Water	3510C	
490-49164-3	GW-062027-032014-SS-MW-3	Total/NA	Ground Water	3510C	
490-49164-4	GW-062027-032014-SS-MW-4	Total/NA	Ground Water	3510C	
490-49164-5	GW-062027-032014-SS-MW-5	Total/NA	Ground Water	3510C	
490-49164-6	GW-062027-032014-SS-MW-6	Total/NA	Ground Water	3510C	
490-49164-7	GW-062027-032014-SS-MW-7	Total/NA	Ground Water	3510C	
490-49164-8	GW-062027-032014-SS-MW-8	Total/NA	Ground Water	3510C	
LCS 490-150984/2-A	Lab Control Sample	Total/NA	Water	3510C	
MB 490-150984/1-A	Method Blank	Total/NA	Water	3510C	

### Analysis Batch: 151229

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-49164-1	GW-062027-032014-SS-MW-1	Total/NA	Ground Water	NWTPH-Dx	150984
490-49164-1 DU	GW-062027-032014-SS-MW-1	Total/NA	Ground Water	NWTPH-Dx	150984
490-49164-2	GW-062027-032014-SS-MW-2	Total/NA	Ground Water	NWTPH-Dx	150984
490-49164-3	GW-062027-032014-SS-MW-3	Total/NA	Ground Water	NWTPH-Dx	150984
490-49164-4	GW-062027-032014-SS-MW-4	Total/NA	Ground Water	NWTPH-Dx	150984
490-49164-5	GW-062027-032014-SS-MW-5	Total/NA	Ground Water	NWTPH-Dx	150984
490-49164-6	GW-062027-032014-SS-MW-6	Total/NA	Ground Water	NWTPH-Dx	150984
490-49164-7	GW-062027-032014-SS-MW-7	Total/NA	Ground Water	NWTPH-Dx	150984
490-49164-8	GW-062027-032014-SS-MW-8	Total/NA	Ground Water	NWTPH-Dx	150984
LCS 490-150984/2-A	Lab Control Sample	Total/NA	Water	NWTPH-Dx	150984
MB 490-150984/1-A	Method Blank	Total/NA	Water	NWTPH-Dx	150984

### Analysis Batch: 151297

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-49164-1	GW-062027-032014-SS-MW-1	Total/NA	Ground Water	NWTPH-Dx	150984
490-49164-1 DU	GW-062027-032014-SS-MW-1	Total/NA	Ground Water	NWTPH-Dx	150984
490-49164-2	GW-062027-032014-SS-MW-2	Total/NA	Ground Water	NWTPH-Dx	150984
490-49164-3	GW-062027-032014-SS-MW-3	Total/NA	Ground Water	NWTPH-Dx	150984
490-49164-4	GW-062027-032014-SS-MW-4	Total/NA	Ground Water	NWTPH-Dx	150984
490-49164-5	GW-062027-032014-SS-MW-5	Total/NA	Ground Water	NWTPH-Dx	150984
490-49164-6	GW-062027-032014-SS-MW-6	Total/NA	Ground Water	NWTPH-Dx	150984
490-49164-7	GW-062027-032014-SS-MW-7	Total/NA	Ground Water	NWTPH-Dx	150984
490-49164-8	GW-062027-032014-SS-MW-8	Total/NA	Ground Water	NWTPH-Dx	150984
LCS 490-150984/2-A	Lab Control Sample	Total/NA	Water	NWTPH-Dx	150984

TestAmerica Nashville

# QC Association Summary

Client: Conestoga-Rovers & Associates, Inc.  
Project/Site: 200 Railroad Ave S, Ellensburg, WA

TestAmerica Job ID: 490-49164-1  
SDG: SAP# / 062027

## GC Semi VOA (Continued)

### Analysis Batch: 151297 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 490-150984/1-A	Method Blank	Total/NA	Water	NWTPH-Dx	150984

## Metals

### Prep Batch: 150395

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-48963-G-1-B MS	Matrix Spike	Total/NA	Water	3010A	
490-48963-G-1-C MSD	Matrix Spike Duplicate	Total/NA	Water	3010A	
490-49164-1	GW-062027-032014-SS-MW-1	Total/NA	Ground Water	3010A	
490-49164-2	GW-062027-032014-SS-MW-2	Total/NA	Ground Water	3010A	
490-49164-3	GW-062027-032014-SS-MW-3	Total/NA	Ground Water	3010A	
490-49164-4	GW-062027-032014-SS-MW-4	Total/NA	Ground Water	3010A	
490-49164-5	GW-062027-032014-SS-MW-5	Total/NA	Ground Water	3010A	
490-49164-6	GW-062027-032014-SS-MW-6	Total/NA	Ground Water	3010A	
490-49164-7	GW-062027-032014-SS-MW-7	Total/NA	Ground Water	3010A	
490-49164-8	GW-062027-032014-SS-MW-8	Total/NA	Ground Water	3010A	
LCS 490-150395/2-A	Lab Control Sample	Total/NA	Water	3010A	
MB 490-150395/1-A	Method Blank	Total/NA	Water	3010A	

### Analysis Batch: 152007

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-48963-G-1-B MS	Matrix Spike	Total/NA	Water	6020A	150395
490-48963-G-1-C MSD	Matrix Spike Duplicate	Total/NA	Water	6020A	150395
490-49164-1	GW-062027-032014-SS-MW-1	Total/NA	Ground Water	6020A	150395
490-49164-2	GW-062027-032014-SS-MW-2	Total/NA	Ground Water	6020A	150395
490-49164-3	GW-062027-032014-SS-MW-3	Total/NA	Ground Water	6020A	150395
490-49164-4	GW-062027-032014-SS-MW-4	Total/NA	Ground Water	6020A	150395
490-49164-5	GW-062027-032014-SS-MW-5	Total/NA	Ground Water	6020A	150395
490-49164-6	GW-062027-032014-SS-MW-6	Total/NA	Ground Water	6020A	150395
490-49164-7	GW-062027-032014-SS-MW-7	Total/NA	Ground Water	6020A	150395
490-49164-8	GW-062027-032014-SS-MW-8	Total/NA	Ground Water	6020A	150395
LCS 490-150395/2-A	Lab Control Sample	Total/NA	Water	6020A	150395
MB 490-150395/1-A	Method Blank	Total/NA	Water	6020A	150395

## Lab Chronicle

Client: Conestoga-Rovers & Associates, Inc.  
 Project/Site: 200 Railroad Ave S, Ellensburg, WA

TestAmerica Job ID: 490-49164-1  
 SDG: SAP# / 062027

**Client Sample ID: GW-062027-032014-SS-MW-1**

**Lab Sample ID: 490-49164-1**

**Date Collected: 03/20/14 10:15**

**Matrix: Ground Water**

**Date Received: 03/24/14 08:30**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	10 mL	10 mL	150946	03/28/14 16:02	BJM	TAL NSH
Total/NA	Analysis	NWTPH-Gx		1	5 mL	5 mL	151447	03/31/14 16:28	GWM	TAL NSH
Total/NA	Prep	8011			35 mL	2 mL	150411	03/26/14 12:15	SCS	TAL NSH
Total/NA	Analysis	8011		1	35 mL	2 mL	150297	03/26/14 17:19	SCS	TAL NSH
Total/NA	Prep	3510C			1070 mL	1 mL	150984	03/28/14 09:02	CLH	TAL NSH
Total/NA	Analysis	NWTPH-Dx		1	1070 mL	1 mL	151229	03/29/14 13:41	GMH	TAL NSH
Total/NA	Prep	3510C			1070 mL	1 mL	150984	03/28/14 09:02	CLH	TAL NSH
Total/NA	Analysis	NWTPH-Dx		1	1070 mL	1 mL	151297	03/29/14 17:18	GMH	TAL NSH
Total/NA	Prep	3010A			50 mL	50 mL	150395	03/26/14 11:46	JBD	TAL NSH
Total/NA	Analysis	6020A		1	50 mL	50 mL	152007	04/02/14 03:30	BWW	TAL NSH

**Client Sample ID: GW-062027-032014-SS-MW-2**

**Lab Sample ID: 490-49164-2**

**Date Collected: 03/20/14 11:15**

**Matrix: Ground Water**

**Date Received: 03/24/14 08:30**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	10 mL	10 mL	150472	03/27/14 15:22		TAL NSH
Total/NA	Analysis	NWTPH-Gx		1	5 mL	5 mL	151447	03/31/14 16:58	GWM	TAL NSH
Total/NA	Prep	8011			35.1 mL	2 mL	150411	03/26/14 12:15	SCS	TAL NSH
Total/NA	Analysis	8011		1	35.1 mL	2 mL	150297	03/26/14 17:36	SCS	TAL NSH
Total/NA	Prep	3510C			1070 mL	1 mL	150984	03/28/14 09:02	CLH	TAL NSH
Total/NA	Analysis	NWTPH-Dx		1	1070 mL	1 mL	151229	03/29/14 14:11	GMH	TAL NSH
Total/NA	Prep	3510C			1070 mL	1 mL	150984	03/28/14 09:02	CLH	TAL NSH
Total/NA	Analysis	NWTPH-Dx		1	1070 mL	1 mL	151297	03/29/14 17:49	GMH	TAL NSH
Total/NA	Prep	3010A			50 mL	50 mL	150395	03/26/14 11:46	JBD	TAL NSH
Total/NA	Analysis	6020A		1	50 mL	50 mL	152007	04/02/14 03:35	BWW	TAL NSH

**Client Sample ID: GW-062027-032014-SS-MW-3**

**Lab Sample ID: 490-49164-3**

**Date Collected: 03/20/14 11:50**

**Matrix: Ground Water**

**Date Received: 03/24/14 08:30**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	10 mL	10 mL	150472	03/27/14 15:49		TAL NSH
Total/NA	Analysis	NWTPH-Gx		1	5 mL	5 mL	151447	03/31/14 17:29	GWM	TAL NSH
Total/NA	Prep	8011			34.9 mL	2 mL	150411	03/26/14 12:15	SCS	TAL NSH
Total/NA	Analysis	8011		1	34.9 mL	2 mL	150297	03/26/14 17:53	SCS	TAL NSH
Total/NA	Prep	3510C			1070 mL	1 mL	150984	03/28/14 09:02	CLH	TAL NSH
Total/NA	Analysis	NWTPH-Dx		1	1070 mL	1 mL	151229	03/29/14 14:27	GMH	TAL NSH
Total/NA	Prep	3510C			1070 mL	1 mL	150984	03/28/14 09:02	CLH	TAL NSH
Total/NA	Analysis	NWTPH-Dx		1	1070 mL	1 mL	151297	03/29/14 18:04	GMH	TAL NSH
Total/NA	Prep	3010A			50 mL	50 mL	150395	03/26/14 11:46	JBD	TAL NSH
Total/NA	Analysis	6020A		1	50 mL	50 mL	152007	04/02/14 03:40	BWW	TAL NSH

TestAmerica Nashville

# Lab Chronicle

Client: Conestoga-Rovers & Associates, Inc.  
 Project/Site: 200 Railroad Ave S, Ellensburg, WA

TestAmerica Job ID: 490-49164-1  
 SDG: SAP# / 062027

**Client Sample ID: GW-062027-032014-SS-MW-4**

**Lab Sample ID: 490-49164-4**

Date Collected: 03/20/14 12:45

Matrix: Ground Water

Date Received: 03/24/14 08:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	10 mL	10 mL	150472	03/27/14 16:17		TAL NSH
Total/NA	Analysis	NWTPH-Gx		5	5 mL	5 mL	151447	03/31/14 18:00	GWM	TAL NSH
Total/NA	Prep	8011			34.8 mL	2 mL	150411	03/26/14 12:15	SCS	TAL NSH
Total/NA	Analysis	8011		1	34.8 mL	2 mL	150297	03/26/14 18:45	SCS	TAL NSH
Total/NA	Prep	3510C			1070 mL	1 mL	150984	03/28/14 09:02	CLH	TAL NSH
Total/NA	Analysis	NWTPH-Dx		1	1070 mL	1 mL	151229	03/29/14 14:43	GMH	TAL NSH
Total/NA	Prep	3510C			1070 mL	1 mL	150984	03/28/14 09:02	CLH	TAL NSH
Total/NA	Analysis	NWTPH-Dx		1	1070 mL	1 mL	151297	03/29/14 18:19	GMH	TAL NSH
Total/NA	Prep	3010A			50 mL	50 mL	150395	03/26/14 11:46	JBD	TAL NSH
Total/NA	Analysis	6020A		1	50 mL	50 mL	152007	04/02/14 03:45	BWW	TAL NSH

**Client Sample ID: GW-062027-032014-SS-MW-5**

**Lab Sample ID: 490-49164-5**

Date Collected: 03/20/14 13:25

Matrix: Ground Water

Date Received: 03/24/14 08:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	10 mL	10 mL	150472	03/27/14 16:43		TAL NSH
Total/NA	Analysis	NWTPH-Gx		1	5 mL	5 mL	151447	03/31/14 18:31	GWM	TAL NSH
Total/NA	Prep	8011			34.2 mL	2 mL	150411	03/26/14 12:15	SCS	TAL NSH
Total/NA	Analysis	8011		1	34.2 mL	2 mL	150297	03/26/14 19:02	SCS	TAL NSH
Total/NA	Prep	3510C			1070 mL	1 mL	150984	03/28/14 09:02	CLH	TAL NSH
Total/NA	Analysis	NWTPH-Dx		1	1070 mL	1 mL	151229	03/29/14 14:58	GMH	TAL NSH
Total/NA	Prep	3510C			1070 mL	1 mL	150984	03/28/14 09:02	CLH	TAL NSH
Total/NA	Analysis	NWTPH-Dx		1	1070 mL	1 mL	151297	03/29/14 18:35	GMH	TAL NSH
Total/NA	Prep	3010A			50 mL	50 mL	150395	03/26/14 11:46	JBD	TAL NSH
Total/NA	Analysis	6020A		1	50 mL	50 mL	152007	04/02/14 03:50	BWW	TAL NSH

**Client Sample ID: GW-062027-032014-SS-MW-6**

**Lab Sample ID: 490-49164-6**

Date Collected: 03/20/14 14:10

Matrix: Ground Water

Date Received: 03/24/14 08:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	10 mL	10 mL	150472	03/27/14 17:11		TAL NSH
Total/NA	Analysis	NWTPH-Gx		1	5 mL	5 mL	151447	03/31/14 19:01	GWM	TAL NSH
Total/NA	Prep	8011			35.2 mL	2 mL	150411	03/26/14 12:15	SCS	TAL NSH
Total/NA	Analysis	8011		1	35.2 mL	2 mL	150297	03/26/14 19:19	SCS	TAL NSH
Total/NA	Prep	3510C			1070 mL	1 mL	150984	03/28/14 09:02	CLH	TAL NSH
Total/NA	Analysis	NWTPH-Dx		1	1070 mL	1 mL	151229	03/29/14 15:14	GMH	TAL NSH
Total/NA	Prep	3510C			1070 mL	1 mL	150984	03/28/14 09:02	CLH	TAL NSH
Total/NA	Analysis	NWTPH-Dx		1	1070 mL	1 mL	151297	03/29/14 18:50	GMH	TAL NSH
Total/NA	Prep	3010A			50 mL	50 mL	150395	03/26/14 11:46	JBD	TAL NSH
Total/NA	Analysis	6020A		1	50 mL	50 mL	152007	04/02/14 04:05	BWW	TAL NSH

TestAmerica Nashville

# Lab Chronicle

Client: Conestoga-Rovers & Associates, Inc.  
 Project/Site: 200 Railroad Ave S, Ellensburg, WA

TestAmerica Job ID: 490-49164-1  
 SDG: SAP# / 062027

**Client Sample ID: GW-062027-032014-SS-MW-7**

**Lab Sample ID: 490-49164-7**

**Date Collected: 03/20/14 14:45**

**Matrix: Ground Water**

**Date Received: 03/24/14 08:30**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	10 mL	10 mL	150472	03/27/14 17:38		TAL NSH
Total/NA	Analysis	NWTPH-Gx		1	5 mL	5 mL	151447	03/31/14 19:32	GWM	TAL NSH
Total/NA	Prep	8011			34.3 mL	2 mL	150411	03/26/14 12:15	SCS	TAL NSH
Total/NA	Analysis	8011		1	34.3 mL	2 mL	150297	03/26/14 19:37	SCS	TAL NSH
Total/NA	Prep	3510C			1070 mL	1 mL	150984	03/28/14 09:02	CLH	TAL NSH
Total/NA	Analysis	NWTPH-Dx		1	1070 mL	1 mL	151229	03/29/14 15:29	GMH	TAL NSH
Total/NA	Prep	3510C			1070 mL	1 mL	150984	03/28/14 09:02	CLH	TAL NSH
Total/NA	Analysis	NWTPH-Dx		1	1070 mL	1 mL	151297	03/29/14 19:05	GMH	TAL NSH
Total/NA	Prep	3010A			50 mL	50 mL	150395	03/26/14 11:46	JBD	TAL NSH
Total/NA	Analysis	6020A		1	50 mL	50 mL	152007	04/02/14 04:10	BWW	TAL NSH

**Client Sample ID: GW-062027-032014-SS-MW-8**

**Lab Sample ID: 490-49164-8**

**Date Collected: 03/20/14 15:35**

**Matrix: Ground Water**

**Date Received: 03/24/14 08:30**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	10 mL	10 mL	150472	03/27/14 18:05		TAL NSH
Total/NA	Analysis	NWTPH-Gx		1	5 mL	5 mL	151447	03/31/14 20:03	GWM	TAL NSH
Total/NA	Prep	8011			34.4 mL	2 mL	150411	03/26/14 12:15	SCS	TAL NSH
Total/NA	Analysis	8011		10	34.4 mL	2 mL	150297	03/26/14 22:13	SCS	TAL NSH
Total/NA	Prep	8011			34.4 mL	2 mL	150411	03/26/14 12:15	SCS	TAL NSH
Total/NA	Analysis	8011		50	34.4 mL	2 mL	150297	03/27/14 08:59	SCS	TAL NSH
Total/NA	Prep	3510C			1070 mL	1 mL	150984	03/28/14 09:02	CLH	TAL NSH
Total/NA	Analysis	NWTPH-Dx		1	1070 mL	1 mL	151229	03/29/14 15:45	GMH	TAL NSH
Total/NA	Prep	3510C			1070 mL	1 mL	150984	03/28/14 09:02	CLH	TAL NSH
Total/NA	Analysis	NWTPH-Dx		1	1070 mL	1 mL	151297	03/29/14 19:21	GMH	TAL NSH
Total/NA	Prep	3010A			50 mL	50 mL	150395	03/26/14 11:46	JBD	TAL NSH
Total/NA	Analysis	6020A		1	50 mL	50 mL	152007	04/02/14 04:15	BWW	TAL NSH

**Laboratory References:**

TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Drive, Nashville, TN 37204, TEL (615)726-0177

# Method Summary

Client: Conestoga-Rovers & Associates, Inc.  
Project/Site: 200 Railroad Ave S, Ellensburg, WA

TestAmerica Job ID: 490-49164-1  
SDG: SAP# / 062027

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL NSH
NWTPH-Gx	Northwest - Volatile Petroleum Products (GC)	NWTPH	TAL NSH
8011	EDB, DBCP, and 1,2,3-TCP (GC)	SW846	TAL NSH
NWTPH-Dx	Semi-Volatile Petroleum Products by NWTPH with Silica Gel Cleanup	NWTPH	TAL NSH
NWTPH-Dx	Northwest - Semi-Volatile Petroleum Products (GC)	NWTPH	TAL NSH
6020A	Metals (ICP/MS)	SW846	TAL NSH

**Protocol References:**

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 NSH = TestAmerica Nashville, 2960 Foster Creighton Drive, Nashville, TN 37204, TEL (615)726-0177



# Certification Summary

Client: Conestoga-Rovers & Associates, Inc.  
Project/Site: 200 Railroad Ave S, Ellensburg, WA

TestAmerica Job ID: 490-49164-1  
SDG: SAP# / 062027

## Laboratory: TestAmerica Nashville

The certifications listed below are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Washington	State Program	10	C789	07-19-14

1

2

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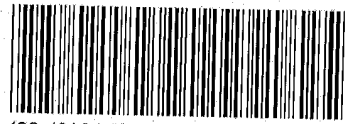
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13

## COOLER RECEIPT FORM



490-49154 Chain of Custody

Cooler Received/Opened On 3/24/2014 @ 0830

1. Tracking # 7101 (last 4 digits, FedEx)

Courier: FedEx IR Gun ID Raynger

2. Temperature of rep. sample or temp blank when opened: 1.7 Degrees Celsius

3. If item #2 temperature is 0°C or less, was the representative sample or temp blank frozen? YES NO... NA

4. Were custody seals on outside of cooler?  YES...NO...NA

If yes, how many and where: 1 front

5. Were the seals intact, signed, and dated correctly?  YES...NO...NA

6. Were custody papers inside cooler?  YES...NO...NA

I certify that I opened the cooler and answered questions 1-6 (initial) DS

7. Were custody seals on containers: YES  NO and Intact YES...NO... NA

Were these signed and dated correctly? YES...NO... NA

8. Packing mat'l used?  Bubblewrap Plastic bag Peanuts Vermiculite Foam Insert Paper Other None

9. Cooling process:  Ice Ice-pack Ice (direct contact) Dry ice Other None

10. Did all containers arrive in good condition (unbroken)?  YES...NO...NA

11. Were all container labels complete (#, date, signed, pres., etc)?  YES...NO...NA

12. Did all container labels and tags agree with custody papers?  YES...NO...NA

13a. Were VOA vials received? YES... NO...NA

b. Was there any observable headspace present in any VOA vial? YES...NO... NA

14. Was there a Trip Blank in this cooler? YES...NO... NA If multiple coolers, sequence # NA

I certify that I unloaded the cooler and answered questions 7-14 (initial) DS

15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? YES..NO.. NA

b. Did the bottle labels indicate that the correct preservatives were used  YES...NO...NA

16. Was residual chlorine present? YES...NO... NA

I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (initial) DS

17. Were custody papers properly filled out (ink, signed, etc)?  YES...NO...NA

18. Did you sign the custody papers in the appropriate place?  YES...NO...NA

19. Were correct containers used for the analysis requested?  YES...NO...NA

20. Was sufficient amount of sample sent in each container?  YES...NO...NA

I certify that I entered this project into LIMS and answered questions 17-20 (initial) DS

I certify that I attached a label with the unique LIMS number to each container (initial) DS

21. Were there Non-Conformance issues at login? YES... NO Was a NCM generated? YES... NO..#



Litus



## COOLER RECEIPT FORM

Cooler Received/Opened On 3/22/2014 @ 0820

1. Tracking # 7042 (last 4 digits, FedEx)

Courier: Fedex IR Gun ID 17960358

2. Temperature of rep. sample or temp blank when opened: 1.8 Degrees Celsius

3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen? YES NO (NA)

4. Were custody seals on outside of cooler? (YES)...NO...NA

If yes, how many and where: 1 front

5. Were the seals intact, signed, and dated correctly? (YES)...NO...NA

6. Were custody papers inside cooler? (YES)...NO...NA

I certify that I opened the cooler and answered questions 1-6 (initial) EVA

7. Were custody seals on containers: YES (NO) and Intact YES...NO...(NA)

Were these signed and dated correctly? YES...NO...(NA)

8. Packing mat'l used? Bubblewrap Plastic bag Peanuts Vermiculite Foam Insert Paper Other None

9. Cooling process: (Ice) Ice-pack Ice (direct contact) Dry ice Other None

10. Did all containers arrive in good condition (unbroken)? (YES)...NO...NA

11. Were all container labels complete (#, date, signed, pres., etc)? (YES)...NO...NA

12. Did all container labels and tags agree with custody papers? (YES)...NO...NA

13a. Were VOA vials received? YES...(NO)...NA

b. Was there any observable headspace present in any VOA vial? YES...NO...(NA)

14. Was there a Trip Blank in this cooler? YES...NO...(NA) If multiple coolers, sequence # NA

I certify that I unloaded the cooler and answered questions 7-14 (initial) B

15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? YES...NO...(NA)

b. Did the bottle labels indicate that the correct preservatives were used (YES)...NO...NA

16. Was residual chlorine present? YES...NO...(NA)

I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (initial) V7

17. Were custody papers properly filled out (ink, signed, etc)? (YES)...NO...NA

18. Did you sign the custody papers in the appropriate place? (YES)...NO...NA

19. Were correct containers used for the analysis requested? (YES)...NO...NA

20. Was sufficient amount of sample sent in each container? (YES)...NO...NA

I certify that I entered this project into LIMS and answered questions 17-20 (initial) M

I certify that I attached a label with the unique LIMS number to each container (initial) D

21. Were there Non-Conformance issues at login? YES...(NO) Was a NCM generated? YES...(NO)...#

## COOLER RECEIPT FORM

Loc: 490  
49164

Cooler Received/Opened On 3/24/2014 @ 0830

1. Tracking # 7064 (last 4 digits, FedEx)

Courier: FedEx IR Gun ID Raynger

2. Temperature of rep. sample or temp blank when opened: 2-2 Degrees Celsius

3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen? YES NO...NA *ms 3/24/14*

4. Were custody seals on outside of cooler? (front) YES...NO...NA

If yes, how many and where: \_\_\_\_\_

5. Were the seals intact, signed, and dated correctly? YES...NO...NA

6. Were custody papers inside cooler? YES...NO...NA

I certify that I opened the cooler and answered questions 1-6 (initial) D

7. Were custody seals on containers: YES NO and intact YES...NO...NA

Were these signed and dated correctly? YES...NO...NA

8. Packing mat'l used? Bubblewrap Plastic bag Peanuts Vermiculite Foam Insert Paper Other None *Lites*

9. Cooling process: (ice) Ice-pack Ice (direct contact) Dry ice Other None

10. Did all containers arrive in good condition (unbroken)? YES...NO...NA

11. Were all container labels complete (#, date, signed, pres., etc)? YES...NO...NA

12. Did all container labels and tags agree with custody papers? YES...NO...NA

13a. Were VOA vials received? YES...NO...NA

b. Was there any observable headspace present in any VOA vial? YES...NO...NA

14. Was there a Trip Blank in this cooler? YES...NO...NA If multiple coolers, sequence # NA

I certify that I unloaded the cooler and answered questions 7-14 (initial) D

15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? YES...NO...NA

b. Did the bottle labels indicate that the correct preservatives were used YES...NO...NA

16. Was residual chlorine present? YES...NO...NA

I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (initial) D

17. Were custody papers properly filled out (ink, signed, etc)? YES...NO...NA

18. Did you sign the custody papers in the appropriate place? YES...NO...NA

19. Were correct containers used for the analysis requested? YES...NO...NA

20. Was sufficient amount of sample sent in each container? YES...NO...NA

I certify that I entered this project into LIMS and answered questions 17-20 (initial) D

I certify that I attached a label with the unique LIMS number to each container (initial) D

21. Were there Non-Conformance issues at login? YES...NO Was a NCM generated? YES...NO...# \_\_\_\_\_

## COOLER RECEIPT FORM

Loc: 490  
**49164**

Cooler Received/Opened On 3/24/2014 @ 0830

1. Tracking # 7097 (last 4 digits, FedEx)

Courier: FedEx IR Gun ID Raynger

2. Temperature of rep. sample or temp blank when opened: 1.3 Degrees Celsius

3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen? YES NO... NA

4. Were custody seals on outside of cooler?  YES...NO...NA  
If yes, how many and where: (1 front)

5. Were the seals intact, signed, and dated correctly?  YES...NO...NA

6. Were custody papers inside cooler?  YES...NO...NA

I certify that I opened the cooler and answered questions 1-6 (initial)

7. Were custody seals on containers: YES  NO and Intact YES...NO... NA  
Were these signed and dated correctly? YES...NO... NA

8. Packing mat'l used? Bubblewrap Plastic bag Peanuts Vermiculite Foam Insert Paper Other None

9. Cooling process: Ice Ice-pack Ice (direct contact) Dry ice Other None

10. Did all containers arrive in good condition (unbroken)? YES... NO...NA

11. Were all container labels complete (#, date, signed, pres., etc)?  YES...NO...NA

12. Did all container labels and tags agree with custody papers?  YES...NO...NA

13a. Were VOA vials received?  YES...NO...NA

b. Was there any observable headspace present in any VOA vial? YES... NO...NA

14. Was there a Trip Blank in this cooler?  YES...NO...NA If multiple coolers, sequence # NA

I certify that I unloaded the cooler and answered questions 7-14 (initial)

15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? YES...NO... NA

b. Did the bottle labels indicate that the correct preservatives were used  YES...NO...NA

16. Was residual chlorine present? YES...NO... NA

I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (initial)

17. Were custody papers properly filled out (ink, signed, etc)?  YES...NO...NA

18. Did you sign the custody papers in the appropriate place?  YES...NO...NA

19. Were correct containers used for the analysis requested?  YES...NO...NA

20. Was sufficient amount of sample sent in each container?  YES...NO...NA

I certify that I entered this project into LIMS and answered questions 17-20 (initial)

I certify that I attached a label with the unique LIMS number to each container (initial)

21. Were there Non-Conformance issues at login? YES... NO Was a NCM generated? YES... NO...#

*L-ites/plustes*

*2 L-ites  
new-4  
new-5* *1 each*

## COOLER RECEIPT FORM

Loc: 490  
49164

Cooler Received/Opened On 3/24/2014 @ 0830

1. Tracking # 7086 (last 4 digits, FedEx)

Courier: FedEx IR Gun ID Raynger

2. Temperature of rep. sample or temp blank when opened: 2.3 Degrees Celsius

3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen? YES NO...NA

4. Were custody seals on outside of cooler? YES...NO...NA  
If yes, how many and where: 1 front

5. Were the seals intact, signed, and dated correctly? YES...NO...NA

6. Were custody papers inside cooler? YES...NO...NA

I certify that I opened the cooler and answered questions 1-6 (initial) M

7. Were custody seals on containers: YES NO and intact YES...NO...NA  
Were these signed and dated correctly? YES...NO...NA

8. Packing mat'l used? Bubblewrap Plastic bag Peanuts Vermiculite Foam Insert Paper Other None

9. Cooling process: Ice Ice-pack Ice (direct contact) Dry ice Other None

10. Did all containers arrive in good condition (unbroken)? YES...NO...NA

11. Were all container labels complete (#, date, signed, pres., etc)? YES...NO...NA

12. Did all container labels and tags agree with custody papers? YES...NO...NA

13a. Were VOA vials received? YES...NO...NA

b. Was there any observable headspace present in any VOA vial? YES...NO...NA

14. Was there a Trip Blank in this cooler? YES...NO...NA If multiple coolers, sequence # N/A

I certify that I unloaded the cooler and answered questions 7-14 (initial) D

15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? YES...NO...NA

b. Did the bottle labels indicate that the correct preservatives were used YES...NO...NA

16. Was residual chlorine present? YES...NO...NA

I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (initial) V

17. Were custody papers properly filled out (ink, signed, etc)? YES...NO...NA

18. Did you sign the custody papers in the appropriate place? YES...NO...NA

19. Were correct containers used for the analysis requested? YES...NO...NA

20. Was sufficient amount of sample sent in each container? YES...NO...NA

I certify that I entered this project into LIMS and answered questions 17-20 (initial) M

I certify that I attached a label with the unique LIMS number to each container (initial) A

21. Were there Non-Conformance issues at login? YES...NO Was a NCM generated? YES...NO...#

### Shell Oil Products Chain Of Custody Record

**LAB (LOCATION)**

CALSCIENCE ( )

SPL Houston ( )

XENCO ( )

TEST AMERICA ( )

OTHER ( )

Please Check Appropriate Box:

ENV. SERVICES       MOTIVA RETAIL       SHELL RETAIL

MOTIVA SD&CM       CONSULTANT       LUBES

SHELL PIPELINE       OTHER

**Print Bill To Contact Name:** Brian Peters- 062027

**INCIDENT # (ENV SERVICES):** 7 9 7 0 4 4 7

**PO #**      **SAP #**

CHECK IF NO INCIDENT # APPLIES

DATE: 3/20/14

PAGE: 1 of 1

**SAMPLING COMPANY:** Blaine Tech Services

LOG CODE: \_\_\_\_\_

**SITE ADDRESS: Street and City:** 200 Railroad Ave S - Ellensburg

**State:** WA      **GLOBAL ID NO.:** NA

**ADDRESS:** 20735 Belshaw Avenue, Carson, CA 90746

**EDF DELIVERABLE TO (Name, Company, Office Location):** CRA, Seattle, WA

**PHONE NO.:** 425-563-6500

**E-MAIL:** Shell-US-LabDataManagement@CRAworld.com

**CONSULTANT PROJECT NO.:**

**PROJECT CONTACT (Hardcopy or PDF Report to):** Lorin King

**SAMPLER NAME(S) (Print):** Seah Sarmiento

**LAB USE ONLY**

**TELEPHONE:** (310) 885-4455 x 108      (310) 637-5802

**FAX:**      **E-MAIL:** lking@blainetech.com

**TURNAROUND TIME (CALENDAR DAYS):**

STANDARD (14 DAY)     5 DAYS     3 DAYS     2 DAYS     24 HOURS     RESULTS NEEDED ON WEEKEND

**REQUESTED ANALYSIS**

LA - RWQCB REPORT FORMAT     UST AGENCY:

**SPECIAL INSTRUCTIONS OR NOTES:**

1) Please upload the "CRA EQUIS 4-file EDD" to the CRA Website (http://cralabedupload.craworld.com/equis/default.aspx) and/or send it to the Shell-US-LabDataManagement@CRAworld.com email folder. 2) Please indicate that you have uploaded the EDD by including "EDD Uploaded to CRA website" in the email used to deliver the final PDF report to the Shell-US-LabDataManagement@CRAworld.com email folder.

SHELL CONTRACT RATE APPLIES

STATE REIMBURSEMENT RATE APPLIES

EDD NOT NEEDED

RECEIPT VERIFICATION REQUESTED

TEMPERATURE ON RECEIPT C°
Container PID Readings or Laboratory Notes

Copy final report to Shell.Lab.Billing@craworld.com, Shell.results@craworld.com, and Shell-US-LabDataManagement@CRAworld.com

Email invoice to Shell.Lab.Billing@craworld.com

See Laboratory PM for WA Dept. of Ecology MTCA Method A cleanup levels for minimum detection limits.

LAB USE ONLY	SAMPLE ID						MATRIX	PRESERVATIVE					NO. OF CONT.	NITPH-GX	NITPH-DX w/Silica Gel Cleanup (8260B)	BTEX (8260B)	6 Oxygenates, MTBE, TBA, DIPE, TAME, ETBE (8260B)	EDC (8260B)	EDB	NITPH-DX w/o Silica Gel Cleanup	Nitrate/Nitrite by 363.2	Dissolved CO2 by SM4500CO2C	Dissolved Methane by RSK-175	Full Scan VOC's by 8260	Alkalinity by SM2320B	Dissolved Iron (Ferrous)	Manganese by 6010/6020	TPH-O	MTBE (8260B)	Dissolved Lead by 6020	Total Lead			
	PROJECT NUMBER	DATE (MMDDYY)	SAMPLER INITIALS	WELL ID	TIME	HCL		HNO3	H2SO4	NONE	OTHER																							
1	GW	062027	032014	SS	MW-1	1015	WG	X	X			11	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
2	GW	062027	032014	SS	MW-2	1115		X	X			11	X	X	Y	X	X	Y							X									
3	GW	062027	032014	SS	MW-3	1150		X	X			11	X	X	X	X	X	Y							X									
4	GW	062027	032014	SS	MW-4	1248		X	X			11	X	X	Y	X	X	Y							X									
5	GW	062027	032014	SS	MW-5	1325		X	X			11	X	X	X	X	X	Y							X									
6	GW	062027	032014	SS	MW-6	1410		X	X			11	X	X	X	X	X	Y							X									
7	GW	062027	032014	SS	MW-7	1445		X	X			11	X	X	X	X	X	Y							X									
8	GW	062027	032014	SS	MW-8	1535		X	X			11	X	X	X	X	X	Y							X									

Matrix Codes - WG (groundwater), WS (surface water), WP (drinking water source), W (Trip or Temp Blank)
---

Loc: 490  
49164

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
	Shipped via FedEx	3/21/14	
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
	MAU	3/24/14	1.7/1.8/1.2/1.3/1.3
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
	0830		

## Login Sample Receipt Checklist

Client: Conestoga-Rovers & Associates, Inc.

Job Number: 490-49164-1

SDG Number: SAP# / 062027

**Login Number: 49164**

**List Number: 1**

**Creator: Buckingham, Paul**

**List Source: TestAmerica Nashville**

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



# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

## ANALYTICAL REPORT

TestAmerica Laboratories, Inc.  
TestAmerica Nashville  
2960 Foster Creighton Drive  
Nashville, TN 37204  
Tel: (615)726-0177

TestAmerica Job ID: 490-53894-1  
TestAmerica Sample Delivery Group: SAP# / 062027  
Client Project/Site: 200 Railroad Ave S - Ellensburg

For:  
Conestoga-Rovers & Associates, Inc.  
20818 44th Ave W  
Suite 190  
Lynnwood, Washington 98036

Attn: Brian Peters

*Roxanne L Connor*

Authorized for release by:  
6/11/2014 5:44:38 PM

Roxanne Connor, Senior Project Manager  
(615)301-5761  
[roxanne.connor@testamericainc.com](mailto:roxanne.connor@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: Conestoga-Rovers & Associates, Inc.  
Project/Site: 200 Railroad Ave S - Ellensburg

TestAmerica Job ID: 490-53894-1  
SDG: SAP# / 062027

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
490-53894-1	GW-062027-052214-LB-MW-1	Ground Water	05/22/14 10:02	05/24/14 08:20
490-53894-2	GW-062027-052214-LB-MW-2	Ground Water	05/22/14 10:44	05/24/14 08:20
490-53894-3	GW-062027-052214-LB-MW-3	Ground Water	05/22/14 11:23	05/24/14 08:20
490-53894-4	GW-062027-052214-LB-MW-4	Ground Water	05/22/14 12:04	05/24/14 08:20
490-53894-5	GW-062027-052214-LB-MW-5	Ground Water	05/22/14 12:40	05/24/14 08:20
490-53894-6	GW-062027-052214-LB-MW-6	Ground Water	05/22/14 13:20	05/24/14 08:20
490-53894-7	GW-062027-052214-LB-MW-7	Ground Water	05/22/14 14:00	05/24/14 08:20
490-53894-8	GW-062027-052214-LB-MW-8	Ground Water	05/22/14 14:36	05/24/14 08:20



# Case Narrative

Client: Conestoga-Rovers & Associates, Inc.  
Project/Site: 200 Railroad Ave S - Ellensburg

TestAmerica Job ID: 490-53894-1  
SDG: SAP# / 062027

## Job ID: 490-53894-1

### Laboratory: TestAmerica Nashville

#### Narrative

#### Job Narrative 490-53894-1

#### Comments

No additional comments.

#### Receipt

The samples were received on 5/24/2014 8:20 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 4 coolers at receipt time were 1.7° C, 2.6° C, 3.9° C and 4.9° C.

#### GC/MS VOA

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

#### GC Semi VOA

Method(s) 8011: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate/sample duplicate (MS/MSD/DUP) associated with batch 165151.

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

#### VOA Prep

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

## Job ID: 490-53894-2

### Laboratory: TestAmerica Nashville

#### Narrative

#### Job Narrative 490-53894-2

#### GC VOA

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

#### GC Semi VOA

Method(s) NWTPH-Dx: The laboratory control sample (LCS) for batch 167171 recovered outside control limits for the following analytes: C10-C28. The associated sample(s) were re-prepared and/or re-analyzed outside holding time with concurring results. The original data is commented and reported.

Method(s) NWTPH-Dx: The following sample(s) contained a hydrocarbon pattern which does not match a typical Total Petroleum Hydrocarbon (TPH) pattern used by the laboratory for quantitative purposes: GW-062027-052214-LB-MW-6 (490-53894-6).

Method(s) NWTPH-Dx: There was insufficient contamination present to perform a pattern match for the following sample(s): GW-062027-052214-LB-MW-1 (490-53894-1).

Method(s) NWTPH-Dx: The following sample(s) contained an unidentified mixture of hydrocarbons: GW-062027-052214-LB-MW-6 (490-53894-6). No match was identified in the laboratory's reference library.

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

#### Metals

Method(s) 6020A: The following sample(s) was diluted due to the nature of the sample matrix (low internal standard recoveries): (490-53894-1 MS), (490-53894-1 MSD), GW-062027-052214-LB-MW-1 (490-53894-1), GW-062027-052214-LB-MW-2 (490-53894-2), GW-062027-052214-LB-MW-3 (490-53894-3), GW-062027-052214-LB-MW-4 (490-53894-4), GW-062027-052214-LB-MW-5 (490-53894-5), GW-062027-052214-LB-MW-6 (490-53894-6), GW-062027-052214-LB-MW-7 (490-53894-7), GW-062027-052214-LB-MW-8 (490-53894-8). Elevated reporting limits (RLs) are provided.

## Case Narrative

Client: Conestoga-Rovers & Associates, Inc.  
Project/Site: 200 Railroad Ave S - Ellensburg

TestAmerica Job ID: 490-53894-1  
SDG: SAP# / 062027

---

### Job ID: 490-53894-2 (Continued)

---

#### Laboratory: TestAmerica Nashville (Continued)

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

#### Organic Prep

Method(s) 3510C: Insufficient sample volume was available to perform a sample duplicate (DUP) associated with batch 168003.

Method(s) 3510C: The following sample(s) formed emulsions during the extraction procedure: (490-53894-1 DU), GW-062027-052214-LB-MW-1 (490-53894-1), GW-062027-052214-LB-MW-4 (490-53894-4), GW-062027-052214-LB-MW-8 (490-53894-8). The emulsions were broken up using centrifugation.

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

#### VOA Prep

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



## Definitions/Glossary

Client: Conestoga-Rovers & Associates, Inc.  
Project/Site: 200 Railroad Ave S - Ellensburg

TestAmerica Job ID: 490-53894-1  
SDG: SAP# / 062027

### Qualifiers

#### GC Semi VOA

Qualifier	Qualifier Description
*	LCS or LCSD 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
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

# Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
 Project/Site: 200 Railroad Ave S - Ellensburg

TestAmerica Job ID: 490-53894-1  
 SDG: SAP# / 062027

**Client Sample ID: GW-062027-052214-LB-MW-1**

**Lab Sample ID: 490-53894-1**

Date Collected: 05/22/14 10:02

Matrix: Ground Water

Date Received: 05/24/14 08:20

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane	ND		1.00		ug/L			06/02/14 20:37	1
Benzene	ND		1.00		ug/L			06/02/14 20:37	1
Ethylbenzene	ND		1.00		ug/L			06/02/14 20:37	1
Toluene	ND		1.00		ug/L			06/02/14 20:37	1
Xylenes, Total	ND		2.00		ug/L			06/02/14 20:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		70 - 130		06/02/14 20:37	1
4-Bromofluorobenzene (Surr)	95		70 - 130		06/02/14 20:37	1
Dibromofluoromethane (Surr)	107		70 - 130		06/02/14 20:37	1
Toluene-d8 (Surr)	95		70 - 130		06/02/14 20:37	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C12	ND		100		ug/L			05/29/14 23:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	88		50 - 150		05/29/14 23:45	1

**Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylene Dibromide	ND		0.0201		ug/L		05/27/14 16:19	05/28/14 03:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,3-Dichlorobenzene	109		50 - 150	05/27/14 16:19	05/28/14 03:43	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C24	95.5	*	93.9		ug/L		06/05/14 14:35	06/07/14 19:59	1
C24-C40	ND		93.9		ug/L		06/05/14 14:35	06/07/14 19:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	82		50 - 150	06/05/14 14:35	06/07/14 19:59	1

**Method: NWTPH-Dx - Semi-Volatile Petroleum Products by NWTPH with Silica Gel Cleanup**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C24	ND	*	93.9		ug/L		06/05/14 14:35	06/08/14 12:36	1
C24-C40	ND		93.9		ug/L		06/05/14 14:35	06/08/14 12:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	72		50 - 150	06/05/14 14:35	06/08/14 12:36	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.0100		mg/L		06/06/14 15:19	06/10/14 15:37	5

# Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
 Project/Site: 200 Railroad Ave S - Ellensburg

TestAmerica Job ID: 490-53894-1  
 SDG: SAP# / 062027

**Client Sample ID: GW-062027-052214-LB-MW-2**

**Lab Sample ID: 490-53894-2**

Date Collected: 05/22/14 10:44

Matrix: Ground Water

Date Received: 05/24/14 08:20

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane	ND		1.00		ug/L			06/02/14 20:08	1
Benzene	ND		1.00		ug/L			06/02/14 20:08	1
Ethylbenzene	ND		1.00		ug/L			06/02/14 20:08	1
Toluene	ND		1.00		ug/L			06/02/14 20:08	1
Xylenes, Total	ND		2.00		ug/L			06/02/14 20:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105		70 - 130		06/02/14 20:08	1
4-Bromofluorobenzene (Surr)	96		70 - 130		06/02/14 20:08	1
Dibromofluoromethane (Surr)	105		70 - 130		06/02/14 20:08	1
Toluene-d8 (Surr)	95		70 - 130		06/02/14 20:08	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C12	ND		100		ug/L			05/30/14 00:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	80		50 - 150		05/30/14 00:44	1

**Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylene Dibromide	ND		0.0203		ug/L		05/27/14 16:19	05/28/14 04:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,3-Dichlorobenzene	93		50 - 150	05/27/14 16:19	05/28/14 04:01	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C24	ND	*	93.9		ug/L		06/05/14 14:35	06/07/14 20:30	1
C24-C40	ND		93.9		ug/L		06/05/14 14:35	06/07/14 20:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	81		50 - 150	06/05/14 14:35	06/07/14 20:30	1

**Method: NWTPH-Dx - Semi-Volatile Petroleum Products by NWTPH with Silica Gel Cleanup**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C24	ND	*	93.9		ug/L		06/05/14 14:35	06/08/14 13:06	1
C24-C40	ND		93.9		ug/L		06/05/14 14:35	06/08/14 13:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	83		50 - 150	06/05/14 14:35	06/08/14 13:06	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.0100		mg/L		06/06/14 15:19	06/10/14 15:52	5

# Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
 Project/Site: 200 Railroad Ave S - Ellensburg

TestAmerica Job ID: 490-53894-1  
 SDG: SAP# / 062027

**Client Sample ID: GW-062027-052214-LB-MW-3**

**Lab Sample ID: 490-53894-3**

Date Collected: 05/22/14 11:23

Matrix: Ground Water

Date Received: 05/24/14 08:20

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane	ND		1.00		ug/L			06/02/14 21:05	1
Benzene	ND		1.00		ug/L			06/02/14 21:05	1
Ethylbenzene	ND		1.00		ug/L			06/02/14 21:05	1
Toluene	ND		1.00		ug/L			06/02/14 21:05	1
Xylenes, Total	ND		2.00		ug/L			06/02/14 21:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105		70 - 130		06/02/14 21:05	1
4-Bromofluorobenzene (Surr)	93		70 - 130		06/02/14 21:05	1
Dibromofluoromethane (Surr)	108		70 - 130		06/02/14 21:05	1
Toluene-d8 (Surr)	95		70 - 130		06/02/14 21:05	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C12	ND		100		ug/L			05/30/14 01:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	84		50 - 150		05/30/14 01:13	1

**Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylene Dibromide	ND		0.0202		ug/L		05/27/14 16:19	05/28/14 04:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,3-Dichlorobenzene	125		50 - 150	05/27/14 16:19	05/28/14 04:18	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C24	ND	*	93.9		ug/L		06/05/14 14:35	06/07/14 20:45	1
C24-C40	ND		93.9		ug/L		06/05/14 14:35	06/07/14 20:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	83		50 - 150	06/05/14 14:35	06/07/14 20:45	1

**Method: NWTPH-Dx - Semi-Volatile Petroleum Products by NWTPH with Silica Gel Cleanup**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C24	ND	*	93.9		ug/L		06/05/14 14:35	06/08/14 13:22	1
C24-C40	ND		93.9		ug/L		06/05/14 14:35	06/08/14 13:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	84		50 - 150	06/05/14 14:35	06/08/14 13:22	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.0100		mg/L		06/06/14 15:19	06/10/14 15:57	5

# Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
 Project/Site: 200 Railroad Ave S - Ellensburg

TestAmerica Job ID: 490-53894-1  
 SDG: SAP# / 062027

**Client Sample ID: GW-062027-052214-LB-MW-4**

**Lab Sample ID: 490-53894-4**

Date Collected: 05/22/14 12:04

Matrix: Ground Water

Date Received: 05/24/14 08:20

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane	ND		1.00		ug/L			06/02/14 21:34	1
Benzene	ND		1.00		ug/L			06/02/14 21:34	1
Ethylbenzene	ND		1.00		ug/L			06/02/14 21:34	1
Toluene	ND		1.00		ug/L			06/02/14 21:34	1
Xylenes, Total	ND		2.00		ug/L			06/02/14 21:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	104		70 - 130		06/02/14 21:34	1
4-Bromofluorobenzene (Surr)	91		70 - 130		06/02/14 21:34	1
Dibromofluoromethane (Surr)	108		70 - 130		06/02/14 21:34	1
Toluene-d8 (Surr)	96		70 - 130		06/02/14 21:34	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C12	ND		100		ug/L			05/30/14 01:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	82		50 - 150		05/30/14 01:43	1

**Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylene Dibromide	ND		0.0203		ug/L		05/27/14 16:19	05/28/14 04:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,3-Dichlorobenzene	108		50 - 150	05/27/14 16:19	05/28/14 04:36	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C24	ND	*	94.8		ug/L		06/05/14 14:35	06/07/14 21:01	1
C24-C40	ND		94.8		ug/L		06/05/14 14:35	06/07/14 21:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	71		50 - 150	06/05/14 14:35	06/07/14 21:01	1

**Method: NWTPH-Dx - Semi-Volatile Petroleum Products by NWTPH with Silica Gel Cleanup**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C24	ND	*	94.8		ug/L		06/05/14 14:35	06/08/14 13:37	1
C24-C40	ND		94.8		ug/L		06/05/14 14:35	06/08/14 13:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	71		50 - 150	06/05/14 14:35	06/08/14 13:37	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.0100		mg/L		06/06/14 15:19	06/10/14 16:02	5



# Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
 Project/Site: 200 Railroad Ave S - Ellensburg

TestAmerica Job ID: 490-53894-1  
 SDG: SAP# / 062027

**Client Sample ID: GW-062027-052214-LB-MW-5**

**Lab Sample ID: 490-53894-5**

Date Collected: 05/22/14 12:40

Matrix: Ground Water

Date Received: 05/24/14 08:20

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane	ND		1.00		ug/L			06/02/14 22:03	1
Benzene	ND		1.00		ug/L			06/02/14 22:03	1
Ethylbenzene	ND		1.00		ug/L			06/02/14 22:03	1
Toluene	ND		1.00		ug/L			06/02/14 22:03	1
Xylenes, Total	ND		2.00		ug/L			06/02/14 22:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	104		70 - 130		06/02/14 22:03	1
4-Bromofluorobenzene (Surr)	93		70 - 130		06/02/14 22:03	1
Dibromofluoromethane (Surr)	105		70 - 130		06/02/14 22:03	1
Toluene-d8 (Surr)	94		70 - 130		06/02/14 22:03	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C12	ND		100		ug/L			05/30/14 02:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	85		50 - 150		05/30/14 02:13	1

**Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylene Dibromide	ND		0.0203		ug/L		05/27/14 16:19	05/28/14 04:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,3-Dichlorobenzene	87		50 - 150	05/27/14 16:19	05/28/14 04:54	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C24	ND	*	93.9		ug/L		06/05/14 14:35	06/07/14 21:16	1
C24-C40	ND		93.9		ug/L		06/05/14 14:35	06/07/14 21:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	89		50 - 150	06/05/14 14:35	06/07/14 21:16	1

**Method: NWTPH-Dx - Semi-Volatile Petroleum Products by NWTPH with Silica Gel Cleanup**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C24	ND	*	93.9		ug/L		06/05/14 14:35	06/08/14 13:52	1
C24-C40	ND		93.9		ug/L		06/05/14 14:35	06/08/14 13:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	93		50 - 150	06/05/14 14:35	06/08/14 13:52	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.0100		mg/L		06/06/14 15:19	06/10/14 16:07	5

# Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
 Project/Site: 200 Railroad Ave S - Ellensburg

TestAmerica Job ID: 490-53894-1  
 SDG: SAP# / 062027

**Client Sample ID: GW-062027-052214-LB-MW-6**

**Lab Sample ID: 490-53894-6**

Date Collected: 05/22/14 13:20

Matrix: Ground Water

Date Received: 05/24/14 08:20

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane	ND		1.00		ug/L			06/02/14 22:31	1
Benzene	ND		1.00		ug/L			06/02/14 22:31	1
Ethylbenzene	ND		1.00		ug/L			06/02/14 22:31	1
Toluene	ND		1.00		ug/L			06/02/14 22:31	1
Xylenes, Total	ND		2.00		ug/L			06/02/14 22:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	107		70 - 130		06/02/14 22:31	1
4-Bromofluorobenzene (Surr)	95		70 - 130		06/02/14 22:31	1
Dibromofluoromethane (Surr)	108		70 - 130		06/02/14 22:31	1
Toluene-d8 (Surr)	95		70 - 130		06/02/14 22:31	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C12	ND		100		ug/L			05/30/14 02:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	83		50 - 150		05/30/14 02:42	1

**Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylene Dibromide	ND		0.0202		ug/L		05/27/14 16:19	05/28/14 05:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,3-Dichlorobenzene	90		50 - 150	05/27/14 16:19	05/28/14 05:11	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C24	432	*	93.9		ug/L		06/05/14 14:35	06/07/14 21:32	1
C24-C40	ND		93.9		ug/L		06/05/14 14:35	06/07/14 21:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	76		50 - 150	06/05/14 14:35	06/07/14 21:32	1

**Method: NWTPH-Dx - Semi-Volatile Petroleum Products by NWTPH with Silica Gel Cleanup**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C24	383	*	93.9		ug/L		06/05/14 14:35	06/08/14 14:08	1
C24-C40	ND		93.9		ug/L		06/05/14 14:35	06/08/14 14:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	83		50 - 150	06/05/14 14:35	06/08/14 14:08	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.0100		mg/L		06/06/14 15:19	06/10/14 16:22	5

# Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
 Project/Site: 200 Railroad Ave S - Ellensburg

TestAmerica Job ID: 490-53894-1  
 SDG: SAP# / 062027

**Client Sample ID: GW-062027-052214-LB-MW-7**

**Lab Sample ID: 490-53894-7**

**Date Collected: 05/22/14 14:00**

**Matrix: Ground Water**

**Date Received: 05/24/14 08:20**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane	ND		1.00		ug/L			06/02/14 23:00	1
Benzene	ND		1.00		ug/L			06/02/14 23:00	1
Ethylbenzene	ND		1.00		ug/L			06/02/14 23:00	1
Toluene	ND		1.00		ug/L			06/02/14 23:00	1
Xylenes, Total	ND		2.00		ug/L			06/02/14 23:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	106		70 - 130		06/02/14 23:00	1
4-Bromofluorobenzene (Surr)	94		70 - 130		06/02/14 23:00	1
Dibromofluoromethane (Surr)	107		70 - 130		06/02/14 23:00	1
Toluene-d8 (Surr)	95		70 - 130		06/02/14 23:00	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C12	ND		100		ug/L			05/30/14 03:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	87		50 - 150		05/30/14 03:12	1

**Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylene Dibromide	ND		0.0200		ug/L		05/27/14 16:19	05/28/14 05:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,3-Dichlorobenzene	90		50 - 150	05/27/14 16:19	05/28/14 05:28	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C24	ND	*	93.9		ug/L		06/05/14 14:35	06/07/14 21:47	1
C24-C40	ND		93.9		ug/L		06/05/14 14:35	06/07/14 21:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	79		50 - 150	06/05/14 14:35	06/07/14 21:47	1

**Method: NWTPH-Dx - Semi-Volatile Petroleum Products by NWTPH with Silica Gel Cleanup**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C24	ND	*	93.9		ug/L		06/05/14 14:35	06/08/14 14:23	1
C24-C40	ND		93.9		ug/L		06/05/14 14:35	06/08/14 14:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	82		50 - 150	06/05/14 14:35	06/08/14 14:23	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.0100		mg/L		06/06/14 15:19	06/10/14 16:27	5

# Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
 Project/Site: 200 Railroad Ave S - Ellensburg

TestAmerica Job ID: 490-53894-1  
 SDG: SAP# / 062027

**Client Sample ID: GW-062027-052214-LB-MW-8**

**Lab Sample ID: 490-53894-8**

Date Collected: 05/22/14 14:36

Matrix: Ground Water

Date Received: 05/24/14 08:20

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane	ND		1.00		ug/L			06/02/14 23:29	1
Benzene	ND		1.00		ug/L			06/02/14 23:29	1
Ethylbenzene	ND		1.00		ug/L			06/02/14 23:29	1
Toluene	ND		1.00		ug/L			06/02/14 23:29	1
Xylenes, Total	ND		2.00		ug/L			06/02/14 23:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105		70 - 130		06/02/14 23:29	1
4-Bromofluorobenzene (Surr)	93		70 - 130		06/02/14 23:29	1
Dibromofluoromethane (Surr)	107		70 - 130		06/02/14 23:29	1
Toluene-d8 (Surr)	94		70 - 130		06/02/14 23:29	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C12	ND		100		ug/L			05/30/14 03:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	82		50 - 150		05/30/14 03:41	1

**Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylene Dibromide	ND		0.0201		ug/L		05/27/14 16:19	05/28/14 05:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,3-Dichlorobenzene	121		50 - 150	05/27/14 16:19	05/28/14 05:46	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C24	ND	*	93.9		ug/L		06/05/14 14:35	06/07/14 22:03	1
C24-C40	ND		93.9		ug/L		06/05/14 14:35	06/07/14 22:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	79		50 - 150	06/05/14 14:35	06/07/14 22:03	1

**Method: NWTPH-Dx - Semi-Volatile Petroleum Products by NWTPH with Silica Gel Cleanup**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C24	ND	*	93.9		ug/L		06/05/14 14:35	06/08/14 14:38	1
C24-C40	ND		93.9		ug/L		06/05/14 14:35	06/08/14 14:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	78		50 - 150	06/05/14 14:35	06/08/14 14:38	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.0100		mg/L		06/06/14 15:19	06/10/14 16:32	5

# QC Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
 Project/Site: 200 Railroad Ave S - Ellensburg

TestAmerica Job ID: 490-53894-1  
 SDG: SAP# / 062027

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

**Lab Sample ID: MB 490-166358/7**

**Matrix: Water**

**Analysis Batch: 166358**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane	ND		1.00		ug/L			06/02/14 18:41	1
Benzene	ND		1.00		ug/L			06/02/14 18:41	1
Ethylbenzene	ND		1.00		ug/L			06/02/14 18:41	1
Toluene	ND		1.00		ug/L			06/02/14 18:41	1
Xylenes, Total	ND		2.00		ug/L			06/02/14 18:41	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	104		70 - 130		06/02/14 18:41	1
4-Bromofluorobenzene (Surr)	96		70 - 130		06/02/14 18:41	1
Dibromofluoromethane (Surr)	104		70 - 130		06/02/14 18:41	1
Toluene-d8 (Surr)	94		70 - 130		06/02/14 18:41	1

**Lab Sample ID: LCS 490-166358/3**

**Matrix: Water**

**Analysis Batch: 166358**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dichloroethane	50.0	51.59		ug/L		103	77 - 121
Benzene	50.0	50.61		ug/L		101	80 - 121
Ethylbenzene	50.0	47.15		ug/L		94	80 - 130
Toluene	50.0	44.85		ug/L		90	80 - 126
Xylenes, Total	100	96.58		ug/L		97	80 - 132

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	99		70 - 130
4-Bromofluorobenzene (Surr)	97		70 - 130
Dibromofluoromethane (Surr)	104		70 - 130
Toluene-d8 (Surr)	95		70 - 130

**Lab Sample ID: LCSD 490-166358/4**

**Matrix: Water**

**Analysis Batch: 166358**

**Client Sample ID: Lab Control Sample Dup**

**Prep Type: Total/NA**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2-Dichloroethane	50.0	52.21		ug/L		104	77 - 121	1	17
Benzene	50.0	51.89		ug/L		104	80 - 121	2	17
Ethylbenzene	50.0	48.23		ug/L		96	80 - 130	2	15
Toluene	50.0	46.39		ug/L		93	80 - 126	3	15
Xylenes, Total	100	99.64		ug/L		100	80 - 132	3	15

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	99		70 - 130
4-Bromofluorobenzene (Surr)	97		70 - 130
Dibromofluoromethane (Surr)	103		70 - 130
Toluene-d8 (Surr)	94		70 - 130

# QC Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
Project/Site: 200 Railroad Ave S - Ellensburg

TestAmerica Job ID: 490-53894-1  
SDG: SAP# / 062027

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

**Lab Sample ID: 490-53894-2 MS**

**Matrix: Ground Water**

**Analysis Batch: 166358**

**Client Sample ID: GW-062027-052214-LB-MW-2**

**Prep Type: Total/NA**

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec.
	Result	Qualifier		Result	Qualifier				
1,2-Dichloroethane	ND		50.0	55.62		ug/L		111	64 - 136
Benzene	ND		50.0	59.39		ug/L		119	75 - 133
Ethylbenzene	ND		50.0	54.83		ug/L		110	79 - 139
Toluene	ND		50.0	52.27		ug/L		105	75 - 136
Xylenes, Total	ND		100	111.2		ug/L		111	74 - 141

Surrogate	MS	MS	Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	99		70 - 130
4-Bromofluorobenzene (Surr)	96		70 - 130
Dibromofluoromethane (Surr)	102		70 - 130
Toluene-d8 (Surr)	94		70 - 130

**Lab Sample ID: 490-53894-2 MSD**

**Matrix: Ground Water**

**Analysis Batch: 166358**

**Client Sample ID: GW-062027-052214-LB-MW-2**

**Prep Type: Total/NA**

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	Limit
	Result	Qualifier		Result	Qualifier						
1,2-Dichloroethane	ND		50.0	54.38		ug/L		109	64 - 136	2	17
Benzene	ND		50.0	58.08		ug/L		116	75 - 133	2	17
Ethylbenzene	ND		50.0	53.54		ug/L		107	79 - 139	2	15
Toluene	ND		50.0	50.93		ug/L		102	75 - 136	3	15
Xylenes, Total	ND		100	108.1		ug/L		108	74 - 141	3	15

Surrogate	MSD	MSD	Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	100		70 - 130
4-Bromofluorobenzene (Surr)	98		70 - 130
Dibromofluoromethane (Surr)	103		70 - 130
Toluene-d8 (Surr)	94		70 - 130

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

**Lab Sample ID: MB 490-165578/6**

**Matrix: Water**

**Analysis Batch: 165578**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
C6-C12	ND		100		ug/L			05/29/14 13:53	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
a,a,a-Trifluorotoluene	83		50 - 150		05/29/14 13:53	1

**Lab Sample ID: LCS 490-165578/3**

**Matrix: Water**

**Analysis Batch: 165578**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

Analyte	Spike	LCS	LCS	Unit	D	%Rec	%Rec.
		Result	Qualifier				
C6-C12	1000	919.3		ug/L		92	39 - 143

TestAmerica Nashville

# QC Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
 Project/Site: 200 Railroad Ave S - Ellensburg

TestAmerica Job ID: 490-53894-1  
 SDG: SAP# / 062027

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

**Lab Sample ID: LCS 490-165578/3**  
**Matrix: Water**  
**Analysis Batch: 165578**

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

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
a,a,a-Trifluorotoluene	118		50 - 150

**Lab Sample ID: 490-53894-1 DU**  
**Matrix: Ground Water**  
**Analysis Batch: 165578**

**Client Sample ID: GW-062027-052214-LB-MW-1**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD
								Limit
C6-C12	ND		ND		ug/L		NC	18

	DU	DU	
Surrogate	%Recovery	Qualifier	Limits
a,a,a-Trifluorotoluene	83		50 - 150

## Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

**Lab Sample ID: MB 490-165140/2-A**  
**Matrix: Water**  
**Analysis Batch: 165151**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 165140**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylene Dibromide	ND		0.0200		ug/L		05/27/14 16:19	05/28/14 01:58	1

	MB	MB		Prepared	Analyzed	Dil Fac
Surrogate	%Recovery	Qualifier	Limits			
1,3-Dichlorobenzene	113		50 - 150	05/27/14 16:19	05/28/14 01:58	1

**Lab Sample ID: LCS 490-165140/3-A**  
**Matrix: Water**  
**Analysis Batch: 165151**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 165140**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1,3-Dichlorobenzene	92		50 - 150

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

**Lab Sample ID: MB 490-167171/1-A**  
**Matrix: Water**  
**Analysis Batch: 167776**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 167171**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C24	ND		100		ug/L		06/05/14 14:35	06/07/14 19:28	1
C24-C40	ND		100		ug/L		06/05/14 14:35	06/07/14 19:28	1

	MB	MB		Prepared	Analyzed	Dil Fac
Surrogate	%Recovery	Qualifier	Limits			
o-Terphenyl	88		50 - 150	06/05/14 14:35	06/07/14 19:28	1

TestAmerica Nashville

# QC Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
 Project/Site: 200 Railroad Ave S - Ellensburg

TestAmerica Job ID: 490-53894-1  
 SDG: SAP# / 062027

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

**Lab Sample ID: LCS 490-167171/2-A**  
**Matrix: Water**  
**Analysis Batch: 167776**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 167171**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
C10-C24	1000	429.8	*	ug/L		43	51 - 132
		<b>LCS LCS</b>					
<b>Surrogate</b>		<b>%Recovery</b>	<b>Qualifier</b>				<b>Limits</b>
<i>o-Terphenyl</i>		71					50 - 150

**Lab Sample ID: 490-53894-1 DU**  
**Matrix: Ground Water**  
**Analysis Batch: 167776**

**Client Sample ID: GW-062027-052214-LB-MW-1**  
**Prep Type: Total/NA**  
**Prep Batch: 167171**

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
C10-C24	95.5	*	ND	*	ug/L		23	41
C24-C40	ND		ND		ug/L		NC	41
		<b>DU DU</b>						
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>						<b>Limits</b>
<i>o-Terphenyl</i>	77							50 - 150

**Lab Sample ID: 490-53894-1 DU**  
**Matrix: Ground Water**  
**Analysis Batch: 167811**

**Client Sample ID: GW-062027-052214-LB-MW-1**  
**Prep Type: Total/NA**  
**Prep Batch: 167171**

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
C10-C24	ND	*	ND	*	ug/L		23	41
C24-C40	ND		ND		ug/L		NC	41
		<b>DU DU</b>						
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>						<b>Limits</b>
<i>o-Terphenyl</i>	68							50 - 150

## Method: NWTPH-Dx - Semi-Volatile Petroleum Products by NWTPH with Silica Gel Cleanup

**Lab Sample ID: MB 490-167171/12-A**  
**Matrix: Water**  
**Analysis Batch: 167811**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 167171**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C24	ND		100		ug/L		06/07/14 15:56	06/08/14 12:05	1
C24-C40	ND		100		ug/L		06/07/14 15:56	06/08/14 12:05	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>
<i>o-Terphenyl</i>	81		50 - 150				06/07/14 15:56	06/08/14 12:05	1

**Lab Sample ID: LCS 490-167171/13-A**  
**Matrix: Water**  
**Analysis Batch: 167811**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 167171**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
C10-C24	1000	441.5	*	ug/L		44	51 - 132

TestAmerica Nashville



# QC Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
 Project/Site: 200 Railroad Ave S - Ellensburg

TestAmerica Job ID: 490-53894-1  
 SDG: SAP# / 062027

## Method: NWTPH-Dx - Semi-Volatile Petroleum Products by NWTPH with Silica Gel Cleanup

**(Continued)**

Lab Sample ID: LCS 490-167171/13-A  
 Matrix: Water  
 Analysis Batch: 167811

Client Sample ID: Lab Control Sample  
 Prep Type: Total/NA  
 Prep Batch: 167171

Surrogate	LCS %Recovery	LCS Qualifier	Limits
<i>o</i> -Terphenyl	67		50 - 150

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

Lab Sample ID: MB 490-167518/1-A  
 Matrix: Water  
 Analysis Batch: 168582

Client Sample ID: Method Blank  
 Prep Type: Total/NA  
 Prep Batch: 167518

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.00200		mg/L		06/06/14 15:19	06/10/14 15:22	1

Lab Sample ID: LCS 490-167518/2-A  
 Matrix: Water  
 Analysis Batch: 168582

Client Sample ID: Lab Control Sample  
 Prep Type: Total/NA  
 Prep Batch: 167518

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Lead	0.100	0.1047		mg/L		105	80 - 120

Lab Sample ID: LCSD 490-167518/3-A  
 Matrix: Water  
 Analysis Batch: 168582

Client Sample ID: Lab Control Sample Dup  
 Prep Type: Total/NA  
 Prep Batch: 167518

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Lead	0.100	0.1046		mg/L		105	80 - 120	0	20

Lab Sample ID: 490-53894-1 MS  
 Matrix: Ground Water  
 Analysis Batch: 168582

Client Sample ID: GW-062027-052214-LB-MW-1  
 Prep Type: Total/NA  
 Prep Batch: 167518

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Lead	ND		0.100	0.1041		mg/L		103	75 - 125

Lab Sample ID: 490-53894-1 MSD  
 Matrix: Ground Water  
 Analysis Batch: 168582

Client Sample ID: GW-062027-052214-LB-MW-1  
 Prep Type: Total/NA  
 Prep Batch: 167518

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Lead	ND		0.100	0.1057		mg/L		104	75 - 125	2	20

# QC Association Summary

Client: Conestoga-Rovers & Associates, Inc.  
 Project/Site: 200 Railroad Ave S - Ellensburg

TestAmerica Job ID: 490-53894-1  
 SDG: SAP# / 062027

## GC/MS VOA

### Analysis Batch: 166358

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-53894-1	GW-062027-052214-LB-MW-1	Total/NA	Ground Water	8260B	
490-53894-2	GW-062027-052214-LB-MW-2	Total/NA	Ground Water	8260B	
490-53894-2 MS	GW-062027-052214-LB-MW-2	Total/NA	Ground Water	8260B	
490-53894-2 MSD	GW-062027-052214-LB-MW-2	Total/NA	Ground Water	8260B	
490-53894-3	GW-062027-052214-LB-MW-3	Total/NA	Ground Water	8260B	
490-53894-4	GW-062027-052214-LB-MW-4	Total/NA	Ground Water	8260B	
490-53894-5	GW-062027-052214-LB-MW-5	Total/NA	Ground Water	8260B	
490-53894-6	GW-062027-052214-LB-MW-6	Total/NA	Ground Water	8260B	
490-53894-7	GW-062027-052214-LB-MW-7	Total/NA	Ground Water	8260B	
490-53894-8	GW-062027-052214-LB-MW-8	Total/NA	Ground Water	8260B	
LCS 490-166358/3	Lab Control Sample	Total/NA	Water	8260B	
LCS 490-166358/4	Lab Control Sample Dup	Total/NA	Water	8260B	
MB 490-166358/7	Method Blank	Total/NA	Water	8260B	

## GC VOA

### Analysis Batch: 165578

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-53894-1	GW-062027-052214-LB-MW-1	Total/NA	Ground Water	NWTPH-Gx	
490-53894-1 DU	GW-062027-052214-LB-MW-1	Total/NA	Ground Water	NWTPH-Gx	
490-53894-2	GW-062027-052214-LB-MW-2	Total/NA	Ground Water	NWTPH-Gx	
490-53894-3	GW-062027-052214-LB-MW-3	Total/NA	Ground Water	NWTPH-Gx	
490-53894-4	GW-062027-052214-LB-MW-4	Total/NA	Ground Water	NWTPH-Gx	
490-53894-5	GW-062027-052214-LB-MW-5	Total/NA	Ground Water	NWTPH-Gx	
490-53894-6	GW-062027-052214-LB-MW-6	Total/NA	Ground Water	NWTPH-Gx	
490-53894-7	GW-062027-052214-LB-MW-7	Total/NA	Ground Water	NWTPH-Gx	
490-53894-8	GW-062027-052214-LB-MW-8	Total/NA	Ground Water	NWTPH-Gx	
LCS 490-165578/3	Lab Control Sample	Total/NA	Water	NWTPH-Gx	
MB 490-165578/6	Method Blank	Total/NA	Water	NWTPH-Gx	

## GC Semi VOA

### Prep Batch: 165140

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-53894-1	GW-062027-052214-LB-MW-1	Total/NA	Ground Water	8011	
490-53894-2	GW-062027-052214-LB-MW-2	Total/NA	Ground Water	8011	
490-53894-3	GW-062027-052214-LB-MW-3	Total/NA	Ground Water	8011	
490-53894-4	GW-062027-052214-LB-MW-4	Total/NA	Ground Water	8011	
490-53894-5	GW-062027-052214-LB-MW-5	Total/NA	Ground Water	8011	
490-53894-6	GW-062027-052214-LB-MW-6	Total/NA	Ground Water	8011	
490-53894-7	GW-062027-052214-LB-MW-7	Total/NA	Ground Water	8011	
490-53894-8	GW-062027-052214-LB-MW-8	Total/NA	Ground Water	8011	
LCS 490-165140/3-A	Lab Control Sample	Total/NA	Water	8011	
MB 490-165140/2-A	Method Blank	Total/NA	Water	8011	

### Analysis Batch: 165151

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-53894-1	GW-062027-052214-LB-MW-1	Total/NA	Ground Water	8011	165140
490-53894-2	GW-062027-052214-LB-MW-2	Total/NA	Ground Water	8011	165140
490-53894-3	GW-062027-052214-LB-MW-3	Total/NA	Ground Water	8011	165140

TestAmerica Nashville

# QC Association Summary

Client: Conestoga-Rovers & Associates, Inc.  
 Project/Site: 200 Railroad Ave S - Ellensburg

TestAmerica Job ID: 490-53894-1  
 SDG: SAP# / 062027

## GC Semi VOA (Continued)

### Analysis Batch: 165151 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-53894-4	GW-062027-052214-LB-MW-4	Total/NA	Ground Water	8011	165140
490-53894-5	GW-062027-052214-LB-MW-5	Total/NA	Ground Water	8011	165140
490-53894-6	GW-062027-052214-LB-MW-6	Total/NA	Ground Water	8011	165140
490-53894-7	GW-062027-052214-LB-MW-7	Total/NA	Ground Water	8011	165140
490-53894-8	GW-062027-052214-LB-MW-8	Total/NA	Ground Water	8011	165140
LCS 490-165140/3-A	Lab Control Sample	Total/NA	Water	8011	165140
MB 490-165140/2-A	Method Blank	Total/NA	Water	8011	165140

### Prep Batch: 167171

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-53894-1	GW-062027-052214-LB-MW-1	Total/NA	Ground Water	3510C	
490-53894-1 DU	GW-062027-052214-LB-MW-1	Total/NA	Ground Water	3510C	
490-53894-2	GW-062027-052214-LB-MW-2	Total/NA	Ground Water	3510C	
490-53894-3	GW-062027-052214-LB-MW-3	Total/NA	Ground Water	3510C	
490-53894-4	GW-062027-052214-LB-MW-4	Total/NA	Ground Water	3510C	
490-53894-5	GW-062027-052214-LB-MW-5	Total/NA	Ground Water	3510C	
490-53894-6	GW-062027-052214-LB-MW-6	Total/NA	Ground Water	3510C	
490-53894-7	GW-062027-052214-LB-MW-7	Total/NA	Ground Water	3510C	
490-53894-8	GW-062027-052214-LB-MW-8	Total/NA	Ground Water	3510C	
LCS 490-167171/13-A	Lab Control Sample	Total/NA	Water	3510C	
LCS 490-167171/2-A	Lab Control Sample	Total/NA	Water	3510C	
MB 490-167171/12-A	Method Blank	Total/NA	Water	3510C	
MB 490-167171/1-A	Method Blank	Total/NA	Water	3510C	

### Analysis Batch: 167776

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-53894-1	GW-062027-052214-LB-MW-1	Total/NA	Ground Water	NWTPH-Dx	167171
490-53894-1 DU	GW-062027-052214-LB-MW-1	Total/NA	Ground Water	NWTPH-Dx	167171
490-53894-2	GW-062027-052214-LB-MW-2	Total/NA	Ground Water	NWTPH-Dx	167171
490-53894-3	GW-062027-052214-LB-MW-3	Total/NA	Ground Water	NWTPH-Dx	167171
490-53894-4	GW-062027-052214-LB-MW-4	Total/NA	Ground Water	NWTPH-Dx	167171
490-53894-5	GW-062027-052214-LB-MW-5	Total/NA	Ground Water	NWTPH-Dx	167171
490-53894-6	GW-062027-052214-LB-MW-6	Total/NA	Ground Water	NWTPH-Dx	167171
490-53894-7	GW-062027-052214-LB-MW-7	Total/NA	Ground Water	NWTPH-Dx	167171
490-53894-8	GW-062027-052214-LB-MW-8	Total/NA	Ground Water	NWTPH-Dx	167171
LCS 490-167171/2-A	Lab Control Sample	Total/NA	Water	NWTPH-Dx	167171
MB 490-167171/1-A	Method Blank	Total/NA	Water	NWTPH-Dx	167171

### Analysis Batch: 167811

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-53894-1	GW-062027-052214-LB-MW-1	Total/NA	Ground Water	NWTPH-Dx	167171
490-53894-1 DU	GW-062027-052214-LB-MW-1	Total/NA	Ground Water	NWTPH-Dx	167171
490-53894-2	GW-062027-052214-LB-MW-2	Total/NA	Ground Water	NWTPH-Dx	167171
490-53894-3	GW-062027-052214-LB-MW-3	Total/NA	Ground Water	NWTPH-Dx	167171
490-53894-4	GW-062027-052214-LB-MW-4	Total/NA	Ground Water	NWTPH-Dx	167171
490-53894-5	GW-062027-052214-LB-MW-5	Total/NA	Ground Water	NWTPH-Dx	167171
490-53894-6	GW-062027-052214-LB-MW-6	Total/NA	Ground Water	NWTPH-Dx	167171
490-53894-7	GW-062027-052214-LB-MW-7	Total/NA	Ground Water	NWTPH-Dx	167171
490-53894-8	GW-062027-052214-LB-MW-8	Total/NA	Ground Water	NWTPH-Dx	167171
LCS 490-167171/13-A	Lab Control Sample	Total/NA	Water	NWTPH-Dx	167171
MB 490-167171/12-A	Method Blank	Total/NA	Water	NWTPH-Dx	167171

TestAmerica Nashville

# QC Association Summary

Client: Conestoga-Rovers & Associates, Inc.  
 Project/Site: 200 Railroad Ave S - Ellensburg

TestAmerica Job ID: 490-53894-1  
 SDG: SAP# / 062027

## Metals

### Prep Batch: 167518

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-53894-1	GW-062027-052214-LB-MW-1	Total/NA	Ground Water	3010A	
490-53894-1 MS	GW-062027-052214-LB-MW-1	Total/NA	Ground Water	3010A	
490-53894-1 MSD	GW-062027-052214-LB-MW-1	Total/NA	Ground Water	3010A	
490-53894-2	GW-062027-052214-LB-MW-2	Total/NA	Ground Water	3010A	
490-53894-3	GW-062027-052214-LB-MW-3	Total/NA	Ground Water	3010A	
490-53894-4	GW-062027-052214-LB-MW-4	Total/NA	Ground Water	3010A	
490-53894-5	GW-062027-052214-LB-MW-5	Total/NA	Ground Water	3010A	
490-53894-6	GW-062027-052214-LB-MW-6	Total/NA	Ground Water	3010A	
490-53894-7	GW-062027-052214-LB-MW-7	Total/NA	Ground Water	3010A	
490-53894-8	GW-062027-052214-LB-MW-8	Total/NA	Ground Water	3010A	
LCS 490-167518/2-A	Lab Control Sample	Total/NA	Water	3010A	
LCSD 490-167518/3-A	Lab Control Sample Dup	Total/NA	Water	3010A	
MB 490-167518/1-A	Method Blank	Total/NA	Water	3010A	

### Analysis Batch: 168582

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-53894-1	GW-062027-052214-LB-MW-1	Total/NA	Ground Water	6020A	167518
490-53894-1 MS	GW-062027-052214-LB-MW-1	Total/NA	Ground Water	6020A	167518
490-53894-1 MSD	GW-062027-052214-LB-MW-1	Total/NA	Ground Water	6020A	167518
490-53894-2	GW-062027-052214-LB-MW-2	Total/NA	Ground Water	6020A	167518
490-53894-3	GW-062027-052214-LB-MW-3	Total/NA	Ground Water	6020A	167518
490-53894-4	GW-062027-052214-LB-MW-4	Total/NA	Ground Water	6020A	167518
490-53894-5	GW-062027-052214-LB-MW-5	Total/NA	Ground Water	6020A	167518
490-53894-6	GW-062027-052214-LB-MW-6	Total/NA	Ground Water	6020A	167518
490-53894-7	GW-062027-052214-LB-MW-7	Total/NA	Ground Water	6020A	167518
490-53894-8	GW-062027-052214-LB-MW-8	Total/NA	Ground Water	6020A	167518
LCS 490-167518/2-A	Lab Control Sample	Total/NA	Water	6020A	167518
LCSD 490-167518/3-A	Lab Control Sample Dup	Total/NA	Water	6020A	167518
MB 490-167518/1-A	Method Blank	Total/NA	Water	6020A	167518

# Lab Chronicle

Client: Conestoga-Rovers & Associates, Inc.  
 Project/Site: 200 Railroad Ave S - Ellensburg

TestAmerica Job ID: 490-53894-1  
 SDG: SAP# / 062027

**Client Sample ID: GW-062027-052214-LB-MW-1**

**Lab Sample ID: 490-53894-1**

Date Collected: 05/22/14 10:02

Matrix: Ground Water

Date Received: 05/24/14 08:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	10 mL	10 mL	166358	06/02/14 20:37	EML	TAL NSH
Total/NA	Analysis	NWTPH-Gx		1	5 mL	5 mL	165578	05/29/14 23:45	AMC	TAL NSH
Total/NA	Prep	8011			34.8 mL	2 mL	165140	05/27/14 16:19	MWT	TAL NSH
Total/NA	Analysis	8011		1	34.8 mL	2 mL	165151	05/28/14 03:43	MWT	TAL NSH
Total/NA	Prep	3510C			1065 mL	1 mL	167171	06/05/14 14:35	LSR	TAL NSH
Total/NA	Analysis	NWTPH-Dx		1	1065 mL	1 mL	167776	06/07/14 19:59	GMH	TAL NSH
Total/NA	Prep	3510C			1065 mL	1 mL	167171	06/05/14 14:35	LSR	TAL NSH
Total/NA	Analysis	NWTPH-Dx		1	1065 mL	1 mL	167811	06/08/14 12:36	GMH	TAL NSH
Total/NA	Prep	3010A			50 mL	50 mL	167518	06/06/14 15:19	JBD	TAL NSH
Total/NA	Analysis	6020A		5	50 mL	50 mL	168582	06/10/14 15:37	BWW	TAL NSH

**Client Sample ID: GW-062027-052214-LB-MW-2**

**Lab Sample ID: 490-53894-2**

Date Collected: 05/22/14 10:44

Matrix: Ground Water

Date Received: 05/24/14 08:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	10 mL	10 mL	166358	06/02/14 20:08	EML	TAL NSH
Total/NA	Analysis	NWTPH-Gx		1	5 mL	5 mL	165578	05/30/14 00:44	AMC	TAL NSH
Total/NA	Prep	8011			34.4 mL	2 mL	165140	05/27/14 16:19	MWT	TAL NSH
Total/NA	Analysis	8011		1	34.4 mL	2 mL	165151	05/28/14 04:01	MWT	TAL NSH
Total/NA	Prep	3510C			1065 mL	1 mL	167171	06/05/14 14:35	LSR	TAL NSH
Total/NA	Analysis	NWTPH-Dx		1	1065 mL	1 mL	167776	06/07/14 20:30	GMH	TAL NSH
Total/NA	Prep	3510C			1065 mL	1 mL	167171	06/05/14 14:35	LSR	TAL NSH
Total/NA	Analysis	NWTPH-Dx		1	1065 mL	1 mL	167811	06/08/14 13:06	GMH	TAL NSH
Total/NA	Prep	3010A			50 mL	50 mL	167518	06/06/14 15:19	JBD	TAL NSH
Total/NA	Analysis	6020A		5	50 mL	50 mL	168582	06/10/14 15:52	BWW	TAL NSH

**Client Sample ID: GW-062027-052214-LB-MW-3**

**Lab Sample ID: 490-53894-3**

Date Collected: 05/22/14 11:23

Matrix: Ground Water

Date Received: 05/24/14 08:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	10 mL	10 mL	166358	06/02/14 21:05	EML	TAL NSH
Total/NA	Analysis	NWTPH-Gx		1	5 mL	5 mL	165578	05/30/14 01:13	AMC	TAL NSH
Total/NA	Prep	8011			34.7 mL	2 mL	165140	05/27/14 16:19	MWT	TAL NSH
Total/NA	Analysis	8011		1	34.7 mL	2 mL	165151	05/28/14 04:18	MWT	TAL NSH
Total/NA	Prep	3510C			1065 mL	1 mL	167171	06/05/14 14:35	LSR	TAL NSH
Total/NA	Analysis	NWTPH-Dx		1	1065 mL	1 mL	167776	06/07/14 20:45	GMH	TAL NSH
Total/NA	Prep	3510C			1065 mL	1 mL	167171	06/05/14 14:35	LSR	TAL NSH
Total/NA	Analysis	NWTPH-Dx		1	1065 mL	1 mL	167811	06/08/14 13:22	GMH	TAL NSH
Total/NA	Prep	3010A			50 mL	50 mL	167518	06/06/14 15:19	JBD	TAL NSH
Total/NA	Analysis	6020A		5	50 mL	50 mL	168582	06/10/14 15:57	BWW	TAL NSH

TestAmerica Nashville

# Lab Chronicle

Client: Conestoga-Rovers & Associates, Inc.  
 Project/Site: 200 Railroad Ave S - Ellensburg

TestAmerica Job ID: 490-53894-1  
 SDG: SAP# / 062027

**Client Sample ID: GW-062027-052214-LB-MW-4**

**Lab Sample ID: 490-53894-4**

**Date Collected: 05/22/14 12:04**

**Matrix: Ground Water**

**Date Received: 05/24/14 08:20**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	10 mL	10 mL	166358	06/02/14 21:34	EML	TAL NSH
Total/NA	Analysis	NWTPH-Gx		1	5 mL	5 mL	165578	05/30/14 01:43	AMC	TAL NSH
Total/NA	Prep	8011			34.4 mL	2 mL	165140	05/27/14 16:19	MWT	TAL NSH
Total/NA	Analysis	8011		1	34.4 mL	2 mL	165151	05/28/14 04:36	MWT	TAL NSH
Total/NA	Prep	3510C			1055 mL	1 mL	167171	06/05/14 14:35	LSR	TAL NSH
Total/NA	Analysis	NWTPH-Dx		1	1055 mL	1 mL	167776	06/07/14 21:01	GMH	TAL NSH
Total/NA	Prep	3510C			1055 mL	1 mL	167171	06/05/14 14:35	LSR	TAL NSH
Total/NA	Analysis	NWTPH-Dx		1	1055 mL	1 mL	167811	06/08/14 13:37	GMH	TAL NSH
Total/NA	Prep	3010A			50 mL	50 mL	167518	06/06/14 15:19	JBD	TAL NSH
Total/NA	Analysis	6020A		5	50 mL	50 mL	168582	06/10/14 16:02	BWW	TAL NSH

**Client Sample ID: GW-062027-052214-LB-MW-5**

**Lab Sample ID: 490-53894-5**

**Date Collected: 05/22/14 12:40**

**Matrix: Ground Water**

**Date Received: 05/24/14 08:20**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	10 mL	10 mL	166358	06/02/14 22:03	EML	TAL NSH
Total/NA	Analysis	NWTPH-Gx		1	5 mL	5 mL	165578	05/30/14 02:13	AMC	TAL NSH
Total/NA	Prep	8011			34.5 mL	2 mL	165140	05/27/14 16:19	MWT	TAL NSH
Total/NA	Analysis	8011		1	34.5 mL	2 mL	165151	05/28/14 04:54	MWT	TAL NSH
Total/NA	Prep	3510C			1065 mL	1 mL	167171	06/05/14 14:35	LSR	TAL NSH
Total/NA	Analysis	NWTPH-Dx		1	1065 mL	1 mL	167776	06/07/14 21:16	GMH	TAL NSH
Total/NA	Prep	3510C			1065 mL	1 mL	167171	06/05/14 14:35	LSR	TAL NSH
Total/NA	Analysis	NWTPH-Dx		1	1065 mL	1 mL	167811	06/08/14 13:52	GMH	TAL NSH
Total/NA	Prep	3010A			50 mL	50 mL	167518	06/06/14 15:19	JBD	TAL NSH
Total/NA	Analysis	6020A		5	50 mL	50 mL	168582	06/10/14 16:07	BWW	TAL NSH

**Client Sample ID: GW-062027-052214-LB-MW-6**

**Lab Sample ID: 490-53894-6**

**Date Collected: 05/22/14 13:20**

**Matrix: Ground Water**

**Date Received: 05/24/14 08:20**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	10 mL	10 mL	166358	06/02/14 22:31	EML	TAL NSH
Total/NA	Analysis	NWTPH-Gx		1	5 mL	5 mL	165578	05/30/14 02:42	AMC	TAL NSH
Total/NA	Prep	8011			34.6 mL	2 mL	165140	05/27/14 16:19	MWT	TAL NSH
Total/NA	Analysis	8011		1	34.6 mL	2 mL	165151	05/28/14 05:11	MWT	TAL NSH
Total/NA	Prep	3510C			1065 mL	1 mL	167171	06/05/14 14:35	LSR	TAL NSH
Total/NA	Analysis	NWTPH-Dx		1	1065 mL	1 mL	167776	06/07/14 21:32	GMH	TAL NSH
Total/NA	Prep	3510C			1065 mL	1 mL	167171	06/05/14 14:35	LSR	TAL NSH
Total/NA	Analysis	NWTPH-Dx		1	1065 mL	1 mL	167811	06/08/14 14:08	GMH	TAL NSH
Total/NA	Prep	3010A			50 mL	50 mL	167518	06/06/14 15:19	JBD	TAL NSH
Total/NA	Analysis	6020A		5	50 mL	50 mL	168582	06/10/14 16:22	BWW	TAL NSH

TestAmerica Nashville

# Lab Chronicle

Client: Conestoga-Rovers & Associates, Inc.  
 Project/Site: 200 Railroad Ave S - Ellensburg

TestAmerica Job ID: 490-53894-1  
 SDG: SAP# / 062027

**Client Sample ID: GW-062027-052214-LB-MW-7**

**Lab Sample ID: 490-53894-7**

**Date Collected: 05/22/14 14:00**

**Matrix: Ground Water**

**Date Received: 05/24/14 08:20**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	10 mL	10 mL	166358	06/02/14 23:00	EML	TAL NSH
Total/NA	Analysis	NWTPH-Gx		1	5 mL	5 mL	165578	05/30/14 03:12	AMC	TAL NSH
Total/NA	Prep	8011			35 mL	2 mL	165140	05/27/14 16:19	MWT	TAL NSH
Total/NA	Analysis	8011		1	35 mL	2 mL	165151	05/28/14 05:28	MWT	TAL NSH
Total/NA	Prep	3510C			1065 mL	1 mL	167171	06/05/14 14:35	LSR	TAL NSH
Total/NA	Analysis	NWTPH-Dx		1	1065 mL	1 mL	167776	06/07/14 21:47	GMH	TAL NSH
Total/NA	Prep	3510C			1065 mL	1 mL	167171	06/05/14 14:35	LSR	TAL NSH
Total/NA	Analysis	NWTPH-Dx		1	1065 mL	1 mL	167811	06/08/14 14:23	GMH	TAL NSH
Total/NA	Prep	3010A			50 mL	50 mL	167518	06/06/14 15:19	JBD	TAL NSH
Total/NA	Analysis	6020A		5	50 mL	50 mL	168582	06/10/14 16:27	BWW	TAL NSH

**Client Sample ID: GW-062027-052214-LB-MW-8**

**Lab Sample ID: 490-53894-8**

**Date Collected: 05/22/14 14:36**

**Matrix: Ground Water**

**Date Received: 05/24/14 08:20**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	10 mL	10 mL	166358	06/02/14 23:29	EML	TAL NSH
Total/NA	Analysis	NWTPH-Gx		1	5 mL	5 mL	165578	05/30/14 03:41	AMC	TAL NSH
Total/NA	Prep	8011			34.8 mL	2 mL	165140	05/27/14 16:19	MWT	TAL NSH
Total/NA	Analysis	8011		1	34.8 mL	2 mL	165151	05/28/14 05:46	MWT	TAL NSH
Total/NA	Prep	3510C			1065 mL	1 mL	167171	06/05/14 14:35	LSR	TAL NSH
Total/NA	Analysis	NWTPH-Dx		1	1065 mL	1 mL	167776	06/07/14 22:03	GMH	TAL NSH
Total/NA	Prep	3510C			1065 mL	1 mL	167171	06/05/14 14:35	LSR	TAL NSH
Total/NA	Analysis	NWTPH-Dx		1	1065 mL	1 mL	167811	06/08/14 14:38	GMH	TAL NSH
Total/NA	Prep	3010A			50 mL	50 mL	167518	06/06/14 15:19	JBD	TAL NSH
Total/NA	Analysis	6020A		5	50 mL	50 mL	168582	06/10/14 16:32	BWW	TAL NSH

**Laboratory References:**

TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Drive, Nashville, TN 37204, TEL (615)726-0177

# Method Summary

Client: Conestoga-Rovers & Associates, Inc.  
Project/Site: 200 Railroad Ave S - Ellensburg

TestAmerica Job ID: 490-53894-1  
SDG: SAP# / 062027

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL NSH
NWTPH-Gx	Northwest - Volatile Petroleum Products (GC)	NWTPH	TAL NSH
8011	EDB, DBCP, and 1,2,3-TCP (GC)	SW846	TAL NSH
NWTPH-Dx	Northwest - Semi-Volatile Petroleum Products (GC)	NWTPH	TAL NSH
NWTPH-Dx	Semi-Volatile Petroleum Products by NWTPH with Silica Gel Cleanup	NWTPH	TAL NSH
6020A	Metals (ICP/MS)	SW846	TAL NSH

**Protocol References:**

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 NSH = TestAmerica Nashville, 2960 Foster Creighton Drive, Nashville, TN 37204, TEL (615)726-0177





# Certification Summary

Client: Conestoga-Rovers & Associates, Inc.  
Project/Site: 200 Railroad Ave S - Ellensburg

TestAmerica Job ID: 490-53894-1  
SDG: SAP# / 062027

## Laboratory: TestAmerica Nashville

The certifications listed below are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Washington	State Program	10	C789	07-19-14

1

2

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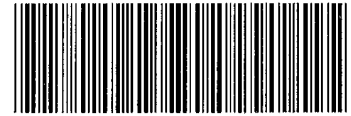
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13

## COOLER RECEIPT FORM



490-53894 Chain of Custody

Cooler Received/Opened On 5/24/2014 @ 0820

1. Tracking # 7535 (last 4 digits, FedEx)

Courier: FedEx IR Gun ID 17610176

2. Temperature of rep. sample or temp blank when opened: 26 Degrees Celsius

3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen? YES NO...NA

4. Were custody seals on outside of cooler? YES...NO...NA

If yes, how many and where: 1 Front

5. Were the seals intact, signed, and dated correctly? YES...NO...NA

6. Were custody papers inside cooler? YES...NO...NA

I certify that I opened the cooler and answered questions 1-6 (initial) ADH

7. Were custody seals on containers: YES NO and Intact YES...NO...NA

Were these signed and dated correctly? YES...NO...NA

8. Packing mat'l used? Bubblewrap Plastic bag Peanuts Vermiculite Foam Insert Paper Other None

9. Cooling process: Ice Ice-pack Ice (direct contact) Dry ice Other None

10. Did all containers arrive in good condition (unbroken)? YES...NO...NA

11. Were all container labels complete (#, date, signed, pres., etc)? YES...NO...NA

12. Did all container labels and tags agree with custody papers? YES...NO...NA

13a. Were VOA vials received? YES...NO...NA

b. Was there any observable headspace present in any VOA vial? YES...NO...NA

14. Was there a Trip Blank in this cooler? YES...NO...NA If multiple coolers, sequence # \_\_\_\_\_

I certify that I unloaded the cooler and answered questions 7-14 (initial) CH

15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? YES...NO...NA

b. Did the bottle labels indicate that the correct preservatives were used YES...NO...NA

16. Was residual chlorine present? YES...NO...NA

I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (initial) CH

17. Were custody papers properly filled out (ink, signed, etc)? YES...NO...NA

18. Did you sign the custody papers in the appropriate place? YES...NO...NA

19. Were correct containers used for the analysis requested? YES...NO...NA

20. Was sufficient amount of sample sent in each container? YES...NO...NA

I certify that I entered this project into LIMS and answered questions 17-20 (initial) CH

I certify that I attached a label with the unique LIMS number to each container (initial) CH

21. Were there Non-Conformance issues at login? YES...NO... Was a NCM generated? YES...NO...# \_\_\_\_\_

**COOLER RECEIPT FORM**

Cooler Received/Opened On 5/24/2014 @ 0820

1. Tracking # 7544 (last 4 digits, FedEx)

Courier: FedEx IR Gun ID 17610176

2. Temperature of rep. sample or temp blank when opened: 4.9 Degrees Celsius

3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen? YES NO  NA

4. Were custody seals on outside of cooler?  YES...NO...NA

If yes, how many and where: 1 front

5. Were the seals intact, signed, and dated correctly?  YES...NO...NA

6. Were custody papers inside cooler?  YES...NO...NA

I certify that I opened the cooler and answered questions 1-6 (initial) AJH

7. Were custody seals on containers: YES  NO and Intact YES...NO...NA

Were these signed and dated correctly? YES...NO...NA

8. Packing mat'l used?  Bubblewrap  Plastic bag  Peanuts  Vermiculite  Foam Insert  Paper  Other None

9. Cooling process:  Ice  Ice-pack  Ice (direct contact)  Dry ice  Other None

10. Did all containers arrive in good condition (unbroken)?  YES...NO...NA

11. Were all container labels complete (#, date, signed, pres., etc)?  YES...NO...NA

12. Did all container labels and tags agree with custody papers?  YES...NO...NA

13a. Were VOA vials received? YES...NO  NA

b. Was there any observable headspace present in any VOA vial? YES...NO...NA

14. Was there a Trip Blank in this cooler? YES...NO  NA If multiple coolers, sequence # \_\_\_\_\_

I certify that I unloaded the cooler and answered questions 7-14 (initial) AJH

15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? YES..NO..NA

b. Did the bottle labels indicate that the correct preservatives were used  YES...NO...NA

16. Was residual chlorine present? YES...NO...NA

I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (initial) AJH

17. Were custody papers properly filled out (ink, signed, etc)?  YES...NO...NA

18. Did you sign the custody papers in the appropriate place?  YES...NO...NA

19. Were correct containers used for the analysis requested?  YES...NO...NA

20. Was sufficient amount of sample sent in each container?  YES...NO...NA

I certify that I entered this project into LIMS and answered questions 17-20 (initial) AJH

I certify that I attached a label with the unique LIMS number to each container (initial) AJH

21. Were there Non-Conformance issues at login? YES...NO  Was a NCM generated? YES.  NO...# \_\_\_\_\_



## COOLER RECEIPT FORM

TAN 538M

Cooler Received/Opened On 5/24/2014 @ 0820

1. Tracking # 7524 (last 4 digits, FedEx)

Courier: FedEx IR Gun ID 94660220

2. Temperature of rep. sample or temp blank when opened: 3.9 Degrees Celsius

3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen? YES NO NA

4. Were custody seals on outside of cooler? YES...NO...NA

If yes, how many and where: 11 Front

5. Were the seals intact, signed, and dated correctly? YES...NO...NA

6. Were custody papers inside cooler? YES...NO...NA

I certify that I opened the cooler and answered questions 1-6 (initial) MDM

7. Were custody seals on containers: YES NO and Intact YES...NO...NA

Were these signed and dated correctly? YES...NO...NA

8. Packing mat'l used? Bubblewrap Plastic bag Peanuts Vermiculite Foam Insert Paper Other None

9. Cooling process: Ice Ice-pack Ice (direct contact) Dry ice Other None

10. Did all containers arrive in good condition (unbroken)? YES...NO...NA

11. Were all container labels complete (#, date, signed, pres., etc)? YES...NO...NA

12. Did all container labels and tags agree with custody papers? YES...NO...NA

13a. Were VOA vials received? YES...NO...NA

b. Was there any observable headspace present in any VOA vial? YES...NO...NA

14. Was there a Trip Blank in this cooler? YES...NO...NA If multiple coolers, sequence # \_\_\_\_\_

I certify that I unloaded the cooler and answered questions 7-14 (initial) h

15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? YES...NO...NA

b. Did the bottle labels indicate that the correct preservatives were used YES...NO...NA

16. Was residual chlorine present? YES...NO...NA

I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (initial) h

17. Were custody papers properly filled out (ink, signed, etc)? YES...NO...NA

18. Did you sign the custody papers in the appropriate place? YES...NO...NA

19. Were correct containers used for the analysis requested? YES...NO...NA

20. Was sufficient amount of sample sent in each container? YES...NO...NA

I certify that I entered this project into LIMS and answered questions 17-20 (initial) h

I certify that I attached a label with the unique LIMS number to each container (initial) h

21. Were there Non-Conformance issues at login? YES...NO Was a NCM generated? YES...NO...# \_\_\_\_\_

## COOLER RECEIPT FORM

TAN 53894

Cooler Received/Opened On : 05/24/2014 @ 0820

1. Tracking # 7498 (last 4 digits, FedEx)

Courier: Fed-ex IR Gun: 96210146

2. Temperature of rep. sample or temp blank when opened: 17 Degrees Celsius

3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen? YES NO NA

4. Were custody seals on outside of cooler? YES...NO...NA

If yes, how many and where: 1 Front

5. Were the seals intact, signed, and dated correctly? YES...NO...NA

6. Were custody papers inside cooler? YES...NO...NA

I certify that I opened the cooler and answered questions 1-6 (initial) h

7. Were custody seals on containers: YES NO and Intact YES NO NA

Were these signed and dated correctly? YES...NO...NA

8. Packing mat'l used? Bubblewrap Plastic bag Peanuts Vermiculite Foam Insert Paper Other None

9. Cooling process: Ice Ice-pack Ice (direct contact) Dry ice Other None

10. Did all containers arrive in good condition (unbroken)? YES...NO...NA

11. Were all container labels complete (#, date, signed, pres., etc)? YES...NO...NA

12. Did all container labels and tags agree with custody papers? YES...NO...NA

13a. Were VOA vials received? YES...NO...NA

b. Was there any observable headspace present in any VOA vial? YES...NO...NA

14. Was there a Trip Blank in this cooler? YES...NO...NA If multiple coolers, sequence # \_\_\_\_\_

I certify that I unloaded the cooler and answered questions 7-14 (initial) h

15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? YES...NO...NA

b. Did the bottle labels indicate that the correct preservatives were used YES...NO...NA

16. Was residual chlorine present? YES...NO...NA

I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (initial) h

17. Were custody papers properly filled out (ink, signed, etc)? YES...NO...NA

18. Did you sign the custody papers in the appropriate place? YES...NO...NA

19. Were correct containers used for the analysis requested? YES...NO...NA

20. Was sufficient amount of sample sent in each container? YES...NO...NA

I certify that I entered this project into LIMS and answered questions 17-20 (initial) h

I certify that I attached a label with the unique LIMS number to each container (initial) h

21. Were there Non-Conformance issues at login? YES...NO Was a NCM generated? YES...NO...# \_\_\_\_\_

### Shell Oil Products Chain Of Custody Record

LAB (LOCATION)  
 CALSCIENCE ( )  
 SPL Houston ( )  
 XENCO ( )  
 TEST AMERICA ( )  
 OTHER ( )

Please Check Appropriate Box:

<input type="checkbox"/> ENV. SERVICES	<input type="checkbox"/> MOTIVA RETAIL	<input type="checkbox"/> SHELL RETAIL
<input type="checkbox"/> MOTIVA SD&CM	<input checked="" type="checkbox"/> CONSULTANT	<input type="checkbox"/> LUBES
<input type="checkbox"/> SHELL PIPELINE	<input type="checkbox"/> OTHER _____	

Print Bill To Contact Name: **Brian Peters- 062027**  
 INCIDENT # (ENV SERVICES): **7 9 7 0 4 4 7**  
 PO # \_\_\_\_\_ SAP # \_\_\_\_\_  
 CHECK IF NO INCIDENT #:   
 DATE: **5/22/14**  
 PAGE: **1** of **1**

SAMPLING COMPANY: **Blaine Tech Services**  
 ADDRESS: **20735 Belshaw Avenue, Carson, CA 90746**  
 PROJECT CONTACT (Hardcopy or PDF Report to):  
**Lorin King**  
 TELEPHONE: **(310) 885-4455 x 108** FAX: **(310) 637-5802** EMAIL: **lking@blainetech.com**  
 LOG CODE: \_\_\_\_\_

SITE ADDRESS: Street and City: **200 Railroad Ave S - Ellensburg** State: **WA** GLOBAL ID NO.: **NA**  
 EDF DELIVERABLE TO (Name, Company, Office Location): **CRA Seattle, WA** PHONE NO.: **425-563-6500** E-MAIL: **Shell-US-LabDataManagement@CRAworld.com** CONSULTANT PROJECT NO.: **140522-182**  
 SAMPLER NAME(S) (Print): **LEE BURES** LAB USE ONLY

TURNAROUND TIME (CALENDAR DAYS):  
 STANDARD (14 DAY)  5 DAYS  3 DAYS  2 DAYS  24 HOURS  RESULTS NEEDED ON WEEKEND  
 LA - RWQCB REPORT FORMAT  UST AGENCY:

#### REQUESTED ANALYSIS

SPECIAL INSTRUCTIONS OR NOTES:  
 1) Please upload the "CRA EQulS 4-file EDD" to the CRA Website (<http://cralabddupload.craworld.com/equls/default.aspx>) and/or send it to the Shell-US-LabDataManagement@CRAworld.com email folder. 2) Please indicate that you have uploaded the EDD by including "EDD Uploaded to CRA website" in the body of the email used to deliver the final PDF report to the Shell-US-LabDataManagement@CRAworld.com email folder.  
 SHELL CONTRACT RATE APPLIES  
 STATE REIMBURSEMENT RATE APPLIES  
 EDD NOT NEEDED  
 RECEIPT VERIFICATION REQUESTED

TEMPERATURE ON RECEIPT C°	Container PID Readings or Laboratory Notes
<b>1.7, 4.9, 3.9, 2.6</b>	

Copy final report to Shell.Lab.Billing@craworld.com, Shell.results@craworld.com, and Shell-US-LabDataManagement@CRAworld.com  
 Email invoice to Shell.Lab.Billing@craworld.com  
 See Laboratory PM for WA Dept. of Ecology MTCA Method A cleanup levels for minimum detection limits.  
 Matrix Codes - WG (groundwater), WS (surface water), WP (drinking water source), W (Trip or Temp Blank)

LAB USE ONLY	SAMPLE ID					TIME	MATRIX	PRESERVATIVE					NO. OF CONT.	NWTPH-GX	NWTPH-Dx w/Silica Gel Cleanup (8260B)	BTEX (8260B)	5 Oxygenates, MTBE, TBA, DIPE, TAME, ETBE (8260B)	EDC (8260B)	EDB	NWTPH-Dx w/o Silica Gel Cleanup	Nitrate/Nitrite by 363.2	Dissolved CO2 by SM4600CO2C	Dissolved Methane by RSK-175	Full Scan VOC's By 8260	Alkalinity by SM2320B	Dissolved Iron (Ferrous)	Manganese by 6010/6020	TPH-C	MTBE (8260B)	Dissolved Lead by 6020	Total Lead	NWTPH-Dx w/ 566
	PROJECT NUMBER	DATE (MMDDYY)	SAMPLER INITIALS	WELL ID				HCL	HNO3	H2SO4	NONE	OTHER																				
	GW	062027	052214	LB	MW-1			1002	WG	X	X																					
	GW	062027	052214	LB	MW-2	1044	WG	X	X																							
	GW	062027	052214	LB	MW-3	1123	WG	X	X																							
	GW	062027	052214	LB	MW-4	1204	WG	X	X																							
	GW	062027	052214	LB	MW-5	1240	WG	X	X																							
	GW	062027	052214	LB	MW-6	1320	WG	X	X																							
	GW	062027	052214	LB	MW-7	1400	WG	X	X																							
	GW	062027	052214	LB	MW-8	1436	WG	X	X																							

Requisitioned by: (Signature)	Received by: (Signature) <b>SHIPPED VIA FedEx</b>	Date: <b>5/22/14</b>	Time:
Requisitioned by: (Signature)	Received by: (Signature)	Date: <b>5-24-14</b>	Time: <b>0820</b>
Requisitioned by: (Signature)	Received by: (Signature)	Date:	Time:

Page 32 of 33  
07/11/2014



## Login Sample Receipt Checklist

Client: Conestoga-Rovers & Associates, Inc.

Job Number: 490-53894-2

SDG Number: SAP# / 062027

**Login Number: 53894**

**List Number: 1**

**Creator: Huckaba, Jimmy**

**List Source: TestAmerica Nashville**

Question	Answer	Comment
Radioactivity wasn't checked or is <=/ background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	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").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

## ANALYTICAL REPORT

TestAmerica Laboratories, Inc.  
TestAmerica Nashville  
2960 Foster Creighton Drive  
Nashville, TN 37204  
Tel: (615)726-0177

TestAmerica Job ID: 490-58741-1  
TestAmerica Sample Delivery Group: 062027  
Client Project/Site: 200 Railroad Ave S - Ellensburg, WA

For:  
Conestoga-Rovers & Associates, Inc.  
20818 44th Ave W  
Suite 190  
Lynnwood, Washington 98036

Attn: Brian Peters

*Heather Baker*

Authorized for release by:  
8/21/2014 1:35:55 PM  
Heather Baker, Project Manager I  
(615)301-5043  
[heather.baker@testamericainc.com](mailto:heather.baker@testamericainc.com)

Designee for  
Roxanne Connor, Senior Project Manager  
(615)301-5761  
[roxanne.connor@testamericainc.com](mailto:roxanne.connor@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.*



### LINKS

Review your project  
results through  
**TotalAccess**

Have a Question?



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

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# Sample Summary

Client: Conestoga-Rovers & Associates, Inc.  
Project/Site: 200 Railroad Ave S - Ellensburg, WA

TestAmerica Job ID: 490-58741-1  
SDG: 062027

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
490-58741-1	GW-062027-080514-JB-MW-1	Ground Water	08/05/14 07:30	08/06/14 08:20
490-58741-2	GW-062027-080514-JB-MW-2	Ground Water	08/05/14 08:10	08/06/14 08:20
490-58741-3	GW-062027-080514-JB-MW-3	Ground Water	08/05/14 08:40	08/06/14 08:20
490-58741-4	GW-062027-080514-JB-MW-4	Ground Water	08/05/14 09:20	08/06/14 08:20
490-58741-5	GW-062027-080514-JB-MW-5	Ground Water	08/05/14 09:53	08/06/14 08:20
490-58741-6	GW-062027-080514-JB-MW-6	Ground Water	08/05/14 10:27	08/06/14 08:20
490-58741-7	GW-062027-080514-JB-MW-7	Ground Water	08/05/14 11:03	08/06/14 08:20
490-58741-8	GW-062027-080514-JB-MW-8	Ground Water	08/05/14 11:35	08/06/14 08:20

# Case Narrative

Client: Conestoga-Rovers & Associates, Inc.  
Project/Site: 200 Railroad Ave S - Ellensburg, WA

TestAmerica Job ID: 490-58741-1  
SDG: 062027

---

## Job ID: 490-58741-1

---

Laboratory: TestAmerica Nashville

### Narrative

---

#### Job Narrative 490-58741-1

#### Comments

No additional comments.

#### Receipt

The samples were received on 8/6/2014 8:20 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 4 coolers at receipt time were 1.8° C, 1.9° C, 3.1° C and 4.4° C.

#### GC/MS VOA

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

#### VOA Prep

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

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## Job ID: 490-58741-2

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Laboratory: TestAmerica Nashville

### Narrative

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#### Job Narrative 490-58741-2

#### Comments

No additional comments.

#### Receipt

The samples were received on 8/6/2014 8:20 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 4 coolers at receipt time were 1.8° C, 1.9° C, 3.1° C and 4.4° C.

#### GC VOA

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

#### GC Semi VOA

Method(s) NWTPH-Dx: There was insufficient contamination present to perform a pattern match for the following sample(s): GW-062027-080514-JB-MW-1 (490-58741-1).

Method(s) NWTPH-Dx: The following sample(s) contained a hydrocarbon pattern which does not match a typical Total Petroleum Hydrocarbon (TPH) pattern used by the laboratory for quantitative purposes: GW-062027-080514-JB-MW-6 (490-58741-6).

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

#### Metals

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

#### Organic Prep

Method(s) 3510C: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate/MS/MSD) associated with batch 184482.

Method(s) 3510C: The following sample(s) formed emulsions during the extraction procedure: GW-062027-080514-JB-MW-1 (490-58741-1), GW-062027-080514-JB-MW-4 (490-58741-4), GW-062027-080514-JB-MW-6 (490-58741-6), GW-062027-080514-JB-MW-8 (490-58741-8). The emulsions were broken up using centrifugation.

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

# Case Narrative

Client: Conestoga-Rovers & Associates, Inc.  
Project/Site: 200 Railroad Ave S - Ellensburg, WA

TestAmerica Job ID: 490-58741-1  
SDG: 062027

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## Job ID: 490-58741-2 (Continued)

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Laboratory: TestAmerica Nashville (Continued)

### VOA Prep

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

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## Definitions/Glossary

Client: Conestoga-Rovers & Associates, Inc.  
Project/Site: 200 Railroad Ave S - Ellensburg, WA

TestAmerica Job ID: 490-58741-1  
SDG: 062027

### Glossary

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

# Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
 Project/Site: 200 Railroad Ave S - Ellensburg, WA

TestAmerica Job ID: 490-58741-1  
 SDG: 062027

**Client Sample ID: GW-062027-080514-JB-MW-1**

**Lab Sample ID: 490-58741-1**

**Date Collected: 08/05/14 07:30**

**Matrix: Ground Water**

**Date Received: 08/06/14 08:20**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.00		ug/L			08/07/14 00:19	1
1,2-Dibromoethane (EDB)	ND		1.00		ug/L			08/07/14 00:19	1
1,2-Dichloroethane	ND		1.00		ug/L			08/07/14 00:19	1
Diisopropyl ether	ND		2.00		ug/L			08/07/14 00:19	1
Ethylbenzene	ND		1.00		ug/L			08/07/14 00:19	1
Ethyl tert-butyl ether	ND		1.00		ug/L			08/07/14 00:19	1
Methyl tert-butyl ether	ND		1.00		ug/L			08/07/14 00:19	1
Tert-amyl methyl ether	ND		1.00		ug/L			08/07/14 00:19	1
tert-Butyl alcohol (TBA)	ND		10.0		ug/L			08/07/14 00:19	1
Toluene	ND		1.00		ug/L			08/07/14 00:19	1
Xylenes, Total	ND		2.00		ug/L			08/07/14 00:19	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 130					08/07/14 00:19	1
Dibromofluoromethane (Surr)	90		70 - 130					08/07/14 00:19	1
1,2-Dichloroethane-d4 (Surr)	93		70 - 130					08/07/14 00:19	1
Toluene-d8 (Surr)	101		70 - 130					08/07/14 00:19	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C12	ND		100		ug/L			08/07/14 22:42	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	125		50 - 150					08/07/14 22:42	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C24	129		93.9		ug/L		08/18/14 06:26	08/19/14 13:53	1
C24-C40	ND		93.9		ug/L		08/18/14 06:26	08/19/14 13:53	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	75		50 - 150				08/18/14 06:26	08/19/14 13:53	1

**Method: NWTPH-Dx - Semi-Volatile Petroleum Products by NWTPH with Silica Gel Cleanup**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C24	102		93.9		ug/L		08/18/14 06:26	08/20/14 01:53	1
C24-C40	ND		93.9		ug/L		08/18/14 06:26	08/20/14 01:53	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	73		50 - 150				08/18/14 06:26	08/20/14 01:53	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.00200		mg/L		08/11/14 13:45	08/13/14 17:20	1

# Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
 Project/Site: 200 Railroad Ave S - Ellensburg, WA

TestAmerica Job ID: 490-58741-1  
 SDG: 062027

**Client Sample ID: GW-062027-080514-JB-MW-2**

**Lab Sample ID: 490-58741-2**

**Date Collected: 08/05/14 08:10**

**Matrix: Ground Water**

**Date Received: 08/06/14 08:20**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.00		ug/L			08/06/14 21:34	1
1,2-Dibromoethane (EDB)	ND		1.00		ug/L			08/06/14 21:34	1
1,2-Dichloroethane	ND		1.00		ug/L			08/06/14 21:34	1
Diisopropyl ether	ND		2.00		ug/L			08/06/14 21:34	1
Ethylbenzene	ND		1.00		ug/L			08/06/14 21:34	1
Ethyl tert-butyl ether	ND		1.00		ug/L			08/06/14 21:34	1
Methyl tert-butyl ether	ND		1.00		ug/L			08/06/14 21:34	1
Tert-amyl methyl ether	ND		1.00		ug/L			08/06/14 21:34	1
tert-Butyl alcohol (TBA)	ND		10.0		ug/L			08/06/14 21:34	1
Toluene	ND		1.00		ug/L			08/06/14 21:34	1
Xylenes, Total	ND		2.00		ug/L			08/06/14 21:34	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 130					08/06/14 21:34	1
Dibromofluoromethane (Surr)	97		70 - 130					08/06/14 21:34	1
1,2-Dichloroethane-d4 (Surr)	92		70 - 130					08/06/14 21:34	1
Toluene-d8 (Surr)	100		70 - 130					08/06/14 21:34	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C12	ND		100		ug/L			08/07/14 23:13	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	132		50 - 150					08/07/14 23:13	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C24	ND		93.9		ug/L		08/18/14 06:26	08/19/14 14:08	1
C24-C40	ND		93.9		ug/L		08/18/14 06:26	08/19/14 14:08	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	96		50 - 150				08/18/14 06:26	08/19/14 14:08	1

**Method: NWTPH-Dx - Semi-Volatile Petroleum Products by NWTPH with Silica Gel Cleanup**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C24	ND		93.9		ug/L		08/18/14 06:26	08/20/14 02:09	1
C24-C40	ND		93.9		ug/L		08/18/14 06:26	08/20/14 02:09	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	99		50 - 150				08/18/14 06:26	08/20/14 02:09	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.00200		mg/L		08/11/14 13:45	08/12/14 11:31	1

# Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
 Project/Site: 200 Railroad Ave S - Ellensburg, WA

TestAmerica Job ID: 490-58741-1  
 SDG: 062027

**Client Sample ID: GW-062027-080514-JB-MW-3**

**Lab Sample ID: 490-58741-3**

**Date Collected: 08/05/14 08:40**

**Matrix: Ground Water**

**Date Received: 08/06/14 08:20**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.00		ug/L			08/07/14 00:45	1
1,2-Dibromoethane (EDB)	ND		1.00		ug/L			08/07/14 00:45	1
1,2-Dichloroethane	ND		1.00		ug/L			08/07/14 00:45	1
Diisopropyl ether	ND		2.00		ug/L			08/07/14 00:45	1
Ethylbenzene	ND		1.00		ug/L			08/07/14 00:45	1
Ethyl tert-butyl ether	ND		1.00		ug/L			08/07/14 00:45	1
Methyl tert-butyl ether	ND		1.00		ug/L			08/07/14 00:45	1
Tert-amyl methyl ether	ND		1.00		ug/L			08/07/14 00:45	1
tert-Butyl alcohol (TBA)	ND		10.0		ug/L			08/07/14 00:45	1
Toluene	ND		1.00		ug/L			08/07/14 00:45	1
Xylenes, Total	ND		2.00		ug/L			08/07/14 00:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 130		08/07/14 00:45	1
Dibromofluoromethane (Surr)	98		70 - 130		08/07/14 00:45	1
1,2-Dichloroethane-d4 (Surr)	93		70 - 130		08/07/14 00:45	1
Toluene-d8 (Surr)	100		70 - 130		08/07/14 00:45	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C12	ND		100		ug/L			08/07/14 23:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	126		50 - 150		08/07/14 23:43	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C24	ND		93.9		ug/L		08/18/14 06:26	08/19/14 14:40	1
C24-C40	ND		93.9		ug/L		08/18/14 06:26	08/19/14 14:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	90		50 - 150	08/18/14 06:26	08/19/14 14:40	1

**Method: NWTPH-Dx - Semi-Volatile Petroleum Products by NWTPH with Silica Gel Cleanup**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C24	ND		93.9		ug/L		08/18/14 06:26	08/20/14 03:11	1
C24-C40	ND		93.9		ug/L		08/18/14 06:26	08/20/14 03:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	89		50 - 150	08/18/14 06:26	08/20/14 03:11	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.00200		mg/L		08/11/14 13:45	08/12/14 12:22	1



# Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
 Project/Site: 200 Railroad Ave S - Ellensburg, WA

TestAmerica Job ID: 490-58741-1  
 SDG: 062027

**Client Sample ID: GW-062027-080514-JB-MW-4**

**Lab Sample ID: 490-58741-4**

**Date Collected: 08/05/14 09:20**

**Matrix: Ground Water**

**Date Received: 08/06/14 08:20**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.00		ug/L			08/07/14 01:11	1
1,2-Dibromoethane (EDB)	ND		1.00		ug/L			08/07/14 01:11	1
1,2-Dichloroethane	ND		1.00		ug/L			08/07/14 01:11	1
Diisopropyl ether	ND		2.00		ug/L			08/07/14 01:11	1
Ethylbenzene	ND		1.00		ug/L			08/07/14 01:11	1
Ethyl tert-butyl ether	ND		1.00		ug/L			08/07/14 01:11	1
Methyl tert-butyl ether	ND		1.00		ug/L			08/07/14 01:11	1
Tert-amyl methyl ether	ND		1.00		ug/L			08/07/14 01:11	1
tert-Butyl alcohol (TBA)	ND		10.0		ug/L			08/07/14 01:11	1
Toluene	ND		1.00		ug/L			08/07/14 01:11	1
Xylenes, Total	ND		2.00		ug/L			08/07/14 01:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130		08/07/14 01:11	1
Dibromofluoromethane (Surr)	98		70 - 130		08/07/14 01:11	1
1,2-Dichloroethane-d4 (Surr)	92		70 - 130		08/07/14 01:11	1
Toluene-d8 (Surr)	100		70 - 130		08/07/14 01:11	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C12	ND		100		ug/L			08/08/14 00:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	130		50 - 150		08/08/14 00:14	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C24	ND		93.9		ug/L		08/18/14 06:26	08/19/14 14:55	1
C24-C40	ND		93.9		ug/L		08/18/14 06:26	08/19/14 14:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	74		50 - 150	08/18/14 06:26	08/19/14 14:55	1

**Method: NWTPH-Dx - Semi-Volatile Petroleum Products by NWTPH with Silica Gel Cleanup**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C24	ND		93.9		ug/L		08/18/14 06:26	08/20/14 03:26	1
C24-C40	ND		93.9		ug/L		08/18/14 06:26	08/20/14 03:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	70		50 - 150	08/18/14 06:26	08/20/14 03:26	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.00200		mg/L		08/11/14 13:45	08/12/14 12:27	1

# Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
 Project/Site: 200 Railroad Ave S - Ellensburg, WA

TestAmerica Job ID: 490-58741-1  
 SDG: 062027

**Client Sample ID: GW-062027-080514-JB-MW-5**

**Lab Sample ID: 490-58741-5**

**Date Collected: 08/05/14 09:53**

**Matrix: Ground Water**

**Date Received: 08/06/14 08:20**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.00		ug/L			08/07/14 01:36	1
1,2-Dibromoethane (EDB)	ND		1.00		ug/L			08/07/14 01:36	1
1,2-Dichloroethane	ND		1.00		ug/L			08/07/14 01:36	1
Diisopropyl ether	ND		2.00		ug/L			08/07/14 01:36	1
Ethylbenzene	ND		1.00		ug/L			08/07/14 01:36	1
Ethyl tert-butyl ether	ND		1.00		ug/L			08/07/14 01:36	1
Methyl tert-butyl ether	ND		1.00		ug/L			08/07/14 01:36	1
Tert-amyl methyl ether	ND		1.00		ug/L			08/07/14 01:36	1
tert-Butyl alcohol (TBA)	ND		10.0		ug/L			08/07/14 01:36	1
Toluene	ND		1.00		ug/L			08/07/14 01:36	1
Xylenes, Total	ND		2.00		ug/L			08/07/14 01:36	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130					08/07/14 01:36	1
Dibromofluoromethane (Surr)	98		70 - 130					08/07/14 01:36	1
1,2-Dichloroethane-d4 (Surr)	92		70 - 130					08/07/14 01:36	1
Toluene-d8 (Surr)	100		70 - 130					08/07/14 01:36	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C12	ND		100		ug/L			08/08/14 00:45	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	124		50 - 150					08/08/14 00:45	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C24	ND		93.9		ug/L		08/18/14 06:26	08/19/14 15:11	1
C24-C40	ND		93.9		ug/L		08/18/14 06:26	08/19/14 15:11	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	105		50 - 150				08/18/14 06:26	08/19/14 15:11	1

**Method: NWTPH-Dx - Semi-Volatile Petroleum Products by NWTPH with Silica Gel Cleanup**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C24	ND		93.9		ug/L		08/18/14 06:26	08/20/14 03:42	1
C24-C40	ND		93.9		ug/L		08/18/14 06:26	08/20/14 03:42	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	113		50 - 150				08/18/14 06:26	08/20/14 03:42	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.00200		mg/L		08/11/14 13:45	08/12/14 12:32	1

# Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
 Project/Site: 200 Railroad Ave S - Ellensburg, WA

TestAmerica Job ID: 490-58741-1  
 SDG: 062027

**Client Sample ID: GW-062027-080514-JB-MW-6**

**Lab Sample ID: 490-58741-6**

**Date Collected: 08/05/14 10:27**

**Matrix: Ground Water**

**Date Received: 08/06/14 08:20**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.00		ug/L			08/07/14 02:02	1
1,2-Dibromoethane (EDB)	ND		1.00		ug/L			08/07/14 02:02	1
1,2-Dichloroethane	ND		1.00		ug/L			08/07/14 02:02	1
Diisopropyl ether	ND		2.00		ug/L			08/07/14 02:02	1
Ethylbenzene	ND		1.00		ug/L			08/07/14 02:02	1
Ethyl tert-butyl ether	ND		1.00		ug/L			08/07/14 02:02	1
Methyl tert-butyl ether	ND		1.00		ug/L			08/07/14 02:02	1
Tert-amyl methyl ether	ND		1.00		ug/L			08/07/14 02:02	1
tert-Butyl alcohol (TBA)	ND		10.0		ug/L			08/07/14 02:02	1
Toluene	ND		1.00		ug/L			08/07/14 02:02	1
Xylenes, Total	ND		2.00		ug/L			08/07/14 02:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130		08/07/14 02:02	1
Dibromofluoromethane (Surr)	98		70 - 130		08/07/14 02:02	1
1,2-Dichloroethane-d4 (Surr)	92		70 - 130		08/07/14 02:02	1
Toluene-d8 (Surr)	99		70 - 130		08/07/14 02:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C12	ND		100		ug/L			08/08/14 01:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	121		50 - 150		08/08/14 01:15	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C24	235		93.9		ug/L		08/18/14 06:26	08/19/14 15:26	1
C24-C40	ND		93.9		ug/L		08/18/14 06:26	08/19/14 15:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	73		50 - 150	08/18/14 06:26	08/19/14 15:26	1

**Method: NWTPH-Dx - Semi-Volatile Petroleum Products by NWTPH with Silica Gel Cleanup**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C24	205		93.9		ug/L		08/18/14 06:26	08/20/14 03:57	1
C24-C40	ND		93.9		ug/L		08/18/14 06:26	08/20/14 03:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	74		50 - 150	08/18/14 06:26	08/20/14 03:57	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.00200		mg/L		08/11/14 13:45	08/12/14 12:37	1

# Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
 Project/Site: 200 Railroad Ave S - Ellensburg, WA

TestAmerica Job ID: 490-58741-1  
 SDG: 062027

**Client Sample ID: GW-062027-080514-JB-MW-7**

**Lab Sample ID: 490-58741-7**

**Date Collected: 08/05/14 11:03**

**Matrix: Ground Water**

**Date Received: 08/06/14 08:20**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.00		ug/L			08/07/14 02:28	1
1,2-Dibromoethane (EDB)	ND		1.00		ug/L			08/07/14 02:28	1
1,2-Dichloroethane	ND		1.00		ug/L			08/07/14 02:28	1
Diisopropyl ether	ND		2.00		ug/L			08/07/14 02:28	1
Ethylbenzene	ND		1.00		ug/L			08/07/14 02:28	1
Ethyl tert-butyl ether	ND		1.00		ug/L			08/07/14 02:28	1
Methyl tert-butyl ether	ND		1.00		ug/L			08/07/14 02:28	1
Tert-amyl methyl ether	ND		1.00		ug/L			08/07/14 02:28	1
tert-Butyl alcohol (TBA)	ND		10.0		ug/L			08/07/14 02:28	1
Toluene	ND		1.00		ug/L			08/07/14 02:28	1
Xylenes, Total	ND		2.00		ug/L			08/07/14 02:28	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130					08/07/14 02:28	1
Dibromofluoromethane (Surr)	97		70 - 130					08/07/14 02:28	1
1,2-Dichloroethane-d4 (Surr)	94		70 - 130					08/07/14 02:28	1
Toluene-d8 (Surr)	100		70 - 130					08/07/14 02:28	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C12	ND		100		ug/L			08/08/14 01:46	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	126		50 - 150					08/08/14 01:46	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C24	ND		93.9		ug/L		08/18/14 06:26	08/19/14 15:42	1
C24-C40	ND		93.9		ug/L		08/18/14 06:26	08/19/14 15:42	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	97		50 - 150				08/18/14 06:26	08/19/14 15:42	1

**Method: NWTPH-Dx - Semi-Volatile Petroleum Products by NWTPH with Silica Gel Cleanup**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C24	ND		93.9		ug/L		08/18/14 06:26	08/20/14 04:13	1
C24-C40	ND		93.9		ug/L		08/18/14 06:26	08/20/14 04:13	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	99		50 - 150				08/18/14 06:26	08/20/14 04:13	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.00200		mg/L		08/11/14 13:45	08/12/14 12:42	1

# Client Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
 Project/Site: 200 Railroad Ave S - Ellensburg, WA

TestAmerica Job ID: 490-58741-1  
 SDG: 062027

**Client Sample ID: GW-062027-080514-JB-MW-8**

**Lab Sample ID: 490-58741-8**

**Date Collected: 08/05/14 11:35**

**Matrix: Ground Water**

**Date Received: 08/06/14 08:20**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.00		ug/L			08/07/14 02:53	1
1,2-Dibromoethane (EDB)	ND		1.00		ug/L			08/07/14 02:53	1
1,2-Dichloroethane	ND		1.00		ug/L			08/07/14 02:53	1
Diisopropyl ether	ND		2.00		ug/L			08/07/14 02:53	1
Ethylbenzene	ND		1.00		ug/L			08/07/14 02:53	1
Ethyl tert-butyl ether	ND		1.00		ug/L			08/07/14 02:53	1
Methyl tert-butyl ether	ND		1.00		ug/L			08/07/14 02:53	1
Tert-amyl methyl ether	ND		1.00		ug/L			08/07/14 02:53	1
tert-Butyl alcohol (TBA)	ND		10.0		ug/L			08/07/14 02:53	1
Toluene	ND		1.00		ug/L			08/07/14 02:53	1
Xylenes, Total	ND		2.00		ug/L			08/07/14 02:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130		08/07/14 02:53	1
Dibromofluoromethane (Surr)	97		70 - 130		08/07/14 02:53	1
1,2-Dichloroethane-d4 (Surr)	96		70 - 130		08/07/14 02:53	1
Toluene-d8 (Surr)	100		70 - 130		08/07/14 02:53	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C12	ND		100		ug/L			08/08/14 02:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	122		50 - 150		08/08/14 02:16	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C24	ND		93.9		ug/L		08/18/14 06:26	08/19/14 15:58	1
C24-C40	ND		93.9		ug/L		08/18/14 06:26	08/19/14 15:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	89		50 - 150	08/18/14 06:26	08/19/14 15:58	1

**Method: NWTPH-Dx - Semi-Volatile Petroleum Products by NWTPH with Silica Gel Cleanup**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C24	ND		93.9		ug/L		08/18/14 06:26	08/20/14 04:28	1
C24-C40	ND		93.9		ug/L		08/18/14 06:26	08/20/14 04:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
o-Terphenyl	98		50 - 150	08/18/14 06:26	08/20/14 04:28	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.00200		mg/L		08/11/14 13:45	08/12/14 12:47	1

# QC Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
 Project/Site: 200 Railroad Ave S - Ellensburg, WA

TestAmerica Job ID: 490-58741-1  
 SDG: 062027

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

**Lab Sample ID: MB 490-181983/8**

**Matrix: Water**

**Analysis Batch: 181983**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.00		ug/L			08/06/14 20:18	1
1,2-Dibromoethane (EDB)	ND		1.00		ug/L			08/06/14 20:18	1
1,2-Dichloroethane	ND		1.00		ug/L			08/06/14 20:18	1
Diisopropyl ether	ND		2.00		ug/L			08/06/14 20:18	1
Ethylbenzene	ND		1.00		ug/L			08/06/14 20:18	1
Ethyl tert-butyl ether	ND		1.00		ug/L			08/06/14 20:18	1
Methyl tert-butyl ether	ND		1.00		ug/L			08/06/14 20:18	1
Tert-amyl methyl ether	ND		1.00		ug/L			08/06/14 20:18	1
tert-Butyl alcohol (TBA)	ND		10.0		ug/L			08/06/14 20:18	1
Toluene	ND		1.00		ug/L			08/06/14 20:18	1
Xylenes, Total	ND		2.00		ug/L			08/06/14 20:18	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130		08/06/14 20:18	1
Dibromofluoromethane (Surr)	100		70 - 130		08/06/14 20:18	1
1,2-Dichloroethane-d4 (Surr)	94		70 - 130		08/06/14 20:18	1
Toluene-d8 (Surr)	101		70 - 130		08/06/14 20:18	1

**Lab Sample ID: LCS 490-181983/3**

**Matrix: Water**

**Analysis Batch: 181983**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	50.0	49.94		ug/L		100	80 - 121
1,2-Dibromoethane (EDB)	50.0	51.94		ug/L		104	80 - 129
1,2-Dichloroethane	50.0	47.38		ug/L		95	77 - 121
Diisopropyl ether	50.0	45.39		ug/L		91	61 - 142
Ethylbenzene	50.0	48.46		ug/L		97	80 - 130
Ethyl tert-butyl ether	50.0	48.53		ug/L		97	63 - 135
Methyl tert-butyl ether	50.0	47.32		ug/L		95	72 - 133
Tert-amyl methyl ether	50.0	49.39		ug/L		99	63 - 135
tert-Butyl alcohol (TBA)	500	500.4		ug/L		100	54 - 150
Toluene	50.0	48.70		ug/L		97	80 - 126
Xylenes, Total	100	99.54		ug/L		100	80 - 132

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	105		70 - 130
Dibromofluoromethane (Surr)	101		70 - 130
1,2-Dichloroethane-d4 (Surr)	94		70 - 130
Toluene-d8 (Surr)	103		70 - 130

**Lab Sample ID: LCSD 490-181983/4**

**Matrix: Water**

**Analysis Batch: 181983**

**Client Sample ID: Lab Control Sample Dup**

**Prep Type: Total/NA**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	50.0	48.74		ug/L		97	80 - 121	2	17

TestAmerica Nashville

# QC Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
 Project/Site: 200 Railroad Ave S - Ellensburg, WA

TestAmerica Job ID: 490-58741-1  
 SDG: 062027

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

**Lab Sample ID: LCSD 490-181983/4**

**Matrix: Water**

**Analysis Batch: 181983**

**Client Sample ID: Lab Control Sample Dup**

**Prep Type: Total/NA**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2-Dibromoethane (EDB)	50.0	51.44		ug/L		103	80 - 129	1	15
1,2-Dichloroethane	50.0	46.77		ug/L		94	77 - 121	1	17
Diisopropyl ether	50.0	44.88		ug/L		90	61 - 142	1	50
Ethylbenzene	50.0	47.22		ug/L		94	80 - 130	3	15
Ethyl tert-butyl ether	50.0	47.91		ug/L		96	63 - 135	1	19
Methyl tert-butyl ether	50.0	47.08		ug/L		94	72 - 133	1	16
Tert-amyl methyl ether	50.0	47.49		ug/L		95	63 - 135	4	15
tert-Butyl alcohol (TBA)	500	488.0		ug/L		98	54 - 150	3	32
Toluene	50.0	47.60		ug/L		95	80 - 126	2	15
Xylenes, Total	100	97.64		ug/L		98	80 - 132	2	15

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	105		70 - 130
Dibromofluoromethane (Surr)	101		70 - 130
1,2-Dichloroethane-d4 (Surr)	93		70 - 130
Toluene-d8 (Surr)	103		70 - 130

**Lab Sample ID: 490-58741-2 MS**

**Matrix: Ground Water**

**Analysis Batch: 181983**

**Client Sample ID: GW-062027-080514-JB-MW-2**

**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	ND		50.0	49.96		ug/L		100	75 - 133		
1,2-Dibromoethane (EDB)	ND		50.0	51.33		ug/L		103	75 - 137		
1,2-Dichloroethane	ND		50.0	47.82		ug/L		96	64 - 136		
Diisopropyl ether	ND		50.0	44.93		ug/L		90	10 - 200		
Ethylbenzene	ND		50.0	49.28		ug/L		99	79 - 139		
Ethyl tert-butyl ether	ND		50.0	48.39		ug/L		97	60 - 138		
Methyl tert-butyl ether	ND		50.0	48.12		ug/L		96	66 - 141		
Tert-amyl methyl ether	ND		50.0	49.77		ug/L		100	61 - 138		
tert-Butyl alcohol (TBA)	ND		500	465.1		ug/L		93	50 - 183		
Toluene	ND		50.0	49.22		ug/L		98	75 - 136		
Xylenes, Total	ND		100	101.5		ug/L		101	74 - 141		

Surrogate	MS		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	104		70 - 130
Dibromofluoromethane (Surr)	102		70 - 130
1,2-Dichloroethane-d4 (Surr)	95		70 - 130
Toluene-d8 (Surr)	103		70 - 130

**Lab Sample ID: 490-58741-2 MSD**

**Matrix: Ground Water**

**Analysis Batch: 181983**

**Client Sample ID: GW-062027-080514-JB-MW-2**

**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	ND		50.0	53.05		ug/L		106	75 - 133	6	17
1,2-Dibromoethane (EDB)	ND		50.0	53.43		ug/L		107	75 - 137	4	15
1,2-Dichloroethane	ND		50.0	49.70		ug/L		99	64 - 136	4	17

TestAmerica Nashville

# QC Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
 Project/Site: 200 Railroad Ave S - Ellensburg, WA

TestAmerica Job ID: 490-58741-1  
 SDG: 062027

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

Lab Sample ID: 490-58741-2 MSD

Matrix: Ground Water

Analysis Batch: 181983

Client Sample ID: GW-062027-080514-JB-MW-2

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Diisopropyl ether	ND		50.0	47.64		ug/L		95	10 - 200	6	50
Ethylbenzene	ND		50.0	52.37		ug/L		105	79 - 139	6	15
Ethyl tert-butyl ether	ND		50.0	50.33		ug/L		101	60 - 138	4	19
Methyl tert-butyl ether	ND		50.0	49.20		ug/L		98	66 - 141	2	16
Tert-amyl methyl ether	ND		50.0	50.94		ug/L		102	61 - 138	2	15
tert-Butyl alcohol (TBA)	ND		500	506.1		ug/L		101	50 - 183	8	32
Toluene	ND		50.0	52.05		ug/L		104	75 - 136	6	15
Xylenes, Total	ND		100	107.0		ug/L		107	74 - 141	5	15

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	105		70 - 130
Dibromofluoromethane (Surr)	101		70 - 130
1,2-Dichloroethane-d4 (Surr)	94		70 - 130
Toluene-d8 (Surr)	103		70 - 130

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

Lab Sample ID: MB 490-182008/21

Matrix: Water

Analysis Batch: 182008

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C12	ND		100		ug/L			08/07/14 19:08	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	133		50 - 150		08/07/14 19:08	1

Lab Sample ID: LCS 490-182008/19

Matrix: Water

Analysis Batch: 182008

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
C6-C12	1000	988.6		ug/L		99	39 - 143

Surrogate	LCS %Recovery	LCS Qualifier	Limits
a,a,a-Trifluorotoluene	113		50 - 150

Lab Sample ID: LCSD 490-182008/20

Matrix: Water

Analysis Batch: 182008

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
C6-C12	1000	983.3		ug/L		98	39 - 143	1	18

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
a,a,a-Trifluorotoluene	112		50 - 150

TestAmerica Nashville



# QC Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
 Project/Site: 200 Railroad Ave S - Ellensburg, WA

TestAmerica Job ID: 490-58741-1  
 SDG: 062027

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

**Lab Sample ID: 490-58719-E-8 DU**  
**Matrix: Water**  
**Analysis Batch: 182008**

**Client Sample ID: Duplicate**  
**Prep Type: Total/NA**

Analyte	Sample	Sample	DU		Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
C6-C12	ND		ND		ug/L		NC	18
<b>DU DU</b>								
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>					
<i>a,a,a-Trifluorotoluene</i>	130		50 - 150					

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

**Lab Sample ID: MB 490-184482/1-A**  
**Matrix: Water**  
**Analysis Batch: 184863**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 184482**

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
C10-C24	ND		100		ug/L		08/18/14 06:26	08/19/14 13:21	1
C24-C40	ND		100		ug/L		08/18/14 06:26	08/19/14 13:21	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>
<i>o-Terphenyl</i>	86		50 - 150		08/18/14 06:26		08/19/14 13:21		1

**Lab Sample ID: LCS 490-184482/2-A**  
**Matrix: Water**  
**Analysis Batch: 184863**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 184482**

Analyte	Spike Added	LCS		Unit	D	%Rec	%Rec.		
		Result	Qualifier				Limits		
C10-C24	1000	786.4		ug/L		79	51 - 132		
<b>LCS LCS</b>									
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>						
<i>o-Terphenyl</i>	96		50 - 150						

**Lab Sample ID: 490-58741-2 DU**  
**Matrix: Ground Water**  
**Analysis Batch: 184863**

**Client Sample ID: GW-062027-080514-JB-MW-2**  
**Prep Type: Total/NA**  
**Prep Batch: 184482**

Analyte	Sample	Sample	DU		Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
C10-C24	ND		ND		ug/L		25	41
C24-C40	ND		ND		ug/L		NC	41
<b>DU DU</b>								
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>					
<i>o-Terphenyl</i>	101		50 - 150					

# QC Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
 Project/Site: 200 Railroad Ave S - Ellensburg, WA

TestAmerica Job ID: 490-58741-1  
 SDG: 062027

## Method: NWTPH-Dx - Semi-Volatile Petroleum Products by NWTPH with Silica Gel Cleanup

**Lab Sample ID: MB 490-184482/1-A**  
**Matrix: Water**  
**Analysis Batch: 184991**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 184482**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C10-C24	ND		100		ug/L		08/18/14 06:26	08/20/14 01:38	1
C24-C40	ND		100		ug/L		08/18/14 06:26	08/20/14 01:38	1
Surrogate	%Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	93		50 - 150				08/18/14 06:26	08/20/14 01:38	1

**Lab Sample ID: LCS 490-184482/2-A**  
**Matrix: Water**  
**Analysis Batch: 184991**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 184482**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
C10-C24	1000	764.3		ug/L		76	51 - 132
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
<i>o</i> -Terphenyl	99		50 - 150				

**Lab Sample ID: 490-58741-2 DU**  
**Matrix: Ground Water**  
**Analysis Batch: 184991**

**Client Sample ID: GW-062027-080514-JB-MW-2**  
**Prep Type: Total/NA**  
**Prep Batch: 184482**

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
C10-C24	ND		ND		ug/L		0.2	41
C24-C40	ND		ND		ug/L		NC	41
Surrogate	DU %Recovery	DU Qualifier	Limits					
<i>o</i> -Terphenyl	107		50 - 150					

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

**Lab Sample ID: MB 490-182920/1-A**  
**Matrix: Water**  
**Analysis Batch: 183335**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 182920**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.00200		mg/L		08/11/14 13:45	08/12/14 11:20	1

**Lab Sample ID: LCS 490-182920/2-A**  
**Matrix: Water**  
**Analysis Batch: 183335**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 182920**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Lead	0.100	0.1052		mg/L		105	80 - 120

# QC Sample Results

Client: Conestoga-Rovers & Associates, Inc.  
 Project/Site: 200 Railroad Ave S - Ellensburg, WA

TestAmerica Job ID: 490-58741-1  
 SDG: 062027

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

**Lab Sample ID: 490-58741-2 MS**

**Matrix: Ground Water**

**Analysis Batch: 183335**

**Client Sample ID: GW-062027-080514-JB-MW-2**

**Prep Type: Total/NA**

**Prep Batch: 182920**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits	
Lead	ND		0.100	0.09667		mg/L		97	75 - 125	

**Lab Sample ID: 490-58741-2 MSD**

**Matrix: Ground Water**

**Analysis Batch: 183335**

**Client Sample ID: GW-062027-080514-JB-MW-2**

**Prep Type: Total/NA**

**Prep Batch: 182920**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits		RPD	RPD Limit
Lead	ND		0.100	0.1031		mg/L		103	75 - 125		6	20

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

# QC Association Summary

Client: Conestoga-Rovers & Associates, Inc.  
 Project/Site: 200 Railroad Ave S - Ellensburg, WA

TestAmerica Job ID: 490-58741-1  
 SDG: 062027

## GC/MS VOA

### Analysis Batch: 181983

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-58741-1	GW-062027-080514-JB-MW-1	Total/NA	Ground Water	8260B	
490-58741-2	GW-062027-080514-JB-MW-2	Total/NA	Ground Water	8260B	
490-58741-2 MS	GW-062027-080514-JB-MW-2	Total/NA	Ground Water	8260B	
490-58741-2 MSD	GW-062027-080514-JB-MW-2	Total/NA	Ground Water	8260B	
490-58741-3	GW-062027-080514-JB-MW-3	Total/NA	Ground Water	8260B	
490-58741-4	GW-062027-080514-JB-MW-4	Total/NA	Ground Water	8260B	
490-58741-5	GW-062027-080514-JB-MW-5	Total/NA	Ground Water	8260B	
490-58741-6	GW-062027-080514-JB-MW-6	Total/NA	Ground Water	8260B	
490-58741-7	GW-062027-080514-JB-MW-7	Total/NA	Ground Water	8260B	
490-58741-8	GW-062027-080514-JB-MW-8	Total/NA	Ground Water	8260B	
LCS 490-181983/3	Lab Control Sample	Total/NA	Water	8260B	
LCS 490-181983/4	Lab Control Sample Dup	Total/NA	Water	8260B	
MB 490-181983/8	Method Blank	Total/NA	Water	8260B	

## GC VOA

### Analysis Batch: 182008

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-58719-E-8 DU	Duplicate	Total/NA	Water	NWTPH-Gx	
490-58741-1	GW-062027-080514-JB-MW-1	Total/NA	Ground Water	NWTPH-Gx	
490-58741-2	GW-062027-080514-JB-MW-2	Total/NA	Ground Water	NWTPH-Gx	
490-58741-3	GW-062027-080514-JB-MW-3	Total/NA	Ground Water	NWTPH-Gx	
490-58741-4	GW-062027-080514-JB-MW-4	Total/NA	Ground Water	NWTPH-Gx	
490-58741-5	GW-062027-080514-JB-MW-5	Total/NA	Ground Water	NWTPH-Gx	
490-58741-6	GW-062027-080514-JB-MW-6	Total/NA	Ground Water	NWTPH-Gx	
490-58741-7	GW-062027-080514-JB-MW-7	Total/NA	Ground Water	NWTPH-Gx	
490-58741-8	GW-062027-080514-JB-MW-8	Total/NA	Ground Water	NWTPH-Gx	
LCS 490-182008/19	Lab Control Sample	Total/NA	Water	NWTPH-Gx	
LCS 490-182008/20	Lab Control Sample Dup	Total/NA	Water	NWTPH-Gx	
MB 490-182008/21	Method Blank	Total/NA	Water	NWTPH-Gx	

## GC Semi VOA

### Prep Batch: 184482

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-58741-1	GW-062027-080514-JB-MW-1	Total/NA	Ground Water	3510C	
490-58741-2	GW-062027-080514-JB-MW-2	Total/NA	Ground Water	3510C	
490-58741-2 DU	GW-062027-080514-JB-MW-2	Total/NA	Ground Water	3510C	
490-58741-3	GW-062027-080514-JB-MW-3	Total/NA	Ground Water	3510C	
490-58741-4	GW-062027-080514-JB-MW-4	Total/NA	Ground Water	3510C	
490-58741-5	GW-062027-080514-JB-MW-5	Total/NA	Ground Water	3510C	
490-58741-6	GW-062027-080514-JB-MW-6	Total/NA	Ground Water	3510C	
490-58741-7	GW-062027-080514-JB-MW-7	Total/NA	Ground Water	3510C	
490-58741-8	GW-062027-080514-JB-MW-8	Total/NA	Ground Water	3510C	
LCS 490-184482/2-A	Lab Control Sample	Total/NA	Water	3510C	
MB 490-184482/1-A	Method Blank	Total/NA	Water	3510C	

### Analysis Batch: 184863

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-58741-1	GW-062027-080514-JB-MW-1	Total/NA	Ground Water	NWTPH-Dx	184482

TestAmerica Nashville

# QC Association Summary

Client: Conestoga-Rovers & Associates, Inc.  
 Project/Site: 200 Railroad Ave S - Ellensburg, WA

TestAmerica Job ID: 490-58741-1  
 SDG: 062027

## GC Semi VOA (Continued)

### Analysis Batch: 184863 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-58741-2	GW-062027-080514-JB-MW-2	Total/NA	Ground Water	NWTPH-Dx	184482
490-58741-2 DU	GW-062027-080514-JB-MW-2	Total/NA	Ground Water	NWTPH-Dx	184482
490-58741-3	GW-062027-080514-JB-MW-3	Total/NA	Ground Water	NWTPH-Dx	184482
490-58741-4	GW-062027-080514-JB-MW-4	Total/NA	Ground Water	NWTPH-Dx	184482
490-58741-5	GW-062027-080514-JB-MW-5	Total/NA	Ground Water	NWTPH-Dx	184482
490-58741-6	GW-062027-080514-JB-MW-6	Total/NA	Ground Water	NWTPH-Dx	184482
490-58741-7	GW-062027-080514-JB-MW-7	Total/NA	Ground Water	NWTPH-Dx	184482
490-58741-8	GW-062027-080514-JB-MW-8	Total/NA	Ground Water	NWTPH-Dx	184482
LCS 490-184482/2-A	Lab Control Sample	Total/NA	Water	NWTPH-Dx	184482
MB 490-184482/1-A	Method Blank	Total/NA	Water	NWTPH-Dx	184482

### Analysis Batch: 184991

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-58741-1	GW-062027-080514-JB-MW-1	Total/NA	Ground Water	NWTPH-Dx	184482
490-58741-2	GW-062027-080514-JB-MW-2	Total/NA	Ground Water	NWTPH-Dx	184482
490-58741-2 DU	GW-062027-080514-JB-MW-2	Total/NA	Ground Water	NWTPH-Dx	184482
490-58741-3	GW-062027-080514-JB-MW-3	Total/NA	Ground Water	NWTPH-Dx	184482
490-58741-4	GW-062027-080514-JB-MW-4	Total/NA	Ground Water	NWTPH-Dx	184482
490-58741-5	GW-062027-080514-JB-MW-5	Total/NA	Ground Water	NWTPH-Dx	184482
490-58741-6	GW-062027-080514-JB-MW-6	Total/NA	Ground Water	NWTPH-Dx	184482
490-58741-7	GW-062027-080514-JB-MW-7	Total/NA	Ground Water	NWTPH-Dx	184482
490-58741-8	GW-062027-080514-JB-MW-8	Total/NA	Ground Water	NWTPH-Dx	184482
LCS 490-184482/2-A	Lab Control Sample	Total/NA	Water	NWTPH-Dx	184482
MB 490-184482/1-A	Method Blank	Total/NA	Water	NWTPH-Dx	184482

## Metals

### Prep Batch: 182920

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-58741-1	GW-062027-080514-JB-MW-1	Total/NA	Ground Water	3010A	
490-58741-2	GW-062027-080514-JB-MW-2	Total/NA	Ground Water	3010A	
490-58741-2 MS	GW-062027-080514-JB-MW-2	Total/NA	Ground Water	3010A	
490-58741-2 MSD	GW-062027-080514-JB-MW-2	Total/NA	Ground Water	3010A	
490-58741-3	GW-062027-080514-JB-MW-3	Total/NA	Ground Water	3010A	
490-58741-4	GW-062027-080514-JB-MW-4	Total/NA	Ground Water	3010A	
490-58741-5	GW-062027-080514-JB-MW-5	Total/NA	Ground Water	3010A	
490-58741-6	GW-062027-080514-JB-MW-6	Total/NA	Ground Water	3010A	
490-58741-7	GW-062027-080514-JB-MW-7	Total/NA	Ground Water	3010A	
490-58741-8	GW-062027-080514-JB-MW-8	Total/NA	Ground Water	3010A	
LCS 490-182920/2-A	Lab Control Sample	Total/NA	Water	3010A	
MB 490-182920/1-A	Method Blank	Total/NA	Water	3010A	

### Analysis Batch: 183335

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-58741-2	GW-062027-080514-JB-MW-2	Total/NA	Ground Water	6020A	182920
490-58741-2 MS	GW-062027-080514-JB-MW-2	Total/NA	Ground Water	6020A	182920
490-58741-2 MSD	GW-062027-080514-JB-MW-2	Total/NA	Ground Water	6020A	182920
490-58741-3	GW-062027-080514-JB-MW-3	Total/NA	Ground Water	6020A	182920
490-58741-4	GW-062027-080514-JB-MW-4	Total/NA	Ground Water	6020A	182920
490-58741-5	GW-062027-080514-JB-MW-5	Total/NA	Ground Water	6020A	182920

TestAmerica Nashville

# QC Association Summary

Client: Conestoga-Rovers & Associates, Inc.  
Project/Site: 200 Railroad Ave S - Ellensburg, WA

TestAmerica Job ID: 490-58741-1  
SDG: 062027

## Metals (Continued)

### Analysis Batch: 183335 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-58741-6	GW-062027-080514-JB-MW-6	Total/NA	Ground Water	6020A	182920
490-58741-7	GW-062027-080514-JB-MW-7	Total/NA	Ground Water	6020A	182920
490-58741-8	GW-062027-080514-JB-MW-8	Total/NA	Ground Water	6020A	182920
LCS 490-182920/2-A	Lab Control Sample	Total/NA	Water	6020A	182920
MB 490-182920/1-A	Method Blank	Total/NA	Water	6020A	182920

### Analysis Batch: 183647

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-58741-1	GW-062027-080514-JB-MW-1	Total/NA	Ground Water	6020A	182920

# Lab Chronicle

Client: Conestoga-Rovers & Associates, Inc.  
 Project/Site: 200 Railroad Ave S - Ellensburg, WA

TestAmerica Job ID: 490-58741-1  
 SDG: 062027

**Client Sample ID: GW-062027-080514-JB-MW-1**

**Lab Sample ID: 490-58741-1**

Date Collected: 08/05/14 07:30

Matrix: Ground Water

Date Received: 08/06/14 08:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	10 mL	10 mL	181983	08/07/14 00:19	BJM	TAL NSH
Total/NA	Analysis	NWTPH-Gx		1	5 mL	5 mL	182008	08/07/14 22:42	GWM	TAL NSH
Total/NA	Prep	3510C			1065 mL	1.0 mL	184482	08/18/14 06:26	CLM	TAL NSH
Total/NA	Analysis	NWTPH-Dx		1	1065 mL	1.0 mL	184863	08/19/14 13:53	JPS	TAL NSH
Total/NA	Prep	3510C			1065 mL	1.0 mL	184482	08/18/14 06:26	CLM	TAL NSH
Total/NA	Analysis	NWTPH-Dx		1	1065 mL	1.0 mL	184991	08/20/14 01:53	JPS	TAL NSH
Total/NA	Prep	3010A			50 mL	50 mL	182920	08/11/14 13:45	AAS	TAL NSH
Total/NA	Analysis	6020A		1	50 mL	50 mL	183647	08/13/14 17:20	JBD	TAL NSH

**Client Sample ID: GW-062027-080514-JB-MW-2**

**Lab Sample ID: 490-58741-2**

Date Collected: 08/05/14 08:10

Matrix: Ground Water

Date Received: 08/06/14 08:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	10 mL	10 mL	181983	08/06/14 21:34	BJM	TAL NSH
Total/NA	Analysis	NWTPH-Gx		1	5 mL	5 mL	182008	08/07/14 23:13	GWM	TAL NSH
Total/NA	Prep	3510C			1065 mL	1.0 mL	184482	08/18/14 06:26	CLM	TAL NSH
Total/NA	Analysis	NWTPH-Dx		1	1065 mL	1.0 mL	184863	08/19/14 14:08	JPS	TAL NSH
Total/NA	Prep	3510C			1065 mL	1.0 mL	184482	08/18/14 06:26	CLM	TAL NSH
Total/NA	Analysis	NWTPH-Dx		1	1065 mL	1.0 mL	184991	08/20/14 02:09	JPS	TAL NSH
Total/NA	Prep	3010A			50 mL	50 mL	182920	08/11/14 13:45	AAS	TAL NSH
Total/NA	Analysis	6020A		1	50 mL	50 mL	183335	08/12/14 11:31	JBD	TAL NSH

**Client Sample ID: GW-062027-080514-JB-MW-3**

**Lab Sample ID: 490-58741-3**

Date Collected: 08/05/14 08:40

Matrix: Ground Water

Date Received: 08/06/14 08:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	10 mL	10 mL	181983	08/07/14 00:45	BJM	TAL NSH
Total/NA	Analysis	NWTPH-Gx		1	5 mL	5 mL	182008	08/07/14 23:43	GWM	TAL NSH
Total/NA	Prep	3510C			1065 mL	1.0 mL	184482	08/18/14 06:26	CLM	TAL NSH
Total/NA	Analysis	NWTPH-Dx		1	1065 mL	1.0 mL	184863	08/19/14 14:40	JPS	TAL NSH
Total/NA	Prep	3510C			1065 mL	1.0 mL	184482	08/18/14 06:26	CLM	TAL NSH
Total/NA	Analysis	NWTPH-Dx		1	1065 mL	1.0 mL	184991	08/20/14 03:11	JPS	TAL NSH
Total/NA	Prep	3010A			50 mL	50 mL	182920	08/11/14 13:45	AAS	TAL NSH
Total/NA	Analysis	6020A		1	50 mL	50 mL	183335	08/12/14 12:22	JBD	TAL NSH

# Lab Chronicle

Client: Conestoga-Rovers & Associates, Inc.  
 Project/Site: 200 Railroad Ave S - Ellensburg, WA

TestAmerica Job ID: 490-58741-1  
 SDG: 062027

**Client Sample ID: GW-062027-080514-JB-MW-4**

**Lab Sample ID: 490-58741-4**

**Date Collected: 08/05/14 09:20**

**Matrix: Ground Water**

**Date Received: 08/06/14 08:20**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	10 mL	10 mL	181983	08/07/14 01:11	BJM	TAL NSH
Total/NA	Analysis	NWTPH-Gx		1	5 mL	5 mL	182008	08/08/14 00:14	GWM	TAL NSH
Total/NA	Prep	3510C			1065 mL	1.0 mL	184482	08/18/14 06:26	CLM	TAL NSH
Total/NA	Analysis	NWTPH-Dx		1	1065 mL	1.0 mL	184863	08/19/14 14:55	JPS	TAL NSH
Total/NA	Prep	3510C			1065 mL	1.0 mL	184482	08/18/14 06:26	CLM	TAL NSH
Total/NA	Analysis	NWTPH-Dx		1	1065 mL	1.0 mL	184991	08/20/14 03:26	JPS	TAL NSH
Total/NA	Prep	3010A			50 mL	50 mL	182920	08/11/14 13:45	AAS	TAL NSH
Total/NA	Analysis	6020A		1	50 mL	50 mL	183335	08/12/14 12:27	JBD	TAL NSH

**Client Sample ID: GW-062027-080514-JB-MW-5**

**Lab Sample ID: 490-58741-5**

**Date Collected: 08/05/14 09:53**

**Matrix: Ground Water**

**Date Received: 08/06/14 08:20**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	10 mL	10 mL	181983	08/07/14 01:36	BJM	TAL NSH
Total/NA	Analysis	NWTPH-Gx		1	5 mL	5 mL	182008	08/08/14 00:45	GWM	TAL NSH
Total/NA	Prep	3510C			1065 mL	1.0 mL	184482	08/18/14 06:26	CLM	TAL NSH
Total/NA	Analysis	NWTPH-Dx		1	1065 mL	1.0 mL	184863	08/19/14 15:11	JPS	TAL NSH
Total/NA	Prep	3510C			1065 mL	1.0 mL	184482	08/18/14 06:26	CLM	TAL NSH
Total/NA	Analysis	NWTPH-Dx		1	1065 mL	1.0 mL	184991	08/20/14 03:42	JPS	TAL NSH
Total/NA	Prep	3010A			50 mL	50 mL	182920	08/11/14 13:45	AAS	TAL NSH
Total/NA	Analysis	6020A		1	50 mL	50 mL	183335	08/12/14 12:32	JBD	TAL NSH

**Client Sample ID: GW-062027-080514-JB-MW-6**

**Lab Sample ID: 490-58741-6**

**Date Collected: 08/05/14 10:27**

**Matrix: Ground Water**

**Date Received: 08/06/14 08:20**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	10 mL	10 mL	181983	08/07/14 02:02	BJM	TAL NSH
Total/NA	Analysis	NWTPH-Gx		1	5 mL	5 mL	182008	08/08/14 01:15	GWM	TAL NSH
Total/NA	Prep	3510C			1065 mL	1.0 mL	184482	08/18/14 06:26	CLM	TAL NSH
Total/NA	Analysis	NWTPH-Dx		1	1065 mL	1.0 mL	184863	08/19/14 15:26	JPS	TAL NSH
Total/NA	Prep	3510C			1065 mL	1.0 mL	184482	08/18/14 06:26	CLM	TAL NSH
Total/NA	Analysis	NWTPH-Dx		1	1065 mL	1.0 mL	184991	08/20/14 03:57	JPS	TAL NSH
Total/NA	Prep	3010A			50 mL	50 mL	182920	08/11/14 13:45	AAS	TAL NSH
Total/NA	Analysis	6020A		1	50 mL	50 mL	183335	08/12/14 12:37	JBD	TAL NSH



# Lab Chronicle

Client: Conestoga-Rovers & Associates, Inc.  
 Project/Site: 200 Railroad Ave S - Ellensburg, WA

TestAmerica Job ID: 490-58741-1  
 SDG: 062027

**Client Sample ID: GW-062027-080514-JB-MW-7**

**Lab Sample ID: 490-58741-7**

**Date Collected: 08/05/14 11:03**

**Matrix: Ground Water**

**Date Received: 08/06/14 08:20**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	10 mL	10 mL	181983	08/07/14 02:28	BJM	TAL NSH
Total/NA	Analysis	NWTPH-Gx		1	5 mL	5 mL	182008	08/08/14 01:46	GWM	TAL NSH
Total/NA	Prep	3510C			1065 mL	1.0 mL	184482	08/18/14 06:26	CLM	TAL NSH
Total/NA	Analysis	NWTPH-Dx		1	1065 mL	1.0 mL	184863	08/19/14 15:42	JPS	TAL NSH
Total/NA	Prep	3510C			1065 mL	1.0 mL	184482	08/18/14 06:26	CLM	TAL NSH
Total/NA	Analysis	NWTPH-Dx		1	1065 mL	1.0 mL	184991	08/20/14 04:13	JPS	TAL NSH
Total/NA	Prep	3010A			50 mL	50 mL	182920	08/11/14 13:45	AAS	TAL NSH
Total/NA	Analysis	6020A		1	50 mL	50 mL	183335	08/12/14 12:42	JBD	TAL NSH

**Client Sample ID: GW-062027-080514-JB-MW-8**

**Lab Sample ID: 490-58741-8**

**Date Collected: 08/05/14 11:35**

**Matrix: Ground Water**

**Date Received: 08/06/14 08:20**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	10 mL	10 mL	181983	08/07/14 02:53	BJM	TAL NSH
Total/NA	Analysis	NWTPH-Gx		1	5 mL	5 mL	182008	08/08/14 02:16	GWM	TAL NSH
Total/NA	Prep	3510C			1065 mL	1.0 mL	184482	08/18/14 06:26	CLM	TAL NSH
Total/NA	Analysis	NWTPH-Dx		1	1065 mL	1.0 mL	184863	08/19/14 15:58	JPS	TAL NSH
Total/NA	Prep	3510C			1065 mL	1.0 mL	184482	08/18/14 06:26	CLM	TAL NSH
Total/NA	Analysis	NWTPH-Dx		1	1065 mL	1.0 mL	184991	08/20/14 04:28	JPS	TAL NSH
Total/NA	Prep	3010A			50 mL	50 mL	182920	08/11/14 13:45	AAS	TAL NSH
Total/NA	Analysis	6020A		1	50 mL	50 mL	183335	08/12/14 12:47	JBD	TAL NSH

**Laboratory References:**

TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Drive, Nashville, TN 37204, TEL (615)726-0177

# Method Summary

Client: Conestoga-Rovers & Associates, Inc.  
Project/Site: 200 Railroad Ave S - Ellensburg, WA

TestAmerica Job ID: 490-58741-1  
SDG: 062027

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL NSH
NWTPH-Gx	Northwest - Volatile Petroleum Products (GC)	NWTPH	TAL NSH
NWTPH-Dx	Northwest - Semi-Volatile Petroleum Products (GC)	NWTPH	TAL NSH
NWTPH-Dx	Semi-Volatile Petroleum Products by NWTPH with Silica Gel Cleanup	NWTPH	TAL NSH
6020A	Metals (ICP/MS)	SW846	TAL NSH

**Protocol References:**

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 NSH = TestAmerica Nashville, 2960 Foster Creighton Drive, Nashville, TN 37204, TEL (615)726-0177



# Certification Summary

Client: Conestoga-Rovers & Associates, Inc.  
Project/Site: 200 Railroad Ave S - Ellensburg, WA

TestAmerica Job ID: 490-58741-1  
SDG: 062027

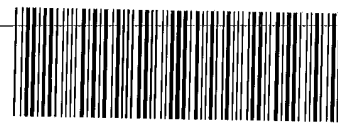
## Laboratory: TestAmerica Nashville

The certifications listed below are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Washington	State Program	10	C789	07-19-15

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

## COOLER RECEIPT FORM



490-58741 Chain of Custody

Cooler Received/Opened On 8/6/2014 @ 0820

1. Tracking # 0046 (last 4 digits, FedEx)

Courier: FedEx IR Gun ID 94660220

2. Temperature of rep. sample or temp blank when opened: 1.8 Degrees Celsius

3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen? YES NO NA

4. Were custody seals on outside of cooler? YES...NO...NA

If yes, how many and where: 1 Front

5. Were the seals intact, signed, and dated correctly? YES...NO...NA

6. Were custody papers inside cooler? YES...NO...NA

I certify that I opened the cooler and answered questions 1-6 (initial) mn

7. Were custody seals on containers: YES NO and intact YES...NO...NA

Were these signed and dated correctly? YES...NO...NA

8. Packing mat'l used? Bubblewrap Plastic bag Peanuts Vermiculite Foam Insert Paper Other None

9. Cooling process: Ice Ice-pack Ice (direct contact) Dry ice Other None

10. Did all containers arrive in good condition (unbroken)? YES...NO...NA

11. Were all container labels complete (#, date, signed, pres., etc)? YES...NO...NA

12. Did all container labels and tags agree with custody papers? YES...NO...NA

13a. Were VOA vials received? YES...NO...NA

b. Was there any observable headspace present in any VOA vial? YES...NO...NA

14. Was there a Trip Blank in this cooler? YES...NO...NA If multiple coolers, sequence # \_\_\_\_\_

I certify that I unloaded the cooler and answered questions 7-14 (initial) CA

15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? YES...NO...NA

b. Did the bottle labels indicate that the correct preservatives were used YES...NO...NA

16. Was residual chlorine present? YES...NO...NA

I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (initial) CA

17. Were custody papers properly filled out (ink, signed, etc)? YES...NO...NA

18. Did you sign the custody papers in the appropriate place? YES...NO...NA

19. Were correct containers used for the analysis requested? YES...NO...NA

20. Was sufficient amount of sample sent in each container? YES...NO...NA

I certify that I entered this project into LIMS and answered questions 17-20 (initial) CH

I certify that I attached a label with the unique LIMS number to each container (initial) CA

21. Were there Non-Conformance issues at login? YES...NO Was a NCM generated? YES...NO...# \_\_\_\_\_

COOLER RECEIPT FORM

Cooler Received/Opened On 8/6/2014 @ 0820

1. Tracking # 0057 (last 4 digits, FedEx)

Courier: FedEx IR Gun ID 94660220

2. Temperature of rep. sample or temp blank when opened: 1.9 Degrees Celsius

3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen? YES NO... NA

4. Were custody seals on outside of cooler?  YES...NO...NA

If yes, how many and where: (1) Front

5. Were the seals intact, signed, and dated correctly?  YES...NO...NA

6. Were custody papers inside cooler?  YES...NO...NA

I certify that I opened the cooler and answered questions 1-6 (initial) WJW

7. Were custody seals on containers: YES  NO and Intact YES...NO... NA

Were these signed and dated correctly? YES...NO... NA

8. Packing mat'l used?  Bubblewrap  Plastic bag Peanuts Vermiculite Foam Insert Paper Other None

9. Cooling process:  Ice Ice-pack Ice (direct contact) Dry ice Other None

10. Did all containers arrive in good condition (unbroken)?  YES...NO...NA

11. Were all container labels complete (#, date, signed, pres., etc)?  YES...NO...NA

12. Did all container labels and tags agree with custody papers?  YES...NO...NA

13a. Were VOA vials received? YES... NO...NA

b. Was there any observable headspace present in any VOA vial? YES...NO... NA

14. Was there a Trip Blank in this cooler? YES... NO...NA If multiple coolers, sequence # 1

I certify that I unloaded the cooler and answered questions 7-14 (initial) WJ

15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? YES...NO... NA

b. Did the bottle labels indicate that the correct preservatives were used YES...NO...NA

16. Was residual chlorine present? YES...NO... NA

I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (initial) WJ

17. Were custody papers properly filled out (ink, signed, etc)?  YES...NO...NA

18. Did you sign the custody papers in the appropriate place?  YES...NO...NA

19. Were correct containers used for the analysis requested?  YES...NO...NA

20. Was sufficient amount of sample sent in each container?  YES...NO...NA

I certify that I entered this project into LIMS and answered questions 17-20 (initial) WJ

I certify that I attached a label with the unique LIMS number to each container (initial) WJ

21. Were there Non-Conformance issues at login? YES... NO Was a NCM generated? YES... NO # 0

Liters  
Only

## COOLER RECEIPT FORM

TAN 5874

Cooler Received/Opened On 8/6/2014 @ 8:20

1. Tracking # 0002 (last 4 digits, FedEx)

Courier: FedEx IR Gun ID 17610176

2. Temperature of rep. sample or temp blank when opened: 3.1 Degrees Celsius

3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen? YES NO NA

4. Were custody seals on outside of cooler? YES...NO...NA

If yes, how many and where: 1 Front

5. Were the seals intact, signed, and dated correctly? YES...NO...NA

6. Were custody papers inside cooler? YES...NO...NA

I certify that I opened the cooler and answered questions 1-6 (Initial) AJH

7. Were custody seals on containers: YES NO and Intact YES...NO...NA

Were these signed and dated correctly? YES...NO...NA

8. Packing mat'l used? Bubblewrap Plastic bag Peanuts Vermiculite Foam Insert Paper Other None

9. Cooling process: Ice Ice-pack Ice (direct contact) Dry ice Other None

10. Did all containers arrive in good condition (unbroken)? YES...NO...NA

11. Were all container labels complete (#, date, signed, pres., etc)? YES...NO...NA

12. Did all container labels and tags agree with custody papers? YES...NO...NA

13a. Were VOA vials received? YES...NO...NA

b. Was there any observable headspace present in any VOA vial? YES...NO...NA

14. Was there a Trip Blank in this cooler? YES...NO...NA If multiple coolers, sequence # 1

I certify that I unloaded the cooler and answered questions 7-14 (initial) AJH

15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? YES...NO...NA

b. Did the bottle labels indicate that the correct preservatives were used YES...NO...NA

16. Was residual chlorine present? YES...NO...NA

I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (initial) AJH

17. Were custody papers properly filled out (ink, signed, etc)? YES...NO...NA

18. Did you sign the custody papers in the appropriate place? YES...NO...NA

19. Were correct containers used for the analysis requested? YES...NO...NA

20. Was sufficient amount of sample sent in each container? YES...NO...NA

I certify that I entered this project into LIMS and answered questions 17-20 (Initial) AJH

I certify that I attached a label with the unique LIMS number to each container (initial) AJH

21. Were there Non-Conformance issues at login? YES...NO...# Was a NCM generated? YES...NO...#

Lifers  
only

## COOLER RECEIPT FORM

TAN 58741

Cooler Received/Opened On 8/6/2014@ 0820

1. Tracking # 0035 (last 4 digits, FedEx)

Courier: FedEx IR Gun ID 12080142

2. Temperature of rep. sample or temp blank when opened: 4.4 Degrees Celsius

3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen? YES NO NA

4. Were custody seals on outside of cooler? YES...NO...NA

If yes, how many and where: one frame

5. Were the seals intact, signed, and dated correctly? YES...NO...NA

6. Were custody papers inside cooler? YES...NO...NA

I certify that I opened the cooler and answered questions 1-6 (initial) DA

7. Were custody seals on containers: YES NO and Intact YES...NO...NA

Were these signed and dated correctly? YES...NO...NA

8. Packing mat'l used? Bubblewrap Plastic bag Peanuts Vermiculite Foam Insert Paper Other None

9. Cooling process: Ice Ice-pack Ice (direct contact) Dry ice Other None

10. Did all containers arrive in good condition (unbroken)? YES...NO...NA

11. Were all container labels complete (#, date, signed, pres., etc)? YES...NO...NA

12. Did all container labels and tags agree with custody papers? YES...NO...NA

13a. Were VOA vials received? YES...NO...NA

b. Was there any observable headspace present in any VOA vial? YES...NO...NA

14. Was there a Trip Blank in this cooler? YES...NO...NA If multiple coolers, sequence # \_\_\_\_\_

I certify that I unloaded the cooler and answered questions 7-14 (initial) JA

15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? YES...NO...NA

b. Did the bottle labels indicate that the correct preservatives were used YES...NO...NA

16. Was residual chlorine present? YES...NO...NA

I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (initial) JA

17. Were custody papers properly filled out (ink, signed, etc)? YES...NO...NA

18. Did you sign the custody papers in the appropriate place? YES...NO...NA

19. Were correct containers used for the analysis requested? YES...NO...NA

20. Was sufficient amount of sample sent in each container? YES...NO...NA

I certify that I entered this project into LIMS and answered questions 17-20 (initial) JA

I certify that I attached a label with the unique LIMS number to each container (initial) JA

21. Were there Non-Conformance issues at login? YES...NO Was a NCM generated? YES...NO...# \_\_\_\_\_

### Shell Oil Products Chain Of Custody Record

LAB (LOCATION)

- CALSCIENCE ( )
- SPL Houston ( )
- XENCO ( )
- TEST AMERICA ( )
- OTHER ( )

Please Check Appropriate Box:

<input type="checkbox"/> ENV. SERVICES	<input type="checkbox"/> MOTIVA RETAIL	<input type="checkbox"/> SHELL RETAIL
<input type="checkbox"/> MOTIVA SD&CM	<input checked="" type="checkbox"/> CONSULTANT	<input type="checkbox"/> LUBES
<input type="checkbox"/> SHELL PIPELINE	<input type="checkbox"/> OTHER	

Print Bill To Contact Name: **Brian Peters- 062027**

INCIDENT # (ENV SERVICES): **7 9 7 0 4 4 7**

DATE: **8/5/14**

PO # : \_\_\_\_\_ SAP # : \_\_\_\_\_

STATE: **WA** GLOBAL ID NO.: \_\_\_\_\_

SITE ADDRESS: Street and City: **200 Railroad Ave S - Ellensburg**

EDF DELIVERABLE TO (Name, Company, Office Location): **CRA, Seattle, WA** PHONE NO.: **425-563-6500** CONSULTANT PROJECT NO.: **140905-JB1**

EW/ML: \_\_\_\_\_ E-MAIL: **Shell-US-LabDataManagement@CRAworld.com**

SAMPLER NAME(S) (Print): **Justin Blackburn** LAB/USE ONLY:

SAMPLING COMPANY: **Blaine Tech Services**

LOG CODE: \_\_\_\_\_

ADDRESS: **20735 Belshaw Avenue, Carson, CA 90746**

PROJECT CONTACT (Hierarchy or PDF Report to): **Lorin King**

TELEPHONE: **(310) 885-4455 x 108** FAX: \_\_\_\_\_ E-MAIL: **lking@blainetech.com**

LOG CODE: **(310) 637-5802**

TURNAROUND TIME (CALENDAR DAYS):

STANDARD (1-4 DAY)  5 DAYS  3 DAYS  2 DAYS  24 HOURS  RESULTS NEEDED ON WEEKEND

LA - RWQCB REPORT FORMAT  JUST AGENCY:

**SPECIAL INSTRUCTIONS OR NOTES:**

1) Please upload the "CRA EQuIS 4-file EDD" to the CRA Website (http://cralabedupload.craworld.com/equis/default.aspx) and/or send it to the Shell-US-LabDataManagement@CRAworld.com email folder. 2) Please indicate that you have uploaded the EDD by including "EDD Uploaded to CRA website" in the body of the email used to deliver the final PDF report to the Shell-US-LabDataManagement@CRAworld.com email folder.

SHELL CONTRACT RATE APPLIES  
 STATE REIMBURSEMENT RATE APPLIES  
 EDD NOT NEEDED  
 RECEIPT VERIFICATION REQUESTED

Copy final report to Shell.Lab.Billing@craworld.com, Shell.results@craworld.com, and Shell-US-LabDataManagement@CRAworld.com

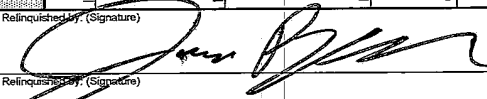
Email invoice to Shell.Lab.Billing@craworld.com

See Laboratory PM for WA Dept. of Ecology MTCA Method A cleanup levels for minimum detection limits.

Matrix Codes - WG (groundwater), WS (surface water), WP (drinking water source), W (Trip or Temp Blank)

REQUESTED ANALYSIS												TEMPERATURE ON RECEIPT C°		
LA - RWQCB REPORT FORMAT	JUST AGENCY	SPECIAL INSTRUCTIONS OR NOTES										TEMPERATURE ON RECEIPT C°		
		1) Please upload the "CRA EQuIS 4-file EDD" to the CRA Website (http://cralabedupload.craworld.com/equis/default.aspx) and/or send it to the Shell-US-LabDataManagement@CRAworld.com email folder. 2) Please indicate that you have uploaded the EDD by including "EDD Uploaded to CRA website" in the body of the email used to deliver the final PDF report to the Shell-US-LabDataManagement@CRAworld.com email folder.										1.8, 1.9, 3.1, 4.4		
		Copy final report to Shell.Lab.Billing@craworld.com, Shell.results@craworld.com, and Shell-US-LabDataManagement@CRAworld.com										Container PID Readings or Laboratory Notes		
		Email invoice to Shell.Lab.Billing@craworld.com												
		See Laboratory PM for WA Dept. of Ecology MTCA Method A cleanup levels for minimum detection limits.												
		Matrix Codes - WG (groundwater), WS (surface water), WP (drinking water source), W (Trip or Temp Blank)												
		LAB/USE ONLY												

LAB USE ONLY	SAMPLE ID				TIME	MATRIX	PRESERVATIVE					NO. OF CONT.	N/TPH-GX	N/TPH-DX w/Silica Gel Cleanup	BTEX (8260B)	5 Oxygenates, MTBE, TBA, DIPE, TAME, ETBE (8260B)	EDC (8260B)	EDB	N/TPH-DX w/o Silica Gel Cleanup	Nitrate/Nitrite by 363.2	Dissolved CO2 by SM4600C02C	Dissolved Methane by RSK-176	Full Scan VOC's by 8280	Alkalinity by SM2320B	Dissolved Iron (Ferrous)	Manganese by 6010/6020	TPH-O	MTBE (8260B)	Dissolved Lead by 8020	Total Lead				
	PROJECT NUMBER	DATE (MMDDYY)	SAMPLER INITIALS	WELL ID			HCL	HN03	H2SO4	NONE	OTHER																							
	GW	062027	080514	JB	mw-1	0730	WG	X	X	X		11	X	X	X	X	X							X			X							-1
	GW	062027	680514	JB	mw-2	0810	WG	X	X	X		11	X	X	X	X	X							X			X							-2
	GW	062027	680514	JB	mw-3	0840	WG	X	X	X		11	X	X	X	X	X							X			X							-3
	GW	062027	080514	JB	mw-4	0920	WG	X	X	X		11	X	X	X	X	X							X			X							-4
	GW	062027	080514	JB	mw-5	0953	WG	X	X	X		11	X	X	X	X	X							X			X							-5
	GW	062027	680514	JB	mw-6	1027	WG	X	X	X		11	X	X	X	X	X							X			X							-6
	GW	062027	680514	JB	mw-7	1103	WG	X	X	X		11	X	X	X	X	X							X			X							-7
	GW	062027	080514	JB	mw-8	1135	WG	X	X	X		11	X	X	X	X	X							X			X							-8

Relinquished by: (Signature)  Received by: (Signature) *Shipped via Fed ex* Date: **8/5/14** Time: \_\_\_\_\_

Relinquished by: (Signature) \_\_\_\_\_ Received by: (Signature) *JAW* Date: **8-6-14** Time: **0820**

Relinquished by: (Signature) \_\_\_\_\_ Received by: (Signature) \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_

07/27/2014





## Login Sample Receipt Checklist

Client: Conestoga-Rovers & Associates, Inc.

Job Number: 490-58741-2

SDG Number: 062027

**Login Number: 58741**

**List Number: 1**

**Creator: Huckaba, Jimmy**

**List Source: TestAmerica Nashville**

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.	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").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	