

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.

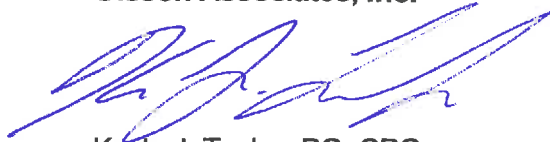
It is Olsson's opinion that in-place natural attenuation of residual petroleum hydrocarbon-impacted soil can occur at the Site without affecting offsite water quality or endangering human health or the environment. This recommendation is based on the following:

- 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								Boring Location
				Benzene	Toluene ¹	Ethylbenzene	Total Xylenes ¹	GRO (C6-C10 Range)	DRO (C10-C28 Range)	TPH=GRO+DRO	Specific Conductance (EC) mmhos/cm	pH	Oil and Grease (mg/L)	Chlorides (mg/L)	Liquid Hydrocarbons in Groundwater Detected	
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			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			
	SB7	28'	Soil	NA				1160	7200	8360	0.123	8.72	NA			Between SB5 and SB9
			Groundwater	ND	ND	3.1	ND	NA	145	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															
	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	ND	NA	NA	7.46*	9.9*	23		Offsite south of southwest site corner
	OFFSITE 2	17'	Soil	NA				ND	236	236	0.0257	7.66	NA			Offsite south of south property line
	OFFSITE 3	24'	Soil	NA				ND	107	107	0.0268	7.89	NA			Southwest of southwest property corner
	OFFSITE 4	25'	Soil	NA				ND	ND	ND	0.0314	8.94	NA			
			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 Compounds 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

umhos/cm = micromhos per centimeter

mS/cm = milli Siemens per centimeter

DWS = Drinking Water Standard

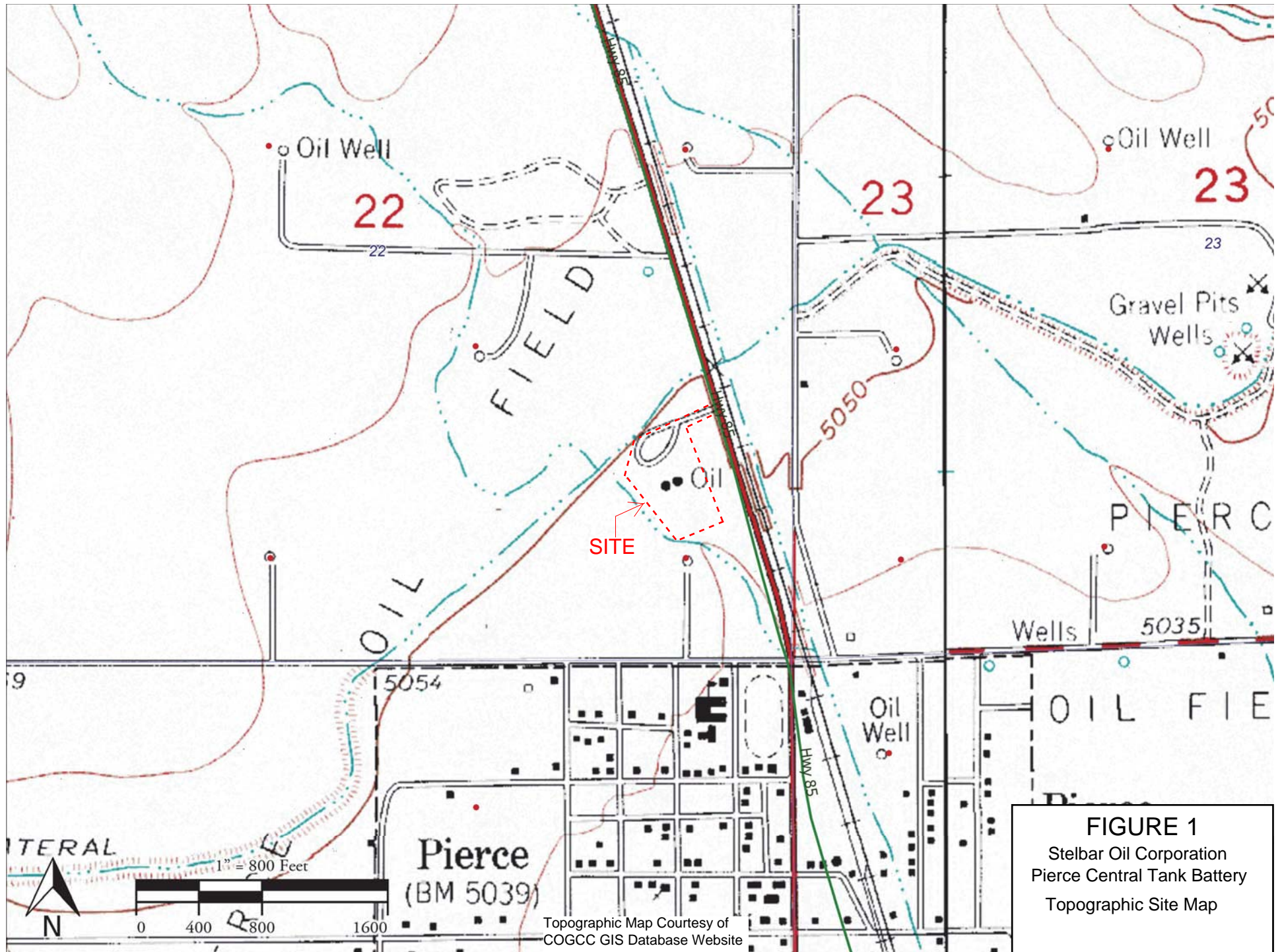
NM = Not Measured

NA = Not Applicable

BOLD - Reported concentration above Colorado drinking water standard

FIGURES

Pierce Central



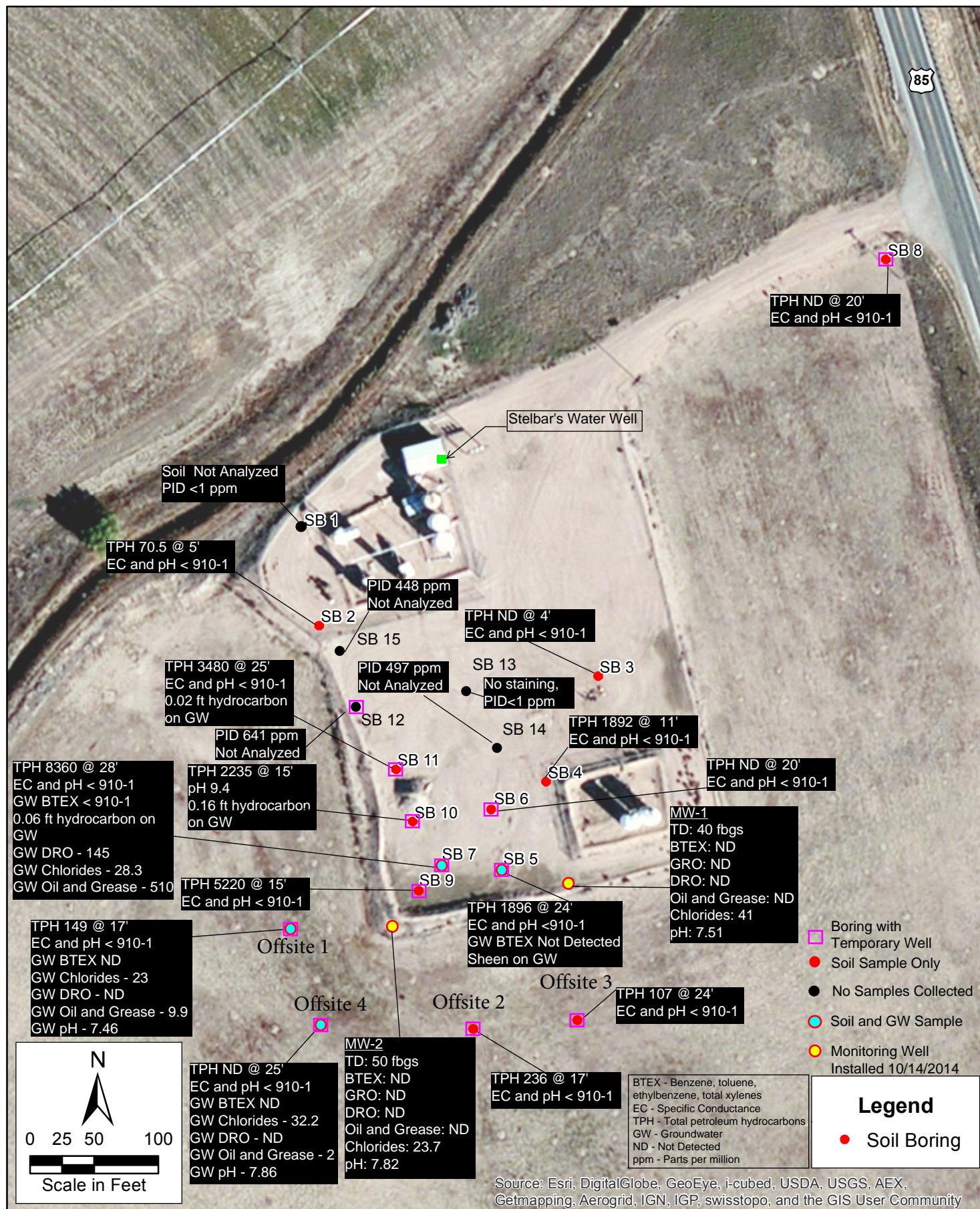


Pierce Central Tank Battery
Stelbar Oil Corporation
Weld County, Colorado

LEGEND

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

FIGURE 2



PROJECT:

DRAWN BY: JED

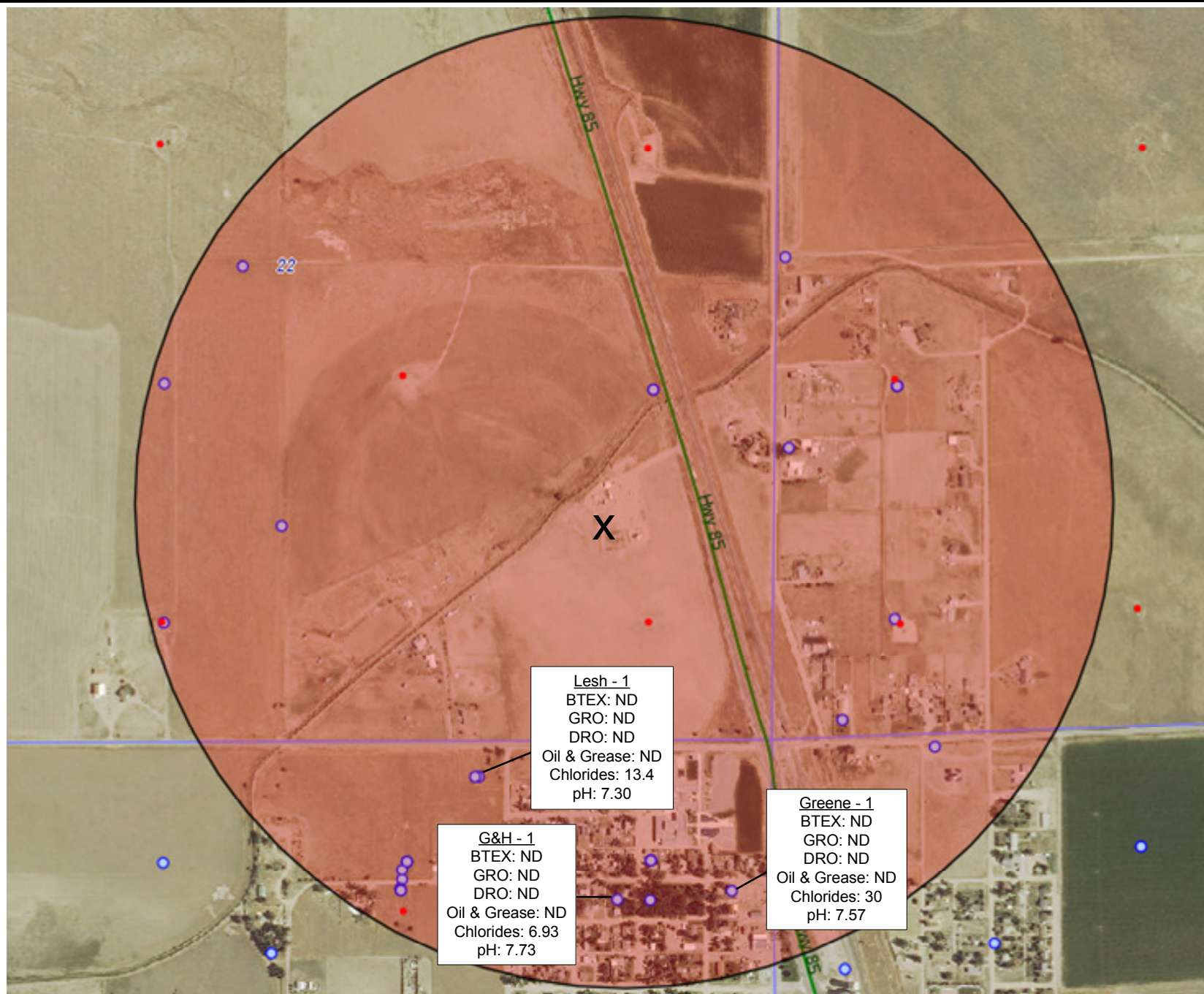
DATE:

Pierce Central Tank Battery
Stelbar Oil Corporation
Weld County, Colorado

OLSSON
ASSOCIATES

FIGURE


3





PROJECT NO: 014-1916	0.5 Mile Radius Ground Water Analytical Results Domestic Water Wells for Pierce Central Facility Draft	OLSSON ASSOCIATES 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
DRAWN BY: JED				
DATE: 10/20/2014				

ATTACHMENT 1


DUE DILIGENCE BORING LOGS


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										
					>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 SB3												4690 Table Mountain Drive #200 Golden, CO 80403 T. 303.237.2072 F. 303.237.2659			
												TEST HOLE/ WELL LOG			
								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		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			
					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				
					<1			15	85%						
											Clay, brown to dark brown, well graded, high plasticity, abundant sand particles, moist				
					<1			20	80%						
											Sand, tan to white, medium to coarse grained, moderately graded, sl moist				
					<1			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 SB 6											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: SB6								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		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	WELL COMPLETION
											Fill	Temporary PVC installed - Dry
											Clay, brown to dark brown, very plastic, sandy, fine to coarse grain, moist	
					>1	N		5	70%		Clay, gray, very plastic, sandy, fine to medium grain, moist, trace hydrocarbon staining	
											Sand, tan to white, medium to coarse grained, occasional quartz gravel, dry to slightly moist	
					>1	N		10	60%		Clay, black to brown, very plastic, sandy, fine to coarse grain, moist	
											Sand, white to gray, medium to coarse grained, poorly graded, occasional quartz gravel, trace hydrocarbon staining	
					>1	N		15	85%			
					>1	N		20	55%		Claystone, tan to brown, slightly plastic, trace sand, medium to coarse grain	
												Soil Sample SB6-20
												TD 20 feet
												PVC pipe removed – Boring backfilled with 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					

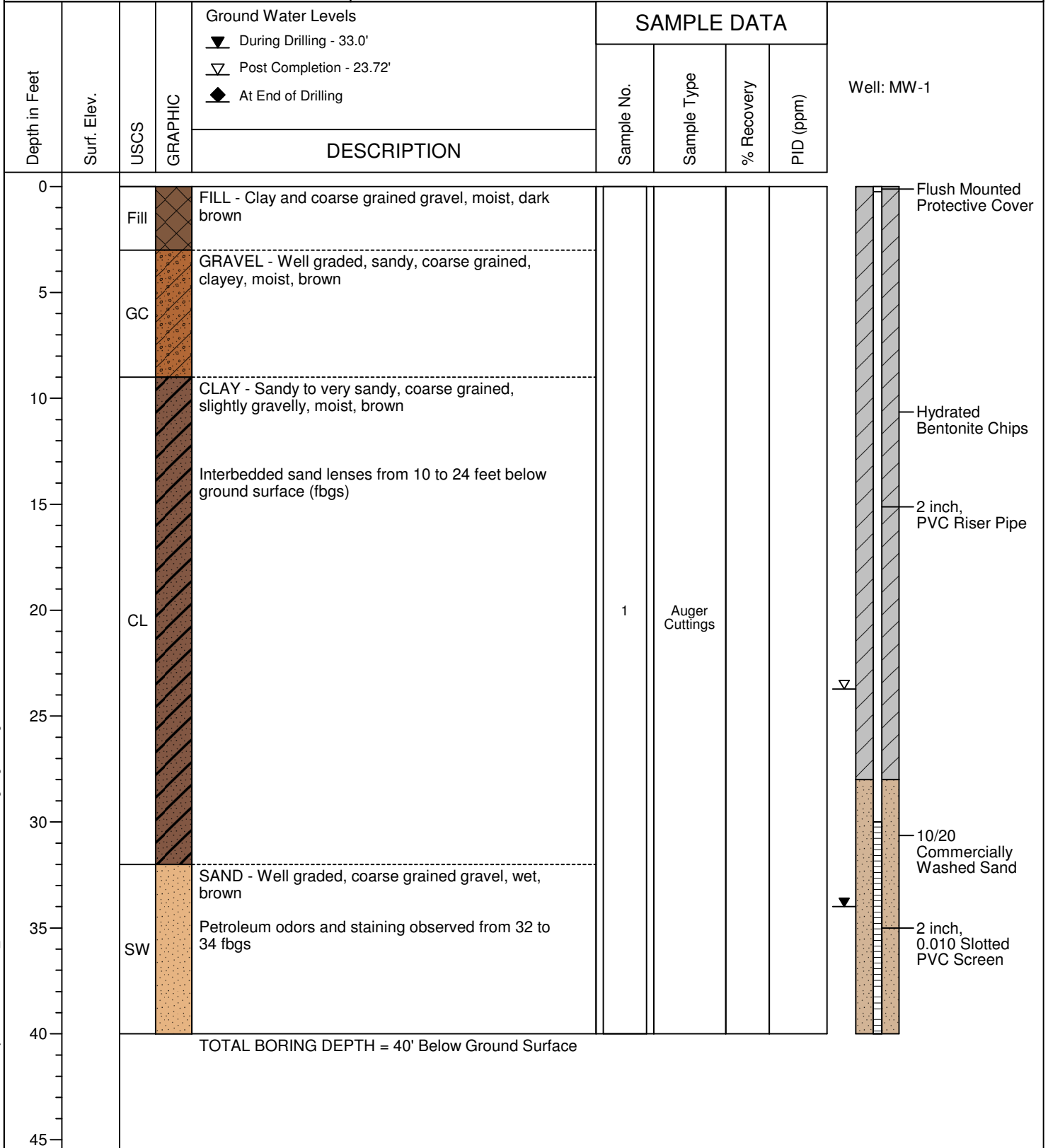
LOCATION MAP Pierce Central SB 10											4690 Table Mountain Drive #200 Golden, CO 80403 T. 303.237.2072 F. 303.237.2659					
								TEST HOLE/ WELL LOG						Page 1 of 1		
								Test/Well Number: SB10						Project: Stelbar		
								Date: 8/11/14						Project Number: 014-1916		
								Logged By: 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: 22.83 ft.		DTW: 22.99 ft.						
Screen Type: PVC		Slot: .001 inch		Diameter: 1-inch		Length: 14 ft.		Well Depth: 24 ft		Total Depth: 24 ft						
Soil/Rock Type	Color	Moisture Content	% Fines	Structure	Vapor	Staining	Sample #	Depth	Sample Recovery	Penetration Resistance	LITHOLOGY/REMARKS	WELL COMPLETION				
											Fill	No groundwater at time of drilling. Temporary PVC installed Soil Sample SB10-15				
					3	Y		5	50%		Clay, brown to dark brown, very plasticity, sandy, fine to coarse grain, moist, slight hydrocarbon staining					
					19						Sand, tan to black, medium to coarse grained, large angular quartz gravel, hydrocarbon staining					
					330	Y		10	70%		Clay, black to brown, very plastic, sandy, fine to coarse grain, moist, hydrocarbon staining					
					211											
					284											
					333	Y		15	80%		Sand, white to gray, medium to coarse grained, poorly graded, large quartz gravel, hydrocarbon staining					
					397											
					111	Y		20	85%		Claystone, tan to brown, slightly plastic, trace fine grain sand, dry to slightly moist, hydrocarbon staining					
					185	Y										
					20	N		25	70%		Claystone, tan to brown, slightly plastic, trace sand, dry to slightly moist	TD 24 feet				
												8/18/14 Groundwater 22.99 ft. Hydrocarbon 22.83 ft.				
												PVC removed – 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

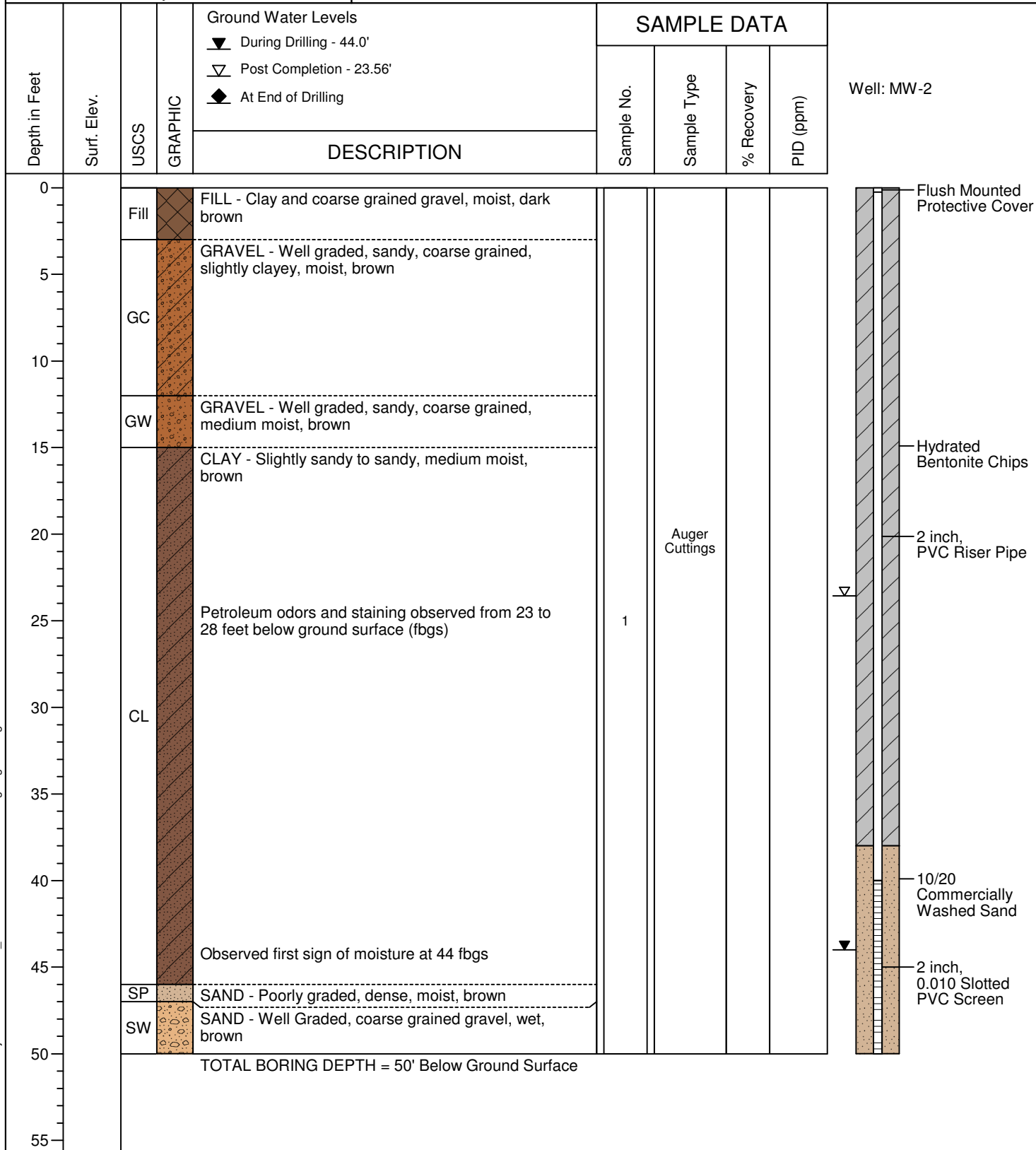
 Logged By : Jason Davidson
 Hole Diameter : 6 inch
 Depth to Product : NA
 Depth to Water : 23.72'
 Total Boring Depth : 40 ft bgs


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


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



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

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

www.originslaboratory.com

page ☐ of ☐

ORIGINS LABORATORY, INC

Client: 014

Address: 5285 McWilliams Blvd
Suite 1601

Telephone Number: 928-246-1043

Email Address: ng.graber@olssonassociates.com

Project Manager: Nikki Graber

Project Name: Stelbar Acquisition

Project Number: 014-1916

Samples Collected By: Nikki Graber

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix			Analysis	Sample Instructions
				Unpreserved	HCl	HNO ₃	Other	Groundwater	Soil	As Summed		
PC-SB3-4	7/28	0827	1									1
PC-SB4-11		0842	1									2
PC-SB5-24		0915	1									3
PC-SB2-5		0943	1									4
PC-SB1-17		1001	1									5
PC-SB5-GW		1538	4									6
												7
												8
												9
												10

Requisitioned By: [Signature] Date: 7/28 Time: 1715

Requisitioned By: Ben Higgins Date: 7/28/14 Time: 1945

Received By: [Signature] Date: 7/28/14 Time: 1715

Turnaround Time: ☒ Same Day ☐ 24 Hr ☐ 48 Hr ☒ Standard

Date Results Needed:

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

Sample Receipt Checklist

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

Origins Work Order: X407242

Client: Olson

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 #: N/A

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⁾ ?		<input checked="" type="checkbox"/>		<u>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"/>		
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 NaAsO ₂ +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]

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
---------------------------	-------	--	----------	---	---------	------------	------------

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
----	------	--	----------	---	---------	------------	------------

Origins Laboratory, Inc.



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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

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
---------------------------	-------	--	----------	---	---------	------------	------------

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			"	"	"
------------------------	-------	--------	--	--	---	---	---

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.



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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

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
---------------------------	-------	--	----------	---	---------	------------	------------

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			"	"	"
------------------------	-------	--------	--	--	---	---	---

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.



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

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
---------------------------	-------	--	----------	---	---------	------------	------------

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
----	------	--	----------	---	---------	------------	------------

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

PC-SB5-GW

7/28/2014 3:38:00PM

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

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.



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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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.

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
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

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.



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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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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.



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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
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

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.



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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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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.



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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

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.



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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

Origins Laboratory, Inc.



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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



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

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.



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Noelle Doyle Mathis, President

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 X408090

Client: OA Project Manager/Send Report To: Nikki Graber
Address: _____ Email Address: ngaber@olssonassociates.com
Telephone Number: 928 240 1043 Project Name/Number: Stelbar / 014-1916
Samples Collected By: Nikki

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix			Analysis/Method	Sample Instructions
				Unpreserved	HCl	HNO ₃	Other	Groundwater	Soil	Air Summa #		
PC-SB6-20	8/11/14	09:14	1									GLD, PBO, EC, PH
PC-SB7-25		10:16	1									
PC-SB8-20		09:14	1									
PC-SB9-15		11:17	1									
PC-SB10-15		12:01	1									
PC-SB11-25		12:51	1									
<div> <div>Relinquished By: <u>Ngaber</u> Date: <u>8/11/14</u> Time: <u>1453</u></div> <div>Relinquished By: <u>Graber</u> Date: <u>8/11/14</u> Time: <u>1607</u></div> </div>												

Turnaround Time: ☒ 24 Hr ☐ 48 Hr ☐ 72 Hr ☐ Standard

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

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

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: H/D

(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: 113.2 °C 1 °C 1 °C 1 °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"/>		<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 HNO ₃ , HCL, H ₂ SO ₄) / (pH >10 for samples preserved with NaAsO ₂ +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]

Date/Time Reviewed 8.13.14 7:57

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

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	"	"	"	"	"

Surrogate: o-Terphenyl	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.



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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	"	"	"	"	"

Surrogate: o-Terphenyl	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.



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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.



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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	"	"	"	"	"

Surrogate: o-Terphenyl	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.



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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	"	"	"	"	"

Surrogate: o-Terphenyl	98.0 %	59-131			"	"	"
------------------------	--------	--------	--	--	---	---	---

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.



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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	"	"	"	"	"

Surrogate: o-Terphenyl	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.



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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 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	"							
Surrogate: o-Terphenyl	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	"							
Surrogate: o-Terphenyl	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			
Surrogate: o-Terphenyl	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			
Surrogate: o-Terphenyl	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			
Surrogate: o-Terphenyl	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			
Surrogate: o-Terphenyl	55		g	50.0		109	59-131			

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	
Surrogate: o-Terphenyl	50		g	50.0		99.6	59-131			
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	
Surrogate: o-Terphenyl	56		g	50.0		111	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 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



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

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

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

ORIGINS
LABORATORY, INC

Client: Olsson Project Manager/Send Report To: Niki

Address: 5285 McWhinney Blvd Email Address: ngs.ober@olssonassoc.com



Suite 200 Project Name/Number: SKLbar 014-1916

Telephone Number: 928-240-1043 Samples Collected By: Niki

www.originslaboratory.com

page 1 of 1

X408137

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative					Matrix				Analysis/Method	Sample Instructions
				Unpreserved	HCl	HNO ₃	Other	Groundwater	Soil	Air Summa #	Other			
2009-G1W	8/15/14	1039	5	2	3			X					Chlorides / BTEX / DRO / PH / Oil / Gase	1
														2
														3
														4
														5
														6
														7
														8
														9
														10
Relinquished By: 	Date: 8/15/14	Time: 1300												Turnaround Time: Same Day <input type="checkbox"/> 24 Hr <input checked="" type="checkbox"/>
Relinquished By: 	Date: 8/15/14	Time: 1430												48 Hr <input type="checkbox"/> Standard <input type="checkbox"/>

Data Results Needed:

Origins Laboratory, Inc.

RBm

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: X408137

Client: Olsson

Client Project ID: Stelbar

Checklist Completed by: Jeff Smith

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

Date/time completed: 8/15/14

Airbill #: NA

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

Cooler Number/Temperature: 1 13.7 °C 1 °C 1 °C 1 °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"/>		<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"/>	<u>8/15/14</u> <input checked="" type="checkbox"/> <u>OS</u>	
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)	<input checked="" type="checkbox"/>			<u>HCL</u>
Additional Comments (if any): <u>I confirmed with client via phone conversation to add oil/grass to COC</u>				
<u>8/15/14</u>				

⁽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 1443
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

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	
Surrogate: o-Terphenyl	127 %	54-117			"	"	"	S-DUP

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.



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

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.



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

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.



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-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

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

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

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative					Matrix			Analysis/Method	Sample Instructions
				Unpreserved	HCl	HNO ₃	Other	Groundwater	Soil	Air Summa #	Other		
Offsite #1-17	9/16/14	1414	1	X					X			EC, pH, GLO, ORP	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				BTEY, REPT	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: <u>9/17</u>	Time: <u>5pm</u>	Date Results Needed: <u>5pm 9/17</u>										

Comments:

Origins Laboratory, Inc.

[Signature]

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 RJL 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): X Soil/Solid X Water Other: _____
Cooler Number/Temperature: 13.3 °C / _____ °C / _____ °C (Describe)
Thermometer ID: 1002

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 HNO ₃ , HCL, H ₂ SO ₄) / (pH > 10 for samples preserved with NaAsO ₂ +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) [Signature] Date/Time Reviewed 9/17/14 7:16

Origins Laboratory, Inc.

[Signature]

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 #1-17

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			"	"	"
------------------------	--------	--------	--	--	---	---	---

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.



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 #2-17

9/16/2014 2:51:00PM

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

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
---------	--------	--------------------	-------	----------	-------	----------	----------	-------

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			"	"	"
------------------------	--------	--------	--	--	---	---	---

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.



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 #4-25

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.



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-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.



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 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.



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 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.



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 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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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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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.



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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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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 4I17009 - NO PREP										
Blank (4I17009-BLK1)					Prepared: 09/17/2014 Analyzed: 09/17/2014					
Specific Conductance (EC)	0.00190		mmhos/cm							
Duplicate (4I17009-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 4I17010 - NO PREP										
Duplicate (4I17010-DUP1)					Source: X409154-01 Prepared: 09/17/2014 Analyzed: 09/17/2014					
pH	7.94		pH Units		7.98			0.490	25	

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

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

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.



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

ORIGINS
LABORATORY, INC

X409188

Client: OA
Project Manager/Send Report To: Nikki Graber
Address: 5785 McWhinney
Email Address: ngrab@olssonassociates.com
Project Name/Number: Stelbar 014-1916
Telephone Number: 928-240-1043
Samples Collected By: Nikki

1725 File Page 1 * 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. & Control		
Offsite #1	9/18/14	1143	3 Z1									PH DO, oil grease, Chlorides
Offsite #4	9/18/14	1208	5 BULK									Steel PH, oil grease, Chlorides, DO
11P Blank												BTEX
												MAY not be enough
												volume for
												oil grease run
												last.
Relinquished By: <i>CEL</i>	Date: 9/18/14	Time: 1605		Received By: <i>CEL</i>				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:	

Date Results Needed: 9/19

Comments:

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 #: 32A

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

Cooler Number/Temperature: 1 / 18.3 °C 1 / 1 °C 1 / 1 °C (Describe) 1 °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 volatiles in water – is there headspace (> ½ 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 ensure sample integrity/pH < 2 for samples preserved with HNO ₃ , HCL, 1:2504) / (pH > 10 for samples preserved with NaAsO ₂ +NaOH, ZnAc+NaOH)	<input checked="" type="checkbox"/>			HCL
Additional Comments (if any): Organics (DEQ, BTEX) for Samples 00516, 00517, and Trip Blank were received in incorrect sample containers (Poly). Noelle D. confirmed with Nikki G. via phone conversation to transfer samples to correct containers and proceed with analysis. 9/18/14 Jeff Smith				

⁽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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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

9/18/2014 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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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

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			"	"	"

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 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			

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 4I18012 - EPA 5030B (Water)

LCS (4I18012-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.



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 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.



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 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			

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
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

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.



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 4I18017 - NO PREP

Duplicate (4I18017-DUP1)

Source: X409188-01

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

pH	7.42		pH Units		7.46			0.511	200	
----	------	--	----------	--	------	--	--	-------	-----	--

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

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.



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

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



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

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

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page 1 of 1

ORIGINS
LABORATORY, INC

X409999

Client: OA
Address: 5285 McWhinney
Lowland
Telephone Number: 928 240 1043
Project Manager/Send Report To: Nikki Ben Higgins
Email Address: ngreber@olssonassociates.com, bhiggins@olssonassociates.com
Project Name/Number: Stelbar
Samples Collected By: Nikki

1725 Elk Place | Denver, CO 80202 | Phone: 303.433.1322 | Fax: 303.265.9645

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix			Analysis/Method	Sample Instructions
				Unpreserved	HCl	HNO ₃	Groundwater	Soil	Air Sampling Container	Other		
Office #4	9/19/14	0909	2	1	1						07 + 60 sec	Provided Extra Jar
Relinquished By: <u>[Signature]</u>	Date: <u>9/19/14</u>	Time: <u>1053</u>	Received By: <u>Jim Warden</u>	Date: <u>9/19</u>	Time: <u>11:15</u>	Turnaround Time: Same Day <input type="checkbox"/> 24 Hr <input checked="" type="checkbox"/>						
Relinquished By: <u>Jim Warden</u>	Date: <u>9/19</u>	Time: <u>1:00</u>	Received By: <u>[Signature]</u>	Date: <u>9-19-14</u>	Time: <u>1300</u>	48 Hr <input type="checkbox"/> 72 Hr <input type="checkbox"/> Standard <input type="checkbox"/> 19						

Comments:

Date Results Needed:

Origins Laboratory, Inc.

[Signature]

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: 2409199

Client: Olsson Associates

Client Project ID: Stelbar

Checklist Completed by: Jon Pellegrini

Shipped Via: H/D

Date/time completed: 9-19-14 1315

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

Airbill #: N/A

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

Cooler Number/Temperature: 1 / 19 °C 1 °C 1 °C (Describe) °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⁾ ?	<u>X</u>			
Is there ice present (document if blue ice is used)	<u>X</u>			
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)		<u>X</u>		
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)		<u>✓</u>		
Were all samples received intact ⁽¹⁾ ?	<u>X</u>			
Was adequate sample volume provided ⁽¹⁾ ?	<u>X</u>			
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?		<u>X</u>		
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	<u>X</u>			
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	<u>X</u>			
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	<u>X</u>			
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	<u>X</u>			
For volatiles in water – is there headspace (> ½ inch bubble) present? If yes, contact client and note in narrative.			<u>X</u>	
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 ensure sample integrity) / (pH < 2 for samples preserved with HNO ₃ , HCL, H ₂ SO ₄) / (pH > 10 for samples preserved with Na ₂ SO ₃ -NaOH, ZnAc+NaOH)	<u>X</u>			<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.

[Signature]
Reviewed by (Project Manager)

7/22/14
Date/Time Reviewed

Origins Laboratory, Inc.

[Signature]

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		Units	Dilution	Batch	Prepared	Analyzed	Notes
		Limit							

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



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

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.

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

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X410155

page 1 of 1

Client: Olsson
Project Manager/Send Report To: Nikki Graber
Address: 4690 Table Mountain Drive
Golden, CO 80403

Telephone Number: 728.240.1043
Email Address:
Project Name/Number: Stelbar 014-1916
Samples Collected By: Nikki Graber

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix			Analysis/Method	Sample Instructions
				Unpreserved	HCl	HNO ₃	Other	Groundwater	Soil	Air Summer Conifer #		
Leach-1	10/14	1303	9	27				X			6131, GRC, DRC, Catechism, P, Catechism	11 2
GRL-1	10/14	1409	9	27				X			11	11 2
												3
												4
												5
												6
												7
												8
												9
												10
Relinquished By: 	Date: 10/14/14	Time: 1517		Received By: 	Date: 10/14/14	Time: 1517		Turnaround Time:  24 Hr <input checked="" type="checkbox"/>				
Relinquished By: 	Date: 10/16/14	Time: 5:15 PM		Received By: 	Date: 10/15/14	Time: 1725		48 Hr <input type="checkbox"/> 72 Hr <input type="checkbox"/> Standard <input type="checkbox"/>				4.5

Date Results Needed:

Comments:

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: 8410155

Client: OLSSON

Client Project ID: Stelbar 014-1916

Checklist Completed by: David Mathis

Shipped Via: _____

(UPS, FedEx, Hand Delivered, Pickup, etc.)

Date/time completed: 6-15-14 1604

Airbill #: _____

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

Cooler Number/Temperature: 5151 °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 ^{1,2} ?	<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 ^{1,2} ?	<input checked="" type="checkbox"/>			
Was adequate sample volume provided ^{1,2} ?	<input checked="" type="checkbox"/>			
Are short holding time analytes or samples with HTs due within 48 hours present ^{1,2} ?	<input checked="" type="checkbox"/>			pH - Exposed upon Receipt
Is a chain-of-custody (COC) present and filled out completely ^{1,2} ?	<input checked="" type="checkbox"/>			
Does the COC agree with the number and type of sample bottles received ^{1,2} ?	<input checked="" type="checkbox"/>			
Do the sample IDs on the bottle labels match the COC ^{1,2} ?	<input checked="" type="checkbox"/>			
Is the COC properly relinquished by the client with date and time recorded ^{1,2} ?	<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 ^{1,2} ? (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 O ₂ +NaOH, ZnAc+NaOH)	<input checked="" type="checkbox"/>			HCL - 0.0A 0/9
Additional Comments (if any):				

^{1,2}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

10-10-14 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	Units	Dilution	Batch	Prepared	Analyzed	Notes
		Limit						

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	Units	Dilution	Batch	Prepared	Analyzed	Notes
		Limit						

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.



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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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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
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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
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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
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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
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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	

Origins Laboratory, Inc.



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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

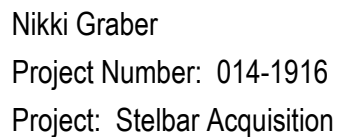
Anions by E300.0 - Quality Control XENCO

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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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	

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

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.

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

www.originslaboratory.com

95101hx

ORIGINS

page 1 of 1

Client: Osman Associates
Address: 4440 Tule Hill Dr. Ste. 200
Golden, CO 80603
Telephone Number: 303-237-2012

Project Manager/Send Report To: Wally Gubler
Email Address: wgubler@osmanassociates.com
Project Name/Number: Tule Hill CH-1916
Samples Collected By: Jason Davidson

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix			Analysis/Method					Sample Instructions
				Unpreserved	HCl	HNO ₃	Other	Groundwater	Soil	Air Summer	Other	BTEX	GRD	DRC	Oil/Grease	
AW-1	10/15/14	3:12	6	2	6			X			X	X	X	X	X	1
AW-2	↓	2:30	↓	↓	↓			↓			X	X	X	X	X	2
Verde-1	↓	8:06	↓	↓	↓			↓			X	X	X	X	X	3
																4
																5
																6
																7
																8
																9
																10
Reinquired By: <i>[Signature]</i>	Date: 10/15/14	Time: 5:55pm														Turnaround Time: Same Day <input type="checkbox"/> 24 Hr <input checked="" type="checkbox"/> 48 Hr <input type="checkbox"/> 72 Hr <input type="checkbox"/> Standard <input type="checkbox"/> 58
Reinquired By: <i>[Signature]</i>	Date: 10/15/14	Time: 5:55pm														Turnaround Time: Same Day <input type="checkbox"/> 24 Hr <input checked="" type="checkbox"/> 48 Hr <input type="checkbox"/> 72 Hr <input type="checkbox"/> Standard <input type="checkbox"/> 58

Comments:

Date Results Needed:

Origins Laboratory, Inc.

Jose 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: X410156 Client: OLSSON
Client Project ID: Stelbar
Checklist Completed by: David Mathis Shipped Via: (UPS, FedEx, Hand Delivered, Pick-up, etc.)
Date/time completed: 10-15-14 1803 Airbill #: _____
Matrix(s) Received: (Check all that apply): Soil/Solid X 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 ^{1/2} ?	<u>X</u>			
Is there ice present (document if blue ice is used)?	<u>X</u>			
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)		<u>X</u>		
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)		<u>X</u>		
Were all samples received intact ^{1/2} ?	<u>X</u>			
Was adequate sample volume provided ^{1/2} ?	<u>X</u>			
Are short holding time analytes or samples with HTs due within 48 hours present ^{1/2} ?	<u>X</u>			<u>8 hr</u>
Is a chain-of-custody (COC) present and filled out completely ^{1/2} ?	<u>X</u>			
Does the COC agree with the number and type of sample bottles received ^{1/2} ?	<u>X</u>			
Do the sample IDs on the bottle labels match the COC ^{1/2} ?	<u>X</u>			
Is the COC properly relinquished by the client with date and time recorded ^{1/2} ?	<u>X</u>			
For volatiles in water – is there headspace (> 1/4 inch bubble) present? If yes, contact client and note in narrative.		<u>X</u>		
Are samples preserved that require preservation and was it checked ^{1/2} ? (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)	<u>X</u>			<u>HCL-VOA + O/G</u>
Additional Comments (if any):				

^{1/2}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 (Project Manager): [Signature]

Date/Time Reviewed: 10/16/14 14:24

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

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	Units	Dilution	Batch	Prepared	Analyzed	Notes
		Limit						

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.



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-2

10/15/2014 2:30:00PM

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Notes
		Limit						

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.



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

Greene-1

10/15/2014 8:46:00AM

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Notes
		Limit						

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.



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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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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	

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

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.



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.



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



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

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: VS02028

Client: Olsson Associates

Client Project ID: Stelbar Risk Assessment

Checklist Completed by: Jeff Smith

Shipped Via: H/D
(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: (Describe)

Cooler Number/Temperature: 1 7.6 °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 ≤ 6°C ⁽¹⁾ ?		<input checked="" type="checkbox"/>		<u>Sampled Some Dry</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>Anions</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 HNO ₃ , HCL, H ₂ SO ₄) / (pH >10 for samples preserved with NaAsO ₂ +NaOH, ZnAc+NaOH)	<input checked="" type="checkbox"/>			<u>HCL, H₂SO₄</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) [Signature] Date/Time Reviewed 02-05-15

Origins Laboratory, Inc.

[Signature]

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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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

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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

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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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

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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
Surrogate: 2,4,6-Tribromophenol	77 %	33-126			"	"	"	
Surrogate: 2-Fluorobiphenyl	63 %	35-102			"	"	"	
Surrogate: 2-Fluorophenol	30 %	18-84			"	"	"	
Surrogate: Nitrobenzene-d5	63 %	38-113			"	"	"	
Surrogate: Phenol-d5	19 %	10-110			"	"	"	
Surrogate: p-Terphenyl-d14	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	"	"	"	"	"	

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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	"	"	"	"	"

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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	"	"	"	"	"

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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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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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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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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	"

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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)

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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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
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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Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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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Olsson Associates
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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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
Diesel (C10-C28)	82.2	5.0	"

78.3

69-125

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
Diesel (C10-C28)	93.7	5.0	"

ND

2.6

89.9

91.1

70-127

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
Diesel (C10-C28)	91.3	5.0	"

ND

2.6

84.4

88.7

70-127

54-126

6.23

2.60

20

20

Surrogate: o-Terphenyl

4.8

"

5.00

96.4

54-117

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Nikki Graber
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Project: Stelbar Risk Assessment

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

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 (CaCO ₃)	ND	1.00	mg/L				-			U
Carbonate alkalinity (CaCO ₃)	ND	1.00	"				-			U

LCS (1203258935-BKS)

Prepared: Analyzed: 02/06/2015

Alkalinity, Total as CaCO ₃	47.1	1.00	mg/L	50.0		94.3	90-110			
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Golden CO 80403

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

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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Project: Stelbar Risk Assessment

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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Nikki Graber
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Project: Stelbar Risk Assessment

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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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

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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Nikki Graber
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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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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

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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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

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			

Origins Laboratory, Inc.



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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			
Benzidine	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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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

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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4690 Table Mountain Drive
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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
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
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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TDS by SM2540C - 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 1455424 -

BLANK (1203258336-BLK)

Prepared: Analyzed: 02/05/2015

Total Dissolved Solids	ND	14.3	mg/L				-			U
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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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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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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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