

February 27, 2015

Mr. Roscoe Mendenhall
Stelbar Oil Corporation, Inc.
1625 North Waterfront Parkway, Suite 200
Wichita, KS 67206

**Re: Stelbar Oil Corporation, Inc.
Pierce Central Tank Battery
No Further Action Request**

Dear Mr. Mendenhall:

The following letter report summarizes Olsson Associates (Olsson) soil and groundwater assessment of the Pierce Central tank battery (Site), owned by Stelbar Oil Corporation, Inc. (Stelbar). The assessment was performed on behalf of Great Western Oil and Gas (GWOG) as part of the environmental due diligence for an oil and gas asset purchase. Stelbar and GWOG have agreed to allow Olsson to present the data collected during the due diligence assessment to evaluate the environmental risk associated with the petroleum hydrocarbon-impacted soil at the Site.

SITE LOCATION

The Site is a tank battery located in NE¼, SE¼ of Section 22, Township 8 North, Range 66 West, west of the 6th Principal Meridian at an elevation of approximately 5,050 feet above mean sea level in Weld County, Colorado (Figure 1).

PRIOR SITE REMEDIATION WORK

According to a Sundry Notice on the COGCC database web site, three polyethylene-lined pits at the Pierce Central tank battery were closed by Chevron USA, Inc. (former site owner) in June 1989. The former pit dimensions reported on the Sundry forms were listed as 45 feet by 55 feet. Reportedly, the contents of the former pits were removed and backfilled with clean soil. Stelbar purchased the site from Chevron in 1990 and reportedly did not use the pits. A review of an historic aerial photograph dated 1988 (provided to Olsson by GWOG) shows the pits in the southwest portion of the site. Figure 2 shows the outlines of the approximate 1988 pit locations and Olsson's due diligence borings.

STELBAR-GWOG DUE DILIGENCE SITE INVESTIGATION

Twenty one borings were advanced during the due diligence investigation. Fifteen direct-push borings (SB1 to SB15) were continuously cored (see Figure 2). Some borings were advanced further using a hollow stem auger to reach apparent non-impacted soil or to investigate potential groundwater occurrence. Four direct-push borings (Offsite1 to Offsite 4) were advanced outside the bermed area south of the Site. The total depths (TD) of the due diligence borings ranged between 20 feet and 30 feet below ground surface (ft-bgs).

Additionally two groundwater monitoring wells (MW1 and MW2) were installed on the south side of the site berm on October 13, 2014. The monitoring well borings were advanced with a drill rig equipped with 6-inch diameter hollow stem augers.

Temporary wells were installed in 12 borings to accommodate groundwater sample collection and depth to groundwater measurements and include borings SB5 (TD 30 ft-bgs), SB6 (TD 20 ft-bgs), SB7 (TD 30 ft-bgs), SB8 (TD 20 ft-bgs), and SB9 (TD 30 ft-bgs), SB10 (TD 25 ft-bgs), SB11(TD 30 ft-bgs), SB12(TD 20 ft-bgs), Offsite1(TD 20 ft-bgs), Offsite2 (TD 20 ft-bgs), Offsite3 (TD 25 ft-bgs), Offsite4 (TD 25 ft-bgs). The temporary wells were constructed in the open borings using 1-inch diameter Schedule 40 polyvinyl chloride (PVC) well pipe. The bottom 10 feet of the temporary wells were constructed 0.010-inch factory-slotted well screen. A hydrated bentonite seal was place around the well pipe at the top 6 to 12 inches of the borings to prevent surface runoff from entering the boring. Upon completing the assessment, the PVC pipe was removed and the borings back filled with hydrated bentonite chips.

Soil Profile and Sampling

In general, the borings encountered interbedded clay, silty sand, sand, and gravel overlying claystone and sandstone bedrock. Bedrock was encountered at the Site between 15 ft-bgs and 20 ft-bgs. In addition to visual and olfactory field observations, Olsson's site geologist field screened the soil core samples using the ambient temperature headspace (ATH) method to detect volatile organic vapors using a photoionization detector (PID). Field screening PID measurements are depicted on the boring logs included as Attachment 1 and are expressed in parts per million (ppm). Field screening PID measurements ranged less than 1 ppm to 641 ppm (boring SB12 at 12.5 ft-bgs). Soil samples exhibiting the highest PID field screening measurements from each boring were submitted for laboratory analyses.

As indicted on the attached boring logs, hydrocarbon staining was observed on the Site at varying depths in 12 of the 15 onsite borings. Minor hydrocarbon staining was observed at three of the offsite borings (Offsite1, Offsite2, and Offsite3).

Surface Water and Surrounding Land Use

Surface water in the vicinity of the Town of Pierce is controlled by Spring Creek and smaller intermittent drainages. A northeast-southwest trending irrigation ditch is located to the north of the Site. Based on a review of aerial photographs and site reconnaissance, adjacent land use east, west and south of the Site is dryland pasture. North of the Site is pivot-irrigated land.

Site Groundwater Occurrence

Groundwater was observed in six borings and include SB5 (25 ft-bgs), SB7 (22.51 ft-bgs), SB10 (22.99 ft-bgs), SB11 (21.24 ft-bgs), Offsite1 (18 ft-bgs), Offsite4 (20 ft-bgs) and monitoring wells MW1 (23.72 ft-bgs) and MW2 (23.56 ft-bgs). The remaining six borings with temporary wells were dry (SB6, SB8, SB9, SB12, Offsite2, and Offsite3). Table 1 summarizes the depth of groundwater measurement information. The estimate groundwater flow direction at the Site is to the south to southeast based on local topography.

Phase-Separated Hydrocarbons

Phase-separated hydrocarbons (PSH) were observed during the due diligence at three borings locations with temporary wells and include borings SB7 (0.06 feet), SB10 (0.16 feet) and SB11 (0.02 feet). Additionally, a petroleum sheen was observed on the groundwater sample collected from boring SB5.

Area Groundwater Use

Olsson reviewed available COGCC data and identified permitted drinking water wells within a ½-mile of each storage facility. Figure 4 depicts the permitted water wells within a ½-mile radius of the Site. There are 22 permitted water wells within a ½-mile radius of the Pierce Central unit. Additionally, Stelbar has a permitted water well on the Pierce Central site they use for non-potable water uses. The well permit documentation provided by Stelbar indicates the well is 40 feet deep. North Weld County Water District has been providing water service to the Town of Pierce since the early 1990s.

Soil and Groundwater Analyses

The due diligence investigation included submitting 14 soil samples and six groundwater samples for laboratory analysis. Additionally, groundwater samples were collected from three private wells south of the Site. A groundwater sample was also submitted for laboratory analysis from the onsite water well operated by Stelbar for this report at the request of COGCC.

The soil and groundwater samples were collected in laboratory-provided sample containers, place in coolers on ice, and delivered to Origins Laboratory, Inc. (Origins) located in Denver, Colorado the same day they were collected under chain-of-custody for expedited 24-hour laboratory turn around. Attached Table 2 summarizes the Pierce Central analytical tests performed on the soil and groundwater samples.

➤ **Soil**

The due diligence soil samples were analyzed for the following:

- Total Petroleum Hydrocarbons – Gasoline Range Organics (TPH-GRO) – EPA Method 8015C
- Total Extractable Petroleum Hydrocarbons – Diesel Range Organics (TEPH-DRO) - EPA Method 8015C
- Specific Conductance (EC) using EPA Method 120.1
- pH (EPA Method 9045D)

➤ **Groundwater**

The due diligence groundwater samples were analyzed for:

- Benzene, toluene, ethylbenzene, and total xylenes (BTEX) using EPA Method 8260B
- TEPH-DRO (five groundwater samples)
- Oil and Grease using EPA Method 1664A (five groundwater samples)
- Chlorides using EPA Method 300 (five groundwater samples)

➤ **Private Water Wells and Site Monitoring Wells**

Groundwater samples were submitted for analysis from two Site groundwater monitoring wells and the three offsite Private water wells for:

- BTEX
- TPH-GRO and TEPH-DRO
- pH
- Oil and Grease
- Chlorides

The locations of the three private wells sampled (Lesh-1, G&H-1, and Greene-1) are depicted on Figure 4.

➤ **Stelbar On-site Well**

Laboratory analysis of the Stelbar water well sample is fundamentally of the COGCC Rule 609 baseline analyte list with a couple analyte substitutions and deletions recommended by COGCC listed below:

- pH (EPA Method 9040C)
- Specific Conductance (EPA Method 9050A)
- Total Dissolved Solids (SM2540C)
- Bromide, Chloride, Fluoride, Sulfate, Ortho-Phosphate - EPA Method 300.0
- Nitrate and Nitrite (EPA Method 353.2)
- Total Phosphorous (EPA Method 365.4)
- Boron, Calcium, Iron, Magnesium, Manganese, Potassium, Sodium, Strontium (dissolved – EPA Methods 200.2 and 200.7)
- Barium and Selenium (Dissolved – EPA Methods 200.2-200.8)
- Volatile Organic Compounds (VOCs) EPA Method 8260C
- Semi-Volatile Organic Compounds (SVOCs) EPA Method 8270D

Analysis was not performed for dissolved gases, bacterial indicators, gas composition, or isotopic analysis per COGCC's request.

Soil and Groundwater Analytical Results

Origins' laboratory analytical reports are presented in Attachment 2. Soil and groundwater analytical results are summarized in Table 3 and also on Figure 3.

The following section summarizes the results of the soil and groundwater investigation. Olsson compared the soil analytical results to the Table 910-1 concentrations levels listed in the COGCC 900 Series rules for Exploration and Production Waste Management. Soil sample analytical results are reported in milligrams per kilogram (mg/kg). Sample identification convention is the boring number followed by the depth the sample was collected – i.e. soil sample SB1-28 is from boring SB1 and from a depth of 28 ft-bgs. The groundwater concentration for chlorides, oil and grease, TPH-GRO, and TEPH-DRO are reported in milligrams per liter (mg/L); in micrograms per liter (ug/L) for BTEX; and millimhos per centimeter (mmhos/cm) for specific conductance.

Due Diligence Investigation

Soil

- TPH was reported above the COGCC soil concentration level of 500 mg/kg in soil samples SB4-11 (1,892 mg/kg), SB5-24 (1,896 mg/kg), SB7-28 (8,360 mg/kg), SB9-15 (5,220 mg/kg), SB10-15 (2,235 mg/kg), and SB11-25 (3,480 mg/kg)
- pH was reported at 9.4 for soil sample SB10-15, above the COGCC concentration level pH range of 6 to 9
- Specific conductance was below the COGCC concentration limit of 4 millimhos per centimeter (mmhos/cm) for all soil samples submitted

Groundwater

- BTEX was reported below the laboratory reporting limits in the groundwater samples collected from borings SB5, Offsite1, Offsite4, MW1, and MW2
- Oil and grease was reported at 2 mg/L in the groundwater sample Offsite4; 9.9 mg/L in groundwater sample Offsite1; and 510 mg/L in groundwater sample SB7
- Ethylbenzene and DRO was reported at 3.1 ug/L and 145 mg/L in groundwater samples SB7, respectively. The COGCC concentration level for ethylbenzene is 700 mg/L.
- Chloride concentrations ranged between 23 mg/L (SB7) to 41 mg/L (MW1)

Private Water Well Groundwater Samples

- BTEX was below laboratory reporting limits for all samples
- TPH-GRO, TEPH-DRO and oil and grease were below laboratory reporting limits for all samples
- pH ranges were between 7.3 and 7.73
- Chlorides were reported at 6.93 mg/L (G&H-1), 13.4 mg/L (Lesh-1), and 30 mg/L (Greene-1), below the Colorado drinking water standard for chlorides of 250 mg/L.

Stelbar Onsite Well

Table 4 summarizes the analysis of the groundwater sample collected from the water well located on the Site:

- Nitrate was reported at 11.9 mg/L, slightly above the Colorado drinking water standard of 10 mg/L
- VOCs were not detected above laboratory reporting limits
- SVOCs were not reported above laboratory reporting limits
- GRO and DRO were not detected above their respective laboratory reporting limits
- All remaining analytes were reported as either not detected or below Colorado drinking water standards.

Laboratory Quality Control

Laboratory quality control included the following:

- Surrogate analysis
- Laboratory blanks
- Laboratory control samples (LCS)
- Laboratory control sample duplicates (LCSD)
- Matrix spikes (MS)
- Matrix spike duplicates (MSD)

These analytical results are included with the laboratory reports as Attachment 2. In general, percent recovery for the surrogate, and matrix spike, and laboratory control samples were within acceptable laboratory control limits. Relative percent differences for the matrix spike duplicates and laboratory control sample duplicates are within laboratory relative percent difference limits.

The laboratory identified GRO surrogate recovery outside control limits due to sample dilution for high analyte concentration for Pierce Central soil sample SB11-25.

SUMMARY

The following summarizes the due diligence assessment conducted at the site:

- Twenty one borings were advanced as part of an environmental due diligence investigation at Stelbar's Pierce Central tank battery on behalf of GWOG.
- Soils observed during the investigation consisted of interbedded clay, silty sand, sand, and gravel overlying claystone and sandstone bedrock.
- Bedrock was encountered at the Site between 15 ft-bgs and 20 ft-bgs.
- Groundwater was observed in six of the 12 temporary wells and in the two groundwater monitoring wells.

- PSH was observed at three borings locations with temporary wells (SB7, SB10, and SB11). A petroleum sheen was observed on a groundwater sample collected from boring SB5.
- Fourteen soil samples and six groundwater samples were submitted for laboratory analysis of petroleum constituents during the due diligence.
- Laboratory analysis reported six soil samples for TPH concentrations (GRO + DRO) above the COGCC Table 910-1 concentration level for TPH of 500 mg/kg.
- pH soil sample SB10 was slightly above the COGCC Table 910-1 pH range of 6 to 9
- BTEX was not reported at or above the laboratory reporting limit in any of the six due diligence groundwater samples.
- Oil and grease was reported in the groundwater samples collected from temporary wells Offsite1, Offsite4, and SB7.
- Laboratory analysis of the groundwater samples collected from the three private wells south of the site were non-detect for BTEX, GRO, DRO, and oil and grease. Groundwater chloride concentrations and pH were within Colorado drinking water standards.
- Nitrate was reported slightly above the Colorado drinking water standard in the groundwater samples collected from Stelbar's on-site water well. The remaining analytes were either below laboratory reporting limits or below Colorado drinking water standards.

Recommendations

It appears the hydrocarbon soil impact encountered during the due diligence investigation is limited horizontally and vertically occurring at depth predominantly above the bedrock or in the weather bedrock.

It is Olsson's opinion that in-place natural attenuation of residual petroleum hydrocarbon-impacted soil can occur at the Site without affecting offsite water quality or endangering human health or the environment. This recommendation is based on the following:

- The Pierce Central tank battery is located on relatively flat topographic area (Figure1).
- Petroleum hydrocarbons were observed in the soil and groundwater during Olsson's due diligence investigation for GWOG. However, the apparent lack of VOCs and SVOCs in the groundwater samples submitted for laboratory analysis suggests the petroleum impacts resulted from an older historic release.
- Offsite groundwater impact above regulatory guidelines was not observed as demonstrated by the groundwater samples collected from the two monitoring wells south of the Site.
- The lack of nearby potential environmental receptors. The Town of Pierce and the nearest private well (Lesh) are approximately 1,200 feet from the Site. The Lesh well was one of the private wells sampled during the due diligence.

Based on data presented herein, Olsson recommends Stelbar respectfully request concurrence from the COGCC for a No Further Action determination for this site.

Please call me if you have any questions.

Sincerely,
Olsson Associates, Inc.



Kevin J. Taylor, PG, CPG
Senior Geologist



Ben Huggins
Team Leader

Attachments

TABLES

Table 1

Depth to Groundwater Summary
Stelbar - Pierce Central

Site Name	Drill Date	Borings w/ Temporary Wells	Initial Depth to Groundwater at Time of Drilling (ft.-bgs)	Groundwater Sample Date	Final Groundwater Measurement Date	Final Measured Depth to Groundwater (ft.bgs)	Final Measured Depth to Product (ft.bgs)
Pierce Central	7/28/2014	SB5	25	7/28/2014	7/28/2014	25.00	Sheen
	8/11/2014	SB6	DRY	*	*	DRY	NA
		SB7	DRY ¹	8/15/2014	8/18/2014	22.51	22.45
		SB8	DRY	*	*	DRY	NA
		SB9	DRY	*	*	DRY	NA
		SB10	DRY ¹	*	8/18/2014	22.99	22.83
		SB11	21.29 ¹	*	8/18/2014	21.24	21.22
	9/3/2014	SB12	DRY	*	*	DRY	NA
	9/16/2014	OFFSITE1	18	9/18/2014	9/18/2014	18.00	Not Present
		OFFSITE2	DRY	*	*	DRY	NA
		OFFSITE3	DRY	*	*	DRY	NA
		OFFSITE4	20	9/18/14 & 9/19/2014	9/18/14 & 9/19/2014	20.00	Not Present
	10/13/2014	MW1	33	10/13/2014	10/14/2014	23.72	Not Present
		MW2	44	10/13/2014	10/14/2014	23.56	Not Present

ft.bgs - Feet below ground surface

* - No groundwater sample collected

¹ - Borings SB10 and SB7 were dry initially when drilled on 8/11/2014. Groundwater was first detected and sampled in SB7 on 8/15/2014. The depth to groundwater measurement for SB7 and SB10 shown on this table was measured on 8/18/2014.

Free phase petroleum liquid was observed in borings SB7, SB10, and SB11 at time of drilling and measured on 8/14/2014.

The petroleum liquid was removed from the borings SB7, SB10, and SB11 by bailing on 8/15/2014 and allowed to recharge. Boring SB7 was sampled on 8/15/2014. Final groundwater and petroleum thickness was remeasured in borings SB7, SB10, and SB11 on 8/18/2014 (but not sampled).

NA - Not Applicable

Table 2

Analytical Method Summary
Stelbar - Pierce Central Tank Battery

Site Name	Sample Number	Sample Matrix	BTEX - EPA 8260B	TPH GRO - EPA 8015C	TPH DRO - EPA 8015C	TPH GRO+DRO - EPA 8015C	Specific Conductance - EPA Method 120.1	pH in Soil - EPA 9045D	pH in GW - EPA 9040C	Oil and Grease EPA 1664A	Chlorides - EPA 300
Pierce Central Tank Battery	SB2	Soil		•	•	•	•	•			
	SB3	Soil		•	•	•	•	•			
	SB4	Soil		•	•	•	•	•			
	SB5	Groundwater	•								
		Soil		•	•	•	•	•			
	SB6	Soil		•	•	•	•	•			
		Soil		•	•	•	•	•			
	SB7	Groundwater	•		•				•	•	•
		Soil		•	•	•	•	•			
	SB8	Soil		•	•	•	•	•			
	SB9	Soil		•	•	•	•	•			
	SB10	Soil		•	•	•	•	•			
	SB11	Soil		•	•	•	•	•			
	OFFSITE 1	Soil		•	•	•	•	•			
		Groundwater	•		•				•	•	•
	OFFSITE 2	Soil		•	•	•	•	•			
	OFFSITE 3	Soil		•	•	•	•	•			
	OFFSITE 4	Soil		•	•	•	•	•			
Groundwater		•	•	•				•	•	•	
MW1	Groundwater	•	•	•				•	•	•	
MW2	Groundwater	•	•	•				•	•	•	
	Domestic Well Lesh-1	Groundwater	•	•	•				•	•	•
	Domestic Well G+H-1	Groundwater	•	•	•				•	•	•
	Domestic Well Greene-1	Groundwater	•	•	•				•	•	•

• = Analysis Conducted

Table 3

Soil and Groundwater Analytical Summary
Stelbar - Pierce Central Tank Battery

Site Name	Sample Number	Sample Depth (ft-bgs)	Sample Matrix	BTEX (µg/L)				TPH (mg/kg) or (mg/L) Groundwater			Specific Conductance (EC) mmhos/cm	pH	Oil and Grease (mg/L)	Chlorides (mg/L)	Liquid Hydrocarbons in Groundwater Detected	Boring Location
				Benzene	Toluene ¹	Ethylbenzene	Total Xylenes ¹	GRO (C6-C10 Range)	DRO (C10-C28 Range)	TPH=GRO+DRO						
COGCC Table 910-1 Concentration Levels				5	1000	700	10,000	500	500	500	<4 mmhos/cm or 2X Background	6 to 9	No Standard	<1.25 Background	Below Detection Level	
Pierce Central	SB1			Soil sample not analyzed based on no PID field screening measurements												NW corner of separator and stock tanks
	SB2	5'	Soil	NA				ND	70.5	70.5	0.271	8.01	NA			SW corner of separator and stock tanks
	SB3	4'	Soil	NA				ND	ND	ND	0.224	8.10	NA			Northeast of load out
	SB4	11'	Soil	NA				342	1550	1892	0.161	8.76	NA			Northwest of tank battery
	SB5		Groundwater	ND	ND	ND	ND	NA	NA	0.805*	7.67*	NA		Sheen	Southwest portion of Site	
		24'	Soil	NA				386	1510	1896	0.132	7.91	NA			
	SB6	20'	Soil	NA				ND	ND	ND	0.370	8.13	NA			Between SB5 and SB9
	SB7	28'	Soil	NA				1160	7200	8360	0.123	8.72	NA			
			Groundwater	ND	ND	3.1	ND	NA	145	NA	NA	7.37*	510*	28.3	Yes	
	SB8	20'	Soil	NA				ND	ND	ND	0.0531	8.16	NA			South of access road
	SB9	15'	Soil	NA				840	4380	5220	0.110	7.92	NA			Southwest corner of pad
	SB10	15'	Soil	NA				175	2060	2235	0.147	9.40	NA		Yes	North of SB9 on west side of pad
	SB11	25'	Soil	NA				ND	3480	3480	0.373	8.61	NA		Yes	North of Atmos pipeline on west side of pad
	SB12		NA	NA												
	SB13			Soil samples not analyzed based on no PID field screening measurements												
	SB14			Soil samples not analyzed												
	SB15			Soil samples not analyzed												
	MW1		Groundwater	ND	ND	ND	ND	ND	ND	NA	NA	7.51*	ND	41		South Site boundary
	MW2		Groundwater	ND	ND	ND	ND	ND	ND	NA	NA	7.82*	ND	23.7		Southwest Site corner
	OFFSITE 1	17'	Soil	NA				ND	149	149	0.0183	7.98	NA			Offsite west of southwest corner
		Groundwater	ND	ND	ND	ND	NA	NA	NA	7.46*	9.9*	23				
OFFSITE 2	17'	Soil	NA				ND	236	236	0.0257	7.66	NA			Offsite south of southwest site corner	
OFFSITE 3	24'	Soil	NA				ND	107	107	0.0268	7.89	NA			Offsite south of south property line	
OFFSITE 4	25'	Soil	NA				ND	ND	ND	0.0314	8.94	NA			Southwest of southwest property corner	
		Groundwater	ND	ND	ND	ND	NA	ND	NA	NA	7.86*	2*	32.2			
Domestic Well Lesh-1		Groundwater	ND	ND	ND	ND	ND	ND	NA	NA	7.3*	ND	13.4		Domestic wells in the town of Pierce	
Domestic Well G&H-1		Groundwater	ND	ND	ND	ND	ND	ND	NA	NA	7.73*	ND	6.93			
Domestic Well Greene-1		Groundwater	ND	ND	ND	ND	ND	ND	NA	NA	7.57*	ND	30			

¹ Colorado Oil and Gas Conservation Commission (COGCC), 900 Series, Exploration and Production Waste Management, Table 910-1, Concentration Levels, February 1, 2014
 mg/kg - Milligrams per kilogram
Bold - Above COGCC Table 910-1 concentration
¹ - Drinking water standard
 ft-bgs - Feet below ground surface
² - reported in micro Siemens per centimeter

GRO - Gasoline range organics
 DRO - Diesel range organics
 µg/L - Micrograms per liter
 -Indicates a groundwater sample

BTEX
 TPH
 ND
 mmhos/cm
 *

- Benzene, toluene, ethylbenzene, total xylenes
 - Total petroleum hydrocarbons
 - Sample not reported above laboratory reporting limit
 - millimhos per centimeter
 - No COGCC Table 910-1 concentration level established

Table 4

Analytical Summary Pierce Central Well

Sample Location Description: Wellhead located on Pierce Central pad

Sample Date: 2/3/15

Field Water Quality Parameter Summary

Sample ID	pH	Temp (°C)	Conductivity (mS/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	Latitude (North)	Longitude (West)
Stelbar-1	7.40	14.77	0.848	6.18	NM	40.643988	-104.757254

Laboratory Analytical Summary

	Concentration	DWS
Gasoline and Diesel Range Hydrocarbons		
Gasoline Range Organics (mg/L)	U	NA
Diesel Range Organics (mg/L)	U	NA
Volatile Organic Compunds VOCs (8260C) and SVOCs (8270D)		
Benzene (mg/L)	U	0.005
Toluene (mg/L)	U	1
Ethylbenzene (mg/L)	U	0.68
Total Xylenes (mg/L)	U	10
All SVOC's by 8270D (mg/L)	U	NA
All other VOC's by 8260C (mg/L)	U	NA
General Chemistry		
Alkalinity, Bicarbonate as CaCO ₃ (mg/L)	182	NA
Alkalinity, Carbonate (mg/L)	U	NA
Alkalinity, Total as CaCo ₃ (mg/L)	182	NA
Bromide (mg/L)	0.268	NA
Chloride (mg/L)	23.2	250
Fluoride (mg/L)	0.345	4
Nitrogen, Nitrate (mg/L)	11.9	10
Nitrogen, Nitrite (mg/L)	U	1
Nitrogen, Nitrate/Nitrite (mg/L)	14	NA
Total Phosphorus (mg/L)	U	NA
Total Dissolved Solids (mg/L)	499	500
Specific Conductivity (umhos/cm)	850	NA
Sulfate (mg/L)	173	250
pH Adjusted to 25 deg. Celsius	7.65	6.5 - 8.5
Dissolved Metals		
Barium (mg/L)	0.107	2
Boron (mg/L)	0.109	2
Calcium (mg/L)	101	NA
Iron (mg/L)	U	0.3
Magnesium (mg/L)	22.6	NA
Manganese (mg/L)	0.0119	NA
Potassium (mg/L)	4.67	NA
Selenium (mg/L)	0.0136	0.05
Sodium (mg/L)	36.3	NA
Strontium (mg/L)	0.856	NA

Notes:

U = analysis performed but not detected
 CFU/ml= colony forming units per milliliter
 mg/L = milligrams per liter
 µmhos/cm = micromhos per centimeter
 mS/cm = milli Siemens per centimeter
 DWS = Drinking Water Standard
 NM = Not Measured
 NA = Not Applicable

BOLD - Reported concentration above Colorado drinking water standard

FIGURES

Pierce Central

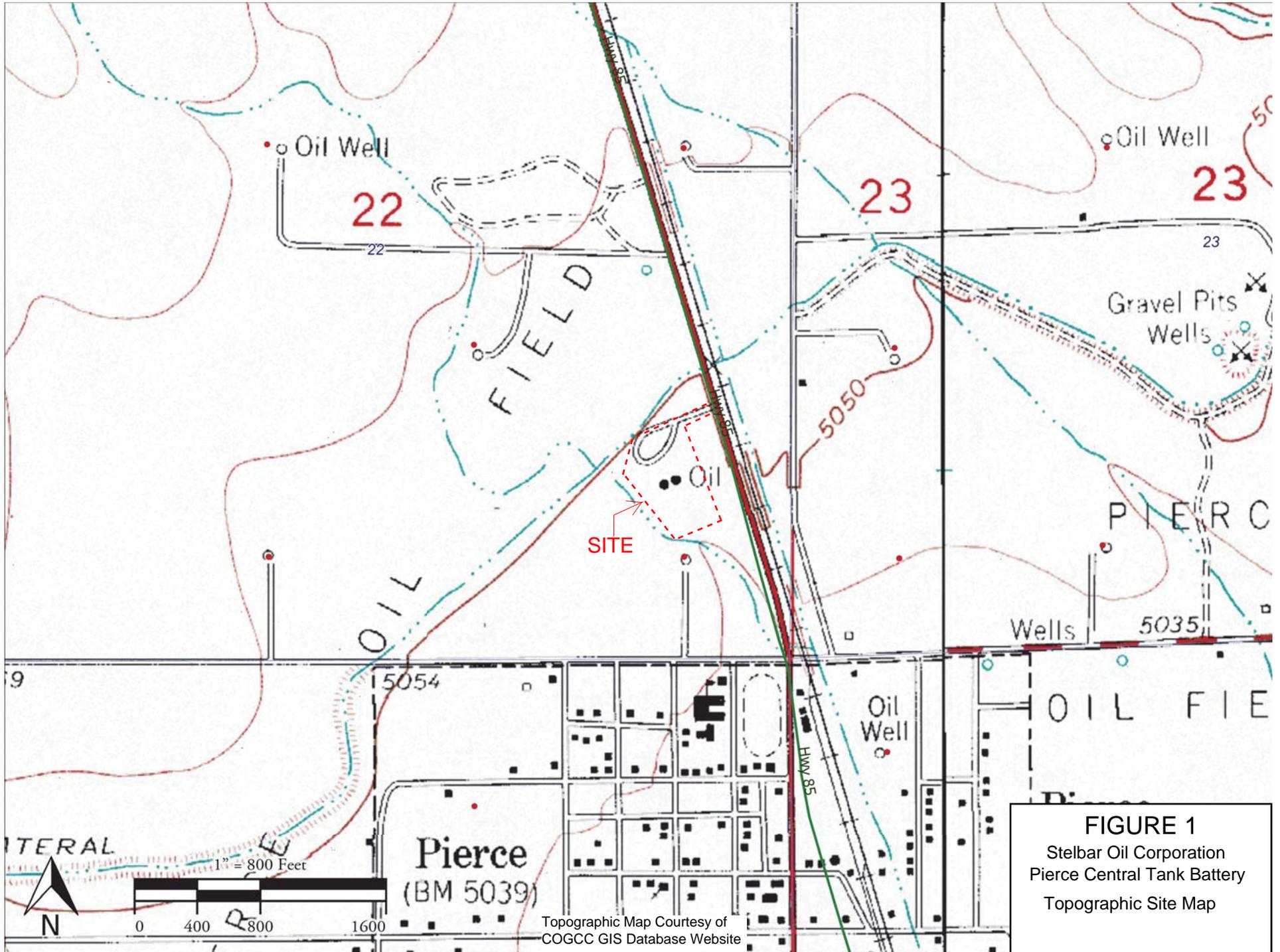
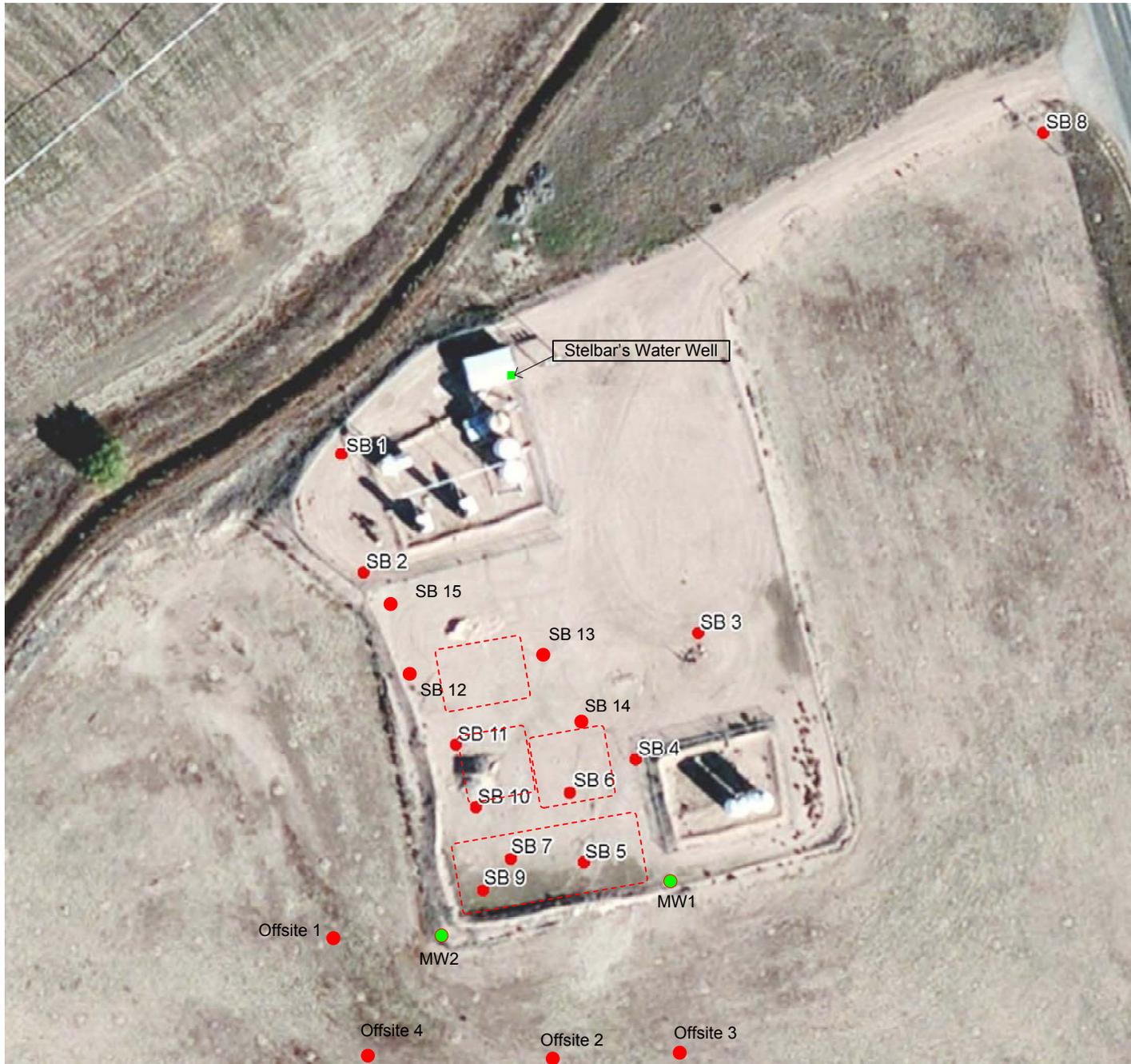


FIGURE 1
Stelbar Oil Corporation
Pierce Central Tank Battery
Topographic Site Map

Topographic Map Courtesy of
COGCC GIS Database Website

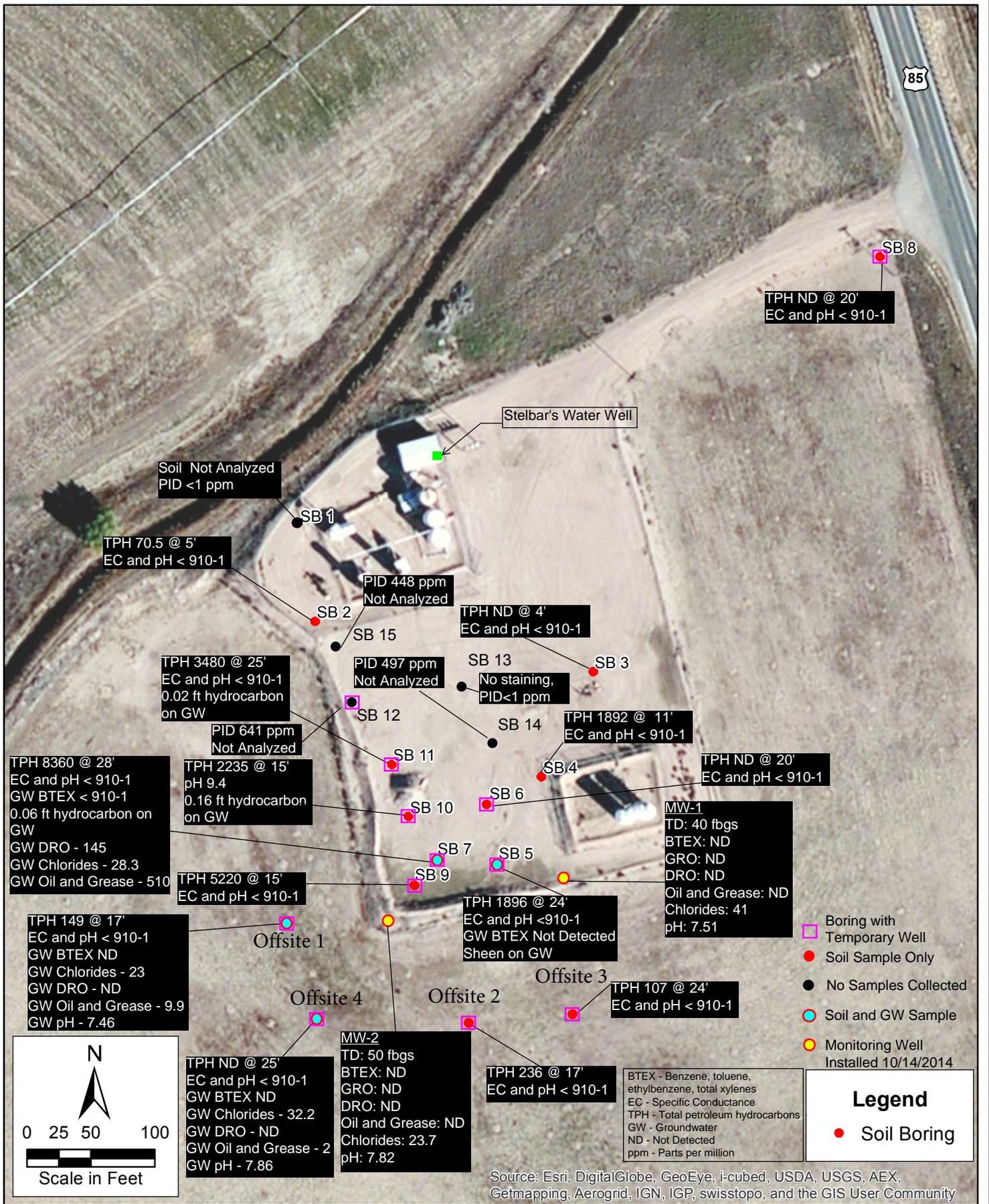


Pierce Central Tank Battery
 Stelbar Oil Corporation
 Weld County, Colorado

LEGEND

- - Approximate Due Diligence Boring Location
- - Groundwater Monitoring Well
- - - - - Approximate outline of 1988 historical pits

FIGURE 2

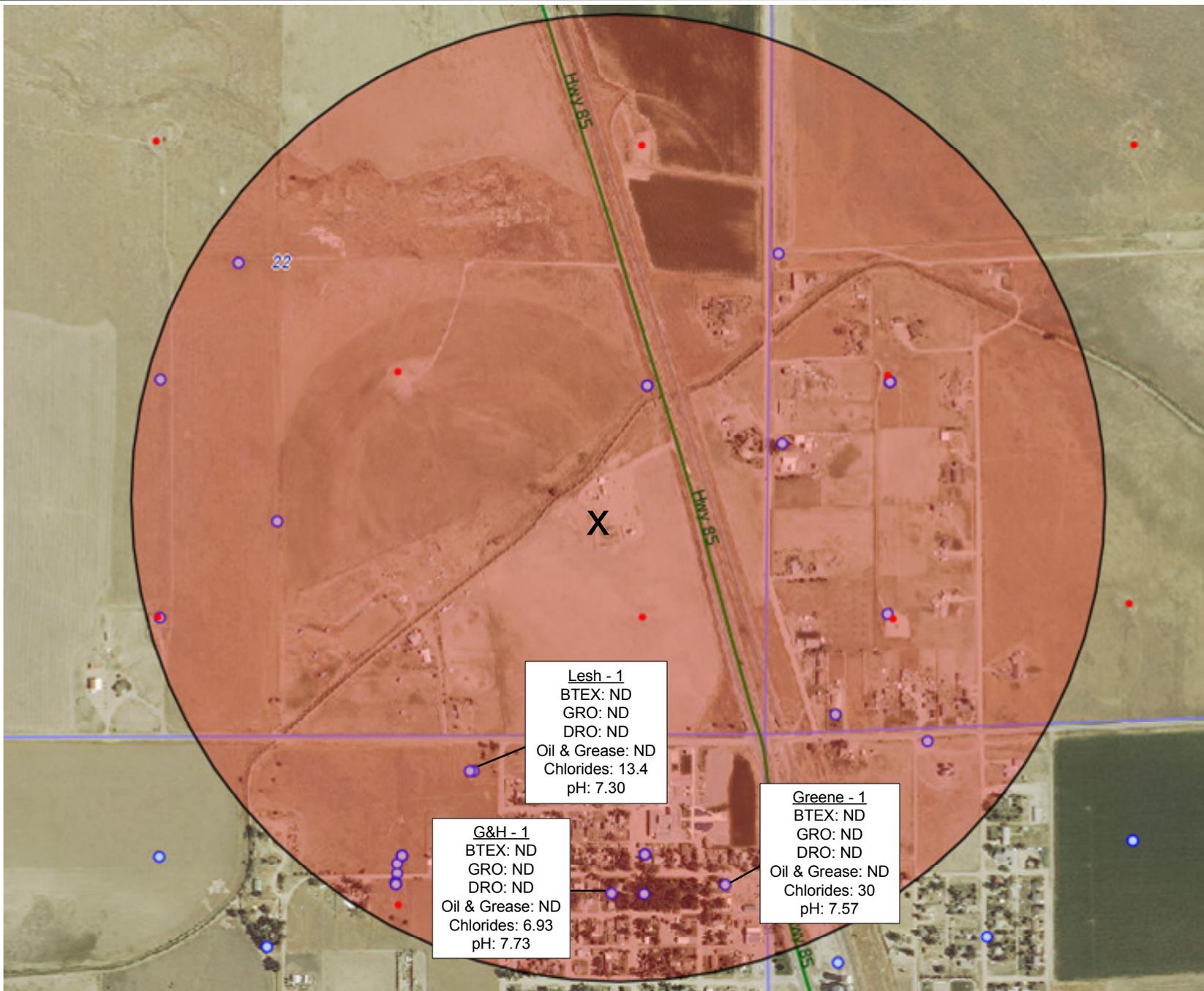


PROJECT:
DRAWN BY: JED
DATE:

Pierce Central Tank Battery
Stelbar Oil Corporation
Weld County, Colorado



FIGURE
3



Lesh - 1
 BTEX: ND
 GRO: ND
 DRO: ND
 Oil & Grease: ND
 Chlorides: 13.4
 pH: 7.30

G&H - 1
 BTEX: ND
 GRO: ND
 DRO: ND
 Oil & Grease: ND
 Chlorides: 6.93
 pH: 7.73

Greene - 1
 BTEX: ND
 GRO: ND
 DRO: ND
 Oil & Grease: ND
 Chlorides: 30
 pH: 7.57

PROJECT NO: 014-1916
 DRAWN BY: JED
 DATE: 10/20/2014

0.5 Mile Radius
 Ground Water Analytical Results
 Domestic Water Wells for Pierce Central Facility
 Draft



4690 TABLE MOUNTAIN DRIVE, SUITE 200
 GOLDEN, CO 80403
 TEL 303.237.2072
 FAX 303.237.2659

LEGEND
 ● - Oil and Gas Wells
 ▲ - COGCC Sites with Lab Data
 X - Pierce Central Facility
 ● - Water Wells

FIGURE 4

ATTACHMENT 1
DUE DILIGENCE BORING LOGS

LOCATION MAP

Pierce Central
Offsite 1



4690 Table Mountain Drive #200
Golden, CO 80403
T. 303.237.2072 F. 303.237.2659

TEST HOLE/ WELL LOG

Page 1 of 1

Test/Well Number: Offsite 1

Project: Stelbar

Date: 9/16/14

Project Number: 014-1916

Logged By: Nikki Graber

Drilled By: Site Services

Drilling Method: Direct Push

Sampling Method: Macro Core

Elevation: NM

Detector: PID

Seal: Bentonite

Grout: NA

Gravel Pack: NA

Hole Dia.: 2 inch

F. L. Meter:

Casing Type: PVC

Diameter 1-inch

Length: 10 ft

DTP: N/A

DTW: 18 ft.

Screen Type: PVC

Slot: .001

Diameter: 1 inch

Length: 10 ft

Well Depth: 20 ft.

Total Depth: 20 ft

Soil/Rock Type	Color	Moisture Content	% Fines	Structure	Vapor (ppm)	Staining	Sample #	Depth	Sample Recovery	Penetration Resistance	LITHOLOGY/REMARKS	Comments
					>1	N					Silt, tan, fine to very fine grain, unconsolidated	Temporary PVC pipe installed
					>1	N		5	55%		Fluvial gravel, varied colors, well graded, silt matrix	
					>1	N					Silt, tan, fine to very fine grain, unconsolidated	
					>1	N					Sand, tan to white, medium to coarse grained, large angular quartz gravels	
					>1	N		10	45%		No core from 10-15 ft due to sampler crushed liner	
					>1	N		15	0%		Sand, tan to white, medium to coarse grained, large angular quartz gravels, hydrocarbon staining	
					118	Y						
					150	Y						
					87	Y						
					>1	N		20	85%		Claystone, tan to brown, low plasticity, moderately graded, trace sand	
					>1	N						Soil Sample Offsite #1-17 GW-18 ft. GW sample - Offsite1
												TD 20 feet
												Temporary pipe removed- Boring backfilled w/ hydrated bentonite

LOCATION MAP
**Pierce Central
 Offsite #2**



4690 Table Mountain Drive #200
 Golden, CO 80403
 T. 303.237.2072 F. 303.237.2659

TEST HOLE/ WELL LOG

Page 1 of 1

Test/Well Number: Offsite 2

Project: Stelbar

Date: 9/16/14

Project Number: 014-1916

Logged By: Nikki Graber

Drilled By: Site Services

Drilling Method: Direct Push

Sampling Method: Macro Core

Elevation: NM

Detector: PID

Seal: Bentonite

Grout: NA

Gravel Pack: NA

Hole Dia.: 2 inch

F. L. Meter:

Casing Type: PVC

Diameter: 1-inch

Length: 10 ft

DTP: N/A

DTW: Dry

Screen Type: PVC

Slot: .001

Diameter: 1-inch

Length: 10 ft

Well Depth: 20 ft.

Total Depth: 20 ft.

Soil/Rock Type	Color	Moisture Content	% Fines	Structure	Vapor (ppm)	Staining	Sample #	Depth	Sample Recovery	Penetration Resistance	LITHOLOGY/REMARKS	Comments
					>1	N					Silt, tan, fine to very fine grain, unconsolidated	Temporary PVC installed- Dry
											Fluvial gravel, varied colors, well graded, silt matrix	
					>1	N		5	50%		Silt, tan, fine to very fine grain, unconsolidated	
											No core from 5-10 ft. due to crushed liner	
					>1	N		10	0%		Sand, tan to white, medium to coarse grained, large angular quartz gravels	
					>1	N						
					>1	N		15	80%		Sand, tan to white, medium to coarse grained, large angular quartz gravels, some hydrocarbon staining	
					5	N						
					74	Y						
					>1	N						
					>1	N						
					>1	N		20	85%		Claystone, tan to brown, low plasticity, moderately graded, trace sand,	Soil Sample Offsite#2-17
												TD 20 feet
												PVC removed- Boring backfilled w/ hydrated bentonite

LOCATION MAP

Pierce Central
Offsite 3



4690 Table Mountain Drive #200
Golden, CO 80403
T. 303.237.2072 F. 303.237.2659

TEST HOLE/ WELL LOG

Page 1 of 1

Test/Well Number: Offsite 3

Project: Stelbar

Date: 9/16/14

Project Number: 014-1916

Logged By: Nikki Graber

Drilled By: Site Services

Drilling Method: Direct Push

Sampling Method: Macro Core

Elevation: NM

Detector: PID

Seal: Bentonite

Grout: NA

Gravel Pack: NA

Hole Dia.: 2 inch

F. L. Meter:

Casing Type: PV C

Diameter: 1-inch

Length: 15 ft

DTP: N/A

DTW: Dry

Screen Type: PVC

Slot: .001

Diameter: 1-inch

Length: 10 ft

Well Depth: 25 ft

Total Depth: 25

Soil/Rock Type	Color	Moisture Content	% Fines	Structure	Vapor (ppm)	Staining	Sample #	Depth	Sample Recovery	Penetration Resistance	LITHOLOGY/REMARKS	WELL COMPLETION
					>1	N					Silt, tan, fine to very fine grain, unconsolidated	Temporary PVC pipe installed - Dry
					>1	N		5	55%		Sand, tan to white, medium to coarse grained, large angular quartz gravels	
											No core from 5-10 ft due to crushed liner	
					>1	N		10	0%		Sand, tan to white, medium to coarse grained, large angular quartz gravels	
					>1	N					Sand, tan to white, medium to coarse grained, large angular quartz gravels	
					>1	N		15	65%		Sand, tan to white, medium to coarse grained, large angular quartz gravels	
					>1	N						
					>1	N		20	85%		Claystone, tan to brown, low plasticity, moderately graded, trace sand, some hydrocarbon staining	
					18	Y						
					24	Y						
					15	Y						
					>1	N		25	80%		Sand, tan to white, medium to coarse grained	Soil Sample Offsite #3-24
												TD 25 feet
												PVC pipe removed- Boring backfilled w/ hydrated bentonite

LOCATION MAP
**Pierce Central
 Offsite 4**



4690 Table Mountain Drive #200
 Golden, CO 80403
 T. 303.237.2072 F. 303.237.2659

TEST HOLE/ WELL LOG

Page 1 of 1

Test/Well Number: Offsite 4	Project: Stelbar
Date: 9/16/14	Project Number: 014-1916
Logged By: Nikki Graber	Drilled By: Site Services
Drilling Method: Direct Push	Sampling Method: Macro Core

Elevation: NM	Detector: PID	Seal: Bentonite	Grout: NA
Gravel Pack: NA	Hole Dia.: 2 inch		F. L. Meter:
Casing Type: PVC	Diameter: 1-inch	Length: 15 ft	DTP: N/A
Screen Type: PVC	Slot: .001	Diameter: 1-inch	Length: 10 ft
Well Depth: 25 ft			Total Depth: 25 ft

Soil/Rock Type	Color	Moisture Content	% Fines	Structure	Vapor (ppm)	Staining	Sample #	Depth	Sample Recovery	Penetration Resistance	LITHOLOGY/REMARKS	Comments
					>1	N					Silt, tan, fine to very fine grain, unconsolidated Fluvial gravel, varied colors, well graded, silt matrix	
					>1	N		5	50%		Silt, tan, fine to very fine grain, unconsolidated Sand, tan to white, medium to coarse grained, large angular quartz gravels	
					>1	N					Clay, brown to dark brown, very plastic, sandy, fine to coarse grain, moist	
					>1	N		10	70%		Sand, tan to white, medium to coarse grained, large angular quartz gravels	Temporary PVC pipe installed
					>1	N		15	80%		Sand, white, medium to fine grained	
					>1	N					Sand, tan to brown, medium to coarse grained, clayey, moist	
					>1	N		20	85%			GW at 20 ft GW Sample Offsite4
					>1	N		25	70%		Claystone, tan to brown, low plasticity, moderately graded, trace sand	Soil Sample Offsite #4-25 TD 25 feet
												PVC pipe removed- Boring backfilled w/ hydrated bentonite

LOCATION MAP

Pierce Central
SB1



4690 Table Mountain Drive #200
Golden, CO 80403
T. 303.237.2072 F. 303.237.2659

TEST HOLE/ WELL LOG

Page 1 of 1

Test/Well Number: SB1

Project: Stelbar

Date: 7/28/2014

Project Number: 014-1916

Logged By: Nikki Graber

Drilled By: Site Services

Drilling Method: Direct Push

Sampling Method: Macro Core

Elevation: NM

Detector: PID

Seal:

Grout: NA

Gravel Pack: NA

Hole Dia.: 2 inch

F. L. Meter:

Casing Type: NA

Diameter

Length:

DTP: N/A

DTW:

Screen Type: NA

Slot:

Diameter:

Length:

Well Depth:

Total Depth: 25 ft

Soil/Rock Type	Color	Moisture Content	% Fines	Structure	Vapor (ppm)	Staining	Sample #	Depth	Sample Recovery	Penetration	LITHOLOGY/REMARKS	Comments
											Hand auger - Fill	
					<1			5	55%		Clay, dark brown to brown, high plasticity, sandy, moist	
					<1			10	75%		Sand, tan to white, medium to coarse grained, moderately graded, large angular quartz gravel	
					<1			15	80%		Clay, black to brown, high plasticity, sandy, moist	
					<1			20	80%		Sand, tan to white, medium to coarse grained, moderately graded, large angular quartz gravel	Soil Sample SB1-17
					<1			25	85%		Clay, black to brown, well graded, high plasticity, sandy, moist	
					<1						Claystone, tan to brown, low plasticity, moderately graded, trace sand	
					<1						Sand, tan to brown, medium to coarse grained, clay matrix, moderate plasticity, moist	TD 25 ft.
					<1						Claystone, tan to brown, low plasticity, moderately graded, trace sand	Boring backfilled w/ hydrated bentonite

LOCATION MAP
Pierce Central
SB3



4690 Table Mountain Drive #200
 Golden, CO 80403
 T. 303.237.2072 F. 303.237.2659

TEST HOLE/ WELL LOG

Page 1 of 1

Test/Well Number: SB3	Project: Stelbar
Date: 7/28/2014	Project Number: 014-1916
Logged By: Nikki Graber	Drilled By: Site Services
Drilling Method: Direct Push	Sampling Method: Macro Core

Elevation: NM	Detector: PID	Seal:	Grout: NA
Gravel Pack: NA		Hole Dia.: 2 inch	F. L. Meter:
Casing Type: NA	Diameter	Length:	DTP: N/A
Screen Type: NA	Slot:	Diameter:	Length:
		Well Depth:	Total Depth: 25 ft

Soil/Rock Type	Color	Moisture Content	% Fines	Structure	Vapor (ppm)	Staining	Sample #	Depth	Sample Recovery	Penetration Resistance	LITHOLOGY/REMARKS	Comments
					27	Y					Fill, staining	
					<1	N		5	50%		Sand, tan to white, medium to coarse grained, moderately graded, large angular quartz gravel	Soil Sample SB3-4
								10	75%			
					<1						Sand, tan to white, medium to coarse grained, moderately graded, sl moist	
								15	85%			
					<1						Clay, brown to dark brown, well graded, high plasticity, abundant sand particles, moist	
								20	80%			
					<1						Sand, tan to white, medium to coarse grained, moderately graded, sl moist	
								25	80%			
											Claystone, tan to brown, low plasticity, trace sand	
											Sand, tan to brown, medium to coarse grained, clay matrix, moist	TD 25 ft.
												Boring backfilled w/ hydrated bentonite

LOCATION MAP
Pierce Central
SB4



4690 Table Mountain Drive #200
 Golden, CO 80403
 T. 303.237.2072 F. 303.237.2659

TEST HOLE/ WELL LOG

Page 1 of 1

Test/Well Number: SB4	Project: Stelbar
Date: 7/28/2014	Project Number: 014-1916
Logged By: Nikki Graber	Drilled By: Site Services
Drilling Method: Direct Push	Sampling Method: Macro Core

Elevation: NM	Detector: PID	Seal:	Grout: NA
Gravel Pack: NA		Hole Dia.: 2 inch	F. L. Meter:
Casing Type: NA	Diameter	Length:	DTP: N/A
Screen Type: NA	Slot:	Diameter:	Length:
		Well Depth:	Total Depth: 25 ft

Soil/Rock Type	Color	Moisture Content	% Fines	Structure	Vapor (ppm)	Staining	Sample #	Depth	Sample Recovery	Penetration Resistance	LITHOLOGY/REMARKS	Comments
											Fill	
					<1			5	60%		Sand, tan to white, medium to coarse grained, moderately graded, large angular quartz clasts	
					305	Y					Sand, tan to white, medium to coarse grained, moderately graded, damp	
					72	Y		10	70%		Sand, tan to brown, medium to coarse grained, clay matrix, moderate plasticity, staining	Soil Sample SB4-11
					21	Y					Sand, brown to gray, medium to fine grained, trace clay matrix, low plasticity	
					ND	N		15	80%		Sand, white to gray, medium to coarse grained, poorly graded, large quartz clasts	
					17	Y		20	80%		Sand, tan to brown, medium to coarse grained, clayey, staining	
					<1	N					Claystone, tan to brown, low plasticity, trace sand	
					<1			25	80%		Sand, tan to brown, medium to coarse grained, clayey, moist	TD 25 ft. Boring backfilled w/ hydrated bentonite

LOCATION MAP
Pierce Central
SB5



4690 Table Mountain Drive #200
 Golden, CO 80403
 T. 303.237.2072 F. 303.237.2659

TEST HOLE/ WELL LOG

Page 1 of 1

Test/Well Number: SB5

Project: Stelbar

Date: 7/28/2014

Project Number: 014-1916

Logged By: Nikki Graber

Drilled By: Site Services

Drilling Method: Direct Push

Sampling Method: Macro Core

Elevation: NM

Detector: PID

Seal:

Grout: NA

Gravel Pack: NA

Hole Dia.: 2 inch

F. L. Meter:

Casing Type: PVC

Diameter 1-inch

Length: 1-inch

DTP: N/A

DTW: 25 ft.

Screen Type: PVC

Slot: .001 inch

Diameter: 1-inch

Length: 1-inch

Well Depth: 30 ft

Total Depth: 30 ft

Soil/Rock Type	Color	Moisture Content	% Fines	Structure	Vapor (ppm)	Staining	Sample #	Depth	Sample Recovery	Penetration Resistance	LITHOLOGY/REMARKS	Comments
											Fill	
					<1			5	40%		Clay, brown to dark brown, well graded, high plasticity, sandy, moist	
											Sand, tan to white, medium to coarse grained, moderately graded, large angular quartz gravel	
					22	Y		10	65%		Clay, black to brown, well graded, high plasticity, sandy, moist, staining	
					<1	N						
								15	80%		Sand, tan to white, medium to coarse grained, moderately graded, large angular quartz gravel	
					154	Y					Clay, black to brown, well graded, high plasticity, sandy, moist	Temporary PVC pipe installed
					120	Y		20	85%		Sand, white to gray, medium to coarse grained, poorly graded, large quartz gravel, staining	
					70	Y					Clay, black to brown, well graded, high plasticity, sandy, moist, staining	
					27	Y		25	85%		Sand, tan to brown, medium to coarse grained, clayey, moist, staining	Soil Sample SB5-24
						N						GW at 25 ft. GW sample SB5
					<1	N		30	85%		Claystone, tan to brown, low plasticity, trace sand	TD 30 ft.
												PVC pipe removed- Boring backfilled w/ hydrated bentonite

LOCATION MAP

Pierce Central
SB 7



4690 Table Mountain Drive #200
Golden, CO 80403
T. 303.237.2072 F. 303.237.2659

TEST HOLE/ WELL LOG

Page 1 of 1

Test/Well Number: SB7

Project: Stelbar

Date: 8/11/14

Project Number: 014-1916

Logged By: Nikki Graber

Drilled By: Site Services

Drilling Method: Direct Push

Sampling Method: Macro Core

Elevation: NM

Detector: PID

Seal: Bentonite

Grout: NA

Gravel Pack: NA

Hole Dia.: 2 inch

F. L. Meter:

Casing Type: PVC

Diameter: 1-inch

Length: 20 ft.

DTP: 22.45 ft.

DTW: 22.51 ft.

Screen Type: PVC

Slot: .001 inch

Diameter: 1-inch

Length: 10 ft

Well Depth: 30 ft

Total Depth: 30 ft

Soil/Rock Type	Color	Moisture Content	% Fines	Structure	Vapor (ppm)	Staining	Sample #	Depth	Sample Recovery	Penetration Resistance	LITHOLOGY/REMARKS	Comments
											Fill	
					>1	Y		5	80%		Clay, brown to dark brown, high plasticity, sandy, fine to medium grain, moist, trace hydrocarbon staining	
					172						Sand, tan to black, medium to coarse grained, large angular quartz gravel, hydrocarbon staining	
					50	Y		10	75%		Clay, black to brown, very plastic, sandy, fine to coarse grain, moist, hydrocarbon staining	No groundwater at time of drilling
					20						Sand, white to gray, medium to coarse grained, large quartz gravels, hydrocarbon staining	
					15	Y		15	45%		Claystone, tan to brown, slightly plastic, trace sandy, medium to coarse grain	Temporary PVC installed
					10							
					11	Y		20	0%		Sand, tan to brown, medium to coarse grained, clayey, moderately plastic, moist, hydrocarbon staining	
					463	Y		25	40%		Sand, tan to brown, medium to coarse grained, clayey, moist, hydrocarbon staining	GW sample SB7 - 8/15/14
					214						Sand, tan to brown, medium to coarse grained, clayey, moderately plastic, moist, hydrocarbon staining	Soil Sample SB7-28
					11	Y		30	60%			TD 30 ft
												Groundwater at 22.51 ft.
												Hydrocarbon at 22.45 ft.- 8/18/14
												PVC removed - Boring backfilled w/ hydrated bentonite

LOCATION MAP
Pierce Central
SB 8



4690 Table Mountain Drive #200
 Golden, CO 80403
 T. 303.237.2072 F. 303.237.2659

TEST HOLE/ WELL LOG

Page 1 of 1

Test/Well Number: SB8

Project: Stelbar

Date: 8/11/14

Project Number: 014-1916

Logged By: Nikki Graber

Drilled By: Site Services

Drilling Method: Direct Push

Sampling Method: Macro Core

Elevation: NM

Detector: PID

Seal: Bentonite

Grout: NA

Gravel Pack: NA

Hole Dia.: 2 inch

F. L. Meter:

Casing Type: PVC

Diameter: 1-inch

Length: 10 ft

DTP: N/A

DTW: Dry

Screen Type: PVC

Slot: .001 inch

Diameter: 1-inch

Length: 10 ft

Well Depth: 20 ft

Total Depth: 20 ft

Soil/Rock Type	Color	Moisture Content	% Fines	Structure	Vapor (ppm)	Staining	Sample #	Depth	Sample Recovery	Penetration Resistance	LITHOLOGY/REMARKS	Comments
					>1	N		5	0%		Clay, brown to dark brown, very plastic, sandy, fine to coarse grain, moist	
											Clay, brown to dark brown, very plastic, sandy, fine to coarse grain, moist	
					>1	N		10	60%		Sand, tan to white, medium to coarse grained, large angular quartz gravel, dry to slightly moist	
											Sand, brown, medium to coarse grained, dry to slightly moist	Temporary PVC installed - Dry
					>1	N		15	65%		Clay, brown, very plastic, sandy, fine to medium grain, moist	
											Sand, tan to brown, medium to coarse grained, poorly graded	Soil Sample SB8-20
					>1	N		20	85%			TD 20 ft
												PVC removed - Boring backfilled w/ hydrated bentonite

LOCATION MAP
Pierce Central
SB 9



4690 Table Mountain Drive #200
 Golden, CO 80403
 T. 303.237.2072 F. 303.237.2659

TEST HOLE/ WELL LOG Page 1 of 1

Test/Well Number: SB9	Project: Stelbar
Date: 8/11/14	Project Number: 014-1916
Logged By: Nikki Graber	Drilled By: Site Services
Drilling Method: Direct Push	Sampling Method: Macro Core

Elevation: NM	Detector: PID	Seal: Bentonite	Grout: NA
Gravel Pack: NA	Hole Dia.: 2 inch		F. L. Meter:
Casing Type: PVC	Diameter: 1-inch	Length: 10 ft	DTP: N/A
Screen Type: PVC	Slot: .001	Diameter: 1-inch	Length: 10 ft
			Well Depth: 20 ft
			Total Depth: 20

Soil/Rock Type	Color	Moisture Content	% Fines	Structure	Vapor (ppm)	Staining	Sample #	Depth	Sample Recovery	Penetration Resistance	LITHOLOGY/REMARKS	Comments
											Fill	
					204	Y		5	60%		Clay, brown to dark brown, very plastic, sandy, fine to coarse grain, moist, hydrocarbon staining	
											Sand, tan to black, medium to coarse grained, large angular quartz gravel, hydrocarbon staining	
					401	Y		10	85%		Clay, black to brown, very plastic, sandy, fine to coarse grain, moist, hydrocarbon staining	Temporary PVC installed - Dry
					408	Y		15	55%			Soil Sample SB9-15
											Sand, white to gray, medium to coarse grained, large quartz gravel, hydrocarbon staining	
					318	Y		20	90%		Equipment refusal at 20 ft.	TD 20 feet
												PVC removed- Boring backfilled with hydrated bentonite

LOCATION MAP

Pierce Central
SB 11



4690 Table Mountain Drive #200
Golden, CO 80403
T. 303.237.2072 F. 303.237.2659

TEST HOLE/ WELL LOG

Page 1 of 1

Test/Well Number: SB11

Project: Stelbar

Date: 8/11/14

Project Number: 014-1916

Logged By: Nikki Graber

Drilled By: Site Services

Drilling Method: Direct Push

Sampling Method: Macro Core

Elevation: NM

Detector: PID

Seal: Bentonite

Grout: NA

Gravel Pack: NA

Hole Dia.: 2 inch

F. L. Meter:

Casing Type: PVC

Diameter: 1-inch

Length: 10 ft

DTP: 21.22 ft.

DTW: 21.24 ft.

Screen Type: PVC

Slot: .001 inch

Diameter: 1-inch

Length: 20 ft

Well Depth: 30 ft

Total Depth: 30 ft

Soil/Rock Type	Color	Moisture Content	% Fines	Structure	Vapor (ppm)	Staining	Sample #	Depth	Sample Recovery	Penetration Resistance	LITHOLOGY/REMARKS	Comments
					<1	N					Fill	
											Clay, brown to dark brown, very plastic, sandy, fine to coarse grain, moist	
					<1	N		5	50%		Clay, black to brown, very plastic, sandy, fine to coarse grain, moist, trace hydrocarbon staining	
					344							
					232	Y		10	70%		Sand, tan to white, medium to coarse grained, large angular quartz gravels, hydrocarbon staining	
					221							
					204	Y		15	80%		Sand, tan to white, medium to coarse grained, large angular quartz gravels, hydrocarbon staining	Temporary PVC installed
					259	Y		20	85%		Clay, black to brown, very plasticity, sandy, fine to coarse grain, moist, hydrocarbon staining	Groundwater at 21.29 ft. at time of drilling
					373	Y		25	70%		Sand, tan to brown, medium to coarse grained, clayey, moist, hydrocarbon staining	Soil Sample SB11-25
					241	Y					Claystone, tan to brown, low plasticity, moderately graded, trace sand, staining	TD 30 feet
					147	Y		30				Final depth to Groundwater 21.24 ft. Hydrocarbon 21.22 ft. 8/18/14
												PVC pipe removed – Boring backfilled w/ hydrated bentonite

LOCATION MAP

Pierce Central
SB 12



4690 Table Mountain Drive #200
Golden, CO 80403
T. 303.237.2072 F. 303.237.2659

TEST HOLE/ WELL LOG

Page 1 of 1

Test/Well Number: SB12

Project: Stelbar

Date: 9/3/14

Project Number: 014-1916

Logged By: Nikki Graber

Drilled By: Site Services

Drilling Method: Direct Push

Sampling Method: Macro Core

Elevation: NM

Detector: PID

Seal: Bentonite

Grout: NA

Gravel Pack: NA

Hole Dia.: 2 inch

F. L. Meter:

Casing Type: PVC

Diameter: 1-inch

Length: 10 ft

DTP: N/A

DTW:

Screen Type: PVC

Slot: .001 inch

Diameter: 1-inch

Length: 10 ft

Well Depth: 20 ft.

Total Depth: 20 ft

Soil/Rock Type	Color	Moisture Content	% Fines	Structure	Vapor (ppm)	Staining	Sample #	Depth	Sample Recovery	Penetration Resistance	LITHOLOGY/REMARKS	Comments
					<1	N					Fill	
					<1	N		5	50%		Clay, brown to dark brown, very plastic, sandy, fine to coarse grain, moist	
					<1	N					Sand, white, medium to coarse grained, large angular quartz gravels	
					<1	N					Sand, tan to cream, medium to coarse grained, large angular quartz gravels	
					<1	N		10	70%		Clay, brown to dark brown, very plastic, sandy, fine to coarse grain, moist, hydrocarbon staining	Soil Sample SB12-12.5
					641	Y					Sand, tan to cream, medium to coarse grained, large angular quartz gravels, hydrocarbon staining	Temporary PVC installed - Dry
					419	Y		15	80%			
					212							
					180	Y						
					109	Y		20	85%		Clay, black to brown, moderate plasticity, sandy, fine to coarse grain, moist, hydrocarbon staining	TD 20 feet
											Equipment refusal at 20 ft.	
												PVC pipe removed – Boring backfilled w/ hydrated bentonite

LOCATION MAP
Pierce Central
SB 13



4690 Table Mountain Drive #200
 Golden, CO 80403
 T. 303.237.2072 F. 303.237.2659

TEST HOLE/ WELL LOG

Page 1 of 1

Test/Well Number: SB13	Project: Stelbar
Date: 9/3/14	Project Number: 014-1916
Logged By: Nikki Graber	Drilled By: Site Services
Drilling Method: Direct Push	Sampling Method: Macro Core

Elevation: NM	Detector: PID	Seal:	Grout: NA
Gravel Pack: NA		Hole Dia.: 2 inch	F. L. Meter:
Casing Type: NA	Diameter	Length:	DTP: N/A
Screen Type: NA	Slot:	Diameter:	Length:
		Well Depth:	Total Depth: 20 ft

Soil/Rock Type	Color	Moisture Content	% Fines	Structure	Vapor (ppm)	Staining	Sample #	Depth	Sample Recovery	Penetration Resistance	LITHOLOGY/REMARKS	Comments
					<1	N					Fill	
					<1	N		5	70%		Clay, brown to dark brown, very plastic, sandy, fine to coarse grain, moist	
					<1	N					Sand, tan to white, medium to coarse grained	
					<1	N					Sand, tan to white, medium to coarse grained, large angular quartz gravels	
					<1	N		10	60%		Clay, brown, very plastic, sandy, fine to coarse grain	
					<1	N					Sand, tan to white, medium to coarse grained, large angular quartz gravels	
					<1	N						
					<1	N		15	25%			
					<1	N						
					<1	N						
					<1	N		20	80%		Claystone, tan to brown, low plasticity, moderately graded, trace sand	Soil Sample SB13-20 TD 20 ft
												Boring backfilled w/ hydrated bentonite

LOCATION MAP
Pierce Central
SB 14



4690 Table Mountain Drive #200
 Golden, CO 80403
 T. 303.237.2072 F. 303.237.2659

TEST HOLE/ WELL LOG

Page 1 of 1

Test/Well Number: SB14	Project: Stelbar
Date: 9/3/14	Project Number: 014-1916
Logged By: Nikki Graber	Drilled By: Site Services
Drilling Method: Direct Push	Sampling Method: Macro Core

Elevation: NM	Detector: PID	Seal:	Grout: NA
Gravel Pack: NA		Hole Dia.: 2 inch	F. L. Meter:
Casing Type: NA	Diameter	Length:	DTP: N/A
Screen Type: NA	Slot:	Diameter:	Length:
		Well Depth:	Total Depth: 25 ft

Soil/Rock Type	Color	Moisture Content	% Fines	Structure	Vapor (ppm)	Staining	Sample #	Depth	Sample Recovery	Penetration Resistance	LITHOLOGY/REMARKS	Comments
					<1	N					Fill	Soil Sample SB14-13
					<1	N		5	30%		Clay, brown to dark brown, very plastic, sandy, fine to coarse grain, moist	
					<1	N					Lost core from 5-10 ft. due to gravel in cutting shoe	
					8	N		10	0%			
					497	Y					Sand, tan to white, medium to coarse grained, large angular quartz gravels, hydrocarbon staining	
					330	Y		15	60%			
					20	Y					Sand, tan to white, medium to coarse grained, hydrocarbon staining	
					<1	N		20	75%		Sand, tan to white, medium to coarse grained, large angular quartz gravels, hydrocarbon staining	
					<1	N					Sand, tan to white, medium to coarse grained	
					<1	N		25	70%		Claystone, tan to brown, low plasticity, moderately graded, trace sand	
											TD 25 ft	
											Boring backfilled w/ hydrated bentonite	

LOCATION MAP

Pierce Central
SB 15



4690 Table Mountain Drive #200
Golden, CO 80403
T. 303.237.2072 F. 303.237.2659

TEST HOLE/ WELL LOG

Page 1 of 1

Test/Well Number: SB15

Project: Stelbar

Date: 9/3/14

Project Number: 014-1916

Logged By: Nikki Graber

Drilled By: Site Services

Drilling Method: Direct Push

Sampling Method: Macro Core

Elevation: NM

Detector: PID

Seal:

Grout: NA

Gravel Pack: NA

Hole Dia.: 2 inch

F. L. Meter:

Casing Type: NA

Diameter

Length:

DTP: N/A

DTW:

Screen Type: NA

Slot:

Diameter:

Length:

Well Depth:

Total Depth: 25 ft

Soil/Rock Type	Color	Moisture Content	% Fines	Structure	Vapor (ppm)	Staining	Sample #	Depth	Sample Recovery	Penetration Resistance	LITHOLOGY/REMARKS	Comments
					<1	N					Fill	
					<1	N		5	80%		Clay, brown to dark brown, very plastic, sandy, fine to coarse grain, moist	
					<1	N					Sand, tan to white, medium to coarse grained, large angular quartz gravels	
					51	Y		10	80%		Clay, black to brown, very plasticity, sandy, fine to coarse grain, moist, hydrocarbon staining	
					448	Y					Sand, tan to cream, medium to coarse grained, hydrocarbon staining	Soil Sample SB15-12.5
					273	Y		15	90%		Sand, white, medium to coarse grained, hydrocarbon staining	
					447	Y					Sand, tan to cream, medium to coarse grained, hydrocarbon staining	
					199	Y		20	90%		Clay, black to brown, very plasticity, sandy, fine to coarse grain, moist, hydrocarbon staining	
					8	Y					Clay, black to brown, very plasticity, sandy, fine to coarse grain, moist, hydrocarbon staining	
					<1	N		25	80%		Claystone, tan to brown, low plasticity, moderately graded, trace sand	TD 25 feet
												Boring backfilled w/ hydrated bentonite

Pierce Central Tank Battery
NW of HWY 85 & WCR 90
Pierce, Colorado

Weld County, Colorado

Olsson Project # 014-1916

Date Started : 10/13/14

Date Completed : 10/14/14

Drilling Contractor : ACI Services

Drilling Method : 6" OSD Hollow Stem Auger

Sampling Method : Auger Cuttings

Logged By : Jason Davidson

Hole Diameter : 6 inch

Depth to Product : NA

Depth to Water : 23.72'

Total Boring Depth : 40 ft bgs

Depth in Feet	Surf. Elev.	USCS	GRAPHIC	DESCRIPTION	SAMPLE DATA				Well: MW-1
					Ground Water Levels	Sample No.	Sample Type	% Recovery	
				Ground Water Levels ▼ During Drilling - 33.0' ▽ Post Completion - 23.72' ◆ At End of Drilling					
0		Fill		FILL - Clay and coarse grained gravel, moist, dark brown					Flush Mounted Protective Cover
5		GC		GRAVEL - Well graded, sandy, coarse grained, clayey, moist, brown					Hydrated Bentonite Chips
10		CL		CLAY - Sandy to very sandy, coarse grained, slightly gravelly, moist, brown					2 inch, PVC Riser Pipe
15				Interbedded sand lenses from 10 to 24 feet below ground surface (fbgs)					
20					1	Auger Cuttings			
25		SW		SAND - Well graded, coarse grained gravel, wet, brown					10/20 Commercially Washed Sand
35				Petroleum odors and staining observed from 32 to 34 fbgs					
40		TOTAL BORING DEPTH = 40' Below Ground Surface							

Pierce Central Tank Battery
NW of HWY 85 & WCR 90
Pierce, Colorado

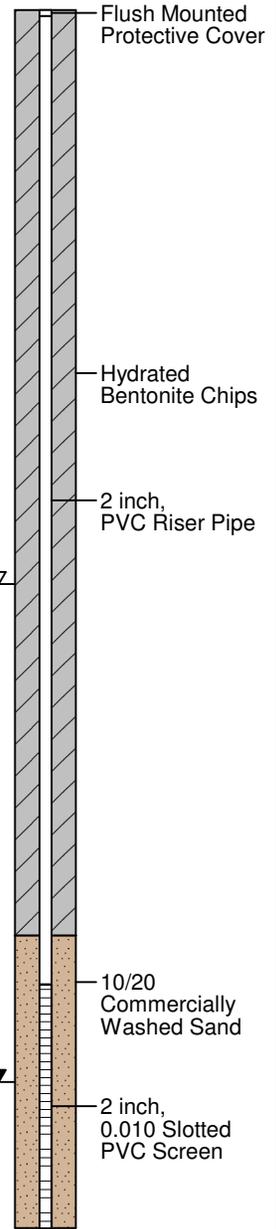
Weld County, Colorado

Olsson Project # 014-1916

Date Started : 10/13/14
Date Completed : 10/14/14
Drilling Contractor : ACI Services
Drilling Method : 6" OSD Hollow Stem Auger
Sampling Method : Auger Cuttings

Logged By : Jason Davidson
Hole Diameter : 6 inch
Depth to Product : NA
Depth to Water : 23.56'
Total Boring Depth : 50 ft bgs

Depth in Feet	Surf. Elev.	USCS	GRAPHIC	Ground Water Levels	SAMPLE DATA				Well: MW-2	
				DESCRIPTION	Sample No.	Sample Type	% Recovery	PID (ppm)		
0		Fill		▼ During Drilling - 44.0' ▽ Post Completion - 23.56' ◆ At End of Drilling						
5		GC		GRAVEL - Well graded, sandy, coarse grained, slightly clayey, moist, brown						
15		GW		GRAVEL - Well graded, sandy, coarse grained, medium moist, brown						
20		CL		CLAY - Slightly sandy to sandy, medium moist, brown		Auger Cuttings				
23-28				Petroleum odors and staining observed from 23 to 28 feet below ground surface (fbgs)	1					
45		SP		SAND - Poorly graded, dense, moist, brown						
50		SW		SAND - Well Graded, coarse grained gravel, wet, brown						
				TOTAL BORING DEPTH = 50' Below Ground Surface						



ATTACHMENT 2

**DUE DILIGENCE INVESTIGATION
LABORATORY ANALYTICAL REPORTS**

July 29, 2014

Olsson Associates

Nikki Graber

4690 Table Mountain Drive

Golden CO 80403

Project Name - Stelbar Acquisition

Project Number - 014-1916

Attached are your analytical results for Stelbar Acquisition received by Origins Laboratory, Inc. July 28, 2014. This project is associated with Origins project number X407242-01.

The analytical results in the following report were analyzed under the guidelines of EPA Methods. These methods are identified as follows; "SW" are defined in SW-846, "EPA" are defined in 40CFR part 136 and "SM" are defined in the most current revision of Standard Methods For the Examination of Water and Wastewater.

The analytical results apply specifically to the samples and analyses specified per the attached Chain of Custody. As such, this report shall not be reproduced except in full, without the written approval of Origin's laboratory.

Unless otherwise noted, the analytical results for all soil samples are reported on a wet weight basis. All analytical analyses were performed under NELAP guidelines unless noted by a data qualifier.

Any holding time exceedances, deviations from the method specifications or deviations from Origins Laboratory's Standard Operating Procedures are outlined in the case narrative.

Thank you for selecting Origins for your analytical needs. Please contact us with any questions concerning this report, or if we can help with anything at all.

Origins Laboratory, Inc.
303.433.1322
o-squad@oelabinc.com



Olsson Associates
4690 Table Mountain Drive
Golden CO 80403

Nikki Graber
Project Number: 014-1916
Project: Stelbar Acquisition

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
PC-SB3-4	X407242-01	Soil	July 28, 2014 8:27	07/28/2014 17:15
PC-SB4-11	X407242-02	Soil	July 28, 2014 8:42	07/28/2014 17:15
PC-SB5-24	X407242-03	Soil	July 28, 2014 9:13	07/28/2014 17:15
PC-SB2-5	X407242-04	Soil	July 28, 2014 9:43	07/28/2014 17:15
PC-SB5-GW	X407242-06	Water	July 28, 2014 15:38	07/28/2014 17:15

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Ross S Hutto For Noelle Doyle Mathis, President

Olsson Associates
 4690 Table Mountain Drive
 Golden CO 80403

Nikki Graber
 Project Number: 014-1916
 Project: Stelbar Acquisition

Origins Laboratory

F-012207-01-R1
 Effective Date: 01/09/12

Sample Receipt Checklist

Origins Work Order: X407242

Client: Olsen

Client Project ID: STELBAR ACQUISITION

Checklist Completed by: Jeff Smith

Shipped Via: H/D

(UPS, FedEx, Hand Delivered, Pick-up, etc.)

Date/time completed: 7/29/14 1725

Airbill #: NA

Matrix(s) Received. (Check all that apply): Soil/Solid Water Other _____

Cooler Number/Temperature: _____ / 11.6 °C _____ / _____ °C _____ / _____ °C (Describe) _____ °C

Thermometer ID: T002

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C ⁽¹⁾ ?		X		SAME DAY
Is there ice present (document if blue ice is used)	X			
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)		X		
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)		X		
Were all samples received intact ⁽¹⁾ ?	X			
Was adequate sample volume provided ⁽¹⁾ ?	X			
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?		X		
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	X			
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	X			
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	X			
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	X			
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.		X		
Are samples preserved that require preservation and was it checked ⁽¹⁾ ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity/pH <2 for samples preserved with HNO3, HCL, H2SO4) / (pH >10 for samples preserved with NaAsO2+NaOH, ZnAc+NaOH)		X		
Additional Comments (if any):				

⁽¹⁾ If NO, then contact the client before proceeding with analysis and note date/time and person contacted as well as the corrective action to in the additional comments (above) and the case narrative.


 Reviewed by (Project Manager)

07-29-14 1716
 Date/Time Reviewed

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Olsson Associates
 4690 Table Mountain Drive
 Golden CO 80403

Nikki Graber
 Project Number: 014-1916
 Project: Stelbar Acquisition

PC-SB3-4

7/28/2014 8:27:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X407242-01 (Soil)

Conductance/Specific Conductance by EPA 120.1

Specific Conductance (EC)	0.224		mmhos/cm	1	4G28020	07/28/2014	07/29/2014
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GRO (TVPH)/DRO (TEPH)by EPA 8015C

Gasoline (C6-C10)	ND	50.0	mg/kg	1	4G28014	07/28/2014	07/28/2014
Diesel (C10-C28)	ND	50.0	"	"	"	"	"

Surrogate: o-Terphenyl	110 %	59-131			"	"	"
------------------------	-------	--------	--	--	---	---	---

pH in Soil by EPA 9045D

pH	8.10		pH Units	1	4G28018	07/28/2014	07/29/2014
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Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Olsson Associates
 4690 Table Mountain Drive
 Golden CO 80403

Nikki Graber
 Project Number: 014-1916
 Project: Stelbar Acquisition

PC-SB4-11

7/28/2014 8:42:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X407242-02 (Soil)

Conductance/Specific Conductance by EPA 120.1

Specific Conductance (EC)	0.161		mmhos/cm	1	4G28020	07/28/2014	07/29/2014
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GRO (TVPH)/DRO (TEPH)by EPA 8015C

Gasoline (C6-C10)	342	50.0	mg/kg	1	4G28014	07/28/2014	07/28/2014
Diesel (C10-C28)	1550	50.0	"	"	"	"	"

Surrogate: o-Terphenyl	103 %	59-131			"	"	"
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pH in Soil by EPA 9045D

pH	8.76		pH Units	1	4G28018	07/28/2014	07/29/2014
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Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Olsson Associates
 4690 Table Mountain Drive
 Golden CO 80403

Nikki Graber
 Project Number: 014-1916
 Project: Stelbar Acquisition

PC-SB5-24

7/28/2014 9:13:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X407242-03 (Soil)

Conductance/Specific Conductance by EPA 120.1

Specific Conductance (EC)	0.132		mmhos/cm	1	4G28020	07/28/2014	07/29/2014
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GRO (TVPH)/DRO (TEPH)by EPA 8015C

Gasoline (C6-C10)	386	50.0	mg/kg	1	4G28014	07/28/2014	07/28/2014
Diesel (C10-C28)	1510	50.0	"	"	"	"	"

Surrogate: o-Terphenyl	103 %	59-131			"	"	"
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pH in Soil by EPA 9045D

pH	7.91		pH Units	1	4G28018	07/28/2014	07/29/2014
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Origins Laboratory, Inc.



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Olsson Associates
 4690 Table Mountain Drive
 Golden CO 80403

Nikki Graber
 Project Number: 014-1916
 Project: Stelbar Acquisition

PC-SB2-5

7/28/2014 9:43:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
---------	--------	-----------------	-------	----------	-------	----------	----------	-------

Origins Laboratory, Inc.
X407242-04 (Soil)

Conductance/Specific Conductance by EPA 120.1

Specific Conductance (EC)	0.271		mmhos/cm	1	4G28020	07/28/2014	07/29/2014
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GRO (TVPH)/DRO (TEPH)by EPA 8015C

Gasoline (C6-C10)	ND	50.0	mg/kg	1	4G28014	07/28/2014	07/28/2014
Diesel (C10-C28)	70.5	50.0	"	"	"	"	"

Surrogate: o-Terphenyl	97.2 %	59-131			"	"	"
------------------------	--------	--------	--	--	---	---	---

pH in Soil by EPA 9045D

pH	8.01		pH Units	1	4G28018	07/28/2014	07/29/2014
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Origins Laboratory, Inc.



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Olsson Associates
 4690 Table Mountain Drive
 Golden CO 80403

Nikki Graber
 Project Number: 014-1916
 Project: Stelbar Acquisition

PC-SB5-GW

7/28/2014 3:38:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X407242-06 (Water)

BTEX by EPA 8260C

Benzene	ND	1.0	ug/L	1	4G28011	07/28/2014	07/28/2014	
Toluene	ND	1.0	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	
Xylenes, total	ND	1.0	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4	96.3 %	87.3-113			"	"	"	
Surrogate: Toluene-d8	105 %	90.9-108			"	"	"	
Surrogate: 4-Bromofluorobenzene	95.7 %	88.6-111			"	"	"	

Conductance/Specific Conductance by EPA 120.1

Specific Conductance (EC)	0.805	0.00100	mmhos/cm	1	4G28017	07/28/2014	07/29/2014	
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pH in Water by EPA 9040C

pH	7.67		pH Units	"	4G28016	07/28/2014	07/29/2014	
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Origins Laboratory, Inc.



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Olsson Associates
 4690 Table Mountain Drive
 Golden CO 80403

Nikki Graber
 Project Number: 014-1916
 Project: Stelbar Acquisition

Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch 4G28011 - EPA 5030B (Water)

Blank (4G28011-BLK1)

Prepared: 07/28/2014 Analyzed: 07/28/2014

Benzene	ND	1.0	ug/L							
Toluene	ND	1.0	"							
Ethylbenzene	ND	1.0	"							
Xylenes, total	ND	1.0	"							
Surrogate: 1,2-Dichloroethane-d4	60		"	62.5		95.8	87.3-113			
Surrogate: Toluene-d8	65		"	62.5		104	90.9-108			
Surrogate: 4-Bromofluorobenzene	60		"	62.5		95.4	88.6-111			

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Olsson Associates
 4690 Table Mountain Drive
 Golden CO 80403

Nikki Graber
 Project Number: 014-1916
 Project: Stelbar Acquisition

Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 4G28011 - EPA 5030B (Water)

LCS (4G28011-BS1)

Prepared: 07/28/2014 Analyzed: 07/28/2014

Benzene	52.9	1.0	ug/L	50.0		106	75-126			
Toluene	54.7	1.0	"	50.0		109	78.7-126			
Ethylbenzene	55.8	1.0	"	50.0		112	81-130			
m,p-Xylene	111	2.0	"	100		111	77.2-133			
o-Xylene	54.3	1.0	"	50.0		109	77.9-126			
Surrogate: 1,2-Dichloroethane-d4	57		"	62.5		90.7	87.3-113			
Surrogate: Toluene-d8	66		"	62.5		106	90.9-108			
Surrogate: 4-Bromofluorobenzene	60		"	62.5		95.4	88.6-111			

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Olsson Associates
 4690 Table Mountain Drive
 Golden CO 80403

Nikki Graber
 Project Number: 014-1916
 Project: Stelbar Acquisition

Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 4G28011 - EPA 5030B (Water)

Matrix Spike (4G28011-MS1)	Source: X407227-21			Prepared: 07/28/2014 Analyzed: 07/28/2014						
Benzene	55.1	1.0	ug/L	50.0	ND	110	74-130			
Toluene	59.0	1.0	"	50.0	ND	118	73-131			
Ethylbenzene	60.2	1.0	"	50.0	ND	120	76-132			
m,p-Xylene	119	2.0	"	100	ND	119	69-139			
o-Xylene	57.8	1.0	"	50.0	ND	116	74-131			
Surrogate: 1,2-Dichloroethane-d4	56		"	62.5		89.4	87.3-113			
Surrogate: Toluene-d8	66		"	62.5		106	90.9-108			
Surrogate: 4-Bromofluorobenzene	60		"	62.5		95.4	88.6-111			

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Olsson Associates
 4690 Table Mountain Drive
 Golden CO 80403

Nikki Graber
 Project Number: 014-1916
 Project: Stelbar Acquisition

Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch 4G28011 - EPA 5030B (Water)

Matrix Spike Dup (4G28011-MSD1)	Source: X407227-21				Prepared: 07/28/2014 Analyzed: 07/28/2014					
Benzene	52.8	1.0	ug/L	50.0	ND	106	74-130	4.36	20	
Toluene	56.0	1.0	"	50.0	ND	112	73-131	5.11	20	
Ethylbenzene	57.1	1.0	"	50.0	ND	114	76-132	5.29	20	
m,p-Xylene	113	2.0	"	100	ND	113	69-139	5.02	20	
o-Xylene	55.2	1.0	"	50.0	ND	110	74-131	4.56	20	
Surrogate: 1,2-Dichloroethane-d4	56		"	62.5		90.0	87.3-113			
Surrogate: Toluene-d8	66		"	62.5		106	90.9-108			
Surrogate: 4-Bromofluorobenzene	60		"	62.5		96.1	88.6-111			

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Ross S Hutto For Noelle Doyle Mathis, President

Olsson Associates
 4690 Table Mountain Drive
 Golden CO 80403

Nikki Graber
 Project Number: 014-1916
 Project: Stelbar Acquisition

Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Extractable Petroleum Hydrocarbons by 8015M - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 4G28014 - EPA 3580

Blank (4G28014-BLK1)

Prepared: 07/28/2014 Analyzed: 07/28/2014

Gasoline (C6-C10)	ND	50.0	mg/kg							
Diesel (C10-C28)	ND	50.0	"							
Surrogate: o-Terphenyl	49		g	50.0		97.5	59-131			

LCS (4G28014-BS1)

Prepared: 07/28/2014 Analyzed: 07/28/2014

Gasoline (C6-C10)	944	50.0	mg/kg	1000		94.4	59-133			
Diesel (C10-C28)	881	50.0	"	1000		88.1	64-121			
Surrogate: o-Terphenyl	43		g	50.0		85.2	59-131			

LCS Dup (4G28014-BSD1)

Prepared: 07/28/2014 Analyzed: 07/28/2014

Gasoline (C6-C10)	1020	50.0	mg/kg	1000		102	59-133	7.71	20	
Diesel (C10-C28)	910	50.0	"	1000		91.0	64-121	3.22	20	
Surrogate: o-Terphenyl	45		g	50.0		89.7	59-131			

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Olsson Associates
 4690 Table Mountain Drive
 Golden CO 80403

Nikki Graber
 Project Number: 014-1916
 Project: Stelbar Acquisition

Classical Chemistry Parameters - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 4G28016 - NO PREP										
Duplicate (4G28016-DUP1)		Source: X407242-06			Prepared: 07/28/2014 Analyzed: 07/29/2014					
pH	7.66		pH Units		7.67			0.196	200	
Batch 4G28017 - NO PREP										
Blank (4G28017-BLK1)		Prepared: 07/28/2014 Analyzed: 07/29/2014								
Specific Conductance (EC)	0.00180	0.00100	mmhos/cm							
Duplicate (4G28017-DUP1)		Source: X407242-06			Prepared: 07/28/2014 Analyzed: 07/29/2014					
Specific Conductance (EC)	0.807	0.00100	mmhos/cm		0.805			0.248	10	
Batch 4G28018 - NO PREP										
Duplicate (4G28018-DUP1)		Source: X407242-01			Prepared: 07/28/2014 Analyzed: 07/29/2014					
pH	8.01		pH Units		8.10			1.09	25	
Batch 4G28020 - NO PREP										
Blank (4G28020-BLK1)		Prepared: 07/28/2014 Analyzed: 07/29/2014								
Specific Conductance (EC)	0.00180		mmhos/cm							
Duplicate (4G28020-DUP1)		Source: X407242-01			Prepared: 07/28/2014 Analyzed: 07/29/2014					
Specific Conductance (EC)	0.227		mmhos/cm		0.224			1.33	10	

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Olsson Associates

4690 Table Mountain Drive

Golden CO 80403

Nikki Graber

Project Number: 014-1916

Project: Stelbar Acquisition

Notes and Definitions

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Ross S Hutto For Noelle Doyle Mathis, President

August 13, 2014

Olsson Associates

Nikki Graber

4690 Table Mountain Drive

Golden CO 80403

Project Name - Stelbar Acquisition

Project Number - 014-1916

Attached are your analytical results for Stelbar Acquisition received by Origins Laboratory, Inc. August 11, 2014. This project is associated with Origins project number X408090-01.

The analytical results in the following report were analyzed under the guidelines of EPA Methods. These methods are identified as follows; "SW" are defined in SW-846, "EPA" are defined in 40CFR part 136 and "SM" are defined in the most current revision of Standard Methods For the Examination of Water and Wastewater.

The analytical results apply specifically to the samples and analyses specified per the attached Chain of Custody. As such, this report shall not be reproduced except in full, without the written approval of Origin's laboratory.

Unless otherwise noted, the analytical results for all soil samples are reported on a wet weight basis. All analytical analyses were performed under NELAP guidelines unless noted by a data qualifier.

Any holding time exceedances, deviations from the method specifications or deviations from Origins Laboratory's Standard Operating Procedures are outlined in the case narrative.

Thank you for selecting Origins for your analytical needs. Please contact us with any questions concerning this report, or if we can help with anything at all.

Origins Laboratory, Inc.
303.433.1322
o-squad@oelabinc.com



Olsson Associates
4690 Table Mountain Drive
Golden CO 80403

Nikki Graber
Project Number: 014-1916
Project: Stelbar Acquisition

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
PC-SB6-20	X408090-01	Soil	August 11, 2014 9:47	08/11/2014 16:07
PC-SB7-28	X408090-02	Soil	August 11, 2014 10:16	08/11/2014 16:07
PC-SB8-20	X408090-03	Soil	August 11, 2014 9:14	08/11/2014 16:07
PC-SB9-15	X408090-04	Soil	August 11, 2014 11:17	08/11/2014 16:07
PC-SB10-15	X408090-05	Soil	August 11, 2014 12:01	08/11/2014 16:07
PC-SB11-25	X408090-06	Soil	August 11, 2014 12:51	08/11/2014 16:07

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Noelle Doyle Mathis, President

Olsson Associates
 4690 Table Mountain Drive
 Golden CO 80403

Nikki Graber
 Project Number: 014-1916
 Project: Stelbar Acquisition

Origins Laboratory

F-012207-01-R1
 Effective Date: 01/09/12

Sample Receipt Checklist

Origins Work Order: X408096

Client: Olsson Associates

Client Project ID: Stelbar

Checklist Completed by: Jeff Smith

Shipped Via: HD
 (UPS, FedEx, Hand Delivered, Pick-up, etc.)

Date/time completed: 8/11/14 1614

Airbill #: NA

Matrix(s) Received: (Check all that apply): Soil/Solid Water Other: _____ (Describe)

Cooler Number/Temperature: 13.2 °C / 1 °C / 1 °C / 1 °C

Thermometer ID: 7002

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C ⁽¹⁾ ?		<input checked="" type="checkbox"/>		<u>Sampled Same Day</u>
Is there ice present (document if blue ice is used)	<input checked="" type="checkbox"/>			
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)		<input checked="" type="checkbox"/>		
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)		<input checked="" type="checkbox"/>		
Were all samples received intact ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Was adequate sample volume provided ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Are short holding time analytes or samples with HTS due within 48 hours present ⁽¹⁾ ?	<input checked="" type="checkbox"/>			<u>PH</u>
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.			<input checked="" type="checkbox"/>	
Are samples preserved that require preservation and was it checked ⁽¹⁾ ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity)/(pH <2 for samples preserved with HNO3, HCL, H2SO4) / (pH >10 for samples preserved with NaAsO2+NaOH, ZnAc+NaOH)			<input checked="" type="checkbox"/>	
Additional Comments (if any):				

⁽¹⁾ If NO, then contact the client before proceeding with analysis and note date/time and person contacted as well as the corrective action to in the additional comments (above) and the case narrative.

Reviewed by (Project Manager) [Signature]

8.13.14 JTB
 Date/Time Reviewed

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Olsson Associates
 4690 Table Mountain Drive
 Golden CO 80403

Nikki Graber
 Project Number: 014-1916
 Project: Stelbar Acquisition

PC-SB6-20

8/11/2014 9:47:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
 X408090-01 (Soil)

Conductance/Specific Conductance by EPA 120.1

Specific Conductance (EC)	0.370		mmhos/cm	1	4H11015	08/11/2014	08/12/2014
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GRO (TVPH)/DRO (TEPH)by EPA 8015C

Gasoline (C6-C10)	ND	50.0	mg/kg	1	4H11011	08/11/2014	08/12/2014
Diesel (C10-C28)	ND	50.0	"	"	"	"	"

<i>Surrogate: o-Terphenyl</i>	83.7 %	59-131			"	"	"
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pH in Soil by EPA 9045D

pH	8.13		pH Units	1	4H11014	08/11/2014	08/12/2014
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Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Olsson Associates
 4690 Table Mountain Drive
 Golden CO 80403

Nikki Graber
 Project Number: 014-1916
 Project: Stelbar Acquisition

PC-SB7-28

8/11/2014 10:16:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
 X408090-02 (Soil)

Conductance/Specific Conductance by EPA 120.1

Specific Conductance (EC)	0.123		mmhos/cm	1	4H11015	08/11/2014	08/12/2014	
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GRO (TVPH)/DRO (TEPH)by EPA 8015C

Gasoline (C6-C10)	1160	500	mg/kg	10	4H11011	08/11/2014	08/12/2014	
Diesel (C10-C28)	7200	500	"	"	"	"	"	

<i>Surrogate: o-Terphenyl</i>	124 %	59-131			"	"	"	S-06
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pH in Soil by EPA 9045D

pH	8.72		pH Units	1	4H11014	08/11/2014	08/12/2014	
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Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Olsson Associates
 4690 Table Mountain Drive
 Golden CO 80403

Nikki Graber
 Project Number: 014-1916
 Project: Stelbar Acquisition

PC-SB8-20

8/11/2014 9:14:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
 X408090-03 (Soil)

Conductance/Specific Conductance by EPA 120.1

Specific Conductance (EC)	0.0531		mmhos/cm	1	4H11015	08/11/2014	08/12/2014
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GRO (TVPH)/DRO (TEPH)by EPA 8015C

Gasoline (C6-C10)	ND	50.0	mg/kg	1	4H11011	08/11/2014	08/12/2014
Diesel (C10-C28)	ND	50.0	"	"	"	"	"

Surrogate: o-Terphenyl	92.2 %	59-131			"	"	"
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pH in Soil by EPA 9045D

pH	8.16		pH Units	1	4H11014	08/11/2014	08/12/2014
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Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Olsson Associates
 4690 Table Mountain Drive
 Golden CO 80403

Nikki Graber
 Project Number: 014-1916
 Project: Stelbar Acquisition

PC-SB9-15

8/11/2014 11:17:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
 X408090-04 (Soil)

Conductance/Specific Conductance by EPA 120.1

Specific Conductance (EC)	0.110		mmhos/cm	1	4H11015	08/11/2014	08/12/2014
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GRO (TVPH)/DRO (TEPH)by EPA 8015C

Gasoline (C6-C10)	840	50.0	mg/kg	1	4H11011	08/11/2014	08/12/2014
Diesel (C10-C28)	4380	50.0	"	"	"	"	"

<i>Surrogate: o-Terphenyl</i>	109 %	59-131			"	"	"
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pH in Soil by EPA 9045D

pH	7.92		pH Units	1	4H11014	08/11/2014	08/12/2014
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Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Olsson Associates
 4690 Table Mountain Drive
 Golden CO 80403

Nikki Graber
 Project Number: 014-1916
 Project: Stelbar Acquisition

PC-SB10-15

8/11/2014 12:01:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
 X408090-05 (Soil)

Conductance/Specific Conductance by EPA 120.1

Specific Conductance (EC)	0.147		mmhos/cm	1	4H11015	08/11/2014	08/12/2014
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GRO (TVPH)/DRO (TEPH)by EPA 8015C

Gasoline (C6-C10)	175	50.0	mg/kg	1	4H11011	08/11/2014	08/12/2014
Diesel (C10-C28)	2060	50.0	"	"	"	"	"

<i>Surrogate: o-Terphenyl</i>	98.0 %	59-131			"	"	"
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pH in Soil by EPA 9045D

pH	9.40		pH Units	1	4H11014	08/11/2014	08/12/2014
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Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Olsson Associates
 4690 Table Mountain Drive
 Golden CO 80403

Nikki Graber
 Project Number: 014-1916
 Project: Stelbar Acquisition

PC-SB11-25

8/11/2014 12:51:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
 X408090-06 (Soil)

Conductance/Specific Conductance by EPA 120.1

Specific Conductance (EC)	0.373		mmhos/cm	1	4H11015	08/11/2014	08/12/2014	
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GRO (TVPH)/DRO (TEPH)by EPA 8015C

Gasoline (C6-C10)	ND	500	mg/kg	10	4H11011	08/11/2014	08/12/2014	
Diesel (C10-C28)	3480	500	"	"	"	"	"	

<i>Surrogate: o-Terphenyl</i>	114 %	59-131			"	"	"	S-06
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pH in Soil by EPA 9045D

pH	8.61		pH Units	1	4H11014	08/11/2014	08/12/2014	
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Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Olsson Associates
 4690 Table Mountain Drive
 Golden CO 80403

Nikki Graber
 Project Number: 014-1916
 Project: Stelbar Acquisition

Extractable Petroleum Hydrocarbons by 8015M - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 4H11011 - EPA 3580										
Blank (4H11011-BLK1)					Prepared: 08/11/2014 Analyzed: 08/11/2014					
Gasoline (C6-C10)	ND	50.0	mg/kg							
Diesel (C10-C28)	ND	50.0	"							
<i>Surrogate: o-Terphenyl</i>	53		g	50.0		106	59-131			
Blank (4H11011-BLK2)					Prepared: 08/11/2014 Analyzed: 08/11/2014					
Gasoline (C6-C10)	ND	50.0	mg/kg							
Diesel (C10-C28)	ND	50.0	"							
<i>Surrogate: o-Terphenyl</i>	49		g	50.0		97.6	59-131			
LCS (4H11011-BS1)					Prepared: 08/11/2014 Analyzed: 08/11/2014					
Gasoline (C6-C10)	1040	50.0	mg/kg	1000		104	59-133			
Diesel (C10-C28)	1130	50.0	"	1000		113	64-121			
<i>Surrogate: o-Terphenyl</i>	52		g	50.0		104	59-131			
LCS (4H11011-BS2)					Prepared: 08/11/2014 Analyzed: 08/11/2014					
Gasoline (C6-C10)	1110	50.0	mg/kg	1000		111	59-133			
Diesel (C10-C28)	1090	50.0	"	1000		109	64-121			
<i>Surrogate: o-Terphenyl</i>	53		g	50.0		107	59-131			
Matrix Spike (4H11011-MS1)					Source: X408083-41 Prepared: 08/11/2014 Analyzed: 08/11/2014					
Gasoline (C6-C10)	1060	50.0	mg/kg	1000	ND	106	57-139			
Diesel (C10-C28)	1090	50.0	"	1000	14.4	108	53-125			
<i>Surrogate: o-Terphenyl</i>	49		g	50.0		98.9	59-131			
Matrix Spike (4H11011-MS2)					Source: X408083-42 Prepared: 08/11/2014 Analyzed: 08/11/2014					
Gasoline (C6-C10)	1140	50.0	mg/kg	1000	ND	114	57-139			
Diesel (C10-C28)	1200	50.0	"	1000	ND	120	53-125			
<i>Surrogate: o-Terphenyl</i>	55		g	50.0		109	59-131			

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Olsson Associates
 4690 Table Mountain Drive
 Golden CO 80403

Nikki Graber
 Project Number: 014-1916
 Project: Stelbar Acquisition

Extractable Petroleum Hydrocarbons by 8015M - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 4H11011 - EPA 3580										
Matrix Spike (4H11011-MS2)		Source: X408083-42			Prepared: 08/11/2014 Analyzed: 08/11/2014					
Matrix Spike Dup (4H11011-MSD1)		Source: X408083-41			Prepared: 08/11/2014 Analyzed: 08/11/2014					
Gasoline (C6-C10)	1090	50.0	mg/kg	1000	ND	109	57-139	2.27	20	
Diesel (C10-C28)	1110	50.0	"	1000	14.4	109	53-125	1.07	20	
<i>Surrogate: o-Terphenyl</i>	<i>50</i>		<i>g</i>	<i>50.0</i>		<i>99.6</i>	<i>59-131</i>			
Matrix Spike Dup (4H11011-MSD2)		Source: X408083-42			Prepared: 08/11/2014 Analyzed: 08/11/2014					
Gasoline (C6-C10)	1140	50.0	mg/kg	1000	ND	114	57-139	0.121	20	
Diesel (C10-C28)	1170	50.0	"	1000	ND	117	53-125	3.00	20	
<i>Surrogate: o-Terphenyl</i>	<i>56</i>		<i>g</i>	<i>50.0</i>		<i>111</i>	<i>59-131</i>			

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Olsson Associates
 4690 Table Mountain Drive
 Golden CO 80403

Nikki Graber
 Project Number: 014-1916
 Project: Stelbar Acquisition

Classical Chemistry Parameters - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 4H11014 - NO PREP										
Duplicate (4H11014-DUP1)		Source: X408090-01			Prepared: 08/11/2014 Analyzed: 08/12/2014					
pH	8.26		pH Units		8.13			1.56	25	
Batch 4H11015 - NO PREP										
Blank (4H11015-BLK1)		Prepared: 08/11/2014 Analyzed: 08/12/2014								
Specific Conductance (EC)	0.00190		mmhos/cm							
Duplicate (4H11015-DUP1)		Source: X408090-01			Prepared: 08/11/2014 Analyzed: 08/12/2014					
Specific Conductance (EC)	0.374		mmhos/cm		0.370			1.08	10	

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Olsson Associates
4690 Table Mountain Drive
Golden CO 80403

Nikki Graber
Project Number: 014-1916
Project: Stelbar Acquisition

Notes and Definitions

- S-06 The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference
- All soil results are reported at a wet weight basis.

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Noelle Doyle Mathis, President

August 21, 2014

Olsson Associates

Nikki Graber

4690 Table Mountain Drive

Golden CO 80403

Project Name - Stelbar Acquisition

Project Number - 014-1916

Attached are your analytical results for Stelbar Acquisition received by Origins Laboratory, Inc. August 15, 2014. This project is associated with Origins project number X408137-01.

The analytical results in the following report were analyzed under the guidelines of EPA Methods. These methods are identified as follows; "SW" are defined in SW-846, "EPA" are defined in 40CFR part 136 and "SM" are defined in the most current revision of Standard Methods For the Examination of Water and Wastewater.

The analytical results apply specifically to the samples and analyses specified per the attached Chain of Custody. As such, this report shall not be reproduced except in full, without the written approval of Origin's laboratory.

Unless otherwise noted, the analytical results for all soil samples are reported on a wet weight basis. All analytical analyses were performed under NELAP guidelines unless noted by a data qualifier.

Any holding time exceedances, deviations from the method specifications or deviations from Origins Laboratory's Standard Operating Procedures are outlined in the case narrative.

Thank you for selecting Origins for your analytical needs. Please contact us with any questions concerning this report, or if we can help with anything at all.

Origins Laboratory, Inc.
303.433.1322
o-squad@oelabinc.com



Olsson Associates
4690 Table Mountain Drive
Golden CO 80403

Nikki Graber
Project Number: 014-1916
Project: Stelbar Acquisition

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SB7-GW	X408137-01	Water	August 15, 2014 10:39	08/15/2014 14:30

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Noelle Doyle Mathis, President

Olsson Associates
 4690 Table Mountain Drive
 Golden CO 80403

Nikki Graber
 Project Number: 014-1916
 Project: Stelbar Acquisition

Origins Laboratory

F-012207-01-R1
 Effective Date: 01/09/12

Sample Receipt Checklist

Origins Work Order: X408137

Client: Olsson

Client Project ID: Stelbar

Checklist Completed by: Jeff Smith

Shipped Via: H/D

Date/time completed: 8/15/14

(UPS, FedEx, Hand Delivered, Pick-up, etc.)

Airbill #: NA

Matrix(s) Received: (Check all that apply): Soil/Solid Water Other:

Cooler Number/Temperature: 1 13.7 °C 1 °C 1 °C (Describe)

Thermometer ID: T002

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C ⁽¹⁾ ?		X		Sampled Same Day
Is there ice present (document if blue ice is used)	X			
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)		X		
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)		X		
Were all samples received intact ⁽¹⁾ ?	X			
Was adequate sample volume provided ⁽¹⁾ ?	X			
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?	X			PH
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	X			
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	X			
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	X			
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	X			
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.		X	8/15/14	X (SD)
Are samples preserved that require preservation and was it checked ⁽¹⁾ ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity) / (pH < 2 for samples preserved with HNO ₃ , HCL, H ₂ SO ₄) / (pH > 10 for samples preserved with NaAsO ₂ +NaOH, ZnAc+NaOH)	X			HCL
Additional Comments (if any): I confirmed with client via phone conversation to add oil/grass to COC				
8/15/14				

⁽¹⁾ If NO, then contact the client before proceeding with analysis and note date/time and person contacted as well as the corrective action to in the additional comments (above) and the case narrative.

Reviewed by (Project Manager)

8-18-14 1943
 Date/Time Reviewed

Origins Laboratory, Inc.

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Olsson Associates
 4690 Table Mountain Drive
 Golden CO 80403

Nikki Graber
 Project Number: 014-1916
 Project: Stelbar Acquisition

SB7-GW

8/15/2014 10:39:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
 X408137-01 (Water)

Diesel Range Organics (DRO/TEPH) by EPA 8015C

Diesel (C10-C28)	145	5.0	mg/L	1	4H15013	08/15/2014	08/18/2014	
<i>Surrogate: o-Terphenyl</i>	<i>127 %</i>	<i>54-117</i>			"	"	"	<i>S-DUP</i>

Oil & Grease by EPA1664A

Oil & Grease, HEM	510	5.6	mg/L	1	948572	08/18/2014	08/18/2014	
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Origins Laboratory, Inc.



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Olsson Associates
 4690 Table Mountain Drive
 Golden CO 80403

Nikki Graber
 Project Number: 014-1916
 Project: Stelbar Acquisition

Extractable Petroleum Hydrocarbons by 8015M - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 4H15013 - EPA 3511 Mod.										
Blank (4H15013-BLK1)					Prepared: 08/15/2014 Analyzed: 08/15/2014					
Diesel (C10-C28)	ND	5.0	mg/L							
Surrogate: o-Terphenyl	49		mL	50.0		97.1	54-117			
LCS (4H15013-BS1)					Prepared: 08/15/2014 Analyzed: 08/15/2014					
Diesel (C10-C28)	108	5.0	mg/L	100		108	61-120			
Surrogate: o-Terphenyl	47		mL	50.0		94.6	54-117			
LCS Dup (4H15013-BSD1)					Prepared: 08/15/2014 Analyzed: 08/15/2014					
Diesel (C10-C28)	103	5.0	mg/L	100		103	61-120	5.56	20	
Surrogate: o-Terphenyl	45		mL	50.0		90.8	54-117			

Origins Laboratory, Inc.



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Olsson Associates
 4690 Table Mountain Drive
 Golden CO 80403

Nikki Graber
 Project Number: 014-1916
 Project: Stelbar Acquisition

Oil & Grease by EPA1664A - Quality Control
XENCO

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 948572 - NONE										
MS (491216-001 S)		Source: 491216-001 S			Prepared: 08/18/2014 Analyzed: 08/18/2014					
Oil & Grease, HEM	41	5.4	mg/L	44	5	82	78-114		18	
MSD (491216-001 SD)		Source: 491216-001 SD			Prepared: 08/18/2014 Analyzed: 08/18/2014					
Oil & Grease, HEM	41	5.7	mg/L	46	5	78	78-114	0	18	
LCS (948572-1-BKS)		Source: 948572-1-BKS			Prepared: 08/18/2014 Analyzed: 08/18/2014					
Oil & Grease, HEM	38	5	mg/L	40	<1.6	95	78-114		18	
BLANK (948572-1-BLK)		Source: 948572-1-BLK			Prepared: 08/18/2014 Analyzed: 08/18/2014					
Oil & Grease, HEM	ND	5	mg/L	40			-		18	
LCSD (948572-1-BSD)		Source: 948572-1-BSD			Prepared: 08/18/2014 Analyzed: 08/18/2014					
Oil & Grease, HEM	36	5	mg/L	40	<1.6	90	78-114	5	18	

Origins Laboratory, Inc.



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Olsson Associates
4690 Table Mountain Drive
Golden CO 80403

Nikki Graber
Project Number: 014-1916
Project: Stelbar Acquisition

Notes and Definitions

S-DUP Duplicate analysis confirmed surrogate failure due to matrix effects.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported at a wet weight basis.

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Noelle Doyle Mathis, President

September 17, 2014

Olsson Associates

Nikki Graber

4690 Table Mountain Drive

Golden CO 80403

Project Name - Stelbar Acquisition

Project Number - 014-1916

Attached are your analytical results for Stelbar Acquisition received by Origins Laboratory, Inc. September 16, 2014. This project is associated with Origins project number X409154-01.

The analytical results in the following report were analyzed under the guidelines of EPA Methods. These methods are identified as follows; "SW" are defined in SW-846, "EPA" are defined in 40CFR part 136 and "SM" are defined in the most current revision of Standard Methods For the Examination of Water and Wastewater.

The analytical results apply specifically to the samples and analyses specified per the attached Chain of Custody. As such, this report shall not be reproduced except in full, without the written approval of Origin's laboratory.

Unless otherwise noted, the analytical results for all soil samples are reported on a wet weight basis. All analytical analyses were performed under NELAP guidelines unless noted by a data qualifier.

Any holding time exceedances, deviations from the method specifications or deviations from Origins Laboratory's Standard Operating Procedures are outlined in the case narrative.

Thank you for selecting Origins for your analytical needs. Please contact us with any questions concerning this report, or if we can help with anything at all.

Origins Laboratory, Inc.
303.433.1322
o-squad@oelabinc.com



Olsson Associates
4690 Table Mountain Drive
Golden CO 80403

Nikki Graber
Project Number: 014-1916
Project: Stelbar Acquisition

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Offsite #1-17	X409154-01	Soil	September 16, 2014 14:14	09/16/2014 17:30
Offsite #2-17	X409154-02	Soil	September 16, 2014 14:51	09/16/2014 17:30
Offsite #3-24	X409154-03	Soil	September 16, 2014 16:02	09/16/2014 17:30
Offsite #4-25	X409154-04	Soil	September 16, 2014 17:26	09/16/2014 17:30
Offsite #1-GW	X409154-05	Water	September 16, 2014 14:25	09/16/2014 17:30

Nikki Graber Confirmed not to run pH and EC for "Offsite #1-GW" 09/17/2014 via email.

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Olsson Associates
 4690 Table Mountain Drive
 Golden CO 80403

Nikki Graber
 Project Number: 014-1916
 Project: Stelbar Acquisition

www.originslaboratory.com page 1 of 1

X409184

Project Manager/Send Report To: Nikki
 Email Address: ngrab@olssonassociates.com
 Project Name/Number: Stelbar 014-1916
 Samples Collected By: Nikki

Client: Olsson
 Address: 5285 McWhinney Blvd
160 Loveland
 Telephone Number: 928-240-1043

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix			Analysis/Method	Sample Instructions
				Unpreserved	HCl	HNO ₃	Other	Groundwater	Soil	Air Summa #		
Offsite #1-17	9/16/14	1414	1	X				X				1
Offsite #2-17		1451	1	X				X				2
Offsite #3-24		1602	1	X				X				3
Offsite #4-25		1726	1	X				X				4
Offsite #1-GW		1425	2	2				X				5
												6
												7
												8
												9
												10
Relinquished By: <u>[Signature]</u>	Date: 9/16/14	Time: 1730	Received By: <u>[Signature]</u>	Date: 9/16/14	Time: 1730	Turnaround Time: Same Day <input checked="" type="checkbox"/> 24 Hr <input type="checkbox"/> 48 Hr <input type="checkbox"/> 72 Hr <input type="checkbox"/> Standard <input type="checkbox"/>						
Relinquished By: <u>[Signature]</u>	Date: 9/16/14	Time: 1730	Received By: <u>[Signature]</u>	Date: 9/16/14	Time: 1730							

Comments: 3.30
 Date Results Needed: 5pm 9/17

1725 Elk Place | Denver, CO 80211 | Phone: 303.433.1322 | Fax: 303.265.9645

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Olsson Associates
 4690 Table Mountain Drive
 Golden CO 80403

Nikki Graber
 Project Number: 014-1916
 Project: Stelbar Acquisition

Origins Laboratory F-012207-01-R1
Effective Date: 01/09/12

Sample Receipt Checklist

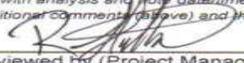
Origins Work Order: X409154 ^{X409154} ^{RA} ^{9/17/14} Client: OLSSON
 Client Project ID: STELBAR

Checklist Completed by: [Signature] Shipped Via: P/U
 Date/time completed: 9/17/14 7:17 (UPS, FedEx, Hand Delivered, Pick-up, etc.)
 Airbill #: N/A

Matrix(s) Received: (Check all that apply): Soil/Solid Water Other: _____
 Cooler Number/Temperature: 13.3 °C / _____ °C / _____ °C (Describe) _____ °C
 Thermometer ID: T002

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Is there ice present (document if blue ice is used)	<input checked="" type="checkbox"/>			
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)		<input checked="" type="checkbox"/>		
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)		<input checked="" type="checkbox"/>		
Were all samples received intact ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Was adequate sample volume provided ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		<u>PH</u>
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.		<input checked="" type="checkbox"/>		
Are samples preserved that require preservation and was it checked ⁽¹⁾ ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity)/(pH <2 for samples preserved with HNO3, HCL, H2SO4) / (pH >10 for samples preserved with NaAsO2+NaOH, ZnAc+NaOH)	<input checked="" type="checkbox"/>			<u>HCL</u>
Additional Comments (if any):				

⁽¹⁾If NO, then contact the client before proceeding with analysis and note date/time and person contacted as well as the corrective action to in the additional comments (above) and the case narrative.


 Reviewed by (Project Manager) 9/17/14 7:16
 Date/Time Reviewed

Origins Laboratory, Inc.



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Olsson Associates
 4690 Table Mountain Drive
 Golden CO 80403

Nikki Graber
 Project Number: 014-1916
 Project: Stelbar Acquisition

Offsite #1-17
9/16/2014 2:14:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X409154-01 (Soil)

Conductance/Specific Conductance by EPA 120.1

Specific Conductance (EC)	0.0183		mmhos/cm	1	4117009	09/17/2014	09/17/2014	
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GRO (TVPH)/DRO (TEPH)by EPA 8015C

Gasoline (C6-C10)	ND	50.0	mg/kg	1	4117008	09/17/2014	09/17/2014	
Diesel (C10-C28)	149	50.0	"	"	"	"	"	

Surrogate: o-Terphenyl	90.9 %	59-131			"	"	"	
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pH in Soil by EPA 9045D

pH	7.98		pH Units	1	4117010	09/17/2014	09/17/2014	
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Origins Laboratory, Inc.



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Olsson Associates
 4690 Table Mountain Drive
 Golden CO 80403

Nikki Graber
 Project Number: 014-1916
 Project: Stelbar Acquisition

Offsite #2-17
9/16/2014 2:51:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X409154-02 (Soil)

Conductance/Specific Conductance by EPA 120.1

Specific Conductance (EC)	0.0257		mmhos/cm	1	4117009	09/17/2014	09/17/2014	
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GRO (TVPH)/DRO (TEPH)by EPA 8015C

Gasoline (C6-C10)	ND	50.0	mg/kg	1	4117008	09/17/2014	09/17/2014	
Diesel (C10-C28)	236	50.0	"	"	"	"	"	

Surrogate: o-Terphenyl	94.3 %	59-131			"	"	"	
------------------------	--------	--------	--	--	---	---	---	--

pH in Soil by EPA 9045D

pH	7.66		pH Units	1	4117010	09/17/2014	09/17/2014	
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Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Olsson Associates
 4690 Table Mountain Drive
 Golden CO 80403

Nikki Graber
 Project Number: 014-1916
 Project: Stelbar Acquisition

Offsite #3-24
9/16/2014 4:02:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X409154-03 (Soil)

Conductance/Specific Conductance by EPA 120.1

Specific Conductance (EC)	0.0268		mmhos/cm	1	4117009	09/17/2014	09/17/2014	
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GRO (TVPH)/DRO (TEPH)by EPA 8015C

Gasoline (C6-C10)	ND	50.0	mg/kg	1	4117008	09/17/2014	09/17/2014	
Diesel (C10-C28)	107	50.0	"	"	"	"	"	

Surrogate: o-Terphenyl	94.7 %	59-131			"	"	"	
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pH in Soil by EPA 9045D

pH	7.89		pH Units	1	4117010	09/17/2014	09/17/2014	
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Origins Laboratory, Inc.



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Olsson Associates
 4690 Table Mountain Drive
 Golden CO 80403

Nikki Graber
 Project Number: 014-1916
 Project: Stelbar Acquisition

Offsite #4-25
9/16/2014 5:26:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X409154-04 (Soil)

Conductance/Specific Conductance by EPA 120.1

Specific Conductance (EC)	0.0314		mmhos/cm	1	4117009	09/17/2014	09/17/2014	
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GRO (TVPH)/DRO (TEPH)by EPA 8015C

Gasoline (C6-C10)	ND	50.0	mg/kg	1	4117008	09/17/2014	09/17/2014	
Diesel (C10-C28)	ND	50.0	"	"	"	"	"	

Surrogate: o-Terphenyl	92.4 %	59-131			"	"	"	
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pH in Soil by EPA 9045D

pH	8.94		pH Units	1	4117010	09/17/2014	09/17/2014	
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Origins Laboratory, Inc.



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Olsson Associates
4690 Table Mountain Drive
Golden CO 80403

Nikki Graber
Project Number: 014-1916
Project: Stelbar Acquisition

Offsite #1-GW
9/16/2014 2:25:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X409154-05 (Water)

BTEX by EPA 8260C

Benzene	ND	1.0	ug/L	1	4117007	09/17/2014	09/17/2014	
Toluene	ND	1.0	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	
Xylenes, total	ND	1.0	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4	106 %	87.3-113			"	"	"	
Surrogate: Toluene-d8	98.6 %	90.9-108			"	"	"	
Surrogate: 4-Bromofluorobenzene	97.0 %	88.6-111			"	"	"	

Origins Laboratory, Inc.



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Olsson Associates
 4690 Table Mountain Drive
 Golden CO 80403

Nikki Graber
 Project Number: 014-1916
 Project: Stelbar Acquisition

Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 4117007 - EPA 5030B (Water)

Blank (4117007-BLK1)

Prepared: 09/17/2014 Analyzed: 09/17/2014

Benzene	ND	1.0	ug/L							
Toluene	ND	1.0	"							
Ethylbenzene	ND	1.0	"							
Xylenes, total	ND	1.0	"							
Surrogate: 1,2-Dichloroethane-d4	68		"	62.5	109		87.3-113			
Surrogate: Toluene-d8	63		"	62.5	101		90.9-108			
Surrogate: 4-Bromofluorobenzene	61		"	62.5	97.3		88.6-111			

Origins Laboratory, Inc.



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Olsson Associates
 4690 Table Mountain Drive
 Golden CO 80403

Nikki Graber
 Project Number: 014-1916
 Project: Stelbar Acquisition

Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 4117007 - EPA 5030B (Water)

LCS (4117007-BS1)

Prepared: 09/17/2014 Analyzed: 09/17/2014

Benzene	45.0	1.0	ug/L	50.0		90.0	75-126			
Toluene	51.4	1.0	"	50.0		103	78.7-126			
Ethylbenzene	52.4	1.0	"	50.0		105	81-130			
m,p-Xylene	103	2.0	"	100		103	77.2-133			
o-Xylene	49.8	1.0	"	50.0		99.5	77.9-126			
Surrogate: 1,2-Dichloroethane-d4	62		"	62.5		99.4	87.3-113			
Surrogate: Toluene-d8	63		"	62.5		100	90.9-108			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		98.5	88.6-111			

Origins Laboratory, Inc.



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Olsson Associates
 4690 Table Mountain Drive
 Golden CO 80403

Nikki Graber
 Project Number: 014-1916
 Project: Stelbar Acquisition

Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 4117007 - EPA 5030B (Water)

Matrix Spike (4117007-MS1)	Source: X409149-01			Prepared: 09/17/2014 Analyzed: 09/17/2014						
Benzene	53.4	1.0	ug/L	50.0	0.4	106	74-130			
Toluene	60.9	1.0	"	50.0	0.6	121	73-131			
Ethylbenzene	61.9	1.0	"	50.0	ND	124	76-132			
m,p-Xylene	125	2.0	"	100	0.9	124	69-139			
o-Xylene	58.8	1.0	"	50.0	0.2	117	74-131			
Surrogate: 1,2-Dichloroethane-d4	60		"	62.5		95.5	87.3-113			
Surrogate: Toluene-d8	62		"	62.5		99.3	90.9-108			
Surrogate: 4-Bromofluorobenzene	61		"	62.5		97.2	88.6-111			

Origins Laboratory, Inc.



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Olsson Associates
 4690 Table Mountain Drive
 Golden CO 80403

Nikki Graber
 Project Number: 014-1916
 Project: Stelbar Acquisition

Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch 4117007 - EPA 5030B (Water)

Matrix Spike Dup (4117007-MSD1)	Source: X409149-01			Prepared: 09/17/2014 Analyzed: 09/17/2014						
Benzene	48.7	1.0	ug/L	50.0	0.4	96.7	74-130	9.25	20	
Toluene	54.2	1.0	"	50.0	0.6	107	73-131	11.7	20	
Ethylbenzene	54.7	1.0	"	50.0	ND	109	76-132	12.5	20	
m,p-Xylene	111	2.0	"	100	0.9	110	69-139	12.0	20	
o-Xylene	53.6	1.0	"	50.0	0.2	107	74-131	9.25	20	
Surrogate: 1,2-Dichloroethane-d4	59		"	62.5		94.3	87.3-113			
Surrogate: Toluene-d8	63		"	62.5		100	90.9-108			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		98.5	88.6-111			

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Olsson Associates
 4690 Table Mountain Drive
 Golden CO 80403

Nikki Graber
 Project Number: 014-1916
 Project: Stelbar Acquisition

Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Extractable Petroleum Hydrocarbons by 8015M - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 4117008 - EPA 3580

Blank (4117008-BLK1)

Prepared: 09/17/2014 Analyzed: 09/17/2014

Gasoline (C6-C10)	ND	50.0	mg/kg							
Diesel (C10-C28)	ND	50.0	"							
Surrogate: o-Terphenyl	49		g	50.0		98.8	59-131			

LCS (4117008-BS1)

Prepared: 09/17/2014 Analyzed: 09/17/2014

Gasoline (C6-C10)	950	50.0	mg/kg	1000		95.0	59-133			
Diesel (C10-C28)	800	50.0	"	1000		80.0	64-121			
Surrogate: o-Terphenyl	47		g	50.0		93.2	59-131			

Matrix Spike (4117008-MS1)

Source: X409154-01

Prepared: 09/17/2014 Analyzed: 09/17/2014

Gasoline (C6-C10)	1010	50.0	mg/kg	1000	ND	101	57-139			
Diesel (C10-C28)	1060	50.0	"	1000	149	91.2	53-125			
Surrogate: o-Terphenyl	48		g	50.0		95.7	59-131			

Matrix Spike Dup (4117008-MSD1)

Source: X409154-01

Prepared: 09/17/2014 Analyzed: 09/17/2014

Gasoline (C6-C10)	985	50.0	mg/kg	1000	ND	98.5	57-139	2.54	20	
Diesel (C10-C28)	1110	50.0	"	1000	149	95.7	53-125	4.19	20	
Surrogate: o-Terphenyl	48		g	50.0		96.0	59-131			

Origins Laboratory, Inc.



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Olsson Associates
 4690 Table Mountain Drive
 Golden CO 80403

Nikki Graber
 Project Number: 014-1916
 Project: Stelbar Acquisition

Classical Chemistry Parameters - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 4117009 - NO PREP										
Blank (4117009-BLK1)					Prepared: 09/17/2014 Analyzed: 09/17/2014					
Specific Conductance (EC)	0.00190		mmhos/cm							
Duplicate (4117009-DUP1)					Source: X409154-02 Prepared: 09/17/2014 Analyzed: 09/17/2014					
Specific Conductance (EC)	0.0229		mmhos/cm		0.0257			11.5	25	
Batch 4117010 - NO PREP										
Duplicate (4117010-DUP1)					Source: X409154-01 Prepared: 09/17/2014 Analyzed: 09/17/2014					
pH	7.94		pH Units		7.98			0.490	25	

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Olsson Associates
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Golden CO 80403

Nikki Graber
Project Number: 014-1916
Project: Stelbar Acquisition

Notes and Definitions

ND Analyte NOT DETECTED at or above the reporting limit
RPD Relative Percent Difference

Origins Laboratory, Inc.



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September 22, 2014

Olsson Associates

Nikki Graber

4690 Table Mountain Drive

Golden CO 80403

Project Name - Stelbar Acquisition

Project Number - 014-1916

Attached are your analytical results for Stelbar Acquisition received by Origins Laboratory, Inc. September 18, 2014. This project is associated with Origins project number x409188-01.

The analytical results in the following report were analyzed under the guidelines of EPA Methods. These methods are identified as follows; "SW" are defined in SW-846, "EPA" are defined in 40CFR part 136 and "SM" are defined in the most current revision of Standard Methods For the Examination of Water and Wastewater.

The analytical results apply specifically to the samples and analyses specified per the attached Chain of Custody. As such, this report shall not be reproduced except in full, without the written approval of Origin's laboratory.

Unless otherwise noted, the analytical results for all soil samples are reported on a wet weight basis. All analytical analyses were performed under NELAP guidelines unless noted by a data qualifier.

Any holding time exceedances, deviations from the method specifications or deviations from Origins Laboratory's Standard Operating Procedures are outlined in the case narrative.

Thank you for selecting Origins for your analytical needs. Please contact us with any questions concerning this report, or if we can help with anything at all.

Origins Laboratory, Inc.
303.433.1322
o-squad@oelabinc.com



Olsson Associates
4690 Table Mountain Drive
Golden CO 80403

Nikki Graber
Project Number: 014-1916
Project: Stelbar Acquisition

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Offsite #1	x409188-01	Water	September 18, 2014 11:43	09/18/2014 16:05
Offsite #4	x409188-02	Water	September 18, 2014 12:08	09/18/2014 16:05
Trip Blank	X409188-03	Water	September 18, 2014 0:00	09/18/2014 16:05

Origins Laboratory, Inc.



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Olsson Associates
 4690 Table Mountain Drive
 Golden CO 80403

Nikki Graber
 Project Number: 014-1916
 Project: Stelbar Acquisition

www.originslaboratory.com

page 1 of 1

ORIGINS

LABORATORY, INC

X409188

Client: OA
 Project Manager/Send Report To: Nikki Graber
 Address: 5785 McKinney
 Email Address: ngrab@olssonassociates.com
 Project Name/Number: Stelbar OILFIELD
 Telephone Number: 928-240-1043
 Samples Collected By: Nikki

1725 File Page | Denver, CO 80211 | Phone: 303.433.1372 | Fax: 303.265.9645

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix			Analysis/Method	Sample Instructions
				Unpreserved	HCl	HNO ₃	Other	Groundwater	Soil	Air/Summ ^a		
Offsite #1	9/18/14	1143	3 Z1									PH, DO, oil grease, Chlorides
Offsite #4	9/18/14	1208	5 B1, 1 B2									STEL PH, Chlorides, DO
-1HP Blank												BTEX
												MAY not be enough volume for
												oil grease run
												1985.
Relinquished By: <i>cel</i>	Date: 9/18/14	Time: 1605		Received By:	Date: 9/18/14	Time: 1605		Received By:	Date: 9/18/14	Time: 1605		Turnaround Time: Same Day <input checked="" type="checkbox"/> 24 Hr <input type="checkbox"/> 48 Hr <input type="checkbox"/> 72 Hr <input type="checkbox"/> Standard <input type="checkbox"/> 19, 3
Relinquished By:	Date:	Time:		Received By:	Date:	Time:		Received By:	Date:	Time:		

Comments: [Redacted] Date Results Needed: 9/19

Origins Laboratory, Inc.

Jefe Pellegrini

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Olsson Associates
 4690 Table Mountain Drive
 Golden CO 80403

Nikki Graber
 Project Number: 014-1916
 Project: Stelbar Acquisition

Origins Laboratory

F-012207-01-R1
 Effective Date: 01/09/12

Sample Receipt Checklist

Origins Work Order: X409188

Client: Olsson Associates

Client Project ID: Stelbar 014-1916

Checklist Completed by: Jeff Smith

Shipped Via: HQD

(UPS, FedEx, Hand Delivered Pick-up, etc.)

Date/time completed: 9-18-14 1618

Airbill #: 324

Matrix(s) Received: (Check all that apply): Soil/Solid Water Other

Cooler Number/Temperature: 1 / 18.3 °C / °C / °C (Describe) °C

Thermometer ID: 7602

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C ⁽¹⁾ ?		<input checked="" type="checkbox"/>		Collected Same Day.
Is there ice present (document if blue ice is used)?	<input checked="" type="checkbox"/>			
Are custody seals present on cooler ⁽²⁾ ? (if so, document in comments if they are signed and dated, broken or intact)		<input checked="" type="checkbox"/>		
Are custody seals present on each sample container ⁽²⁾ ? (if so, document in comments if they are signed and dated, broken or intact)		<input checked="" type="checkbox"/>		
Were all samples received intact ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Was adequate sample volume provided ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?	<input checked="" type="checkbox"/>			PH
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
For vials in water – is there headspace (> 1/2 inch bubble) present? If yes, contact client and note in narrative.		<input checked="" type="checkbox"/>		
Are samples preserved that require preservation and was it checked ⁽¹⁾ ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity/pH < 2 for samples preserved with HNO3, HCL, 1:2SO4) / (pH > 10 for samples preserved with NaAsO2+NaOH, ZnAc+NaOH)	<input checked="" type="checkbox"/>			HCL
Additional Comments (if any): Organics (DRO, BTEX) for Samples 00516 #1, and Trip Blank were received in incorrect sample containers (Poly). Nettle D. confirmed with Nikki G. via phone conversation to transfer samples to correct containers and proceed with analysis. <i>Jeff Smith</i>				

⁽¹⁾If NO, then contact the client before proceeding with analysis and note date/time and person contacted as well as the corrective action to in the additional comments (above) and the case narrative.

Jeff Smith
 Reviewed by (Project Manager)

9/18/14
 Date/Time Reviewed

Origins Laboratory, Inc.

Jeff Pellegrini

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Olsson Associates
 4690 Table Mountain Drive
 Golden CO 80403

Nikki Graber
 Project Number: 014-1916
 Project: Stelbar Acquisition

Offsite #1
9/18/2014 11:43:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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XENCO
x409188-01 (Water)

Anions by EPA 300

Chloride	23	5	mg/L	1	951159	09/19/2014	09/19/2014
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Diesel Range Organics (DRO/TEPH) by EPA 8015C

Diesel (C10-C28)	ND	5.0	mg/L	1	4119007	09/19/2014	09/19/2014
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Surrogate: o-Terphenyl	56.9 %	54-117			"	"	"
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Oil and Grease by EPA 1664A

Oil & Grease, HEM	9.9	4	mg/L	1	951083	09/19/2014	09/19/2014
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pH in Water by EPA 9040C

pH	7.46		pH Units	1	4118017	09/18/2014	09/19/2014
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Olsson Associates
 4690 Table Mountain Drive
 Golden CO 80403

Nikki Graber
 Project Number: 014-1916
 Project: Stelbar Acquisition

Offsite #4
9/18/2014 12:08:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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XENCO
x409188-02 (Water)

Anions by EPA 300

Chloride	32.2	5	mg/L	1	951159	09/19/2014	09/19/2014
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BTEX by EPA 8260C

Benzene	ND	1.0	ug/L	1	4118012	09/18/2014	09/18/2014
Toluene	ND	1.0	"	"	"	"	"
Ethylbenzene	ND	1.0	"	"	"	"	"
Xylenes, total	ND	1.0	"	"	"	"	"

Surrogate: 1,2-Dichloroethane-d4	107 %	87.3-113			"	"	"
Surrogate: Toluene-d8	98.6 %	90.9-108			"	"	"
Surrogate: 4-Bromofluorobenzene	97.8 %	88.6-111			"	"	"

Diesel Range Organics (DRO/TEPH) by EPA 8015C

Diesel (C10-C28)	ND	5.0	mg/L	1	4119007	09/19/2014	09/19/2014
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Surrogate: o-Terphenyl	65.5 %	54-117			"	"	"
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pH in Water by EPA 9040C

pH	7.86		pH Units	1	4118017	09/18/2014	09/19/2014
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Olsson Associates
 4690 Table Mountain Drive
 Golden CO 80403

Nikki Graber
 Project Number: 014-1916
 Project: Stelbar Acquisition

Trip Blank
9/18/2014 12:00:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X409188-03 (Water)

BTEX by EPA 8260C

Benzene	ND	1.0	ug/L	1	4118012	09/18/2014	09/18/2014	
Toluene	ND	1.0	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	
Xylenes, total	ND	1.0	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4	107 %	87.3-113			"	"	"	
Surrogate: Toluene-d8	99.5 %	90.9-108			"	"	"	
Surrogate: 4-Bromofluorobenzene	95.7 %	88.6-111			"	"	"	

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Olsson Associates
 4690 Table Mountain Drive
 Golden CO 80403

Nikki Graber
 Project Number: 014-1916
 Project: Stelbar Acquisition

Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 4118012 - EPA 5030B (Water)

Blank (4118012-BLK1)

Prepared: 09/18/2014 Analyzed: 09/18/2014

Benzene	ND	1.0	ug/L							
Toluene	ND	1.0	"							
Ethylbenzene	ND	1.0	"							
Xylenes, total	ND	1.0	"							
Surrogate: 1,2-Dichloroethane-d4	67		"	62.5	107		87.3-113			
Surrogate: Toluene-d8	62		"	62.5	98.5		90.9-108			
Surrogate: 4-Bromofluorobenzene	61		"	62.5	97.2		88.6-111			

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Olsson Associates
 4690 Table Mountain Drive
 Golden CO 80403

Nikki Graber
 Project Number: 014-1916
 Project: Stelbar Acquisition

Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 4118012 - EPA 5030B (Water)

LCS (4118012-BS1)

Prepared: 09/18/2014 Analyzed: 09/18/2014

Benzene	45.0	1.0	ug/L	50.0		89.9	75-126			
Toluene	49.9	1.0	"	50.0		99.7	78.7-126			
Ethylbenzene	50.8	1.0	"	50.0		102	81-130			
m,p-Xylene	102	2.0	"	100		102	77.2-133			
o-Xylene	50.8	1.0	"	50.0		102	77.9-126			
Surrogate: 1,2-Dichloroethane-d4	63		"	62.5		101	87.3-113			
Surrogate: Toluene-d8	63		"	62.5		100	90.9-108			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		99.2	88.6-111			

Origins Laboratory, Inc.



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 Golden CO 80403

Nikki Graber
 Project Number: 014-1916
 Project: Stelbar Acquisition

Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 4118012 - EPA 5030B (Water)

Matrix Spike (4118012-MS1)	Source: X409166-01			Prepared: 09/18/2014 Analyzed: 09/18/2014						
Benzene	54.7	1.0	ug/L	50.0	ND	109	74-130			
Toluene	58.3	1.0	"	50.0	ND	117	73-131			
Ethylbenzene	61.0	1.0	"	50.0	ND	122	76-132			
m,p-Xylene	114	2.0	"	100	ND	114	69-139			
o-Xylene	55.5	1.0	"	50.0	ND	111	74-131			
Surrogate: 1,2-Dichloroethane-d4	61		"	62.5		97.7	87.3-113			
Surrogate: Toluene-d8	61		"	62.5		97.9	90.9-108			
Surrogate: 4-Bromofluorobenzene	60		"	62.5		96.4	88.6-111			

Origins Laboratory, Inc.



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 Golden CO 80403

Nikki Graber
 Project Number: 014-1916
 Project: Stelbar Acquisition

Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 4118012 - EPA 5030B (Water)

Matrix Spike Dup (4118012-MSD1)	Source: X409166-01			Prepared: 09/18/2014 Analyzed: 09/18/2014						
Benzene	51.6	1.0	ug/L	50.0	ND	103	74-130	5.80	20	
Toluene	58.9	1.0	"	50.0	ND	118	73-131	0.939	20	
Ethylbenzene	59.8	1.0	"	50.0	ND	120	76-132	1.89	20	
m,p-Xylene	117	2.0	"	100	ND	117	69-139	3.16	20	
o-Xylene	57.0	1.0	"	50.0	ND	114	74-131	2.83	20	
Surrogate: 1,2-Dichloroethane-d4	64		"	62.5		102	87.3-113			
Surrogate: Toluene-d8	63		"	62.5		101	90.9-108			
Surrogate: 4-Bromofluorobenzene	60		"	62.5		96.6	88.6-111			

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 4690 Table Mountain Drive
 Golden CO 80403

Nikki Graber
 Project Number: 014-1916
 Project: Stelbar Acquisition

Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Extractable Petroleum Hydrocarbons by 8015M - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 4I19007 - EPA 3511 Mod.

Blank (4I19007-BLK1)										
					Prepared: 09/19/2014 Analyzed: 09/19/2014					
Diesel (C10-C28)	ND	5.0	mg/L							
Surrogate: o-Terphenyl	40		mL	50.0		80.8	54-117			
LCS (4I19007-BS1)										
					Prepared: 09/19/2014 Analyzed: 09/19/2014					
Diesel (C10-C28)	92.3	5.0	mg/L	100		92.3	61-120			
Surrogate: o-Terphenyl	36		mL	50.0		72.9	54-117			
Matrix Spike (4I19007-MS1)										
			Source: X409156-01			Prepared: 09/19/2014 Analyzed: 09/19/2014				
Diesel (C10-C28)	93.2	5.0	mg/L	100	ND	93.2	54-126			
Surrogate: o-Terphenyl	37		mL	50.0		74.1	54-117			
Matrix Spike Dup (4I19007-MSD1)										
			Source: X409156-01			Prepared: 09/19/2014 Analyzed: 09/19/2014				
Diesel (C10-C28)	95.4	5.0	mg/L	100	ND	95.4	54-126	2.36	20	
Surrogate: o-Terphenyl	45		mL	50.0		89.1	54-117			

Origins Laboratory, Inc.



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Olsson Associates
 4690 Table Mountain Drive
 Golden CO 80403

Nikki Graber
 Project Number: 014-1916
 Project: Stelbar Acquisition

Classical Chemistry Parameters - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 4118017 - NO PREP

Duplicate (4118017-DUP1)

Source: X409188-01

Prepared: 09/18/2014 Analyzed: 09/19/2014

pH	7.42		pH Units		7.46			0.511	200	
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Olsson Associates
 4690 Table Mountain Drive
 Golden CO 80403

Nikki Graber
 Project Number: 014-1916
 Project: Stelbar Acquisition

Anions by EPA 300 - Quality Control
XENCO

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 951159 - E300P										
MS (493487-002 S)										
			Source: 493487-002 S			Prepared: 09/19/2014 Analyzed: 09/19/2014				
Chloride	28.4	5	mg/L	20	164	100	80-120		20	
MSD (493487-002 SD)										
			Source: 493487-002 SD			Prepared: 09/19/2014 Analyzed: 09/19/2014				
Chloride	29.6	5	mg/L	20	164	104	80-120	4	20	
LCS (661869-1-BKS)										
			Source: 661869-1-BKS			Prepared: 09/19/2014 Analyzed: 09/19/2014				
Chloride	18.5	5	mg/L	20	<0.104	93	80-120		20	
BLANK (661869-1-BLK)										
			Source: 661869-1-BLK			Prepared: 09/19/2014 Analyzed: 09/19/2014				
Chloride	ND	5	mg/L	20			-		20	
LCSD (661869-1-BSD)										
			Source: 661869-1-BSD			Prepared: 09/19/2014 Analyzed: 09/19/2014				
Chloride	18.4	5	mg/L	20	<0.104	92	80-120	1	20	

Origins Laboratory, Inc.



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Olsson Associates
 4690 Table Mountain Drive
 Golden CO 80403

Nikki Graber
 Project Number: 014-1916
 Project: Stelbar Acquisition

Oil and Grease by EPA 1664A - Quality Control
XENCO

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 951083 - NONE										
MS (493424-002 S)		Source: 493424-002 S			Prepared: 09/19/2014 Analyzed: 09/19/2014					
Oil & Grease, HEM	35	5	mg/L	40	<1.4	88	78-114		18	
LCS (951083-1-BKS)		Source: 951083-1-BKS			Prepared: 09/19/2014 Analyzed: 09/19/2014					
Oil & Grease, HEM	34	5	mg/L	40	<1.4	85	78-114		18	
BLANK (951083-1-BLK)		Source: 951083-1-BLK			Prepared: 09/19/2014 Analyzed: 09/19/2014					
Oil & Grease, HEM	ND	5	mg/L	40			-		18	
LCSD (951083-1-BSD)		Source: 951083-1-BSD			Prepared: 09/19/2014 Analyzed: 09/19/2014					
Oil & Grease, HEM	34	5	mg/L	40	<1.4	85	78-114	0	18	

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Olsson Associates
4690 Table Mountain Drive
Golden CO 80403

Nikki Graber
Project Number: 014-1916
Project: Stelbar Acquisition

Notes and Definitions

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported at a wet weight basis.

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Jen Pellegrini For Noelle Doyle Mathis, President

September 23, 2014

Olsson Associates

Nikki Graber

4690 Table Mountain Drive

Golden CO 80403

Project Name - Stelbar Acquisition

Project Number - 014-1916

Attached are your analytical results for Stelbar Acquisition received by Origins Laboratory, Inc. September 19, 2014. This project is associated with Origins project number X409199-01.

The analytical results in the following report were analyzed under the guidelines of EPA Methods. These methods are identified as follows; "SW" are defined in SW-846, "EPA" are defined in 40CFR part 136 and "SM" are defined in the most current revision of Standard Methods For the Examination of Water and Wastewater.

The analytical results apply specifically to the samples and analyses specified per the attached Chain of Custody. As such, this report shall not be reproduced except in full, without the written approval of Origin's laboratory.

Unless otherwise noted, the analytical results for all soil samples are reported on a wet weight basis. All analytical analyses were performed under NELAP guidelines unless noted by a data qualifier.

Any holding time exceedances, deviations from the method specifications or deviations from Origins Laboratory's Standard Operating Procedures are outlined in the case narrative.

Thank you for selecting Origins for your analytical needs. Please contact us with any questions concerning this report, or if we can help with anything at all.

Origins Laboratory, Inc.
303.433.1322
o-squad@oelabinc.com



Olsson Associates
4690 Table Mountain Drive
Golden CO 80403

Nikki Graber
Project Number: 014-1916
Project: Stelbar Acquisition

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Offsite #4	X409199-01	Water	September 19, 2014 9:09	09/19/2014 13:00

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Noelle Doyle Mathis, President

Olsson Associates
 4690 Table Mountain Drive
 Golden CO 80403

Nikki Graber
 Project Number: 014-1916
 Project: Stelbar Acquisition

Origins Laboratory

F-012207-01-R1
 Effective Date: 01/09/12

Sample Receipt Checklist

Origins Work Order: 2409199

Client: Olsson Associates

Client Project ID: Stelbar

Checklist Completed by: Jon Pellegrini

Shipped Via: H/D
(UPS, FedEx, Hand Delivered, Pick-Up, etc.)

Date/time completed: 9-19-14 1315

Airbill #: N/A

Matrix(s) Received: (Check all that apply): Soil/Solid Water Other: _____

Cooler Number/Temperature: 1 / 19 °C / _____ °C / _____ °C (Describe) _____ °C

Thermometer ID: 7002

Requirement Description	Yes	No	N/A	Comments (if any)
For samples requiring cooling, was the temperature between 0°C to ≤ 6°C ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Is there ice present (document if blue ice is used)?	<input checked="" type="checkbox"/>			
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)		<input checked="" type="checkbox"/>		
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)		<input checked="" type="checkbox"/>		
Were all samples received intact ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Was adequate sample volume provided ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Are short holding time analyses or samples with HTs due within 48 hours present ⁽¹⁾ ?		<input checked="" type="checkbox"/>		
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.			<input checked="" type="checkbox"/>	
Are samples preserved that require preservation and was it checked ⁽¹⁾ ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity) (pH < 2 for samples preserved with HNO ₃ , HCL, H ₂ SO ₄) / (pH > 10 for samples preserved with Na ₂ SO ₂ -NaOH, ZnAc+NaOH)	<input checked="" type="checkbox"/>			HCL
Additional Comments (if any):				

⁽¹⁾If NO, then contact the client before proceeding with analysis and note date/time and person contacted as well as the corrective action to in the additional comments (above) and the case narrative.

[Signature]
 Reviewed by (Project Manager):

7/22/14
 Date/Time Reviewed

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Olsson Associates
4690 Table Mountain Drive
Golden CO 80403

Nikki Graber
Project Number: 014-1916
Project: Stelbar Acquisition

Offsite #4
9/19/2014 9:09:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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XENCO
X409199-01 (Water)

Oil and Grease by EPA 1664A

Oil & Grease, HEM	2	5	mg/L	1	951264	09/22/2014	09/22/2014	J
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Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Noelle Doyle Mathis, President

Olsson Associates
 4690 Table Mountain Drive
 Golden CO 80403

Nikki Graber
 Project Number: 014-1916
 Project: Stelbar Acquisition

**Oil and Grease by EPA 1664A - Quality Control
 XENCO**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 951264 - NONE										
LCS (951264-1-BKS)		Source: 951264-1-BKS			Prepared: 09/22/2014 Analyzed: 09/22/2014					
Oil & Grease, HEM	37	5	mg/L	40	<1.4	93	78-114		18	
BLANK (951264-1-BLK)		Source: 951264-1-BLK			Prepared: 09/22/2014 Analyzed: 09/22/2014					
Oil & Grease, HEM	ND	5	mg/L	40			-		18	
LCSD (951264-1-BSD)		Source: 951264-1-BSD			Prepared: 09/22/2014 Analyzed: 09/22/2014					
Oil & Grease, HEM	36	5	mg/L	40	<1.4	90	78-114	3	18	

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Noelle Doyle Mathis, President

Olsson Associates
4690 Table Mountain Drive
Golden CO 80403

Nikki Graber
Project Number: 014-1916
Project: Stelbar Acquisition

Notes and Definitions

J detected between the MDL and PQL, result is considered estimated.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported at a wet weight basis.

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Noelle Doyle Mathis, President

October 17, 2014

Olsson Associates

Nikki Graber

4690 Table Mountain Drive

Golden CO 80403

Project Name - Stelbar Acquisition

Project Number - 014-1916

Attached are your analytical results for Stelbar Acquisition received by Origins Laboratory, Inc. October 15, 2014. This project is associated with Origins project number X410155-01.

The analytical results in the following report were analyzed under the guidelines of EPA Methods. These methods are identified as follows; "SW" are defined in SW-846, "EPA" are defined in 40CFR part 136 and "SM" are defined in the most current revision of Standard Methods For the Examination of Water and Wastewater.

The analytical results apply specifically to the samples and analyses specified per the attached Chain of Custody. As such, this report shall not be reproduced except in full, without the written approval of Origin's laboratory.

Unless otherwise noted, the analytical results for all soil samples are reported on a wet weight basis. All analytical analyses were performed under NELAP guidelines unless noted by a data qualifier.

Any holding time exceedances, deviations from the method specifications or deviations from Origins Laboratory's Standard Operating Procedures are outlined in the case narrative.

Thank you for selecting Origins for your analytical needs. Please contact us with any questions concerning this report, or if we can help with anything at all.

Origins Laboratory, Inc.
303.433.1322
o-squad@oelabinc.com



Olsson Associates
4690 Table Mountain Drive
Golden CO 80403

Nikki Graber
Project Number: 014-1916
Project: Stelbar Acquisition

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Lesh-1	X410155-01	Water	October 14, 2014 13:03	10/15/2014 17:25
G+H-1	X410155-02	Water	October 14, 2014 14:09	10/15/2014 17:25

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Olsson Associates
 4690 Table Mountain Drive
 Golden CO 80403

Nikki Graber
 Project Number: 014-1916
 Project: Stelbar Acquisition

Origins Laboratory

F-012207-01-R1
 Effective Date: 01/09/12

Sample Receipt Checklist

Origins Work Order: X410155 Client: OLSSON
 Client Project ID: Stelbar 014-1916
 Checklist Completed by: David Mathis Shipped Via: _____
 Date/time completed: 6-15-14 1604 (JPS, FedEx, Hand Delivered, Pick-up, etc.)
 Airbill #: _____
 Matrix(s) Received: (Check all that apply): _____ Soil/Solid Water _____ Other: _____
 Cooler Number/Temperature: 3.51 °C / _____ °C / _____ °C (Describe)
 Thermometer ID: T003

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 5°C ^{1)?}	<input checked="" type="checkbox"/>			
Is there ice present (document if blue ice is used)?	<input checked="" type="checkbox"/>			
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)		<input checked="" type="checkbox"/>		
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)		<input checked="" type="checkbox"/>		
Were all samples received intact ^{1)?}	<input checked="" type="checkbox"/>			
Was adequate sample volume provided ^{1)?}	<input checked="" type="checkbox"/>			
Are short holding time analytes or samples with H's due within 48 hours present ^{1)?}	<input checked="" type="checkbox"/>			pH - Exposed upon Receipt
Is a chain-of-custody (COC) present and filled out completely ^{1)?}	<input checked="" type="checkbox"/>			
Does the COC agree with the number and type of sample bottles received ^{1)?}	<input checked="" type="checkbox"/>			
Do the sample IDs on the bottle labels match the COC ^{1)?}	<input checked="" type="checkbox"/>			
Is the COC properly relinquished by the client with date and time recorded ^{1)?}	<input checked="" type="checkbox"/>			
For volatiles in water -- is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.		<input checked="" type="checkbox"/>		
Are samples preserved that require preservation and was it checked ^{1)?} (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity)/(pH < 2 for samples preserved with HNO ₃ , HCl, H ₂ SO ₄) / (pH > 10 for samples preserved with Na ₂ S ₂ O ₈ +NaOH, ZnAc+NaOH)	<input checked="" type="checkbox"/>			HCL - UOA 0/9
Additional Comments (if any):				

¹⁾If NO, then contact the client before proceeding with analysis and note date/time and person contacted as well as the corrective action to be in the additional comments (above) and the case narrative.

Reviewed by: [Signature] (Project Manager)

10-16-14 1407
 Date/Time Reviewed

Origins Laboratory, Inc.

Jefe Pellegrini

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Olsson Associates
 4690 Table Mountain Drive
 Golden CO 80403

Nikki Graber
 Project Number: 014-1916
 Project: Stelbar Acquisition

Lesh-1
10/14/2014 1:03:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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XENCO
X410155-01 (Water)

Anions by E300.0

Chloride	13.4	5	mg/L	1	953207	10/17/2014	10/17/2014	
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BTEX by EPA 8260C

Benzene	ND	1.0	ug/L	1	4J14008	10/15/2014	10/15/2014	
Toluene	ND	1.0	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	
Xylenes, total	ND	1.0	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4	102 %	87.3-113			"	"	"	
Surrogate: Toluene-d8	98.1 %	90.9-108			"	"	"	
Surrogate: 4-Bromofluorobenzene	98.7 %	88.6-111			"	"	"	

GRO (TVPH)/DRO (TEPH)by EPA 8015C

Gasoline (C6-C10)	ND	5.0	mg/L	1	4J15012	10/15/2014	10/16/2014	
Diesel (C10-C28)	ND	5.0	"	"	"	"	"	

Surrogate: o-Terphenyl	99.1 %	54-117			"	"	"	
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Oil and Grease by EPA 1664A

Oil & Grease, HEM	ND	5	mg/L	1	953233	10/17/2014	10/17/2014	
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pH in Water by EPA 9040C

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Olsson Associates
4690 Table Mountain Drive
Golden CO 80403

Nikki Graber
Project Number: 014-1916
Project: Stelbar Acquisition

Lesh-1
10/14/2014 1:03:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X410155-01 (Water)

pH in Water by EPA 9040C

pH	7.30		pH Units	1	4J15013	10/15/2014	10/15/2014	
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Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Olsson Associates
 4690 Table Mountain Drive
 Golden CO 80403

Nikki Graber
 Project Number: 014-1916
 Project: Stelbar Acquisition

G+H-1

10/14/2014 2:09:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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XENCO

X410155-02 (Water)

Anions by E300.0

Chloride	6.93	5	mg/L	1	953207	10/17/2014	10/17/2014	
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BTEX by EPA 8260C

Benzene	ND	1.0	ug/L	1	4J14008	10/15/2014	10/15/2014	
Toluene	ND	1.0	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	
Xylenes, total	ND	1.0	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4	104 %	87.3-113			"	"	"	
Surrogate: Toluene-d8	98.4 %	90.9-108			"	"	"	
Surrogate: 4-Bromofluorobenzene	101 %	88.6-111			"	"	"	

GRO (TVPH)/DRO (TEPH) by EPA 8015C

Gasoline (C6-C10)	ND	5.0	mg/L	1	4J15012	10/15/2014	10/16/2014	
Diesel (C10-C28)	ND	5.0	"	"	"	"	"	

Surrogate: o-Terphenyl	94.4 %	54-117			"	"	"	
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Oil and Grease by EPA 1664A

Oil & Grease, HEM	ND	5	mg/L	1	953233	10/17/2014	10/17/2014	
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pH in Water by EPA 9040C

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Olsson Associates
4690 Table Mountain Drive
Golden CO 80403

Nikki Graber
Project Number: 014-1916
Project: Stelbar Acquisition

G+H-1
10/14/2014 2:09:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X410155-02 (Water)

pH in Water by EPA 9040C

pH	7.73		pH Units	1	4J15013	10/15/2014	10/15/2014	
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Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Olsson Associates
 4690 Table Mountain Drive
 Golden CO 80403

Nikki Graber
 Project Number: 014-1916
 Project: Stelbar Acquisition

Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 4J14008 - EPA 5030B (Water)

Blank (4J14008-BLK1)

Prepared: 10/14/2014 Analyzed: 10/15/2014

Benzene	ND	1.0	ug/L							
Toluene	ND	1.0	"							
Ethylbenzene	ND	1.0	"							
Xylenes, total	ND	1.0	"							
Surrogate: 1,2-Dichloroethane-d4	65		"	62.5	104		87.3-113			
Surrogate: Toluene-d8	62		"	62.5	99.2		90.9-108			
Surrogate: 4-Bromofluorobenzene	62		"	62.5	99.1		88.6-111			

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Olsson Associates
 4690 Table Mountain Drive
 Golden CO 80403

Nikki Graber
 Project Number: 014-1916
 Project: Stelbar Acquisition

Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 4J14008 - EPA 5030B (Water)

LCS (4J14008-BS1)

Prepared: 10/14/2014 Analyzed: 10/15/2014

Benzene	45.1	1.0	ug/L	50.0		90.2	75-126			
Toluene	45.9	1.0	"	50.0		91.8	78.7-126			
Ethylbenzene	46.0	1.0	"	50.0		92.0	81-130			
m,p-Xylene	93.5	2.0	"	100		93.5	77.2-133			
o-Xylene	46.3	1.0	"	50.0		92.7	77.9-126			
Surrogate: 1,2-Dichloroethane-d4	61		"	62.5		97.2	87.3-113			
Surrogate: Toluene-d8	62		"	62.5		99.5	90.9-108			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		99.4	88.6-111			

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Olsson Associates
 4690 Table Mountain Drive
 Golden CO 80403

Nikki Graber
 Project Number: 014-1916
 Project: Stelbar Acquisition

Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 4J14008 - EPA 5030B (Water)

Matrix Spike (4J14008-MS1)	Source: X410123-01			Prepared: 10/14/2014 Analyzed: 10/15/2014						
Benzene	53.3	1.0	ug/L	50.0	ND	107	74-130			
Toluene	54.7	1.0	"	50.0	ND	109	73-131			
Ethylbenzene	56.7	1.0	"	50.0	ND	113	76-132			
m,p-Xylene	111	2.0	"	100	ND	111	69-139			
o-Xylene	53.0	1.0	"	50.0	ND	106	74-131			
Surrogate: 1,2-Dichloroethane-d4	61		"	62.5		97.0	87.3-113			
Surrogate: Toluene-d8	62		"	62.5		99.7	90.9-108			
Surrogate: 4-Bromofluorobenzene	63		"	62.5		101	88.6-111			

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Olsson Associates
 4690 Table Mountain Drive
 Golden CO 80403

Nikki Graber
 Project Number: 014-1916
 Project: Stelbar Acquisition

Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 4J14008 - EPA 5030B (Water)

Matrix Spike Dup (4J14008-MSD1)	Source: X410123-01			Prepared: 10/14/2014 Analyzed: 10/15/2014						
Benzene	55.8	1.0	ug/L	50.0	ND	112	74-130	4.60	20	
Toluene	56.5	1.0	"	50.0	ND	113	73-131	3.31	20	
Ethylbenzene	57.8	1.0	"	50.0	ND	116	76-132	1.95	20	
m,p-Xylene	116	2.0	"	100	ND	116	69-139	3.60	20	
o-Xylene	55.1	1.0	"	50.0	ND	110	74-131	3.92	20	
Surrogate: 1,2-Dichloroethane-d4	61		"	62.5		97.4	87.3-113			
Surrogate: Toluene-d8	62		"	62.5		98.8	90.9-108			
Surrogate: 4-Bromofluorobenzene	63		"	62.5		101	88.6-111			

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Olsson Associates
 4690 Table Mountain Drive
 Golden CO 80403

Nikki Graber
 Project Number: 014-1916
 Project: Stelbar Acquisition

Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Extractable Petroleum Hydrocarbons by 8015M - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 4J15012 - EPA 3511 Mod.

Blank (4J15012-BLK1)

Prepared: 10/15/2014 Analyzed: 10/16/2014

Gasoline (C6-C10)	ND	5.0	mg/L							
Diesel (C10-C28)	ND	5.0	"							
Surrogate: o-Terphenyl	50		mL	50.0		100	54-117			

LCS (4J15012-BS1)

Prepared: 10/15/2014 Analyzed: 10/16/2014

Gasoline (C6-C10)	87.2	5.0	mg/L	100		87.2	69-125			
Diesel (C10-C28)	89.6	5.0	"	100		89.6	61-120			
Surrogate: o-Terphenyl	25		mL	50.0		50.9	54-117			

Matrix Spike (4J15012-MS1)

Source: X410155-01

Prepared: 10/15/2014 Analyzed: 10/16/2014

Gasoline (C6-C10)	81.9	5.0	mg/L	100	ND	81.9	70-127			
Diesel (C10-C28)	80.4	5.0	"	100	1.5	78.9	54-126			
Surrogate: o-Terphenyl	38		mL	50.0		76.8	54-117			

Matrix Spike Dup (4J15012-MSD1)

Source: X410155-01

Prepared: 10/15/2014 Analyzed: 10/16/2014

Gasoline (C6-C10)	95.2	5.0	mg/L	100	ND	95.2	70-127	15.1	20	
Diesel (C10-C28)	89.3	5.0	"	100	1.5	87.7	54-126	10.5	20	
Surrogate: o-Terphenyl	10		mL	50.0		20.7	54-117			

Origins Laboratory, Inc.



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Olsson Associates
 4690 Table Mountain Drive
 Golden CO 80403

Nikki Graber
 Project Number: 014-1916
 Project: Stelbar Acquisition

Classical Chemistry Parameters - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 4J15013 - NO PREP

Duplicate (4J15013-DUP1)

Source: X410155-01

Prepared: 10/15/2014 Analyzed: 10/15/2014

pH	7.38		pH Units		7.30			1.01	200	
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Origins Laboratory, Inc.



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Olsson Associates
 4690 Table Mountain Drive
 Golden CO 80403

Nikki Graber
 Project Number: 014-1916
 Project: Stelbar Acquisition

Anions by E300.0 - Quality Control
XENCO

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 953207 - E300P										
LCS (663080-1-BKS)		Source: 663080-1-BKS			Prepared: 10/17/2014 Analyzed: 10/17/2014					
Chloride	19.9	5	mg/L	20	<0.104	100	80-120		20	
BLANK (663080-1-BLK)		Source: 663080-1-BLK			Prepared: 10/17/2014 Analyzed: 10/17/2014					
Chloride	ND	5	mg/L	20			-		20	
LCSD (663080-1-BSD)		Source: 663080-1-BSD			Prepared: 10/17/2014 Analyzed: 10/17/2014					
Chloride	20	5	mg/L	20	<0.104	100	80-120	1	20	

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Olsson Associates
 4690 Table Mountain Drive
 Golden CO 80403

Nikki Graber
 Project Number: 014-1916
 Project: Stelbar Acquisition

Oil and Grease by EPA 1664A - Quality Control
XENCO

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 953233 - NONE										
MS (495194-002 S)		Source: 495194-002 S			Prepared: 10/17/2014 Analyzed: 10/17/2014					
Oil & Grease, HEM	35	5	mg/L	40	<1.4	88	78-114		18	
LCS (953233-1-BKS)		Source: 953233-1-BKS			Prepared: 10/17/2014 Analyzed: 10/17/2014					
Oil & Grease, HEM	37	5	mg/L	40	<1.4	93	78-114		18	
BLANK (953233-1-BLK)		Source: 953233-1-BLK			Prepared: 10/17/2014 Analyzed: 10/17/2014					
Oil & Grease, HEM	ND	5	mg/L	40			-		18	
LCSD (953233-1-BSD)		Source: 953233-1-BSD			Prepared: 10/17/2014 Analyzed: 10/17/2014					
Oil & Grease, HEM	36	5	mg/L	40	<1.4	90	78-114	3	18	

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Olsson Associates
4690 Table Mountain Drive
Golden CO 80403

Nikki Graber
Project Number: 014-1916
Project: Stelbar Acquisition

Notes and Definitions

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported at a wet weight basis.

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

October 17, 2014

Olsson Associates

Nikki Graber

4690 Table Mountain Drive

Golden CO 80403

Project Name - Stelbar Acquisition

Project Number - 014-1916

Attached are your analytical results for Stelbar Acquisition received by Origins Laboratory, Inc. October 15, 2014. This project is associated with Origins project number X410156-01.

The analytical results in the following report were analyzed under the guidelines of EPA Methods. These methods are identified as follows; "SW" are defined in SW-846, "EPA" are defined in 40CFR part 136 and "SM" are defined in the most current revision of Standard Methods For the Examination of Water and Wastewater.

The analytical results apply specifically to the samples and analyses specified per the attached Chain of Custody. As such, this report shall not be reproduced except in full, without the written approval of Origin's laboratory.

Unless otherwise noted, the analytical results for all soil samples are reported on a wet weight basis. All analytical analyses were performed under NELAP guidelines unless noted by a data qualifier.

Any holding time exceedances, deviations from the method specifications or deviations from Origins Laboratory's Standard Operating Procedures are outlined in the case narrative.

Thank you for selecting Origins for your analytical needs. Please contact us with any questions concerning this report, or if we can help with anything at all.

Origins Laboratory, Inc.
303.433.1322
o-squad@oelabinc.com



Olsson Associates
4690 Table Mountain Drive
Golden CO 80403

Nikki Graber
Project Number: 014-1916
Project: Stelbar Acquisition

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-1	X410156-01	Water	October 15, 2014 15:12	10/15/2014 17:25
MW-2	X410156-02	Water	October 15, 2014 14:30	10/15/2014 17:25
Greene-1	X410156-03	Water	October 15, 2014 8:46	10/15/2014 17:25

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Jen Pellegrini For Noelle Doyle Mathis, President

Olsson Associates
 4690 Table Mountain Drive
 Golden CO 80403

Nikki Graber
 Project Number: 014-1916
 Project: Stelbar Acquisition

Origins Laboratory

F-012207-01-R1
 Effective Date: 01/09/12

Sample Receipt Checklist

Origins Work Order: X410156 Client: OLSSON
 Client Project ID: Stelbar
 Checklist Completed by: David Mathis Shipped Via: _____
 Date/Time Completed: 10-15-14 1803 (UPS, FedEx, Hand Delivered, Pick-up, etc.)
 Airbill #: _____
 Matrix(s) Received: (Check all that apply): _____ Soil/Solid Water _____ Other: _____ (Describe)
 Cooler Number/Temperature: 5-9 °C / _____ °C / _____ °C / _____ °C
 Thermometer ID: T003

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 8°C ¹⁾ ?	<input checked="" type="checkbox"/>			
Is there ice present (document if blue ice is used)?	<input checked="" type="checkbox"/>			
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)?		<input checked="" type="checkbox"/>		
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)?		<input checked="" type="checkbox"/>		
Were all samples received intact ¹⁾ ?	<input checked="" type="checkbox"/>			
Was adequate sample volume provided ¹⁾ ?	<input checked="" type="checkbox"/>			
Are short holding time analytes or samples with HTs due within 48 hours present ¹⁾ ?	<input checked="" type="checkbox"/>			8 hr
Is a chain-of-custody (COC) present and filled out completely ¹⁾ ?	<input checked="" type="checkbox"/>			
Does the COC agree with the number and type of sample bottles received ¹⁾ ?	<input checked="" type="checkbox"/>			
Do the sample IDs on the bottle labels match the COC ¹⁾ ?	<input checked="" type="checkbox"/>			
Is the COC properly relinquished by the client with date and time recorded ¹⁾ ?	<input checked="" type="checkbox"/>			
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.		<input checked="" type="checkbox"/>		
Are samples preserved that require preservation and was it checked ¹⁾ ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity)(pH <2 for samples preserved with HNO ₃ , HCL, H ₂ SO ₄) / (pH >10 for samples preserved with NaOH/Na ₂ CO ₃ , ZnAc+NaOH)	<input checked="" type="checkbox"/>			HCL-VOA + O/G
Additional Comments (if any):				

¹⁾ If NO, then contact the client before proceeding with analysis and note date/time and person contacted as well as the corrective action to be taken in the additional comments (above) and the case narrative.

Reviewed by: [Signature] (Project Manager) Date/Time Reviewed: 10/15/14 18:03

Origins Laboratory, Inc.

[Signature]

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Olsson Associates
 4690 Table Mountain Drive
 Golden CO 80403

Nikki Graber
 Project Number: 014-1916
 Project: Stelbar Acquisition

MW-1
10/15/2014 3:12:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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XENCO
X410156-01 (Water)

Anions by E300.0

Chloride	41	5	mg/L	1	953207	10/17/2014	10/17/2014	
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BTEX by EPA 8260C

Benzene	ND	1.0	ug/L	1	4J14008	10/15/2014	10/15/2014	
Toluene	ND	1.0	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	
Xylenes, total	ND	1.0	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4	103 %	87.3-113			"	"	"	
Surrogate: Toluene-d8	98.5 %	90.9-108			"	"	"	
Surrogate: 4-Bromofluorobenzene	99.7 %	88.6-111			"	"	"	

GRO (TVPH)/DRO (TEPH) by EPA 8015C

Gasoline (C6-C10)	ND	5.0	mg/L	1	4J15012	10/15/2014	10/16/2014	
Diesel (C10-C28)	ND	5.0	"	"	"	"	"	

Surrogate: o-Terphenyl	94.5 %	54-117			"	"	"	
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Oil and Grease by EPA 1664A

Oil & Grease, HEM	ND	5	mg/L	1	953233	10/17/2014	10/17/2014	
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pH in Water by EPA 9040C

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Olsson Associates
4690 Table Mountain Drive
Golden CO 80403

Nikki Graber
Project Number: 014-1916
Project: Stelbar Acquisition

MW-1

10/15/2014 3:12:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X410156-01 (Water)

pH in Water by EPA 9040C

pH	7.51		pH Units	1	4J15013	10/15/2014	10/15/2014	
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Origins Laboratory, Inc.



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Olsson Associates
 4690 Table Mountain Drive
 Golden CO 80403

Nikki Graber
 Project Number: 014-1916
 Project: Stelbar Acquisition

MW-2
10/15/2014 2:30:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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XENCO
X410156-02 (Water)

Anions by E300.0

Chloride	23.7	5	mg/L	1	953207	10/17/2014	10/17/2014	
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BTEX by EPA 8260C

Benzene	ND	1.0	ug/L	1	4J14008	10/15/2014	10/15/2014	
Toluene	ND	1.0	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	
Xylenes, total	ND	1.0	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4	102 %	87.3-113			"	"	"	
Surrogate: Toluene-d8	99.5 %	90.9-108			"	"	"	
Surrogate: 4-Bromofluorobenzene	100 %	88.6-111			"	"	"	

GRO (TVPH)/DRO (TEPH)by EPA 8015C

Gasoline (C6-C10)	ND	5.0	mg/L	1	4J15012	10/15/2014	10/16/2014	
Diesel (C10-C28)	ND	5.0	"	"	"	"	"	

Surrogate: o-Terphenyl	43.2 %	54-117			"	"	"	S-DUP
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Oil and Grease by EPA 1664A

Oil & Grease, HEM	ND	5	mg/L	1	953233	10/17/2014	10/17/2014	
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pH in Water by EPA 9040C

Origins Laboratory, Inc.



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Olsson Associates
4690 Table Mountain Drive
Golden CO 80403

Nikki Graber
Project Number: 014-1916
Project: Stelbar Acquisition

MW-2
10/15/2014 2:30:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X410156-02 (Water)

pH in Water by EPA 9040C

pH	7.82		pH Units	1	4J15013	10/15/2014	10/16/2014	
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Origins Laboratory, Inc.



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Olsson Associates
 4690 Table Mountain Drive
 Golden CO 80403

Nikki Graber
 Project Number: 014-1916
 Project: Stelbar Acquisition

Greene-1
10/15/2014 8:46:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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XENCO
X410156-03 (Water)

Anions by E300.0

Chloride	30	5	mg/L	1	953207	10/17/2014	10/17/2014	
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BTEX by EPA 8260C

Benzene	ND	1.0	ug/L	1	4J14008	10/15/2014	10/15/2014	
Toluene	ND	1.0	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	
Xylenes, total	ND	1.0	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4	104 %	87.3-113			"	"	"	
Surrogate: Toluene-d8	99.0 %	90.9-108			"	"	"	
Surrogate: 4-Bromofluorobenzene	97.5 %	88.6-111			"	"	"	

GRO (TVPH)/DRO (TEPH)by EPA 8015C

Gasoline (C6-C10)	ND	5.0	mg/L	1	4J15012	10/15/2014	10/16/2014	
Diesel (C10-C28)	ND	5.0	"	"	"	"	"	

Surrogate: o-Terphenyl	52.9 %	54-117			"	"	"	S-DUP
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Oil and Grease by EPA 1664A

Oil & Grease, HEM	ND	5	mg/L	1	953233	10/17/2014	10/17/2014	
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pH in Water by EPA 9040C

Origins Laboratory, Inc.



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Olsson Associates
4690 Table Mountain Drive
Golden CO 80403

Nikki Graber
Project Number: 014-1916
Project: Stelbar Acquisition

Greene-1

10/15/2014 8:46:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X410156-03 (Water)

pH in Water by EPA 9040C

pH	7.57		pH Units	1	4J15013	10/15/2014	10/16/2014	
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Origins Laboratory, Inc.



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Olsson Associates
 4690 Table Mountain Drive
 Golden CO 80403

Nikki Graber
 Project Number: 014-1916
 Project: Stelbar Acquisition

Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 4J14008 - EPA 5030B (Water)

Blank (4J14008-BLK1)

Prepared: 10/14/2014 Analyzed: 10/15/2014

Benzene	ND	1.0	ug/L							
Toluene	ND	1.0	"							
Ethylbenzene	ND	1.0	"							
Xylenes, total	ND	1.0	"							
Surrogate: 1,2-Dichloroethane-d4	65		"	62.5	104		87.3-113			
Surrogate: Toluene-d8	62		"	62.5	99.2		90.9-108			
Surrogate: 4-Bromofluorobenzene	62		"	62.5	99.1		88.6-111			

Origins Laboratory, Inc.



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Olsson Associates
 4690 Table Mountain Drive
 Golden CO 80403

Nikki Graber
 Project Number: 014-1916
 Project: Stelbar Acquisition

Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 4J14008 - EPA 5030B (Water)

LCS (4J14008-BS1)

Prepared: 10/14/2014 Analyzed: 10/15/2014

Benzene	45.1	1.0	ug/L	50.0		90.2	75-126			
Toluene	45.9	1.0	"	50.0		91.8	78.7-126			
Ethylbenzene	46.0	1.0	"	50.0		92.0	81-130			
m,p-Xylene	93.5	2.0	"	100		93.5	77.2-133			
o-Xylene	46.3	1.0	"	50.0		92.7	77.9-126			
Surrogate: 1,2-Dichloroethane-d4	61		"	62.5		97.2	87.3-113			
Surrogate: Toluene-d8	62		"	62.5		99.5	90.9-108			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		99.4	88.6-111			

Origins Laboratory, Inc.



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Olsson Associates
 4690 Table Mountain Drive
 Golden CO 80403

Nikki Graber
 Project Number: 014-1916
 Project: Stelbar Acquisition

Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 4J14008 - EPA 5030B (Water)

Matrix Spike (4J14008-MS1)	Source: X410123-01			Prepared: 10/14/2014 Analyzed: 10/15/2014						
Benzene	53.3	1.0	ug/L	50.0	ND	107	74-130			
Toluene	54.7	1.0	"	50.0	ND	109	73-131			
Ethylbenzene	56.7	1.0	"	50.0	ND	113	76-132			
m,p-Xylene	111	2.0	"	100	ND	111	69-139			
o-Xylene	53.0	1.0	"	50.0	ND	106	74-131			
Surrogate: 1,2-Dichloroethane-d4	61		"	62.5		97.0	87.3-113			
Surrogate: Toluene-d8	62		"	62.5		99.7	90.9-108			
Surrogate: 4-Bromofluorobenzene	63		"	62.5		101	88.6-111			

Origins Laboratory, Inc.



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Olsson Associates
 4690 Table Mountain Drive
 Golden CO 80403

Nikki Graber
 Project Number: 014-1916
 Project: Stelbar Acquisition

Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 4J14008 - EPA 5030B (Water)

Matrix Spike Dup (4J14008-MSD1)	Source: X410123-01			Prepared: 10/14/2014 Analyzed: 10/15/2014						
Benzene	55.8	1.0	ug/L	50.0	ND	112	74-130	4.60	20	
Toluene	56.5	1.0	"	50.0	ND	113	73-131	3.31	20	
Ethylbenzene	57.8	1.0	"	50.0	ND	116	76-132	1.95	20	
m,p-Xylene	116	2.0	"	100	ND	116	69-139	3.60	20	
o-Xylene	55.1	1.0	"	50.0	ND	110	74-131	3.92	20	
Surrogate: 1,2-Dichloroethane-d4	61		"	62.5		97.4	87.3-113			
Surrogate: Toluene-d8	62		"	62.5		98.8	90.9-108			
Surrogate: 4-Bromofluorobenzene	63		"	62.5		101	88.6-111			

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Olsson Associates
 4690 Table Mountain Drive
 Golden CO 80403

Nikki Graber
 Project Number: 014-1916
 Project: Stelbar Acquisition

Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Extractable Petroleum Hydrocarbons by 8015M - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 4J15012 - EPA 3511 Mod.

Blank (4J15012-BLK1)

Prepared: 10/15/2014 Analyzed: 10/16/2014

Gasoline (C6-C10)	ND	5.0	mg/L							
Diesel (C10-C28)	ND	5.0	"							
Surrogate: o-Terphenyl	50		mL	50.0		100	54-117			

LCS (4J15012-BS1)

Prepared: 10/15/2014 Analyzed: 10/16/2014

Gasoline (C6-C10)	87.2	5.0	mg/L	100		87.2	69-125			
Diesel (C10-C28)	89.6	5.0	"	100		89.6	61-120			
Surrogate: o-Terphenyl	25		mL	50.0		50.9	54-117			

Matrix Spike (4J15012-MS1)

Source: X410155-01

Prepared: 10/15/2014 Analyzed: 10/16/2014

Gasoline (C6-C10)	81.9	5.0	mg/L	100	ND	81.9	70-127			
Diesel (C10-C28)	80.4	5.0	"	100	1.5	78.9	54-126			
Surrogate: o-Terphenyl	38		mL	50.0		76.8	54-117			

Matrix Spike Dup (4J15012-MSD1)

Source: X410155-01

Prepared: 10/15/2014 Analyzed: 10/16/2014

Gasoline (C6-C10)	95.2	5.0	mg/L	100	ND	95.2	70-127	15.1	20	
Diesel (C10-C28)	89.3	5.0	"	100	1.5	87.7	54-126	10.5	20	
Surrogate: o-Terphenyl	10		mL	50.0		20.7	54-117			

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Olsson Associates
 4690 Table Mountain Drive
 Golden CO 80403

Nikki Graber
 Project Number: 014-1916
 Project: Stelbar Acquisition

Classical Chemistry Parameters - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 4J15013 - NO PREP

Duplicate (4J15013-DUP1)

Source: X410155-01

Prepared: 10/15/2014 Analyzed: 10/15/2014

pH	7.38		pH Units		7.30			1.01	200	
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Origins Laboratory, Inc.



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Olsson Associates
 4690 Table Mountain Drive
 Golden CO 80403

Nikki Graber
 Project Number: 014-1916
 Project: Stelbar Acquisition

Anions by E300.0 - Quality Control
XENCO

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 953207 - E300P										
LCS (663080-1-BKS)		Source: 663080-1-BKS			Prepared: 10/17/2014 Analyzed: 10/17/2014					
Chloride	19.9	5	mg/L	20	<0.104	100	80-120		20	
BLANK (663080-1-BLK)		Source: 663080-1-BLK			Prepared: 10/17/2014 Analyzed: 10/17/2014					
Chloride	ND	5	mg/L	20			-		20	
LCSD (663080-1-BSD)		Source: 663080-1-BSD			Prepared: 10/17/2014 Analyzed: 10/17/2014					
Chloride	20	5	mg/L	20	<0.104	100	80-120	1	20	

Origins Laboratory, Inc.



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Olsson Associates
 4690 Table Mountain Drive
 Golden CO 80403

Nikki Graber
 Project Number: 014-1916
 Project: Stelbar Acquisition

Oil and Grease by EPA 1664A - Quality Control
XENCO

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 953233 - NONE										
MS (495194-002 S)		Source: 495194-002 S			Prepared: 10/17/2014 Analyzed: 10/17/2014					
Oil & Grease, HEM	35	5	mg/L	40	<1.4	88	78-114		18	
LCS (953233-1-BKS)		Source: 953233-1-BKS			Prepared: 10/17/2014 Analyzed: 10/17/2014					
Oil & Grease, HEM	37	5	mg/L	40	<1.4	93	78-114		18	
BLANK (953233-1-BLK)		Source: 953233-1-BLK			Prepared: 10/17/2014 Analyzed: 10/17/2014					
Oil & Grease, HEM	ND	5	mg/L	40			-		18	
LCSD (953233-1-BSD)		Source: 953233-1-BSD			Prepared: 10/17/2014 Analyzed: 10/17/2014					
Oil & Grease, HEM	36	5	mg/L	40	<1.4	90	78-114	3	18	

Origins Laboratory, Inc.



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Olsson Associates
4690 Table Mountain Drive
Golden CO 80403

Nikki Graber
Project Number: 014-1916
Project: Stelbar Acquisition

Notes and Definitions

S-DUP Duplicate analysis confirmed surrogate failure due to matrix effects.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported at a wet weight basis.

Origins Laboratory, Inc.



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February 09, 2015

Olsson Associates

Nikki Graber

4690 Table Mountain Drive

Golden CO 80403

Project Name - Stelbar Risk Assessment

Project Number - 015-0272-101

Attached are your analytical results for Stelbar Risk Assessment received by Origins Laboratory, Inc. February 03, 2015. This project is associated with Origins project number X502028-01.

The analytical results in the following report were analyzed under the guidelines of EPA Methods. These methods are identified as follows; "SW" are defined in SW-846, "EPA" are defined in 40CFR part 136 and "SM" are defined in the most current revision of Standard Methods For the Examination of Water and Wastewater.

The analytical results apply specifically to the samples and analyses specified per the attached Chain of Custody. As such, this report shall not be reproduced except in full, without the written approval of Origin's laboratory.

Unless otherwise noted, the analytical results for all soil samples are reported on a wet weight basis. All analytical analyses were performed under NELAP guidelines unless noted by a data qualifier.

Any holding time exceedances, deviations from the method specifications or deviations from Origins Laboratory's Standard Operating Procedures are outlined in the case narrative.

Thank you for selecting Origins for your analytical needs. Please contact us with any questions concerning this report, or if we can help with anything at all.

Origins Laboratory, Inc.
303.433.1322
o-squad@oelabinc.com



Olsson Associates
4690 Table Mountain Drive
Golden CO 80403

Nikki Graber
Project Number: 015-0272-101
Project: Stelbar Risk Assessment

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Stelbar-1	X502028-01	Water	February 3, 2015 11:12	02/03/2015 14:34

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Jen Pellegrini For Noelle Doyle Mathis, President

Olsson Associates
 4690 Table Mountain Drive
 Golden CO 80403

Nikki Graber
 Project Number: 015-0272-101
 Project: Stelbar Risk Assessment

Origins Laboratory

F-012207-01-R1
 Effective Date: 01/09/12

Sample Receipt Checklist

Origins Work Order: X502028 Client: Olsson Associates
 Client Project ID: Stelbar Risk Assessment
 Checklist Completed by: Jeff Smith Shipped Via: HD
 (UPS, FedEx, Hand Delivered, Pick-up, etc.)
 Date/time completed: 2/3/15 Airbill #: NA
 Matrix(s) Received: (Check all that apply): Soil/Solid Water Other: _____
 Cooler Number/Temperature: 1 / 7.6 °C _____ / _____ °C _____ / _____ °C (Describe)
 Thermometer ID: T003

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C ⁽¹⁾ ?		X		Sampled Some Dry
Is there ice present (document if blue ice is used)	X			
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)		X		
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)		X		
Were all samples received intact ⁽¹⁾ ?	X			
Was adequate sample volume provided ⁽¹⁾ ?	X			
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?	X			Anions
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	X			
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	X			
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	X			
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	X			
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.		X		
Are samples preserved that require preservation and was it checked ⁽¹⁾ ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity)/(pH <2 for samples preserved with HNO3, HCL, H2SO4) / (pH >10 for samples preserved with NaAsO2+NaOH, ZnAc+NaOH)	X			HCL, H2SO4
Additional Comments (if any):				

⁽¹⁾If NO, then contact the client before proceeding with analysis and note date/time and person contacted as well as the corrective action to in the additional comments (above) and the case narrative.

Reviewed by: [Signature] (Project Manager) Date/Time Reviewed: 02-05-15

Origins Laboratory, Inc.

Jefe Pellegrini

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Olsson Associates
 4690 Table Mountain Drive
 Golden CO 80403

Nikki Graber
 Project Number: 015-0272-101
 Project: Stelbar Risk Assessment

Stelbar-1
2/3/2015 11:12:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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GEL Laboratories, LLC
X502028-01 (Water)

Alkalinity by EPA310.1/SM2320B

Alkalinity, Total as CaCO ₃	182	1.00	mg/L	1	1455639		02/06/2015	
Bicarbonate alkalinity (CaCO ₃)	182	1.00	"	"	"	"	"	
Carbonate alkalinity (CaCO ₃)	ND	1.00	"	"	"	"	"	U

Anions by EPA 300.0

Bromide	0.268	0.200	mg/L	1	1455307	"	02/04/2015	
Chloride	23.2	1.00	"	5	"	"	02/05/2015	
Fluoride	0.345	0.100	"	1	"	"	02/04/2015	
Nitrate	11.9	0.500	"	5	"	"	02/05/2015	
Nitrite	ND	0.100	"	1	"	"	02/04/2015	U
Ortho-phosphate	ND	0.200	"	"	"	"	"	U
Sulfate	173	8.00	"	20	"	"	02/06/2015	

Dissolved Metals by 200.2/200.7

Boron-Dissolved	109	50.0	ug/L	1	1455509	02/05/2015	02/05/2015	
Calcium-Dissolved	101000	200	"	"	"	"	"	
Iron-Dissolved	ND	100	"	"	"	"	"	U
Magnesium-Dissolved	22600	300	"	"	"	"	"	
Manganese-Dissolved	11.9	10.0	"	"	"	"	"	
Potassium-Dissolved	4670	150	"	"	"	"	"	
Sodium-Dissolved	36300	300	"	"	"	"	"	

Origins Laboratory, Inc.



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Olsson Associates
 4690 Table Mountain Drive
 Golden CO 80403

Nikki Graber
 Project Number: 015-0272-101
 Project: Stelbar Risk Assessment

Stelbar-1
2/3/2015 11:12:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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GEL Laboratories, LLC
X502028-01 (Water)

Dissolved Metals by 200.2/200.7

Strontium-Dissolved	856	5.00	ug/L	1	1455509	02/05/2015	02/05/2015
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Dissolved Metals by 200.2/200.8

Barium-Dissolved	107	2.00	ug/L	1	1455507	"	02/05/2015
Selenium-Dissolved	13.6	5.00	"	"	"	"	"

GRO (TVPH)/DRO (TEPH)by EPA 8015C

Gasoline (C6-C10)	ND	5.0	mg/L	1	5B04013	02/04/2015	02/05/2015
Diesel (C10-C28)	ND	5.0	"	"	"	"	"

Surrogate: o-Terphenyl	88.3 %	54-117			"	"	"
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Nitrate/Nitrite by EPA 353.2

Nitrogen, Nitrate/Nitrite	14.0	0.500	mg/L	25	1455300		02/05/2015
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pH in Water by EPA 9040C

pH	7.65		pH Units	1	5B04011	02/04/2015	02/04/2015
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	850	1.00	uS/cm	"	5B04012	02/04/2015	02/04/2015
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Origins Laboratory, Inc.



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Olsson Associates
 4690 Table Mountain Drive
 Golden CO 80403

Nikki Graber
 Project Number: 015-0272-101
 Project: Stelbar Risk Assessment

Stelbar-1
2/3/2015 11:12:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X502028-01 (Water)

SVOC by 8270D

1,2,4-Trichlorobenzene	ND	9.26	ug/L	1	1455703	02/06/2015	02/06/2015	U
1,2-Dichlorobenzene	ND	9.26	"	"	"	"	"	U
1,2-Diphenylhydrazine	ND	9.26	"	"	"	"	"	U
1,3-Dichlorobenzene	ND	9.26	"	"	"	"	"	U
1,4-Dichlorobenzene	ND	9.26	"	"	"	"	"	U
1,4-Dioxane	ND	9.26	"	"	"	"	"	U
1-Methylnaphthalene	ND	0.926	"	"	"	"	"	U
2,4,6-Trichlorophenol	ND	9.26	"	"	"	"	"	U
2,4-Dichlorophenol	ND	9.26	"	"	"	"	"	U
2,4-Dimethylphenol	ND	9.26	"	"	"	"	"	U
2,4-Dinitrophenol	ND	18.5	"	"	"	"	"	U
2,4-Dinitrotoluene	ND	9.26	"	"	"	"	"	U
2,6-Dinitrotoluene	ND	9.26	"	"	"	"	"	U
2-Chloronaphthalene	ND	0.926	"	"	"	"	"	U
2-Chlorophenol	ND	9.26	"	"	"	"	"	U
2-Methylnaphthalene	ND	0.926	"	"	"	"	"	U
2-Nitrophenol	ND	9.26	"	"	"	"	"	U
3,3'-Dichlorobenzidine	ND	9.26	"	"	"	"	"	U
4-Bromophenylphenylether	ND	9.26	"	"	"	"	"	U

Origins Laboratory, Inc.



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Olsson Associates
 4690 Table Mountain Drive
 Golden CO 80403

Nikki Graber
 Project Number: 015-0272-101
 Project: Stelbar Risk Assessment

Stelbar-1
2/3/2015 11:12:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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GEL Laboratories, LLC
X502028-01 (Water)

SVOC by 8270D

4-Chlorophenylphenylether	ND	9.26	ug/L	1	1455703	02/06/2015	02/06/2015	U
4-Nitrophenol	ND	9.26	"	"	"	"	"	U
Acenaphthene	ND	0.926	"	"	"	"	"	U
Acenaphthylene	ND	0.926	"	"	"	"	"	U
Anthracene	ND	0.926	"	"	"	"	"	U
Benzidine	ND	9.26	"	"	"	"	"	U
Benzo(a)anthracene	ND	0.926	"	"	"	"	"	U
Benzo(a)pyrene	ND	0.926	"	"	"	"	"	U
Benzo(b)fluoranthene	ND	0.926	"	"	"	"	"	U
Benzo(ghi)perylene	ND	0.926	"	"	"	"	"	U
Benzo(k)fluoranthene	ND	0.926	"	"	"	"	"	U
bis(2-Chloro-1-methylethyl)ether	ND	9.26	"	"	"	"	"	U
bis(2-Chloroethoxy)methane	ND	9.26	"	"	"	"	"	U
bis(2-Chloroethyl) ether	ND	9.26	"	"	"	"	"	U
bis(2-Ethylhexyl)phthalate	ND	9.26	"	"	"	"	"	U
Butylbenzylphthalate	ND	9.26	"	"	"	"	"	U
Chrysene	ND	0.926	"	"	"	"	"	U
Dibenzo(a,h)anthracene	ND	0.926	"	"	"	"	"	U
Diethylphthalate	ND	9.26	"	"	"	"	"	U

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 Golden CO 80403

Nikki Graber
 Project Number: 015-0272-101
 Project: Stelbar Risk Assessment

Stelbar-1
2/3/2015 11:12:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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GEL Laboratories, LLC
X502028-01 (Water)

SVOC by 8270D

Dimethylphthalate	ND	9.26	ug/L	1	1455703	02/06/2015	02/06/2015	U
Di-n-butylphthalate	ND	9.26	"	"	"	"	"	U
Di-n-octylphthalate	ND	9.26	"	"	"	"	"	U
Diphenylamine	ND	9.26	"	"	"	"	"	U
Fluoranthene	ND	0.926	"	"	"	"	"	U
Fluorene	ND	0.926	"	"	"	"	"	U
Hexachlorobenzene	ND	9.26	"	"	"	"	"	U
Hexachlorobutadiene	ND	9.26	"	"	"	"	"	U
Hexachlorocyclopentadiene	ND	9.26	"	"	"	"	"	U
Hexachloroethane	ND	9.26	"	"	"	"	"	U
Indeno(1,2,3-cd)pyrene	ND	0.926	"	"	"	"	"	U
Isophorone	ND	9.26	"	"	"	"	"	U
Naphthalene	ND	0.926	"	"	"	"	"	U
Nitrobenzene	ND	9.26	"	"	"	"	"	U
N-Methyl-N-nitrosomethylamine	ND	9.26	"	"	"	"	"	U
N-Nitrosodipropylamine	ND	9.26	"	"	"	"	"	U
Pentachlorophenol	ND	9.26	"	"	"	"	"	U
Phenanthrene	ND	0.926	"	"	"	"	"	U
Phenol	ND	9.26	"	"	"	"	"	U

Origins Laboratory, Inc.



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 4690 Table Mountain Drive
 Golden CO 80403

Nikki Graber
 Project Number: 015-0272-101
 Project: Stelbar Risk Assessment

Stelbar-1
2/3/2015 11:12:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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GEL Laboratories, LLC
X502028-01 (Water)

SVOC by 8270D

Pyrene	ND	0.926	ug/L	1	1455703	02/06/2015	02/06/2015	U
<i>Surrogate: 2,4,6-Tribromophenol</i>	77 %	33-126			"	"	"	
<i>Surrogate: 2-Fluorobiphenyl</i>	63 %	35-102			"	"	"	
<i>Surrogate: 2-Fluorophenol</i>	30 %	18-84			"	"	"	
<i>Surrogate: Nitrobenzene-d5</i>	63 %	38-113			"	"	"	
<i>Surrogate: Phenol-d5</i>	19 %	10-110			"	"	"	
<i>Surrogate: p-Terphenyl-d14</i>	64 %	38-123			"	"	"	

TDS by SM2540C

Total Dissolved Solids	499	14.3	mg/L	1	1455424		02/05/2015	
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Total Phosphorous by EPA 365.4

Phosphorus, Total as P	ND	0.050	mg/L	1	1455285	02/05/2015	02/06/2015	U
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VOC by EPA 8260C

1,1,1,2-Tetrachloroethane	ND	0.0020	mg/L	1	5B06007	02/06/2015	02/06/2015	
1,1,1-Trichloroethane	ND	0.0020	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.0020	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.0020	"	"	"	"	"	
1,1-Dichloroethane	ND	0.0020	"	"	"	"	"	
1,1-Dichloroethene	ND	0.0020	"	"	"	"	"	

Origins Laboratory, Inc.



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 Golden CO 80403

Nikki Graber
 Project Number: 015-0272-101
 Project: Stelbar Risk Assessment

Stelbar-1
2/3/2015 11:12:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X502028-01 (Water)

VOC by EPA 8260C

1,1-Dichloropropene	ND	0.0020	mg/L	1	5B06007	02/06/2015	02/06/2015	
1,2,3-Trichlorobenzene	ND	0.010	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.010	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.010	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0020	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	0.010	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.0020	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.0020	"	"	"	"	"	
1,2-Dichloroethane	ND	0.0020	"	"	"	"	"	
1,2-Dichloropropane	ND	0.0020	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0020	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.0020	"	"	"	"	"	
1,3-Dichloropropane	ND	0.0020	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.0020	"	"	"	"	"	
2,2-Dichloropropane	ND	0.0020	"	"	"	"	"	
2-Butanone	ND	0.010	"	"	"	"	"	
2-Chlorotoluene	ND	0.0020	"	"	"	"	"	
2-Hexanone	ND	0.010	"	"	"	"	"	
4-Chlorotoluene	ND	0.0020	"	"	"	"	"	

Origins Laboratory, Inc.



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Olsson Associates
 4690 Table Mountain Drive
 Golden CO 80403

Nikki Graber
 Project Number: 015-0272-101
 Project: Stelbar Risk Assessment

Stelbar-1
2/3/2015 11:12:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X502028-01 (Water)

VOC by EPA 8260C

4-Isopropyltoluene	ND	0.0020	mg/L	1	5B06007	02/06/2015	02/06/2015	
4-Methyl-2-pentanone	ND	0.010	"	"	"	"	"	
Acetone	ND	0.016	"	"	"	"	"	
Benzene	ND	0.0020	"	"	"	"	"	
Bromobenzene	ND	0.0020	"	"	"	"	"	
Bromochloromethane	ND	0.0020	"	"	"	"	"	
Bromodichloromethane	ND	0.0020	"	"	"	"	"	
Bromoform	ND	0.0020	"	"	"	"	"	
Bromomethane	ND	0.0020	"	"	"	"	"	
Carbon disulfide	ND	0.010	"	"	"	"	"	
Carbon tetrachloride	ND	0.0020	"	"	"	"	"	
Chlorobenzene	ND	0.0020	"	"	"	"	"	
Chloroethane	ND	0.0020	"	"	"	"	"	
Chloroform	ND	0.0020	"	"	"	"	"	
Chloromethane	ND	0.0020	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.0020	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.0020	"	"	"	"	"	
Dibromochloromethane	ND	0.0020	"	"	"	"	"	
Dibromomethane	ND	0.0020	"	"	"	"	"	

Origins Laboratory, Inc.



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Olsson Associates
 4690 Table Mountain Drive
 Golden CO 80403

Nikki Graber
 Project Number: 015-0272-101
 Project: Stelbar Risk Assessment

Stelbar-1
2/3/2015 11:12:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X502028-01 (Water)

VOC by EPA 8260C

Ethylbenzene	ND	0.0020	mg/L	1	5B06007	02/06/2015	02/06/2015	
Hexachlorobutadiene	ND	0.010	"	"	"	"	"	
Iodomethane	ND	0.020	"	"	"	"	"	
Isopropylbenzene	ND	0.0020	"	"	"	"	"	
m,p-Xylene	ND	0.0040	"	"	"	"	"	
Methylene Chloride	ND	0.010	"	"	"	"	"	
Methyl tert-Butyl Ether	ND	0.0020	"	"	"	"	"	
Naphthalene	ND	0.0080	"	"	"	"	"	
n-Butylbenzene	ND	0.0020	"	"	"	"	"	
n-Propylbenzene	ND	0.0020	"	"	"	"	"	
o-Xylene	ND	0.0020	"	"	"	"	"	
sec-Butylbenzene	ND	0.0020	"	"	"	"	"	
Styrene	ND	0.0020	"	"	"	"	"	
tert-Butylbenzene	ND	0.0020	"	"	"	"	"	
Tetrachloroethene	ND	0.0020	"	"	"	"	"	
Toluene	ND	0.0020	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.0020	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.0020	"	"	"	"	"	
Trichloroethene	ND	0.0020	"	"	"	"	"	

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Olsson Associates
4690 Table Mountain Drive
Golden CO 80403

Nikki Graber
Project Number: 015-0272-101
Project: Stelbar Risk Assessment

Stelbar-1
2/3/2015 11:12:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X502028-01 (Water)

VOC by EPA 8260C

Trichlorofluoromethane	ND	0.0020	mg/L	1	5B06007	02/06/2015	02/06/2015	
Vinyl chloride	ND	0.0020	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4	122 %	84-121			"	"	"	QM-02
Surrogate: Toluene-d8	102 %	85-115			"	"	"	
Surrogate: 4-Bromofluorobenzene	102 %	84-114			"	"	"	

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 4690 Table Mountain Drive
 Golden CO 80403

Nikki Graber
 Project Number: 015-0272-101
 Project: Stelbar Risk Assessment

Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 5B06007 - EPA 5030B (Water)

Blank (5B06007-BLK1)

Prepared: 02/06/2015 Analyzed: 02/06/2015

1,1,1,2-Tetrachloroethane	ND	0.0020	mg/L							
1,1,1-Trichloroethane	ND	0.0020	"							
1,1,2,2-Tetrachloroethane	ND	0.0020	"							
1,1,2-Trichloroethane	ND	0.0020	"							
1,1-Dichloroethane	ND	0.0020	"							
1,1-Dichloroethene	ND	0.0020	"							
1,1-Dichloropropene	ND	0.0020	"							
1,2,3-Trichlorobenzene	ND	0.010	"							
1,2,3-Trichloropropane	ND	0.010	"							
1,2,4-Trichlorobenzene	ND	0.010	"							
1,2,4-Trimethylbenzene	ND	0.0020	"							
1,2-Dibromo-3-chloropropane	ND	0.010	"							
1,2-Dibromoethane (EDB)	ND	0.0020	"							
1,2-Dichlorobenzene	ND	0.0020	"							
1,2-Dichloroethane	ND	0.0020	"							
1,2-Dichloropropane	ND	0.0020	"							
1,3,5-Trimethylbenzene	ND	0.0020	"							
1,3-Dichlorobenzene	ND	0.0020	"							
1,3-Dichloropropane	ND	0.0020	"							
1,4-Dichlorobenzene	ND	0.0020	"							
2,2-Dichloropropane	ND	0.0020	"							
2-Butanone	ND	0.010	"							
2-Chlorotoluene	ND	0.0020	"							
2-Hexanone	ND	0.010	"							
4-Chlorotoluene	ND	0.0020	"							
4-Isopropyltoluene	ND	0.0020	"							

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 Golden CO 80403

Nikki Graber
 Project Number: 015-0272-101
 Project: Stelbar Risk Assessment

Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 5B06007 - EPA 5030B (Water)

Blank (5B06007-BLK1)

Prepared: 02/06/2015 Analyzed: 02/06/2015

4-Methyl-2-pentanone	ND	0.010	mg/L							
Acetone	ND	0.016	"							
Benzene	ND	0.0020	"							
Bromobenzene	ND	0.0020	"							
Bromochloromethane	ND	0.0020	"							
Bromodichloromethane	ND	0.0020	"							
Bromoform	ND	0.0020	"							
Bromomethane	ND	0.0020	"							
Carbon disulfide	ND	0.010	"							
Carbon tetrachloride	ND	0.0020	"							
Chlorobenzene	ND	0.0020	"							
Chloroethane	ND	0.0020	"							
Chloroform	ND	0.0020	"							
Chloromethane	ND	0.0020	"							
cis-1,2-Dichloroethene	ND	0.0020	"							
cis-1,3-Dichloropropene	ND	0.0020	"							
Dibromochloromethane	ND	0.0020	"							
Dibromomethane	ND	0.0020	"							
Ethylbenzene	ND	0.0020	"							
Hexachlorobutadiene	ND	0.010	"							
Iodomethane	ND	0.020	"							
Isopropylbenzene	ND	0.0020	"							
m,p-Xylene	ND	0.0040	"							
Methylene Chloride	ND	0.010	"							
Methyl tert-Butyl Ether	ND	0.0020	"							
Naphthalene	ND	0.0080	"							

Origins Laboratory, Inc.



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 Golden CO 80403

Nikki Graber
 Project Number: 015-0272-101
 Project: Stelbar Risk Assessment

Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 5B06007 - EPA 5030B (Water)

Blank (5B06007-BLK1)

Prepared: 02/06/2015 Analyzed: 02/06/2015

n-Butylbenzene	ND	0.0020	mg/L							
n-Propylbenzene	ND	0.0020	"							
o-Xylene	ND	0.0020	"							
sec-Butylbenzene	ND	0.0020	"							
Styrene	ND	0.0020	"							
tert-Butylbenzene	ND	0.0020	"							
Tetrachloroethene	ND	0.0020	"							
Toluene	ND	0.0020	"							
trans-1,2-Dichloroethene	ND	0.0020	"							
trans-1,3-Dichloropropene	ND	0.0020	"							
Trichloroethene	ND	0.0020	"							
Trichlorofluoromethane	ND	0.0020	"							
Vinyl chloride	ND	0.0020	"							
Surrogate: 1,2-Dichloroethane-d4	83		ug/L	62.5	133		84-121			S-07
Surrogate: Toluene-d8	61		"	62.5	98.1		85-115			
Surrogate: 4-Bromofluorobenzene	61		"	62.5	96.9		84-114			

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Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 5B06007 - EPA 5030B (Water)

LCS (5B06007-BS1)

Prepared: 02/06/2015 Analyzed: 02/06/2015

1,1,1,2-Tetrachloroethane	0.11	0.0020	mg/L	0.100		111	78.8-128			
1,1,1-Trichloroethane	0.11	0.0020	"	0.100		112	82.3-118			
1,1,2,2-Tetrachloroethane	0.089	0.0020	"	0.100		88.7	67.9-119			
1,1,2-Trichloroethane	0.10	0.0020	"	0.100		105	75.4-116			
1,1-Dichloroethane	0.097	0.0020	"	0.100		97.2	81.1-113			
1,1-Dichloroethene	0.10	0.0020	"	0.100		102	79.4-118			
1,1-Dichloropropene	0.10	0.0020	"	0.100		99.9	78-120			
1,2,3-Trichlorobenzene	0.11	0.010	"	0.100		114	63.8-134			
1,2,3-Trichloropropane	0.092	0.010	"	0.100		91.8	63.3-121			
1,2,4-Trichlorobenzene	0.11	0.010	"	0.100		112	70.4-125			
1,2,4-Trimethylbenzene	0.093	0.0020	"	0.100		93.4	73.3-123			
1,2-Dibromo-3-chloropropane	0.10	0.010	"	0.100		99.6	71.6-114			
1,2-Dibromoethane (EDB)	0.11	0.0020	"	0.100		107	74.7-127			
1,2-Dichlorobenzene	0.098	0.0020	"	0.100		97.7	81.3-116			
1,2-Dichloroethane	0.12	0.0020	"	0.100		117	71.1-120			
1,2-Dichloropropane	0.089	0.0020	"	0.100		89.5	77.4-115			
1,3,5-Trimethylbenzene	0.090	0.0020	"	0.100		89.7	71.9-128			
1,3-Dichlorobenzene	0.092	0.0020	"	0.100		92.5	82.1-117			
1,3-Dichloropropane	0.10	0.0020	"	0.100		100	75.1-123			
1,4-Dichlorobenzene	0.096	0.0020	"	0.100		95.7	76.8-119			
2,2-Dichloropropane	0.11	0.0020	"	0.100		110	84-120			
2-Butanone	0.54	0.010	"	0.500		107	64.9-123			
2-Chlorotoluene	0.086	0.0020	"	0.100		85.7	66-133			
2-Hexanone	0.48	0.010	"	0.500		95.2	70.9-116			
4-Chlorotoluene	0.091	0.0020	"	0.100		91.1	73.2-119			
4-Isopropyltoluene	0.088	0.0020	"	0.100		87.8	79.8-120			

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 Golden CO 80403

Nikki Graber
 Project Number: 015-0272-101
 Project: Stelbar Risk Assessment

Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 5B06007 - EPA 5030B (Water)

LCS (5B06007-BS1)

Prepared: 02/06/2015 Analyzed: 02/06/2015

4-Methyl-2-pentanone	0.48	0.010	mg/L	0.500		96.2	58.5-122			
Acetone	0.50	0.016	"	0.500		99.9	65.4-125			
Benzene	0.096	0.0020	"	0.100		95.7	75.5-116			
Bromobenzene	0.087	0.0020	"	0.100		87.1	70-130			
Bromochloromethane	0.11	0.0020	"	0.100		115	79-115			
Bromodichloromethane	0.11	0.0020	"	0.100		110	73-123			
Bromoform	0.13	0.0020	"	0.100		130	75-128			QM-11
Bromomethane	0.14	0.0020	"	0.100		143	72-138			QM-11
Carbon disulfide	0.47	0.010	"	0.500		93.2	69-129			
Carbon tetrachloride	0.12	0.0020	"	0.100		117	80-124			
Chlorobenzene	0.10	0.0020	"	0.100		102	78-121			
Chloroethane	0.11	0.0020	"	0.100		114	77-138			
Chloroform	0.11	0.0020	"	0.100		113	75-117			
Chloromethane	0.088	0.0020	"	0.100		88.5	72-130			
cis-1,2-Dichloroethene	0.098	0.0020	"	0.100		98.3	78-118			
cis-1,3-Dichloropropene	0.10	0.0020	"	0.100		104	73-122			
Dibromochloromethane	0.12	0.0020	"	0.100		125	78-119			QM-11
Dibromomethane	0.11	0.0020	"	0.100		108	79-116			
Ethylbenzene	0.095	0.0020	"	0.100		95.4	78-130			
Hexachlorobutadiene	0.11	0.010	"	0.100		109	72-129			
Iodomethane	0.55	0.020	"	0.500		110	74-121			
Isopropylbenzene	0.099	0.0020	"	0.100		99.3	75-128			
m,p-Xylene	0.19	0.0040	"	0.200		96.1	75-134			
Methylene Chloride	0.11	0.010	"	0.100		105	84-122			
Methyl tert-Butyl Ether	0.11	0.0020	"	0.100		108	72-125			
Naphthalene	0.10	0.0080	"	0.100		102	65-128			

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 4690 Table Mountain Drive
 Golden CO 80403

Nikki Graber
 Project Number: 015-0272-101
 Project: Stelbar Risk Assessment

Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 5B06007 - EPA 5030B (Water)

LCS (5B06007-BS1)

Prepared: 02/06/2015 Analyzed: 02/06/2015

n-Butylbenzene	0.087	0.0020	mg/L	0.100		87.0	69-134			
n-Propylbenzene	0.083	0.0020	"	0.100		82.7	74-132			
o-Xylene	0.098	0.0020	"	0.100		97.6	76-129			
sec-Butylbenzene	0.086	0.0020	"	0.100		85.7	74-128			
Styrene	0.098	0.0020	"	0.100		97.9	74-126			
tert-Butylbenzene	0.088	0.0020	"	0.100		87.9	72-123			
Tetrachloroethene	0.12	0.0020	"	0.100		116	78-132			
Toluene	0.098	0.0020	"	0.100		98.3	76-128			
trans-1,2-Dichloroethene	0.097	0.0020	"	0.100		97.3	79-120			
trans-1,3-Dichloropropene	0.11	0.0020	"	0.100		112	74-122			
Trichloroethene	0.11	0.0020	"	0.100		110	76-125			
Trichlorofluoromethane	0.12	0.0020	"	0.100		120	66-149			
Vinyl chloride	0.071	0.0020	"	0.100		70.6	70-137			
Surrogate: 1,2-Dichloroethane-d4	73		ug/L	62.5		116	84-121			
Surrogate: Toluene-d8	63		"	62.5		100	85-115			QM-11
Surrogate: 4-Bromofluorobenzene	61		"	62.5		97.6	84-114			

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Olsson Associates
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 Golden CO 80403

Nikki Graber
 Project Number: 015-0272-101
 Project: Stelbar Risk Assessment

Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 5B06007 - EPA 5030B (Water)

Matrix Spike (5B06007-MS1)	Source: X502028-01			Prepared: 02/06/2015 Analyzed: 02/06/2015						
1,1,1,2-Tetrachloroethane	0.12	0.0020	mg/L	0.100	ND	119	82-130			
1,1,1-Trichloroethane	0.12	0.0020	"	0.100	ND	116	81-125			
1,1,2,2-Tetrachloroethane	0.093	0.0020	"	0.100	ND	93.5	74-120			
1,1,2-Trichloroethane	0.10	0.0020	"	0.100	ND	102	80-118			
1,1-Dichloroethane	0.10	0.0020	"	0.100	ND	103	79-120			
1,1-Dichloroethene	0.11	0.0020	"	0.100	ND	105	73-130			
1,1-Dichloropropene	0.10	0.0020	"	0.100	ND	103	77-124			
1,2,3-Trichlorobenzene	0.13	0.010	"	0.100	0.0014	124	55-144			
1,2,3-Trichloropropane	0.096	0.010	"	0.100	ND	95.8	67-126			
1,2,4-Trichlorobenzene	0.12	0.010	"	0.100	0.0010	121	56-141			
1,2,4-Trimethylbenzene	0.097	0.0020	"	0.100	ND	97.3	62-132			
1,2-Dibromo-3-chloropropane	0.11	0.010	"	0.100	ND	106	56-142			
1,2-Dibromoethane (EDB)	0.12	0.0020	"	0.100	ND	116	84-124			
1,2-Dichlorobenzene	0.10	0.0020	"	0.100	ND	104	74-124			
1,2-Dichloroethane	0.12	0.0020	"	0.100	ND	121	76-120			QM-07
1,2-Dichloropropane	0.091	0.0020	"	0.100	ND	90.5	78-117			
1,3,5-Trimethylbenzene	0.095	0.0020	"	0.100	ND	95.1	64-138			
1,3-Dichlorobenzene	0.10	0.0020	"	0.100	ND	101	73-126			
1,3-Dichloropropane	0.11	0.0020	"	0.100	ND	110	83-120			
1,4-Dichlorobenzene	0.10	0.0020	"	0.100	ND	103	64-130			
2,2-Dichloropropane	0.11	0.0020	"	0.100	ND	111	77-129			
2-Butanone	0.51	0.010	"	0.500	ND	102	66-128			
2-Chlorotoluene	0.094	0.0020	"	0.100	ND	94.1	71-130			
2-Hexanone	0.46	0.010	"	0.500	ND	92.9	74-123			
4-Chlorotoluene	0.097	0.0020	"	0.100	ND	97.3	66-128			
4-Isopropyltoluene	0.096	0.0020	"	0.100	ND	95.9	60-140			

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Nikki Graber
 Project Number: 015-0272-101
 Project: Stelbar Risk Assessment

Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 5B06007 - EPA 5030B (Water)

Matrix Spike (5B06007-MS1)	Source: X502028-01			Prepared: 02/06/2015 Analyzed: 02/06/2015						
4-Methyl-2-pentanone	0.47	0.010	mg/L	0.500	ND	93.8	65-125			
Acetone	0.49	0.016	"	0.500	ND	97.2	63-134			
Benzene	0.10	0.0020	"	0.100	ND	99.9	74-130			
Bromobenzene	0.095	0.0020	"	0.100	ND	94.6	70-130			
Bromochloromethane	0.12	0.0020	"	0.100	ND	120	80-118			QM-07
Bromodichloromethane	0.12	0.0020	"	0.100	ND	116	76-122			
Bromoform	0.13	0.0020	"	0.100	ND	133	80-128			QM-07
Bromomethane	0.12	0.0020	"	0.100	ND	120	69-144			
Carbon disulfide	0.47	0.010	"	0.500	ND	93.1	70-131			
Carbon tetrachloride	0.12	0.0020	"	0.100	ND	121	81-130			
Chlorobenzene	0.11	0.0020	"	0.100	ND	109	72-128			
Chloroethane	0.093	0.0020	"	0.100	ND	92.5	79-140			
Chloroform	0.11	0.0020	"	0.100	ND	113	76-118			
Chloromethane	0.061	0.0020	"	0.100	ND	60.6	72-128			QM-07
cis-1,2-Dichloroethene	0.10	0.0020	"	0.100	ND	102	78-120			
cis-1,3-Dichloropropene	0.11	0.0020	"	0.100	ND	106	79-120			
Dibromochloromethane	0.13	0.0020	"	0.100	ND	127	81-121			QM-07
Dibromomethane	0.11	0.0020	"	0.100	ND	113	84-115			
Ethylbenzene	0.10	0.0020	"	0.100	ND	103	76-132			
Hexachlorobutadiene	0.12	0.010	"	0.100	ND	124	70-130			
Iodomethane	0.57	0.020	"	0.500	ND	113	72-127			
Isopropylbenzene	0.11	0.0020	"	0.100	ND	110	66-135			
m,p-Xylene	0.20	0.0040	"	0.200	ND	101	69-139			
Methylene Chloride	0.10	0.010	"	0.100	ND	102	87-118			
Methyl tert-Butyl Ether	0.11	0.0020	"	0.100	ND	107	62-138			
Naphthalene	0.11	0.0080	"	0.100	0.0015	108	59-148			

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 4690 Table Mountain Drive
 Golden CO 80403

Nikki Graber
 Project Number: 015-0272-101
 Project: Stelbar Risk Assessment

Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 5B06007 - EPA 5030B (Water)

Matrix Spike (5B06007-MS1)	Source: X502028-01			Prepared: 02/06/2015 Analyzed: 02/06/2015						
n-Butylbenzene	0.095	0.0020	mg/L	0.100	ND	95.2	52-146			
n-Propylbenzene	0.089	0.0020	"	0.100	ND	88.7	66-141			
o-Xylene	0.10	0.0020	"	0.100	ND	103	74-131			
sec-Butylbenzene	0.093	0.0020	"	0.100	ND	92.8	63-138			
Styrene	0.10	0.0020	"	0.100	ND	104	72-128			
tert-Butylbenzene	0.096	0.0020	"	0.100	ND	95.5	67-129			
Tetrachloroethene	0.12	0.0020	"	0.100	ND	121	76-134			
Toluene	0.10	0.0020	"	0.100	ND	102	73-131			
trans-1,2-Dichloroethene	0.10	0.0020	"	0.100	ND	102	78-123			
trans-1,3-Dichloropropene	0.12	0.0020	"	0.100	ND	116	75-125			
Trichloroethene	0.11	0.0020	"	0.100	ND	114	73-131			
Trichlorofluoromethane	0.11	0.0020	"	0.100	ND	112	83-141			
Vinyl chloride	0.052	0.0020	"	0.100	ND	51.7	73-139			QM-07
Surrogate: 1,2-Dichloroethane-d4	71		ug/L	62.5		113	84-121			
Surrogate: Toluene-d8	61		"	62.5		97.9	85-115			
Surrogate: 4-Bromofluorobenzene	63		"	62.5		101	84-114			

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Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 5B06007 - EPA 5030B (Water)

Matrix Spike Dup (5B06007-MSD1)	Source: X502028-01			Prepared: 02/06/2015 Analyzed: 02/06/2015						
1,1,1,2-Tetrachloroethane	0.12	0.0020	mg/L	0.100	ND	124	82-130	3.95	20	
1,1,1-Trichloroethane	0.12	0.0020	"	0.100	ND	122	81-125	5.29	20	
1,1,2,2-Tetrachloroethane	0.095	0.0020	"	0.100	ND	94.9	74-120	1.53	20	
1,1,2-Trichloroethane	0.11	0.0020	"	0.100	ND	112	80-118	9.46	20	
1,1-Dichloroethane	0.10	0.0020	"	0.100	ND	104	79-120	0.620	20	
1,1-Dichloroethene	0.11	0.0020	"	0.100	ND	107	73-130	2.07	20	
1,1-Dichloropropene	0.11	0.0020	"	0.100	ND	105	77-124	2.02	20	
1,2,3-Trichlorobenzene	0.13	0.010	"	0.100	0.0014	126	55-144	1.06	20	
1,2,3-Trichloropropane	0.096	0.010	"	0.100	ND	96.3	67-126	0.562	20	
1,2,4-Trichlorobenzene	0.12	0.010	"	0.100	0.0010	119	56-141	1.47	20	
1,2,4-Trimethylbenzene	0.098	0.0020	"	0.100	ND	97.5	62-132	0.205	20	
1,2-Dibromo-3-chloropropane	0.11	0.010	"	0.100	ND	112	56-142	5.32	20	
1,2-Dibromoethane (EDB)	0.12	0.0020	"	0.100	ND	121	84-124	4.27	20	
1,2-Dichlorobenzene	0.11	0.0020	"	0.100	ND	109	74-124	4.08	20	
1,2-Dichloroethane	0.12	0.0020	"	0.100	ND	125	76-120	2.99	20	QM-07
1,2-Dichloropropane	0.092	0.0020	"	0.100	ND	91.7	78-117	1.25	20	
1,3,5-Trimethylbenzene	0.099	0.0020	"	0.100	ND	98.5	64-138	3.49	20	
1,3-Dichlorobenzene	0.10	0.0020	"	0.100	ND	100	73-126	1.13	20	
1,3-Dichloropropane	0.11	0.0020	"	0.100	ND	110	83-120	0.164	20	
1,4-Dichlorobenzene	0.10	0.0020	"	0.100	ND	104	64-130	1.20	20	
2,2-Dichloropropane	0.12	0.0020	"	0.100	ND	116	77-129	4.18	20	
2-Butanone	0.54	0.010	"	0.500	ND	108	66-128	5.58	20	
2-Chlorotoluene	0.096	0.0020	"	0.100	ND	96.4	71-130	2.33	20	
2-Hexanone	0.50	0.010	"	0.500	ND	99.8	74-123	7.21	20	
4-Chlorotoluene	0.097	0.0020	"	0.100	ND	97.4	66-128	0.103	20	
4-Isopropyltoluene	0.096	0.0020	"	0.100	ND	95.5	60-140	0.397	20	

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 Project Number: 015-0272-101
 Project: Stelbar Risk Assessment

Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 5B06007 - EPA 5030B (Water)

Matrix Spike Dup (5B06007-MSD1)	Source: X502028-01			Prepared: 02/06/2015 Analyzed: 02/06/2015						
4-Methyl-2-pentanone	0.51	0.010	mg/L	0.500	ND	102	65-125	8.36	20	
Acetone	0.51	0.016	"	0.500	ND	101	63-134	4.00	20	
Benzene	0.10	0.0020	"	0.100	ND	101	74-130	0.877	20	
Bromobenzene	0.093	0.0020	"	0.100	ND	93.1	70-130	1.68	20	
Bromochloromethane	0.12	0.0020	"	0.100	ND	125	80-118	3.77	20	QM-07
Bromodichloromethane	0.12	0.0020	"	0.100	ND	120	76-122	3.45	20	
Bromoform	0.14	0.0020	"	0.100	ND	145	80-128	8.23	20	QM-07
Bromomethane	0.13	0.0020	"	0.100	ND	129	69-144	7.12	20	
Carbon disulfide	0.48	0.010	"	0.500	ND	96.7	70-131	3.83	20	
Carbon tetrachloride	0.13	0.0020	"	0.100	ND	126	81-130	4.17	20	
Chlorobenzene	0.11	0.0020	"	0.100	ND	108	72-128	0.647	20	
Chloroethane	0.099	0.0020	"	0.100	ND	99.1	79-140	6.89	20	
Chloroform	0.12	0.0020	"	0.100	ND	118	76-118	4.48	20	
Chloromethane	0.058	0.0020	"	0.100	ND	57.5	72-128	5.25	20	QM-07
cis-1,2-Dichloroethene	0.10	0.0020	"	0.100	ND	103	78-120	1.11	20	
cis-1,3-Dichloropropene	0.11	0.0020	"	0.100	ND	109	79-120	2.83	20	
Dibromochloromethane	0.13	0.0020	"	0.100	ND	134	81-121	5.10	20	QM-07
Dibromomethane	0.12	0.0020	"	0.100	ND	117	84-115	3.70	20	QM-07
Ethylbenzene	0.11	0.0020	"	0.100	ND	105	76-132	2.54	20	
Hexachlorobutadiene	0.12	0.010	"	0.100	ND	121	70-130	2.42	20	
Iodomethane	0.59	0.020	"	0.500	ND	119	72-127	4.72	20	
Isopropylbenzene	0.11	0.0020	"	0.100	ND	107	66-135	2.73	20	
m,p-Xylene	0.20	0.0040	"	0.200	ND	101	69-139	0.237	20	
Methylene Chloride	0.10	0.010	"	0.100	ND	105	87-118	2.10	20	
Methyl tert-Butyl Ether	0.12	0.0020	"	0.100	ND	116	62-138	7.97	20	
Naphthalene	0.11	0.0080	"	0.100	0.0015	110	59-148	1.95	20	

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Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 5B06007 - EPA 5030B (Water)

Matrix Spike Dup (5B06007-MSD1)	Source: X502028-01			Prepared: 02/06/2015 Analyzed: 02/06/2015						
n-Butylbenzene	0.096	0.0020	mg/L	0.100	ND	96.1	52-146	0.962	20	
n-Propylbenzene	0.088	0.0020	"	0.100	ND	88.4	66-141	0.339	20	
o-Xylene	0.10	0.0020	"	0.100	ND	103	74-131	0.213	20	
sec-Butylbenzene	0.091	0.0020	"	0.100	ND	91.3	63-138	1.59	20	
Styrene	0.11	0.0020	"	0.100	ND	105	72-128	0.764	20	
tert-Butylbenzene	0.097	0.0020	"	0.100	ND	96.6	67-129	1.10	20	
Tetrachloroethene	0.12	0.0020	"	0.100	ND	125	76-134	2.89	20	
Toluene	0.10	0.0020	"	0.100	ND	102	73-131	0.589	20	
trans-1,2-Dichloroethene	0.10	0.0020	"	0.100	ND	104	78-123	2.37	20	
trans-1,3-Dichloropropene	0.12	0.0020	"	0.100	ND	122	75-125	4.67	20	
Trichloroethene	0.12	0.0020	"	0.100	ND	116	73-131	2.45	20	
Trichlorofluoromethane	0.12	0.0020	"	0.100	ND	118	83-141	5.76	20	
Vinyl chloride	0.061	0.0020	"	0.100	ND	60.6	73-139	15.7	20	QM-07
Surrogate: 1,2-Dichloroethane-d4	74		ug/L	62.5		118	84-121			
Surrogate: Toluene-d8	62		"	62.5		99.8	85-115			
Surrogate: 4-Bromofluorobenzene	65		"	62.5		104	84-114			

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Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Extractable Petroleum Hydrocarbons by 8015M - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 5B04013 - EPA 3511 Mod.

Blank (5B04013-BLK1)

Prepared: 02/04/2015 Analyzed: 02/06/2015

Gasoline (C6-C10)	ND	5.0	mg/L							
Diesel (C10-C28)	ND	5.0	"							
Surrogate: o-Terphenyl	ND		"	5.00		140	54-117			S-07

LCS (5B04013-BS1)

Prepared: 02/04/2015 Analyzed: 02/05/2015

Gasoline (C6-C10)	78.3	5.0	mg/L	100		78.3	69-125			
Diesel (C10-C28)	82.2	5.0	"	100		82.2	61-120			
Surrogate: o-Terphenyl	4.3		"	5.00		85.4	54-117			

Matrix Spike (5B04013-MS1)

Source: X502034-02

Prepared: 02/04/2015 Analyzed: 02/05/2015

Gasoline (C6-C10)	89.9	5.0	mg/L	100	ND	89.9	70-127			
Diesel (C10-C28)	93.7	5.0	"	100	2.6	91.1	54-126			
Surrogate: o-Terphenyl	4.9		"	5.00		97.4	54-117			

Matrix Spike Dup (5B04013-MSD1)

Source: X502034-02

Prepared: 02/04/2015 Analyzed: 02/05/2015

Gasoline (C6-C10)	84.4	5.0	mg/L	100	ND	84.4	70-127	6.23	20	
Diesel (C10-C28)	91.3	5.0	"	100	2.6	88.7	54-126	2.60	20	
Surrogate: o-Terphenyl	4.8		"	5.00		96.4	54-117			

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Nikki Graber
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Classical Chemistry Parameters - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5B04011 - NO PREP										
Duplicate (5B04011-DUP1)		Source: X502028-01			Prepared: 02/04/2015 Analyzed: 02/04/2015					
pH	7.67		pH Units		7.65			0.261	200	
Batch 5B04012 - NO PREP										
Blank (5B04012-BLK1)		Prepared: 02/04/2015 Analyzed: 02/04/2015								
Specific Conductance (EC)	2.70	1.00	uS/cm							
Duplicate (5B04012-DUP1)		Source: X502028-01			Prepared: 02/04/2015 Analyzed: 02/04/2015					
Specific Conductance (EC)	847	1.00	uS/cm		850			0.354	10	

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Alkalinity by EPA310.1/SM2320B - Quality Control
GEL Laboratories, LLC

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1455639 -

BLANK (1203258933-BLK)

Prepared: Analyzed: 02/06/2015

Bicarbonate alkalinity (CaCO3)	ND	1.00	mg/L				-			U
Carbonate alkalinity (CaCO3)	ND	1.00	"				-			U

LCS (1203258935-BKS)

Prepared: Analyzed: 02/06/2015

Alkalinity, Total as CaCO3	47.1	1.00	mg/L	50.0		94.3	90-110			
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Anions by EPA 300.0 - Quality Control
GEL Laboratories, LLC

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1455307 -

BLANK (1203258018-BLK)

Prepared: Analyzed: 02/04/2015

Chloride	ND	0.200	mg/L				-			U
Bromide	ND	0.200	"				-			U
Fluoride	ND	0.100	"				-			U
Nitrite	ND	0.100	"				-			U
Ortho-phosphate	ND	0.200	"				-			U
Sulfate	ND	0.400	"				-			U
Nitrate	ND	0.100	"				-			U

LCS (1203258019-BKS)

Prepared: Analyzed: 02/04/2015

Nitrate	2.40	0.100	mg/L	2.50		95.9	90-110			
Bromide	1.27	0.200	"	1.25		102	90-110			
Fluoride	2.38	0.100	"	2.50		95.4	90-110			
Ortho-phosphate	1.31	0.200	"	1.25		105	90-110			
Nitrite	2.44	0.100	"	2.50		97.5	90-110			
Sulfate	9.76	0.400	"	10.0		97.6	90-110			
Chloride	4.74	0.200	"	5.00		94.7	90-110			

DUP (1203258020 D)

Source: X502028-01

Prepared: Analyzed: 02/04/2015

Ortho-phosphate	ND	0.200	mg/L		<0.067		0-20	0.00	20	U
Nitrite	ND	0.100	"		<0.038		0-20	0.00	20	U
Nitrate	11.9	0.500	"		11.9		0-20	0.130	20	
Fluoride	0.339	0.100	"		0.345		0-20	1.70	20	
Chloride	23.0	1.00	"		23.2		0-20	0.956	20	
Bromide	0.255	0.200	"		0.268		0-20	5.09	20	
Sulfate	173	8.00	"		173		0-20	0.240	20	

PS (1203258021 S)

Source: X502028-01

Prepared: Analyzed: 02/04/2015

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Anions by EPA 300.0 - Quality Control
GEL Laboratories, LLC

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1455307 -

PS (1203258021 S)	Source: X502028-01			Prepared: Analyzed: 02/04/2015						
Ortho-phosphate	1.17	0.200	mg/L	1.25	93.8	90-110				
Nitrite	2.53	0.100	"	2.50	101	90-110				
Nitrate	25.7	0.500	"	2.50	110	90-110				
Fluoride	2.74	0.100	"	2.50	95.8	90-110				
Sulfate	391	8.00	"	10.0	109	90-110				
Bromide	1.55	0.200	"	1.25	103	90-110				
Chloride	50.5	1.00	"	5.00	109	90-110				

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Nitrate/Nitrite by EPA 353.2 - Quality Control
GEL Laboratories, LLC

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1455300 -										
BLANK (1203257994-BLK)					Prepared: Analyzed: 02/05/2015					
Nitrogen, Nitrate/Nitrite	ND	0.020	mg/L				-			U
LCS (1203257995-BKS)					Prepared: Analyzed: 02/05/2015					
Nitrogen, Nitrate/Nitrite	1.05	0.020	mg/L	1.00		105	90-110			
DUP (1203257996 D)					Source: X502028-01 Prepared: Analyzed: 02/05/2015					
Nitrogen, Nitrate/Nitrite	13.5	0.500	mg/L		14.0		0-20	3.09	20	
PS (1203257997 S)					Source: X502028-01 Prepared: Analyzed: 02/05/2015					
Nitrogen, Nitrate/Nitrite	43.8	0.500	mg/L	1.00		119	90-110			

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SVOC by 8270D - Quality Control
GEL Laboratories, LLC

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1455703 - SW846 3510C

BLANK (1203259110-BLK)

Prepared: 02/06/2015 Analyzed: 02/06/2015

Fluoranthene	ND	1.00	ug/L				-			U
Hexachlorobenzene	ND	10.0	"				-			U
Hexachlorocyclopentadiene	ND	10.0	"				-			U
Fluorene	ND	1.00	"				-			U
Hexachlorobutadiene	ND	10.0	"				-			U
Diphenylamine	ND	10.0	"				-			U
Dimethylphthalate	ND	10.0	"				-			U
Hexachloroethane	ND	10.0	"				-			U
Dibenzo(a,h)anthracene	ND	1.00	"				-			U
Di-n-octylphthalate	ND	10.0	"				-			U
Di-n-butylphthalate	ND	10.0	"				-			U
Diethylphthalate	ND	10.0	"				-			U
Indeno(1,2,3-cd)pyrene	ND	1.00	"				-			U
Isophorone	ND	10.0	"				-			U
N-Methyl-N-nitrosomethylamine	ND	10.0	"				-			U
N-Nitrosodipropylamine	ND	10.0	"				-			U
Nitrobenzene	ND	10.0	"				-			U
Pentachlorophenol	ND	10.0	"				-			U
Phenanthrene	ND	1.00	"				-			U
Phenol	ND	10.0	"				-			U
Pyrene	ND	1.00	"				-			U
2-Nitrophenol	ND	10.0	"				-			U
Chrysene	ND	1.00	"				-			U
Naphthalene	ND	1.00	"				-			U
2-Chlorophenol	ND	10.0	"				-			U
2-Chloronaphthalene	ND	1.00	"				-			U

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Olsson Associates
 4690 Table Mountain Drive
 Golden CO 80403

Nikki Graber
 Project Number: 015-0272-101
 Project: Stelbar Risk Assessment

SVOC by 8270D - Quality Control
GEL Laboratories, LLC

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1455703 - SW846 3510C

BLANK (1203259110-BLK)

Prepared: 02/06/2015 Analyzed: 02/06/2015

2,6-Dinitrotoluene	ND	10.0	ug/L				-			U
2,4-Dinitrotoluene	ND	10.0	"				-			U
2,4-Dinitrophenol	ND	20.0	"				-			U
2,4-Dimethylphenol	ND	10.0	"				-			U
2,4,6-Trichlorophenol	ND	10.0	"				-			U
1-Methylnaphthalene	ND	1.00	"				-			U
Butylbenzylphthalate	ND	10.0	"				-			U
1,4-Dioxane	ND	10.0	"				-			U
4-Bromophenylphenylether	ND	10.0	"				-			U
1,3-Dichlorobenzene	ND	10.0	"				-			U
1,2-Diphenylhydrazine	ND	10.0	"				-			U
1,2-Dichlorobenzene	ND	10.0	"				-			U
1,2,4-Trichlorobenzene	ND	10.0	"				-			U
2,4-Dichlorophenol	ND	10.0	"				-			U
Benzo(k)fluoranthene	ND	1.00	"				-			U
1,4-Dichlorobenzene	ND	10.0	"				-			U
2-Methylnaphthalene	ND	1.00	"				-			U
bis(2-Ethylhexyl)phthalate	ND	10.0	"				-			U
bis(2-Chloroethyl) ether	ND	10.0	"				-			U
bis(2-Chloro-1-methylethyl)ether	ND	10.0	"				-			U
Benzo(ghi)perylene	ND	1.00	"				-			U
Benzo(b)fluoranthene	ND	1.00	"				-			U
Benzo(a)pyrene	ND	1.00	"				-			U
Benzo(a)anthracene	ND	1.00	"				-			U
3,3'-Dichlorobenzidine	ND	10.0	"				-			U
Anthracene	ND	1.00	"				-			U

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1455703 - SW846 3510C

BLANK (1203259110-BLK)

Prepared: 02/06/2015 Analyzed: 02/06/2015

Acenaphthylene	ND	1.00	ug/L				-			U
Acenaphthene	ND	1.00	"				-			U
4-Nitrophenol	ND	10.0	"				-			U
4-Chlorophenylphenylether	ND	10.0	"				-			U
Benzidine	ND	10.0	"				-			U
bis(2-Chloroethoxy)methane	ND	10.0	"				-			U
Surrogate: Nitrobenzene-d5	37.5		"	50.0		74.9	38-113			
Surrogate: p-Terphenyl-d14	37.1		"	50.0		74.2	38-123			
Surrogate: Phenol-d5	26.5		"	100		26.5	10-110			
Surrogate: 2,4,6-Tribromophenol	88.0		"	100		88	33-126			
Surrogate: 2-Fluorobiphenyl	36.3		"	50.0		72.7	35-102			
Surrogate: 2-Fluorophenol	40.7		"	100		40.7	18-84			

LCS (1203259111-BKS)

Prepared: 02/06/2015 Analyzed: 02/06/2015

Hexachlorocyclopentadiene	33.0	10.0	ug/L	50.0		65.9	18-87			
Hexachlorobutadiene	33.0	10.0	"	50.0		66	24-93			
Hexachlorobenzene	51.2	10.0	"	50.0		102	46-113			
Fluorene	43.7	1.00	"	50.0		87.5	47-105			
Fluoranthene	44.6	1.00	"	50.0		89.2	48-114			
Diphenylamine	43.4	10.0	"	50.0		86.8	51-111			
Di-n-butylphthalate	45.5	10.0	"	50.0		91	52-119			
Dimethylphthalate	46.0	10.0	"	50.0		92	55-119			
Dibenzo(a,h)anthracene	45.8	1.00	"	50.0		91.6	36-124			
Di-n-octylphthalate	44.4	10.0	"	50.0		88.8	40-122			
Hexachloroethane	30.4	10.0	"	50.0		60.7	25-92			
Phenol	15.2	10.0	"	50.0		30.3	10-114			
Diethylphthalate	45.9	10.0	"	50.0		91.7	55-121			

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SVOC by 8270D - Quality Control
GEL Laboratories, LLC

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1455703 - SW846 3510C

LCS (1203259111-BKS)

Prepared: 02/06/2015 Analyzed: 02/06/2015

Indeno(1,2,3-cd)pyrene	45.0	1.00	ug/L	50.0		90	37-120			
Isophorone	38.5	10.0	"	50.0		76.9	49-124			
N-Methyl-N-nitrosomethylamine	25.6	10.0	"	50.0		51.1	24-82			
N-Nitrosodipropylamine	38.3	10.0	"	50.0		76.7	48-119			
Naphthalene	33.7	1.00	"	50.0		67.3	33-96			
Nitrobenzene	38.5	10.0	"	50.0		76.9	44-117			
Phenanthrene	41.7	1.00	"	50.0		83.3	49-106			
Pyrene	44.1	1.00	"	50.0		88.2	41-115			
Chrysene	40.0	1.00	"	50.0		80	48-108			
Pentachlorophenol	51.9	10.0	"	50.0		104	33-111			
1,2-Dichlorobenzene	31.5	10.0	"	50.0		63	29-92			
2-Chlorophenol	37.3	10.0	"	50.0		74.7	44-103			
2-Chloronaphthalene	39.9	1.00	"	50.0		79.9	37-100			
2,6-Dinitrotoluene	42.7	10.0	"	50.0		85.4	55-117			
2,4-Dinitrotoluene	42.7	10.0	"	50.0		85.4	55-123			
2-Methylnaphthalene	32.7	1.00	"	50.0		65.5	33-96			
1,2,4-Trichlorobenzene	31.8	10.0	"	50.0		63.7	29-93			
1,3-Dichlorobenzene	30.8	10.0	"	50.0		61.7	27-91			
1,2-Diphenylhydrazine	38.0	10.0	"	50.0		76.1	43-114			
1,4-Dichlorobenzene	31.5	10.0	"	50.0		62.9	27-93			
1-Methylnaphthalene	36.2	1.00	"	50.0		72.4	34-98			
2,4,6-Trichlorophenol	47.2	10.0	"	50.0		94.4	48-114			
2,4-Dimethylphenol	32.8	10.0	"	50.0		65.7	43-105			
Butylbenzylphthalate	43.2	10.0	"	50.0		86.4	45-121			
2,4-Dichlorophenol	41.0	10.0	"	50.0		82	47-107			
2,4-Dinitrophenol	43.6	20.0	"	50.0		87.1	14-126			

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Nikki Graber
 Project Number: 015-0272-101
 Project: Stelbar Risk Assessment

SVOC by 8270D - Quality Control
GEL Laboratories, LLC

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1455703 - SW846 3510C

LCS (1203259111-BKS)

Prepared: 02/06/2015 Analyzed: 02/06/2015

Benzo(ghi)perylene	48.8	1.00	ug/L	50.0		97.6	34-121			
bis(2-Chloroethyl) ether	40.0	10.0	"	50.0		80	44-111			
bis(2-Ethylhexyl)phthalate	42.8	10.0	"	50.0		85.5	43-120			
1,4-Dioxane	25.3	10.0	"	50.0		50.5	29-74			
2-Nitrophenol	40.7	10.0	"	50.0		81.4	47-110			
bis(2-Chloroethoxy)methane	41.9	10.0	"	50.0		83.8	48-114			
bis(2-Chloro-1-methylethyl)ether	45.7	10.0	"	50.0		91.3	30-113			
Benzo(k)fluoranthene	43.6	1.00	"	50.0		87.2	48-112			
Benzo(b)fluoranthene	43.1	1.00	"	50.0		86.1	48-110			
Benzo(a)pyrene	41.8	1.00	"	50.0		83.7	47-106			
3,3'-Dichlorobenzidine	35.5	10.0	"	50.0		71	37-119			
Benzdine	14.7	10.0	"	100		14.7	10-137			
4-Bromophenylphenylether	48.4	10.0	"	50.0		96.9	46-112			
Anthracene	41.8	1.00	"	50.0		83.6	49-106			
Acenaphthylene	42.9	1.00	"	50.0		85.8	43-104			
Acenaphthene	43.0	1.00	"	50.0		85.9	42-101			
Benzo(a)anthracene	41.5	1.00	"	50.0		82.9	50-107			
4-Chlorophenylphenylether	48.8	10.0	"	50.0		97.6	44-112			
4-Nitrophenol	11.1	10.0	"	50.0		22.2	15-109			
Surrogate: Nitrobenzene-d5	36.4		"	50.0		72.8	38-113			
Surrogate: p-Terphenyl-d14	42.4		"	50.0		84.8	38-123			
Surrogate: Phenol-d5	27.8		"	100		27.8	10-110			
Surrogate: 2,4,6-Tribromophenol	107		"	100		107	33-126			
Surrogate: 2-Fluorophenol	42.6		"	100		42.6	18-84			
Surrogate: 2-Fluorobiphenyl	40.1		"	50.0		80.2	35-102			

LCSD (1203259112-BKSD)

Prepared: 02/06/2015 Analyzed: 02/06/2015

Origins Laboratory, Inc.



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 Golden CO 80403

Nikki Graber
 Project Number: 015-0272-101
 Project: Stelbar Risk Assessment

SVOC by 8270D - Quality Control
GEL Laboratories, LLC

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1455703 - SW846 3510C

LCSD (1203259112-BKSD)

Prepared: 02/06/2015 Analyzed: 02/06/2015

Diethylphthalate	42.6	10.0	ug/L	50.0		85.2	55-121	7.44	30	
Hexachlorobutadiene	29.0	10.0	"	50.0		57.9	24-93	13.1	30	
Hexachlorobenzene	46.8	10.0	"	50.0		93.6	46-113	9.06	30	
Fluorene	39.7	1.00	"	50.0		79.3	47-105	9.79	30	
Fluoranthene	42.2	1.00	"	50.0		84.4	48-114	5.58	30	
Dibenzo(a,h)anthracene	43.7	1.00	"	50.0		87.3	36-124	4.81	30	
Dimethylphthalate	42.8	10.0	"	50.0		85.7	55-119	7.09	30	
Hexachlorocyclopentadiene	27.6	10.0	"	50.0		55.1	18-87	17.9	30	
Pentachlorophenol	46.8	10.0	"	50.0		93.5	33-111	10.5	30	
Di-n-octylphthalate	40.9	10.0	"	50.0		81.8	40-122	8.11	30	
Di-n-butylphthalate	42.6	10.0	"	50.0		85.2	52-119	6.56	30	
Diphenylamine	39.8	10.0	"	50.0		79.5	51-111	8.73	30	
Hexachloroethane	25.5	10.0	"	50.0		51.1	25-92	17.3	30	
Indeno(1,2,3-cd)pyrene	40.7	1.00	"	50.0		81.4	37-120	10.0	30	
Isophorone	35.1	10.0	"	50.0		70.2	49-124	9.19	30	
N-Methyl-N-nitrosomethylamine	21.7	10.0	"	50.0		43.4	24-82	16.4	30	
N-Nitrosodipropylamine	34.2	10.0	"	50.0		68.4	48-119	11.4	30	
Naphthalene	30.1	1.00	"	50.0		60.2	33-96	11.1	30	
Nitrobenzene	34.1	10.0	"	50.0		68.3	44-117	11.9	30	
Phenanthrene	38.2	1.00	"	50.0		76.3	49-106	8.72	30	
Phenol	13.3	10.0	"	50.0		26.5	10-114	13.5	30	
Chrysene	37.3	1.00	"	50.0		74.5	48-108	7.09	30	
Acenaphthene	39.2	1.00	"	50.0		78.3	42-101	9.23	30	
Pyrene	40.0	1.00	"	50.0		79.9	41-115	9.83	30	
2-Chlorophenol	32.4	10.0	"	50.0		64.8	44-103	14.1	30	
Anthracene	38.3	1.00	"	50.0		76.5	49-106	8.87	30	

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SVOC by 8270D - Quality Control
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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1455703 - SW846 3510C

LCSD (1203259112-BKSD)

Prepared: 02/06/2015 Analyzed: 02/06/2015

2,6-Dinitrotoluene	39.4	10.0	ug/L	50.0		78.8	55-117	8.09	30	
2,4-Dinitrotoluene	39.1	10.0	"	50.0		78.2	55-123	8.73	30	
2,4-Dinitrophenol	38.2	20.0	"	50.0		76.5	14-126	13.0	30	
2,4-Dimethylphenol	28.7	10.0	"	50.0		57.4	43-105	13.4	30	
Butylbenzylphthalate	39.7	10.0	"	50.0		79.3	45-121	8.52	30	
2,4,6-Trichlorophenol	42.8	10.0	"	50.0		85.5	48-114	9.89	30	
1-Methylnaphthalene	33.0	1.00	"	50.0		66	34-98	9.24	30	
1,4-Dioxane	20.9	10.0	"	50.0		41.7	29-74	19.0	30	
1,4-Dichlorobenzene	26.7	10.0	"	50.0		53.4	27-93	16.4	30	
1,3-Dichlorobenzene	26.1	10.0	"	50.0		52.1	27-91	16.8	30	
1,2-Diphenylhydrazine	34.5	10.0	"	50.0		69	43-114	9.70	30	
1,2-Dichlorobenzene	26.8	10.0	"	50.0		53.7	29-92	16.0	30	
1,2,4-Trichlorobenzene	28.4	10.0	"	50.0		56.7	29-93	11.6	30	
2,4-Dichlorophenol	36.6	10.0	"	50.0		73.2	47-107	11.4	30	
Benzo(a)pyrene	37.9	1.00	"	50.0		75.7	47-106	9.96	30	
bis(2-Ethylhexyl)phthalate	39.6	10.0	"	50.0		79.3	43-120	7.55	30	
bis(2-Chloroethyl) ether	35.0	10.0	"	50.0		69.9	44-111	13.4	30	
bis(2-Chloroethoxy)methane	37.8	10.0	"	50.0		75.5	48-114	10.4	30	
bis(2-Chloro-1-methylethyl)ether	39.7	10.0	"	50.0		79.4	30-113	13.9	30	
Benzo(k)fluoranthene	39.5	1.00	"	50.0		79	48-112	9.89	30	
2-Chloronaphthalene	36.1	1.00	"	50.0		72.1	37-100	10.2	30	
Benzo(b)fluoranthene	39.3	1.00	"	50.0		78.5	48-110	9.23	30	
Benzo(a)anthracene	38.1	1.00	"	50.0		76.1	50-107	8.53	30	
Benzidine	25.1	10.0	"	100		25.1	10-137	52.5	30	
Acenaphthylene	38.8	1.00	"	50.0		77.5	43-104	10.2	30	
4-Nitrophenol	11.4	10.0	"	50.0		22.7	15-109	2.14	30	

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SVOC by 8270D - Quality Control
GEL Laboratories, LLC

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1455703 - SW846 3510C

LCSD (1203259112-BKSD)

Prepared: 02/06/2015 Analyzed: 02/06/2015

4-Chlorophenylphenylether	43.9	10.0	ug/L	50.0		87.7	44-112	10.6	30	
4-Bromophenylphenylether	44.8	10.0	"	50.0		89.5	46-112	7.85	30	
3,3'-Dichlorobenzidine	31.3	10.0	"	50.0		62.6	37-119	12.6	30	
2-Nitrophenol	36.5	10.0	"	50.0		73	47-110	10.9	30	
2-Methylnaphthalene	29.9	1.00	"	50.0		59.7	33-96	9.20	30	
Benzo(ghi)perylene	44.0	1.00	"	50.0		87.9	34-121	10.4	30	
Surrogate: p-Terphenyl-d14	39.6		"	50.0		79.3	38-123			
Surrogate: Phenol-d5	24.5		"	100		24.5	10-110			
Surrogate: Nitrobenzene-d5	32.7		"	50.0		65.3	38-113			
Surrogate: 2,4,6-Tribromophenol	96.8		"	100		96.8	33-126			
Surrogate: 2-Fluorobiphenyl	36.2		"	50.0		72.3	35-102			
Surrogate: 2-Fluorophenol	36.8		"	100		36.8	18-84			

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 Golden CO 80403

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 Project: Stelbar Risk Assessment

TDS by SM2540C - Quality Control
GEL Laboratories, LLC

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1455424 -										
BLANK (1203258336-BLK)					Prepared: Analyzed: 02/05/2015					
Total Dissolved Solids	ND	14.3	mg/L				-			U
LCS (1203258337-BKS)					Prepared: Analyzed: 02/05/2015					
Total Dissolved Solids	294	14.3	mg/L	300		98.1	95-105			

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 Project: Stelbar Risk Assessment

Total Phosphorous by EPA 365.4 - Quality Control
GEL Laboratories, LLC

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1455285 - EPA 365.4 Prep										
BLANK (1203257945-BLK)					Prepared: 02/05/2015 Analyzed: 02/06/2015					
Phosphorus, Total as P	0.0198	0.050	mg/L				-			J
LCS (1203257946-BKS)					Prepared: 02/05/2015 Analyzed: 02/06/2015					
Phosphorus, Total as P	0.964	0.050	mg/L	1.00		96.4	83-123			

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Golden CO 80403

Nikki Graber
Project Number: 015-0272-101
Project: Stelbar Risk Assessment

Notes and Definitions

- U Result not detected above the detection limit
- S-07 High surrogate in sample, however sample is non-detect. High surrogate indicates result values are biased high.
- QM-11 Spike recovery was outside acceptance limits for LCS, however samples are non-detect for this compound.
- QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
- QM-02 The RPD and/or percent recovery for this QC spike sample cannot be accurately calculated due to the high concentration of analyte inherent in the sample.
- J Greater than the detection limit but less than the reporting limit
- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference
- All soil results are reported at a wet weight basis.

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