

**Remediation Documentation  
Report – CS-47B  
(COGCC SPILL #10501)**

Rangely Weber Sand Unit  
Collection Station 47  
Pit CS-47B (COGCC Spill #10501)  
Rio Blanco County, Colorado



**Submitted to:**

Kris Neidel  
State of Colorado Oil and Gas  
Conservation Commission  
796 Megan Avenue, Suite 201  
Rifle, CO 81650

**Submitted by:**

Stantec Consulting Services Inc.  
2000 South Colorado Blvd.  
Suite 2-300  
Denver, CO 80222

**On Behalf of:**

Adriane Gifford  
Chevron Environmental  
Management Company  
1500 Louisiana St.  
Houston, TX 77002

January 6, 2019

## Table of Contents

<b>1.0</b>	<b>INTRODUCTION .....</b>	<b>1.1</b>
1.1	OBJECTIVES.....	1.1
<b>2.0</b>	<b>REMEDIAL EXCAVATION .....</b>	<b>2.2</b>
2.1	MONITORING WELL ABANDONMENT .....	2.2
2.2	EXCAVATION ACTIVITIES .....	2.2
<b>3.0</b>	<b>MONITORING WELL REPLACEMENT.....</b>	<b>3.4</b>
3.1	WELL DEVELOPMENT .....	3.4
<b>4.0</b>	<b>GROUNDWATER SAMPLING .....</b>	<b>4.5</b>
4.1	GROUNDWATER ANALYSIS .....	4.5
4.2	GROUNDWATER ANALYTICAL RESULTS.....	4.5
<b>5.0</b>	<b>CONCLUSIONS AND RECOMMENDATIONS.....</b>	<b>5.7</b>
5.1	RECOMMENDATIONS.....	5.7
<b>6.0</b>	<b>LIMITATIONS .....</b>	<b>6.8</b>

## LIST OF TABLES

Table 1	..... Soil Sample Results for Organic Compounds – Borrow Source Data
Table 2	Soil Sample Results for Inorganic Compounds and Metals – Borrow Source Data
Table 3	..... Summary of Depth to Groundwater and Liquid Hydrocarbon Thickness
Table 4	..... Groundwater Sample Results

## LIST OF FIGURES

Figure 1	..... Site Map
Figure 2	..... CS-47B As-built Excavation Details
Figure 3	..... Potentiometric Surface - 4th Quarter 2018
Figure 4	..... 2018 Groundwater Analytical Data

## LIST OF APPENDICES

Appendix A	..... Site Background
Appendix B	..... Well Abandonment Report
Appendix C	..... Soil Disposal Records
Appendix D	..... Liquid Disposal Records
Appendix E	..... Borrow Source Analytical Report
Appendix F	..... Photographic Records
Appendix G	..... Monitoring Well Installation Permit Application
Appendix H	..... Monitoring Well Construction Log
Appendix I	..... 2018 Groundwater Analytical Reports



# REMEDIATION DOCUMENTATION REPORT – CS-47B (COGCC SPILL #10501)

Introduction  
January 6, 2019

## 1.0 INTRODUCTION

Stantec Consulting Services Inc. (Stantec), on behalf of Chevron Environmental Management Company (Chevron), is pleased to provide the Colorado Oil and Gas Conservation Commission (COGCC) with this Remediation Documentation Report (Documentation Report) for Rangely Collection Station 47, Pit CS-47B (registered as Remediation Project No. 10501) in Rio Blanco County, Colorado (the Site; **Figure 1**).

Following the decommissioning of Pit CS-47, a secondary collection pit (Pit CS-47B) was identified. The report herein provides documentation of the soil abatement scope of work and groundwater monitoring activities executed during 2018 per the *Soil and Groundwater Characterization Report – Pit CS-47B*, dated April 10, 2018, and the *Remedial Excavation Work Plan* (Work Plan), dated June 26, 2018. For a detailed Site background, reference **Appendix A**.

### 1.1 OBJECTIVES

The objectives of the remedial excavation activities were:

- Obtain regulatory closure of Pit CS-47B (Remediation Project No. 10501); and
- Collect groundwater samples to demonstrate compliance with COGCC Table 910-1 concentration levels (Concentration Levels).

# REMEDIAL DOCUMENTATION REPORT – CS-47B (COGCC SPILL #10501)

Remedial Excavation  
January 6, 2019

## 2.0 REMEDIAL EXCAVATION

### 2.1 MONITORING WELL ABANDONMENT

Monitoring well (MW-01) was located within the remedial excavation boundaries. Prior to excavation, MW-01 was abandoned per State of Colorado rules and regulations for water well construction, pump installation, cistern installation, and monitoring and observation hole/well construction (2 CCR 402-2). A copy of the well abandonment report submitted to the State of Colorado Division of Water Rights is included as **Appendix B**. Well replacement activities, following the remedial excavation, are discussed in Section 3.0 of this report.

### 2.2 EXCAVATION ACTIVITIES

Excavation of Pit CS-47B was conducted to remove soils above Concentration Levels. The excavation was completed between September 19 and October 4, 2018. Work activities were conducted in accordance with the approved Work Plan. The following provides an overview of the executed excavation process:

- Using a combination of heavy equipment and survey staking in the field, the clean overburden material within the excavation envelope was stripped and stockpiled.
- Based on results of previous soil assessment activities, soils with petroleum hydrocarbon (TPH) concentrations exceeding Concentration Levels were removed from the ground surface to groundwater. Visual observations also supported the Site assessment data. No staining or odor was present at the horizontal extents of the excavation. Limits of the remedial excavation are provided in **Figure 2**.
- Approximately 1,430 cubic yards of excavated soils were direct loaded into 10-yard dump trucks for transportation to Chevron's Landfarm (Facility ID 149001). Landfarm waste hauling tickets are provided in **Appendix C**.
- Scrap piping, from assumed pit decommissioning activities, were encountered during the remedial excavation. Piping free from staining and hydrocarbon odors, located within the limits of clean overburden soils, were hauled to Chevron's scrap metal pile. Piping contained within impacted soils were hauled to Chevron's Landfarm and washed thoroughly prior to placing in Chevron's scrap metal pile.
- To remove any localized liquid hydrocarbons associated with the pit, three groundwater sumps were dug into the excavation floor (**Figure 2**). Approximately 50 barrels (2,100 gallons) of accumulated groundwater and liquid hydrocarbons were removed using a vacuum truck. Throughout the process, only slight traces of liquid

## REMEDIAL DOCUMENTATION REPORT – CS-47B (COGCC SPILL #10501)

Remedial Excavation  
January 6, 2019

hydrocarbons were observed on the groundwater surface. Following water extraction, liquid hydrocarbons did not return to the sumps. The liquid mixture was hauled to Chevron's oil/water separator for processing. Liquid waste hauling tickets are provided in **Appendix D**.

- Using a combination of heavy equipment and survey staking in the field, the excavation was divided into 10 sections and 10 tons of calcium nitrate was placed on the excavation floor and mixed into the gravel layer to enhance ongoing biodegradation of any residual hydrocarbons that may remain in groundwater.
- Approximately 1,930 yards of backfill material were hauled from a soil stockpile at Collection Station 39 (CS-39) to CS-47B. Samples were collected from the soil stockpile material and results were less than Concentration Levels, with the exception of arsenic, sodium absorption ratio (SAR), and electrical conductivity. Since these analytes were only slightly above Concentration Levels and the exceedances did not impact the future use of the facility, the COGCC approved the soil stockpile material for use as backfill in an email dated October 1, 2018. Tabulated analytical results are shown on **Tables 1 and 2** and the American West Analytical Labs (AWAL) laboratory report is included in **Appendix E**.

Photographic documentation of the excavation activities is included in **Appendix F**.

## REMEDICATION DOCUMENTATION REPORT – CS-47B (COGCC SPILL #10501)

Monitoring Well Replacement  
January 6, 2019

### 3.0 MONITORING WELL REPLACEMENT

Following the remedial excavation of Pit CS-47B, replacement monitoring well MW-01R was installed to replace decommissioned well MW-01 and was placed approximately 15-feet northeast of MW-01. The location of MW-01R was moved to the area where field observations during the remedial excavation indicated hydrocarbon impacts were the highest. The new monitoring well was installed by Cascade Drilling, Inc. on November 6, 2018, under the supervision of Stantec, using hollow stem auger drilling techniques. MW-01R was drilled to a depth of 19.7 feet below ground surface (ft bgs). The well was screened from approximately 4.1 to 19.1 ft bgs and the groundwater level was recorded at 14.02 ft bgs.

The replacement well was constructed with threaded 4-inch schedule 40 polyvinyl chloride (PVC) casing and screen with 0.010-inch slots. A filter pack of size 10 to 20 silica sand (washed sand) was placed in the borehole from the bottom of the well to approximately 1 foot above the screen. The remainder of the boring was filled with hydrated bentonite, followed by a concrete surface seal. MW-01R has a stick-up casing and is secured with a locking steel protective casing anchored in the concrete. The Monitoring Water Well Permit Application and a Well Construction Log were submitted to the State of Colorado's Division of Water Rights. The forms are presented in **Appendices G and H**, respectively.

### 3.1 WELL DEVELOPMENT

Monitoring well MW-01R was developed the week of November 6, 2018 using surge and purge methods to enhance communication with the water bearing zone. Prior to development, the depth to groundwater and total well depth were measured to determine the quantity of water within the well casing. Well development activities were completed using a surge block and bailer to remove fines from the well screen.

## REMEDICATION DOCUMENTATION REPORT – CS-47B (COGCC SPILL #10501)

Groundwater Sampling  
January 6, 2019

### 4.0 GROUNDWATER SAMPLING

Comprehensive gauging events of all Site wells were conducted on June 16, September 21, and November 28, 2018. Current and historical groundwater elevation data are presented in **Table 3**. Stantec generated a groundwater elevation contour map from the November 2018 gauging data, which is shown on **Figure 3**. The groundwater flow direction was primarily to the west towards the White River, which is consistent with historical flow directions.

Groundwater samples from all Site wells, including newly installed well MW-01R, were collected following the removal of three-well volumes using a disposable bailer. These methods were consistent with COGCC's Model Sampling and Analysis Plan Rules 609 and 318.e (4).

#### 4.1 GROUNDWATER ANALYSIS

Groundwater samples were collected in sample containers appropriate for the specified analyses, sealed, labeled, and placed into an ice-filled cooler for preservation. Groundwater samples were transported via a lab courier and submitted under chain-of-custody protocol for the following analyses:

- Total petroleum hydrocarbons as diesel range organics (TPH-DRO) by United States Environmental Protection Agency (EPA) Method 8015B;
- Total petroleum hydrocarbons as gasoline range organics (TPH-GRO) by EPA Method 8015D;
- Benzene, toluene, ethylbenzene, and total xylenes (BTEX) by EPA Method 8260B; and
- Chloride and sulfate by EPA Method 9056A.

#### 4.2 GROUNDWATER ANALYTICAL RESULTS

Current and historical groundwater sample analytical results are summarized in **Table 4**. The 2018 analytical reports are included in **Appendix I** and concentrations for benzene, chloride, and sulfate are presented on **Figure 4**. Groundwater analytical results were compared to the Concentration Levels; a summary of the 2018 groundwater monitoring results are provided below:

- Except for MW-01, liquid hydrocarbons were not observed in any of the monitoring wells. Liquid hydrocarbons were observed in MW-01 in June 2018 at a thickness of 0.05 feet and September 2018 at a thickness of 0.19 feet. Following the remedial excavation and re-installation of MW-01 (MW-01R), liquid hydrocarbons were not observed in MW-01R during the November 2018 gauging event.
- BTEX concentrations in all monitoring wells were less than the Concentration Levels.

**REMEDIATION DOCUMENTATION REPORT – CS-47B  
(COGCC SPILL #10501)**

Groundwater Sampling  
January 6, 2019

- TPH-GRO was non-detect or near non-detect levels for all monitoring wells except for MW-01. MW-01 had a concentration of 1.1 milligrams per liter (mg/L) in June 2018 and MW-01R was non-detect in November 2018 following the remedial excavation. TPH-DRO was detected at all monitoring wells. The maximum TPH-DRO concentration in MW-02 through MW-06 and TW-01 was 0.66 mg/L. The TPH-DRO concentration in MW-01 was 490 mg/L in June 2018, which was reduced to 1.1 mg/L, in MW-01R, following the remedial excavation activities. COGCC does not have any Concentration Levels for dissolved TPH in groundwater.
- Chloride concentrations at monitoring wells MW-01, MW-03, MW-05, and MW-06 (ranged from 730 mg/L to 870 mg/L) exceeded the Concentration Level of 562.5 mg/L, which was based on 1.25 times the concentration of chloride at MW-02 (450 mg/L) on September 21, 2018.
- All sulfate concentrations were less than Concentration Levels except for MW-06. Sulfate concentrations at MW-06 (2,200 mg/L) slightly exceed the Concentration Level of 2,000 mg/L, which was based on 1.25 times the concentration of sulfate at MW-02 (1,600 mg/L) on September 21, 2018.

## REMEDIATION DOCUMENTATION REPORT – CS-47B (COGCC SPILL #10501)

Conclusions and Recommendations  
January 6, 2019

### 5.0 CONCLUSIONS AND RECOMMENDATIONS

Excavation of Pit CS-47B was conducted to remove soils above Concentration Levels. Based on the soil characterization data, field observations, and surveyed extents of the remedial excavation, all hydrocarbon-impacted vadose soil associated with Pit CS-47B was removed, as shown on **Figure 2**.

Groundwater gauging events conducted in 2018 indicate that localized liquid hydrocarbons present at MW-01 in June and September 2018 were mitigated through groundwater extraction activities conducted during the remedial excavation. This conclusion is supported by non-detect results, within MW-01R, that were observed during the gauging event in November 2018.

All groundwater samples collected in 2018 were less than Concentration Levels for BTEX and only slight exceedances for chloride and sulfate were present. Both chloride and sulfate concentrations are near the Site Background Levels, as defined by monitoring well MW-02. With the remedial excavation of Pits CS-47A and CS-47B, these concentrations are expected to reduce and stabilize to background levels.

#### 5.1 RECOMMENDATIONS

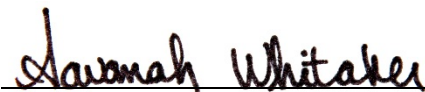
Remedial activities consisting of excavation and off-site disposal of impacted soil and groundwater extraction adhered to remediation guidelines provided in the COGCC Series 900 Rules and the approved Work Plan. Considering on-site soil and concentrations of BTEX in groundwater are less than Concentration Levels and sulfate and chloride in ground water are near background levels, Chevron is requesting closure of COGCC Remediation Project No. 10501.

**REMEDIATION DOCUMENTATION REPORT – CS-47B  
(COGCC SPILL #10501)**

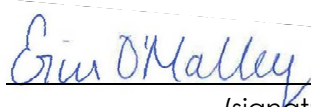
Limitations  
January 6, 2019

## 6.0 LIMITATIONS

This report was prepared in accordance with the scope of work outlined in Stantec's contract and with generally accepted professional engineering and environmental consulting practices existing at the time this report was prepared and applicable to the location of the site. It was prepared for the exclusive use of Chevron for the express purpose stated above. Any re-use of this report for a different purpose or by others not identified above shall be at the user's sole risk without liability to Stantec. To the extent that this report is based on information provided to Stantec by third parties, Stantec may have made efforts to verify this third-party information, but Stantec cannot guarantee the completeness or accuracy of this information. The opinions expressed and data collected are based on the conditions of the site existing at the time of the field investigation. No other warranties, expressed or implied are made by Stantec.

Prepared by   
(signature)

**Savannah Whitaker**  
Engineer in Training

Reviewed by   
(signature)

**Erin O'Malley**  
Environmental Engineer

Approved by   
(signature)

**Brent Lucyk**  
Senior Geologist



## TABLES

Table 1  
Soil Sample Results for Organic Compounds - Borrow Source Data  
Chevron Rangely CS47, Rangely, Colorado

Sample ID	Sample Depth (feet bgs)	Sample Date	TPH GRO (C6-C10)	TPH DRO (C10-C28)	Total TPH	Benzene	Toluene	Ethylbenzene	Total Xylenes	Acenaphthene	Anthracene	Benzo(a) anthracene	Benzo(a) pyrene	Benzo(b) fluoranthene	Benzo(k) fluoranthene	Chrysene	Dibenzo(a,h) anthracene	Fluoranthene	Fluorene	Indeno (1,2,3-cd) pyrene	Naphthalene	Pyrene
			(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
COGCC Allowable Concentrations and Levels			--	--	500	0.17	85	100	175	1,000	1,000	0.22	0.022	0.22	2.2	22	0.022	1,000	1,000	0.22	23	1,000
Analytical Method			SW8015	SW8015	SW8015	SW8260	SW8260	SW8260	SW8260	SW8270	SW8270	SW8270	SW8270	SW8270	SW8270	SW8270	SW8270	SW8270	SW8270	SW8270	SW8270	SW8270
CS39-STPL	stockpile	08/14/18	<0.0205	<21.0	<21.0	<0.00103	<0.00205	<0.00205	<0.00205	<0.00706	<0.00706	<0.0141	0.0104	0.0115	<0.00706	0.00962	<0.00706	0.0246	<0.00706	0.00779	<0.00706	0.0216

**Notes:**  
Concentrations in **BOLD** are above the Colorado Oil and Gas Conservation Commission (COGCC) Series 900 Allowable Concentrations.  
TPH: total petroleum hydrocarbons  
GRO: gasoline range organics  
DRO: diesel range organics  
mg/kg: milligrams per kilogram  
-- : Not available  
<: represent concentrations below the test method limit unless otherwise noted

Table 2  
Soil Sample Results for Inorganic Compounds and Metals - Borrow Source Data  
Chevron Rangely CS47, Rangely, Colorado

Sample ID	Sample Depth (feet bgs)	Sample Date	Percent Moisture	Electrical Conductivity	pH	Temp Deg C @pH	Sodium Absorption Ratio	Arsenic <sup>1</sup>	Barium, Total	Boron	Cadmium	Calcium	Chromium	Chromium (III)	Chromium (VI)	Copper	Lead	Magnesium	Mercury	Nickel	Selenium	Silver	Sodium	Zinc
			wt (%)	(mmhos/cm @25 <sup>0</sup> C)	(STD Units)	°C	meq/meq	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/L)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/L)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/L)
COGCC Allowable Concentrations and Levels			--	<4	6-9	--	<12	0.39	15,000	2	70	--	120,000	120,000	23	3,100	400	--	23	1,600	390	390	--	23,000
Analytical Method			ASTM D2216	LaDNR-29B EC	SW9045B	SW9045B	La29B SAR	SW6020	LADNR Ba	SW6020	SW6020	La29B-6020	SW6020	Calculation	SW7196	SW6020	SW6020	La29B-6020	SW7471A	SW6020	SW6020	SW6020	La29B-6020	SW6020
CS39-STPL	stockpile	08/14/18	5.54	14.200	8.49	25	26.6	6.81	170	<20.4	<0.511	--	--	16	2.11	<15.3	14.6	--	<0.0407	17.3	<2.04	<0.307	--	65.8

**Notes:**  
Except where otherwise noted, concentrations in **BOLD** are above the Colorado Oil and Gas Conservation Commission (COGCC) Series 900 Allowable Concentrations.  
wt (%): percent weight  
mmhos/cm: millimhos per centimeter  
STD Units: Standard Units  
°C: degrees Celcius  
meq/meq: milliequivalents per milliequivalent  
mg/kg: milligrams per kilogram  
mg/L: milligrams per liter  
-- : not available  
NA: not analyzed  
<: represent concentrations below the test method limit unless otherwise noted  
<sup>1</sup>: For arsenic, concentrations in **BOLD** are above the project-specific target concentration. The default COGCC Series 900 Allowable Concentration for arsenic is 0.39 mg/kg.

**Table 3**  
**Summary of Depth to Groundwater and Liquid Hydrocarbon Thickness**  
**Chevron Rangely CS47, Rangely, Colorado**

Well Number	Date Measured	TOC Elevation (feet AMSL)	Groundwater Elevation (feet AMSL)	Depth to Water (feet below TOC)	PSH Elevation (feet AMSL)	Depth to PSH (feet below TOC)	LNAPL Thickness (feet)	Potentiometric Surface (ASML)
MW-01	1/16/2017	5206.71	5192.92	13.79	5192.97	13.74	0.05	5192.95
	6/12/2017		5193.56	13.15	5193.57	13.14	0.01	5193.56
	9/14/2017		5192.59	14.12	5192.61	14.10	0.02	5192.60
	12/12/2017		5192.46	14.25	5192.48	14.23	0.02	5192.47
	6/16/2018		5192.71	14.00	5192.76	13.95	0.05	5192.74
	9/17/2018		5191.40	15.31	5191.59	15.12	0.19	5191.54
MW-01R	11/28/2018	5205.52	5191.73	13.79	NA	NA	0.00	5191.73
MW-02	1/16/2017	5206.43	5193.53	12.90	NA	NA	0.00	5193.53
	6/12/2017		5193.99	12.44	NA	NA	0.00	5193.99
	9/14/2017		5192.82	13.61	NA	NA	0.00	5192.82
	12/12/2017		5192.97	13.46	NA	NA	0.00	5192.97
	6/16/2018		5193.08	13.35	NA	NA	0.00	5193.08
	9/21/2018		5191.90	14.53	NA	NA	0.00	5191.90
	11/28/2018		5192.21	14.22	NA	NA	0.00	5192.21
MW-03	1/16/2017	5204.41	5192.27	12.14	NA	NA	0.00	5192.27
	6/12/2017		5192.98	11.43	NA	NA	0.00	5192.98
	9/14/2017		5192.18	12.23	NA	NA	0.00	5192.18
	12/12/2017		5191.98	12.43	NA	NA	0.00	5191.98
	6/16/2018		5192.19	12.22	NA	NA	0.00	5192.19
	9/21/2018		5191.05	13.36	NA	NA	0.00	5191.05
	11/28/2018		5191.20	13.21	NA	NA	0.00	5191.20
MW-04	5/25/2017	5206.11	5193.20	12.91	NA	NA	0.00	5193.20
	6/12/2017		5193.20	12.91	NA	NA	0.00	5193.20
	9/14/2017		5192.40	13.71	NA	NA	0.00	5192.40
	12/12/2017		5192.32	13.79	NA	NA	0.00	5192.32
	6/16/2018		5192.49	13.62	NA	NA	0.00	5192.49
	9/21/2018		5191.26	14.85	NA	NA	0.00	5191.26
	11/28/2018		5191.64	14.47	NA	NA	0.00	5191.64
MW-05	5/25/2017	5205.70	5193.31	12.39	NA	NA	0.00	5193.31
	6/12/2017		5193.31	12.39	NA	NA	0.00	5193.31
	9/14/2017		5192.18	13.52	NA	NA	0.00	5192.18
	12/12/2017		5192.26	13.44	NA	NA	0.00	5192.26
	6/16/2018		5192.46	13.24	NA	NA	0.00	5192.46
	9/21/2018		5191.36	14.34	NA	NA	0.00	5191.36
	11/28/2018		5191.53	14.17	NA	NA	0.00	5191.53
MW-06	12/12/2017	5206.40	5191.96	14.44	NA	NA	0.00	5191.96
	6/16/2018		5192.22	14.18	NA	NA	0.00	5192.22
	9/21/2018		5190.98	15.42	NA	NA	0.00	5190.98
	11/28/2018		5191.15	15.25	NA	NA	0.00	5191.15
TW-01	1/16/2017	5205.79	5192.77	13.02	NA	NA	0.00	5192.77
	6/12/2017		5193.27	12.52	NA	NA	0.00	5193.27
	9/14/2017		5192.11	13.68	NA	NA	0.00	5192.11
	12/12/2017		5192.26	13.53	NA	NA	0.00	5192.26
	6/16/2018		5192.42	13.37	NA	NA	0.00	5192.42
	9/21/2018		5191.37	14.42	NA	NA	0.00	5191.37
	11/28/2018		5191.62	14.17	NA	NA	0.00	5191.62

**Notes:**

TOC: Top of Casing

AMSL: Above mean sea level

LNAPL: Light non-aqueous phase liquid

**Table 4**  
**Groundwater Sample Results**  
**Chevron Rangely CS47, Rangely, Colorado**

Sample Location	Sample Date	Benzene	Toluene	Ethylbenzene	Total Xylenes	TPH-GRO (C6 - C10)	TPH-DRO (C10 - C28)	Chloride <sup>1</sup>	Sulfate <sup>1</sup>
		(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
COGCC Allowable Limits		0.005	1.0	0.7	10	--	--	562.5	2,000
MW-01	1/16/2017	<0.0050	<0.0050	<0.0050	<0.015	4.8	320	1,200	1,100
	5/25/2017	<0.010	<0.010	<0.010	<0.030	<0.20	38	1,100	1,800
	10/6/2017	<0.00084	<0.00064	<0.00058	<0.0015	1.6 J	18	990	920
	12/13/2017	<0.00042	<0.00032	<0.00029	<0.00074	4.8	98	900	1,400
	6/16/2018	<0.200	<0.200	<0.200	<0.400	1.100 F2 F1	490	870	910
MW-01R	11/28/2018	<0.0010	<0.0010	<0.0010	<0.0030	<0.100	1.1	490	1,300
MW-02	1/16/2017	<0.0010	<0.0010	<0.0010	<0.0030	<0.20	<0.10	340	1,300
	5/25/2017	<0.0010	<0.0010	<0.0010	<0.0030	<0.20	1.6	310	1,500
	10/6/2017	<0.00042	<0.00032	<0.00029	<0.00074	<0.076	0.042 J	320	1,300
	12/13/2017	<0.00042	<0.00032	<0.00029	<0.00074	<0.076	0.13	260	1,200
	6/16/2018	<0.0010	0.00019 J	<0.0010	<0.0020	<0.025	0.42	260	1,100
	9/21/2018	<0.0010	<0.0010	<0.0010	0.00042 J	<0.025	0.46	450	1,600
	11/28/2018	<0.0010	<0.0010	<0.0010	<0.0030	<0.100	0.66	260	1,200
MW-03	1/16/2017	<0.0010	<0.0010	<0.0010	<0.0030	<0.20	0.65	1,600	1,300
	5/25/2017	<0.0010	<0.0010	<0.0010	<0.0030	<0.20	0.60	750	1,900
	10/6/2017	<0.00042	0.00046 J	<0.00029	<0.00074	<0.076	<0.040	720	1,800
	12/12/2017	<0.00042	0.00034 J	<0.00029	<0.00074	<0.076	0.13	570	1,600
	6/16/2018	<0.0010	<0.0010	<0.0010	<0.0020	<0.025	0.60	490	1,500
	9/21/2018	<0.0010	<0.0010	<0.0010	<0.0020	<0.025	0.42	530	1,600
	11/28/2018	<0.0010	<0.0010	<0.0010	<0.0030	<0.100	0.13 J	750	1,500
MW-04	5/25/2017	<0.0010	<0.0010	<0.0010	<0.0030	<0.20	<0.50	1,500	1,600
	10/6/2017	0.00056 J	<0.00032	<0.00029	<0.00074	<0.076	<0.040	1,100	1,700
	12/12/2017	0.00062 J	<0.00032	<0.00029	<0.00074	<0.076	0.058 J	830	1,600
	6/16/2018	0.00050 J	0.00019 J	<0.0010	<0.0020	<0.025	0.16 J	530	1,500
	9/21/2018	0.00039 J	0.00022 J	<0.0010	<0.0020	0.010 J	0.27 J	550	1,600
	11/28/2018	0.00020 J	<0.0010	<0.0010	<0.0030	<0.100	0.23 J	510	1,600
MW-05	5/25/2017	<0.0010	<0.0010	<0.0010	<0.0030	<0.20	0.65	680	2,000
	10/6/2017	<0.00042	<0.00032	<0.00029	<0.00074	<0.076	0.052 J	600	1,800
	12/12/2017	<0.00042	<0.00032	<0.00029	<0.00074	<0.076	<0.040	550	1,700
	6/16/2018	<0.0010	<0.0010	<0.0010	<0.0020	<0.025	0.094 J	490	1,500
	9/21/2018	<0.0010	<0.0010	<0.0010	<0.0020	<0.025	0.20 J	730	1,600
	11/28/2018	<0.0010	<0.0010	<0.0010	<0.0030	<0.100	0.16 J	540	1,500
MW-06	12/13/2017	0.00098 J	0.00056 J	<0.00029	<0.00074	<0.076	0.39	1,000	1,700
	6/16/2018	0.00020 J	0.00021 J	<0.0010	<0.0020	0.011 J	0.16 J	870	1,900
	9/21/2018	0.00017 J	0.00024 J	<0.0010	0.00042 J	<0.025	0.25	850	2,100
	11/28/2018	<0.0010	<0.0010	<0.0010	<0.0030	<0.100	0.16 J	820	2,200
TW-01	1/16/2017	<0.0010	<0.0010	<0.0010	<0.0030	<0.20	0.17	360	1,300
	5/25/2017	<0.0010	<0.0010	<0.0010	<0.0030	<0.20	<0.50	320	1,300
	10/6/2017	<0.00042	<0.00032	<0.00029	<0.00074	<0.076	0.099 J	320	1,200
	12/13/2017	0.00065 J	0.00044 J	<0.00029	<0.00074	<0.076	0.28	330	1,200
	6/16/2018	<0.0010	<0.0010	<0.0010	<0.0020	<0.025	0.18 J	320	1,300 B
	9/21/2018	<0.0010	<0.0010	<0.0010	<0.0020	0.017 J	0.37	320	1,200
	11/28/2018	<0.0010	<0.0010	<0.0010	<0.0030	<0.100	0.16 J	340	1,300

**Notes:**

Concentrations in **BOLD** are above the Colorado Oil and Gas Conservation Commission (COGCC) Series 900 Allowable Limits.

TPH: total petroleum hydrocarbons

GRO: gasoline range organics

DRO: diesel range organics

mg/L: milligrams per liter

-- : Not available

<: represent concentrations below the test method limit unless otherwise noted

<sup>1</sup>: Criteria for chloride and sulfate are based on COGCC Allowable Limits of 1.25 x's background.

Concentrations for up-gradient well MW-2 (9/21/18) used as background concentrations.

F1: MS and/or MSD recovery is outside acceptable limits.

F2: MS/MSD RPD exceeds control limits.

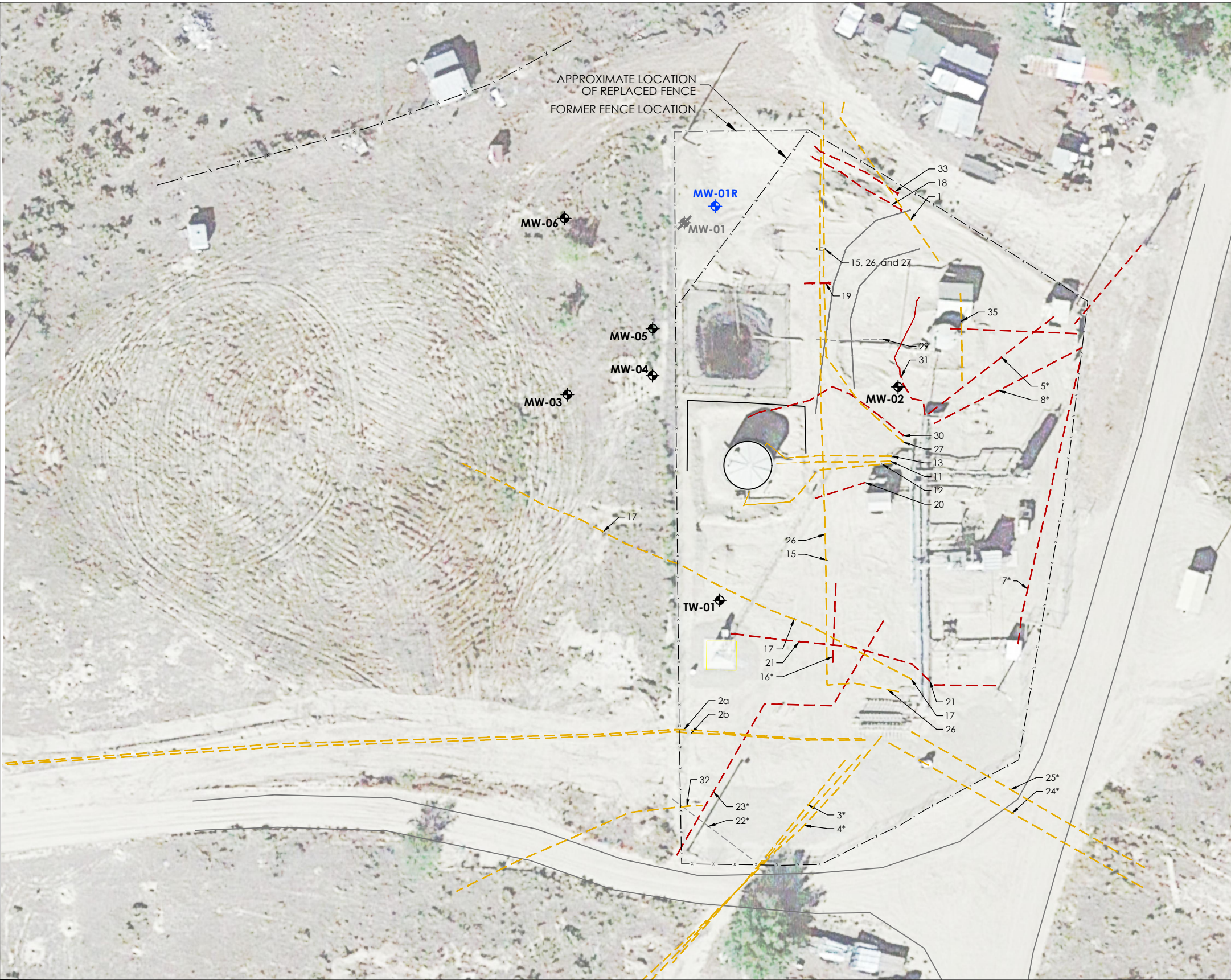
J : Analyte is present at an estimated concentration between the MDL and Report Limit

B: Compound was found in the blank and sample.

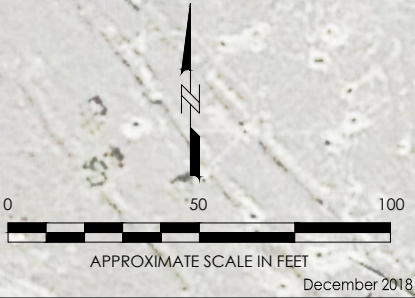
## FIGURES



H:\CHEVRON\RANGLEY, CO\CS-47\08\_DRAWINGS\2018\DWG\_182603866\_CS47B DOC RPT\_2018.DWG  
12/19/2018 1:14 PM



#	LINE	SIZE	TYPE
1	Produce Water	6	Fiberglass
2a	Rector 12X Flowlines	3	Fiberglass
2b	WH Coltharp A-5-X	3	Fiberglass
3	HEFLEY Header Bulk & Test	3&4	Fiberglass
4	WYCOLTHARP A-6X	3	Fiberglass
5	Instrument Air	2	Galvanized
6	Pipe Rack	Various	SS & CS
7	Electrical 480V	3	Conduit
8	Electrical	1	Steel
9	Pit Overflow Line	6	Unknown
10	CS Fence	8	Steel & Chain
11	Pit Tank Inlet	10	CS
12	Pit Tank Reurck	3	CS
13	Bulk Line	4	CS
14	Unknown CS	4	CS
15	CPL	4	CS
16	Electrical Conduit	2	Conduit
17	Gas Outlet	3	SS
18	North Overhead Light	1	Conduit
19	Old Pit Monitor	1	Conduit
20	Electrical to Pit Tank	1	Conduit
21	Comm Tower to Building	NA	Conduit
22	Abandoned Pipes	4	Steel & Cut Off??
23	South Overhead Light	1	Conduit
24	Rodeo Header Bulk & Test	3&4	Fiberglass
25	JCOL,WCOL,&WALU Flowlines	3&4	Fiberglass
26	Produced Gas	3	Steel
27	Oil/Water Drain	4	Steel
28	Cathodic Protection	1	Conduit
29	Buried Steel Pipe (Culvert)	12	Steel
30	Cathodic Protection	1	Conduit
31	Cathodic Protection	1	Conduit
32	Former CPL Line	4	Steel
33	Cathodic Protection	1	Conduit
34	Electrical	1	Conduit
35	Former Gas Line	6	Steel













Legend

&lt;



### Legend

- |   |   |
|---|---|
|  | FENCE LINE  |
|  | CABLE, CATHODIC OR ELECTRICAL<br>(BURIED OR ABOVE GROUND) |
|  | GAS LINE (BURIED OR ABOVE GROUND)                         |
|  | UNKNOWN STEEL PIPE (BURIED OR<br>ABOVE GROUND)            |
|  | EXCAVATION FLOOR SUMP                                     |

- |   |  |
|---|--|
| <b>MW-01</b>   | ABANDONED MONITORING WELL  |
| <b>MW-02</b>   | MONITORING WELL  |
| <b>MW-01R</b>  | MONITORING WELL (INSTALLED 2018)   |
| <b>SB-01</b>   | SOIL BORING LOCATION WITH ANALYTICAL RESULTS<br>GREATER THAN COGCC TABLE 910 |
| <b>SB-07</b>   | SOIL BORING LOCATION WITH ANALYTICAL RESULTS<br>LESS THAN COGCC TABLE 910    |

## Notes

\* UTILITIES FROM PREVIOUS CONSULTANT. COULD NOT BE FIELD VERIFIED DURING MAY 2018 UTILITY LOCATE.

Client/Project

Chevron EMC  
Rangely CS-47B No. 10501

Figure No.

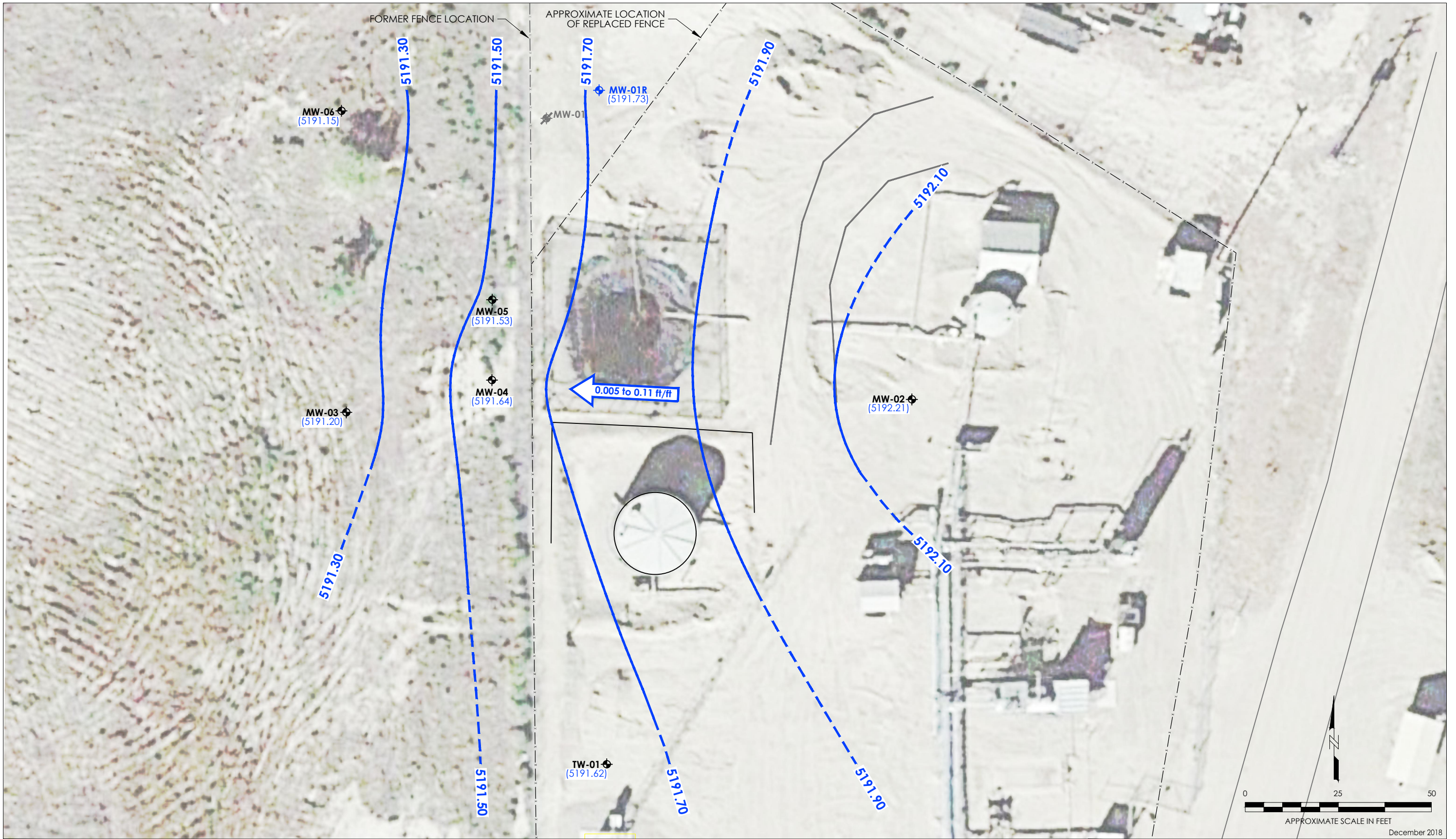
2

Title

CS-47b - AS-BUILT EXCAVATION DETAILS



H:\CHEVRON\RANGLEY, CO\CS-47\08\_DRAWINGS\2018\DWG\_182603866\_CS47B DOC RPT\_2018.DWG  
12/19/2018 1:11 PM



2000 South Colorado Blvd., Suite 2-300  
Denver, CO 80222  
www.stantec.com

#### Legend

- x — x — FENCE LINE
- MW-01 ABANDONED MONITORING WELL
- MW-02 MONITORING WELL
- MW-01R MONITORING WELL (INSTALLED 2018)

#### Groundwater Contours

- (5191.73) GROUNDWATER ELEVATION (FEET ABOVE MEAN SEA LEVEL)
- — — GROUNDWATER ELEVATION CONTOUR (FEET ABOVE MEAN SEA LEVEL); DASHED WHERE INFERRED
- ➡ APPROXIMATE DIRECTION OF GROUNDWATER FLOW. HYDRAULIC GRADIENT RANGES FROM 0.005 TO 0.011 FEET PER FOOT (ft/ft).

#### Note

GROUNDWATER ELEVATION DATA WERE COLLECTED ON NOVEMBER 28, 2018.

Client/Project

Chevron EMC  
Rangely CS-47B No. 10501

Figure No.

3

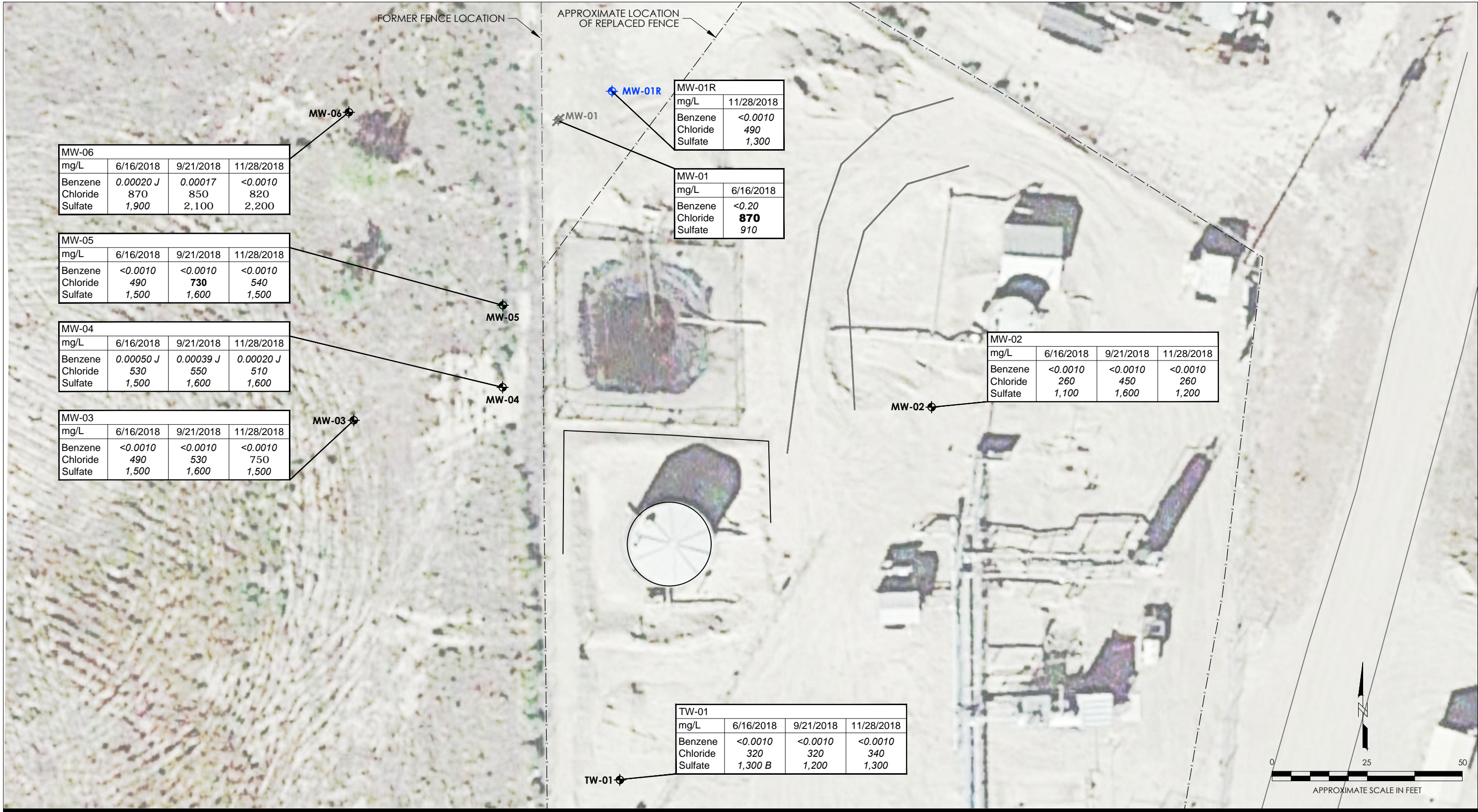
Title

POTENTIOMETRIC SURFACE -  
FOURTH QUARTER 2018

December 2018



H:\CHEVRON\RANGLEY, CO\CS-47\08\_DRAWINGS\2018\DWG\_182403866\_CS47B DOC RPT\_2018.DWG  
12/19/2018 1:10 PM



2000 South Colorado Blvd., Suite 2-300  
Denver, CO 80222  
www.stantec.com

Legend

- x — x — FENCE LINE
- MW-01 ABANDONED MONITORING WELL
- MW-02 MONITORING WELL
- MW-01R MONITORING WELL (INSTALLED 2018)

Analyte

SAMPLE ID	
mg/L	SAMPLE DATE
BENZENE CHLORIDE SULFATE	

mg/L = MILLIGRAMS PER LITER

- < = CONCENTRATIONS BELOW THE TEST METHOD DETECTION LIMIT (MDL) UNLESS OTHERWISE NOTED
- J = ANALYTE IS PRESENT AT AN ESTIMATED CONCENTRATION BETWEEN THE MDL AND REPORT LIMIT
- B = COMPOUND WAS FOUND IN THE BLANK AND SAMPLE CONCENTRATION ABOVE THE COLORADO OIL AND GAS CONSERVATION COMMISSION (COGCC) SERIES 900 ALLOWABLE CONCENTRATIONS
- BOLD** = GAS CONSERVATION COMMISSION (COGCC) SERIES 900 ALLOWABLE CONCENTRATIONS
- ITALICS* = CONCENTRATION BELOW THE COGCC SERIES 900 ALLOWABLE CONCENTRATIONS

Client/Project  
Chevron EMC  
Rangely CS-47B No. 10501

Figure No.  
4

Title  
2018 GROUNDWATER ANALYTICAL DATA

## APPENDICES

**Appendix A**  
**Site Background**



## BACKGROUND

### LOCATION

Rangely Collection Station 47 is located within an active oil and gas field that is bordered by the town of Rangely, Colorado to the south, the White River (the River) to the north and west, and Rangely's waste water treatment ponds to the east. The River is approximately 600 feet to the north and the waste water treatment ponds are approximately 650 feet to the east. Pit CS-47B is located on privately owned land leased by Chevron. It lies within a relatively flat river valley at an elevation of approximately 5,200 feet above mean sea level (amsl) with upland areas rising 400 to 500 feet above the valley to the north and south.

### GEOLOGY AND HYDROGEOLOGY

The near surface geology of Pit CS-47B consists primarily of sandy silts to approximately 11 to 13 feet below ground surface (ft bgs) and coarse to fine grain sands and gravels to 20 ft bgs.

Groundwater elevations fluctuate approximately 2 feet seasonally. In 2017, groundwater elevation ranged from 5,193.99 ft above mean sea level (AMSL) in well MW-02 during June 2017 to 5,191.96 ft AMSL in well MW-026 during December 2017 groundwater sampling events. Groundwater flow direction is toward the west-southwest.

### SITE HISTORY

During decommissioning of Pit CS-47 in October 2016, soil impacts were noted below the liner based upon visual observation, odor, and photoionization detector (PID) measurements. From these observations, soil was excavated to approximately 10 ft bgs, which was just above the groundwater table. Confirmation soil samples collected from the north (CS47-NW), east (CS47-EW), and west (CS47-WW) sidewalls exhibited concentrations below COGCC Table 910-1 criteria. Confirmation soil samples collected from the south sidewall (CS47-SW) and excavation floor (CS47-ESB2) exhibited concentrations that exceeded the COGCC Table 910-1 criteria for TPH. Additionally, the concentration of benzo(a)anthracene and the laboratory reporting limit (LRL) for benzene exceeded the COGCC Table 910-1 criteria for both samples.

Subsequently, four hand auger borings (CS47-AH1 through CS47-AH4) were advanced south of Pit CS-47 in November 2016 to define the horizontal extent of TPH soil impacts. The soil samples collected from the borings defined the horizontal extent of TPH to below COGCC Table 910-1 criteria. In January 2017, approximately 1,085 cubic yards of impacted soil were excavated from the floor and south sidewall of Pit CS-47. A second confirmation sample collected from the south sidewall (also named CS47-SW) exhibited concentrations below COGCC Table 910-1 criteria for TPH and BTEX. Because the floor of the excavation was at the groundwater table, a groundwater sample (CS47-PW) was collected instead of a soil sample. Dissolved BTEX concentrations were below the COGCC Table 910-1 criteria in the groundwater sample; however, a sheen was observed on the groundwater surface. As a result, groundwater was

removed during excavation activities and disposed of at the Chevron treatment plant. All impacted soils were applied to the Chevron-operated landfarm in Rangely, Colorado. With COGCC approval, the Pit CS-47 excavation was backfilled and graded to match the surrounding area.

With a sheen observed on the groundwater surface, the COGCC requested additional monitoring wells be installed to determine if petroleum hydrocarbon impacts were present in groundwater. In response to this request, monitoring wells MW-01 through MW-05 were installed downgradient and cross-gradient of former Pit CS-47. During installation, TPH concentrations in collected soil samples were below COGCC Table 910-1 criteria, with the exception of MW-01, where 2,651 milligrams per kilogram (mg/kg) TPH was observed at a depth of 8-13 ft bgs. Following installation, BTEX concentrations in groundwater samples from monitoring wells MW-01, MW-02, MW-03, MW-04, MW-05 and previously installed monitoring well TW-01 were below the COGCC Table 910-1 criteria (Stantec, 2017).

On August 17, 2017, Stantec submitted the *Soil Characterization Report—Pit CS-47* to the COGCC detailing the investigation activities conducted on May 15, 2017, as well as conclusions and recommendations. The COGCC agreed that hydrocarbon impacts to soil at MW-01 were from a different source and likely attributed to a secondary collection pit (Pit CS-47B). The COGCC approved the closure request for Pit CS-47 (Remediation Project No. 9141) on December 18, 2017 and requested additional site characterization activities be conducted at Pit CS-47B under Remediation Project No. 10501 to further delineate hydrocarbon impacts to soil and groundwater (Stantec, 2017).

On April 10, 2018, Stantec submitted the *Soil and Groundwater Characterization Report - Pit CS-47B NO. 10501* to the COGCC detailing the investigation activities conducted at Pit CS-47B between October 28 and November 8, 2017 and recommended remedial excavation as the preferred strategy to remediate soil and groundwater concentrations above COGCC Table 910-1 criteria (Stantec, 2018). During September and October 2018, CS-47B was remediated by excavation and off-site disposal.

**Appendix B**  
**Well Abandonment Report**

Form No  
GWS-09  
03/2017

STATE OF COLORADO, OFFICE OF THE STATE ENGINEER  
1313 Sherman St., Room 821, Denver, CO 80203 303.866.3581  
[www.water.state.co.us](http://www.water.state.co.us) and [dwrpermitsonline@state.co.us](mailto:dwrpermitsonline@state.co.us)

For Office Use Only

## WELL ABANDONMENT REPORT

Use to report plugging and sealing of permitted wells, monitoring and other holes. Type or print in black or blue ink. Instructions and plugging standards are on reverse side

1. Well Permit Number of plugged well 304514 or MH File Number MH-  
Owners Well Designation- MW-1 Receipt Number: 3678267A

### 2. Individual/Company responsible for plugging and sealing the well:

Name(s) Christopher Beall/Stantec Consulting License #  
Mailing Address 2000 South Colorado Blvd., Suite 2-300  
City, St., Zip Denver, CO 80222  
Phone ( 970 ) 214-1126 Email christopher.beall@stantec.com

3. Well (Hole) Owner: Name(s): Chevron Environmental Mgmt Company, Attn. Adriane Gifford  
Phone: ( 832 ) 854-5620 Email: agifford@chevron.com  
Mailing Address, City, St., Zip: 1500 Louisiana Street, Room 38108, Houston, TX 77002

4. Well Location Address: \_\_\_\_\_

5. GPS Well Location: County Rio Blanco  
UTM ☐ Zone 12 or ☒ Zone 13 Easting 175019.0 Northing 4445259.0

6. Legal Location: SE 1/4 of the SW 1/4, Sec 35, Twp 2 ☒ N or S ☐, Range 102 ☐ E or W ☒, 6th P.M.  
Distance from Section Lines 969 Ft. From ☐ N or S ☒, 2186 Ft. From ☐ E or W ☒ Line.  
Subdivision Name \_\_\_\_\_ Lot \_\_\_\_\_, Block \_\_\_\_\_, Filing/Unit \_\_\_\_\_

7. I/we report the existing well/hole was plugged and sealed on 09/17/2018 (date) for the following reason(s):  
☐ The well was plugged and sealed as required under Well Permit Number \_\_\_\_\_.  
☐ The well was not in use and was plugged and sealed.  
☒ Other (please explain) Abandoned in preparation of remedial soil excavation that surrounds this monitoring well.

8. Aquifer Type: ☐ Type I (One Confining Layer) ☒ Type I (Multiple Confining Layer) ☐ Laramie-Fox Hills  
(check one) ☒ Type II (Not Overlain by Type III) ☐ Type II (Overlain by Type III) ☒ Type III (alluvial)

### 9. Intervals of Casing Removed/Ripped:

from 13.1 feet to 0 feet, from \_\_\_\_\_ feet to \_\_\_\_\_ feet, from \_\_\_\_\_ feet to \_\_\_\_\_ feet,  
from \_\_\_\_\_ feet to \_\_\_\_\_ feet, from \_\_\_\_\_ feet to \_\_\_\_\_ feet, from \_\_\_\_\_ feet to \_\_\_\_\_ feet,

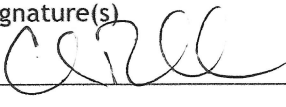
### 10. Amount and Type of Material

#### Method of Placement

#### Interval

<u>10/20 Silica Sand</u>	<u>Place by Hand</u>	from <u>17.2</u> feet to <u>10.0</u> feet
<u>3/8" Bentonite Chips (Hydrated)</u>	<u>Place by Hand</u>	from <u>10.0</u> feet to <u>1</u> feet
_____	_____	from _____ feet to _____ feet
_____	_____	from _____ feet to _____ feet

I have read the statements made herein and know the contents thereof, and they are true to my knowledge. This document is signed (or name entered if filing online) and certified in accordance with Rule 17.4 of the Water Well Construction Rules, 2 CCR 402.2. The filing of a document that contains false statements is a violation of section 37 91 108(1)(e), C.R.S., and is punishable by fines up to \$1,000 and/or revocation of the contracting license. If filing online the State Engineer considers the entry of the licensed contractor's name to be in compliance with Rule 17.4.

11. Signature(s)  


Please Print the Name, Title, & License No.  
Christopher Beall / Associate Geologist

Date  
10/09/2018

It is the responsibility of the well owner to have the well/hole properly plugged and sealed. The Well Construction Contractor is responsible for notifying the owner of this requirement in writing.



**Appendix C**  
**Soil Disposal Records**

Transport Company: Greene Trenching  
Transport Driver: Pat Harris  
Date: 9-19-18  
Weather Conditions: Sunny


Time of Delivery 1:50

Company Phone: 970 475 5766  
Driver Phone: 970 773 3528


Ticket NO.  
12615

\*NOTE: if the Landfarm is covered with snow or frozen, temporarily place in stockpile area with a layer of clean soil over the top of the pile. Immediately till once the Landfarm is cleared of snow or unfrozen.

#### Waste Type

 Circle 01 Tank Sludge 05 Hydrovac Mud  
02 Pit Reclamation (Sludge) 06 Cellar Sludge  
03 Pit Reclamation (Soil) 07 Other  
04 Soil From Spill

#### Waste State:


 Circle SLUDGE  
Circle SOIL

#### Cell Deposit:

 Circle 1 2 3  
4 5 6


#### Waste Origin:

Where did the waste come from? (i.e. PAD 88X)


 CS-417

#### Waste Volume

Please indicate in either Barrels (BBLs), Yards (Yds), Cubic Feet (Feet)<sup>3</sup>, or Tonnage (Tons) in the appropriate box below.

 ☐ BBLs or ☒ YDs or ☐ Feet<sup>3</sup> or ☐ Tons  
10

#### Transport Type:

 Circle D Dump Truck H Hydrovac Truck  
V Vacuum Truck O Other

I acknowledge that only the following wastes are acceptable to deliver to the Land Farm:

- \*Tank Sludges that have been de-watered
- \*Pit Reclamation Waste
- \*Hydrovac Mud
- \*Soil from Spill Remediation that has been profiled prior to being taken to the Land Farm

Pat Harris  
Transport Driver Signature

#### Tillage Details (Maintenance Personnel Only)

##### Tillage Start Time




1:50

Doug Gardiner  
Maintenance Signature

##### Waste Area:

Please indicate the Length and Width of the Application in Feet

 Length 15 Width 12

Juanita White  
Company Representative

9/19/18  
Date

Transport Company: King TruckingTransport Driver: Pat ManningDate: 9-19-18Weather Conditions: SunnyTime of Delivery: 2:30Company Phone: (470) 675-5766Driver Phone: 773 3528

Ticket NO.

12616

\*NOTE: if the Landfarm is covered with snow or frozen, temporarily place in stockpile area with a layer of clean soil over the top of the pile. Immediately till once the Landfarm is cleared of snow or unfrozen.

## Waste Type



01 Tank Sludge

02 Pit Reclamation (Sludge)

03 Pit Reclamation (Soil)

04 Soil From Spill

05 Hydrovac Mud

06 Cellar Sludge

07 Other

## Waste State:



SLUDGE

SOIL

## Cell Deposit:



1

2

3

4

5

6

## Waste Origin:

Where did the waste come from? (i.e. PAD 88X)



CS47

## Waste Volume

Please indicate in either Barrels (BBLs), Yards (Yds), Cubic Feet (Feet)<sup>3</sup>, or Tonnage (Tons) in the appropriate box below.

BBLs

or

YDs

or

Feet<sup>3</sup>

or

Tons

## Transport Type:



D Dump Truck

H Hydrovac Truck

V Vacuum Truck

O Other

I acknowledge that only the following wastes are acceptable to deliver to the Land Farm:

\*Tank Sludges that have been de-watered

\*Pit Reclamation Waste

\*Hydrovac Mud

\*Soil from Spill Remediation that has been profiled prior to being taken to the Land Farm

Transport Driver Signature

## Tillage Details (Maintenance Personnel Only)



Tillage Start Time

2:30

## Waste Area:

Please indicate the Length and Width of the Application in Feet



Length

30

Width

12

Maintenance Signature

Company Representative

Date



Transport Company: Universal TruckingTransport Driver: Pat HansenDate: 9.19.18Time of Delivery: 3:15 PMCompany Phone: 675-5766Driver Phone: 773-3528

Ticket NO.

12617

Weather Conditions: Sunny

\*NOTE: if the Landfarm is covered with snow or frozen, temporarily place in stockpile area with a layer of clean soil over the top of the pile. Immediately till once the Landfarm is cleared of snow or unfrozen.

## Waste Type



- |                             |                  |
|-----------------------------|------------------|
| 01 Tank Sludge              | 05 Hydrovac Mud  |
| 02 Pit Reclamation (Sludge) | 06 Cellar Sludge |
| 03 Pit Reclamation (Soil)   | 07 Other         |
| 04 Soil From Spill          |                  |

## Waste State:



- SLUDGE  
SOIL

## Cell Deposit:



- |   |   |   |
|---|---|---|
| 1 | 2 | 3 |
| 4 | 5 | 6 |

## Waste Origin:

Where did the waste come from? (i.e. PAD 88X)

C5 47

## Waste Volume

Please indicate in either Barrels (BBLs), Yards (Yds), Cubic Feet (Feet)<sup>3</sup>, or Tonage (Tons) in the appropriate box below.

BBLs

or

YDs

or

Feet<sup>3</sup>

or

Tons

## Transport Type:



D Dump Truck

H Hydrovac Truck

V Vacuum Truck

O Other

I acknowledge that only the following wastes are acceptable to deliver to the Land Farm:

\*Tank Sludges that have been de-watered

\*Pit Reclamation Waste

\*Hydrovac Mud

\*Soil from Spill Remediation that has been profiled prior to being taken to the Land Farm

Transport Driver Signature [Signature]

## Tillage Details (Maintenance Personnel Only)



Tillage Start Time

3:15

Waste Area:

Please indicate the Length and Width of the Application in Feet



Length

25

Width

12Company Representative [Signature]Date 9/19/18Maintenance Signature [Signature]

Transport Company: Arce TruckingTransport Driver: Pat HannesDate: 9-19-18Time of Delivery: 3:45 PMCompany Phone: 678 5766Driver Phone: 773-3528

Ticket NO.

12618

Weather Conditions: Sunny

\*NOTE: if the Landfarm is covered with snow or frozen, temporarily place in stockpile area with a layer of clean soil over the top of the pile. Immediately till once the Landfarm is cleared of snow or unfrozen.

## Waste Type



- |                             |                  |
|-----------------------------|------------------|
| 01 Tank Sludge              | 05 Hydrovac Mud  |
| 02 Pit Reclamation (Sludge) | 06 Cellar Sludge |
| 03 Pit Reclamation (Soil)   | 07 Other         |
| 04 Soil From Spill          |                  |

## Waste State:



SLUDGE  
SOIL

## Cell Deposit:



1 2 3  
4 5 6

## Waste Origin:

Where did the waste come from? (i.e. PAD 88X)



## Waste Volume

Please indicate in either Barrels (BBLs), Yards (Yds), Cubic Feet (Feet<sup>3</sup>), or Tonage (Tons) in the appropriate box below.

BBLs

or

YDs

or

Feet<sup>3</sup>

or

Tons

## Transport Type:



D Dump Truck

H Hydrovac Truck

V Vacuum Truck

O Other

I acknowledge that only the following wastes are acceptable to deliver to the Land Farm:

\*Tank Sludges that have been de-watered

\*Pit Reclamation Waste

\*Hydrovac Mud

\*Soil from Spill Remediation that has been profiled prior to being taken to the Land Farm

Transport Driver Signature

## Tillage Details (Maintenance Personnel Only)



Tillage Start Time

3:45

## Waste Area:

Please indicate the Length and Width of the Application in Feet



Length

25

Width

12

Company Representative

Date

9/19/18

Maintenance Signature



Transport Company: Urie TruckingTransport Driver: HAZELBUSHDate: SEP 19, 2018Time of Delivery: 2:10 PMCompany Phone: 970-675-5766Driver Phone: 970-220-2553Weather Conditions: Clear

Ticket NO.

12674

\*NOTE: if the Landfarm is covered with snow or frozen, temporarily place in stockpile area with a layer of clean soil over the top of the pile. Immediately till once the Landfarm is cleared of snow or unfrozen.

## Waste Type



01 Tank Sludge  
02 Pit Reclamation (Sludge)  
03 Pit Reclamation (Soil)  
04 Soil From Spill

05 Hydrovac Mud  
06 Cellar Sludge  
07 Other \_\_\_\_\_

## Waste State:



SLUDGE  
SOIL

## Cell Deposit:



1 2 3  
4 5 6

## Waste Origin:

Where did the waste come from? (i.e. PAD 88X)

C-3-  
47b

## Waste Volume

Please indicate in either Barrels (BBLs), Yards (Yds), Cubic Feet (Feet)<sup>3</sup>, or Tonnage (Tons) in the appropriate box below.

BBLs

or

YDs

or

Feet<sup>3</sup>

or

Tons

10

## Transport Type:

D Dump Truck

H Hydrovac Truck

V Vacuum Truck

O Other \_\_\_\_\_

I acknowledge that only the following wastes are acceptable to deliver to the Land Farm:

\*Tank Sludges that have been de-watered

\*Pit Reclamation Waste

\*Hydrovac Mud

\*Soil from Spill Remediation that has been profiled prior to being taken to the Land Farm

Charles Hazelbush  
Transport Driver Signature

## Tillage Details (Maintenance Personnel Only)



Tillage Start Time

2:10Don Darden  
Maintenance Signature

Waste Area:

Please indicate the Length and Width of the Application in Feet



Length

20

Width

12Javonah Whitah  
Company Representative

Date

9/19/18

Transport Company: Unit TruckingTransport Driver: HAZEL BUSHDate: SEP 19 19Weather Conditions: CloudyTime of Delivery: 2:45 PMCompany Phone: 970-675-5746Driver Phone: 970-220-2553

Ticket NO.

12675

\*NOTE: if the Landfarm is covered with snow or frozen, temporarily place in stockpile area with a layer of clean soil over the top of the pile. Immediately till once the Landfarm is cleared of snow or unfrozen.

## Waste Type



01 Tank Sludge

02 Pit Reclamation (Sludge)

03 Pit Reclamation (Soil)

04 Soil From Spill

05 Hydrovac Mud

06 Cellar Sludge

07 Other

## Waste State:



SLUDGE

SOIL

## Cell Deposit:



1 2 3

4 5 6

## Waste Origin:

Where did the waste come from? (i.e. PAD 88X)



C.S. 476

## Waste Volume

Please indicate in either Barrels (BBLs), Yards (Yds), Cubic Feet (Feet)<sup>3</sup>, or Tonnage (Tons) in the appropriate box below.

BBLs

or

YDs

or

Feet<sup>3</sup>

or

Tons

## Transport Type:



D Dump Truck

V Vacuum Truck

H Hydrovac Truck

O Other

I acknowledge that only the following wastes are acceptable to deliver to the Land Farm:

\*Tank Sludges that have been de-watered

\*Pit Reclamation Waste

\*Hydrovac Mud

\*Soil from Spill Remediation that has been profiled prior to being taken to the Land Farm

Charles Hazelbush

Transport Driver Signature

## Tillage Details (Maintenance Personnel Only)



Tillage Start Time

2:45

## Waste Area:

Please indicate the Length and Width of the Application in Feet



Length

25

Width

12

Juanmah White

Company Representative

Date

9/19/19

Doug Dardine  
Maintenance Signature



Transport Company: URIE TRUCKING  
Transport Driver: HAZELBUSH  
Date: SEP 19 2019  
Weather Conditions: CLOUDY

Ticket NO. 12676  
Company Phone: 970-675-5766  
Driver Phone: 970-420-9553

Time of Delivery 3:15 PM

\*NOTE: if the Landfarm is covered with snow or frozen, temporarily place in stockpile area with a layer of clean soil over the top of the pile. Immediately till once the Landfarm is cleared of snow or unfrozen.

#### Waste Type



01 Tank Sludge  
02 Pit Reclamation (Sludge)  
03 Pit Reclamation (Soil)  
04 Soil From Spill  
05 Hydrovac Mud  
06 Cellar Sludge  
07 Other

#### Waste State:



SLUDGE  
SOIL

#### Cell Deposit:



1 2 3  
4 5 6

#### Waste Origin:

Where did the waste come from? (i.e. PAD 88X)



C.S. 476

#### Waste Volume

Please indicate in either Barrels (BBLS), Yards (Yds), Cubic Feet (Feet)<sup>3</sup>, or Tonnage (Tons) in the appropriate box below.



BBLS

or

YDs

or

Feet<sup>3</sup>

or

Tons

#### Transport Type:



D Dump Truck

V Vacuum Truck

H Hydrovac Truck

O Other

I acknowledge that only the following wastes are acceptable to deliver to the Land Farm:

\*Tank Sludges that have been de-watered

\*Pit Reclamation Waste

\*Hydrovac Mud

\*Soil from Spill Remediation that has been profiled prior to being taken to the Land Farm

Charles Hazelbush  
Transport Driver Signature

#### Tillage Details (Maintenance Personnel Only)



Tillage Start Time

3:15

Waste Area:

Please indicate the Length and Width of the Application in Feet



Length

20

Width

12

Dore Gardner  
Maintenance Signature

Juanita Ullrich  
Company Representative

Date

9/19/18



Transport Company: URIE TRUCKINGTransport Driver: HAZELBUSHDate: SEP 19, 2018Time of Delivery: 4:00 PMWeather Conditions: CLOUDY BREEZYCompany Phone: 910-675-5761Driver Phone: 910-220-2553

Ticket NO.

12677

\*NOTE: if the Landfarm is covered with snow or frozen, temporarily place in stockpile area with a layer of clean soil over the top of the pile. Immediately till once the Landfarm is cleared of snow or unfrozen.

## Waste Type



01 Tank Sludge  
02 Pit Reclamation (Sludge)  
03 Pit Reclamation (Soil)  
04 Soil From Spill

05 Hydrovac Mud  
06 Cellar Sludge  
07 Other

## Waste State:



SLUDGE  
SOIL

## Cell Deposit:



1 2 3  
4 5 6

## Waste Origin:

Where did the waste come from? (i.e. PAD 88X)



C.S. 4/5b

## Waste Volume

Please indicate in either Barrels (BBLs), Yards (Yds), Cubic Feet (Feet)<sup>3</sup>, or Tonnage (Tons) in the appropriate box below.



BBLs

or

YDs

or

Feet<sup>3</sup>

or

Tons

10

## Transport Type:



D Dump Truck

H Hydrovac Truck

V Vacuum Truck

O Other

I acknowledge that only the following wastes are acceptable to deliver to the Land Farm:

\*Tank Sludges that have been de-watered

\*Pit Reclamation Waste

\*Hydrovac Mud

\*Soil from Spill Remediation that has been profiled prior to being taken to the Land Farm

Charles Hazelbush

Transport Driver Signature

## Tillage Details (Maintenance Personnel Only)



Tillage Start Time

4:00

Don Dardin

Maintenance Signature

## Waste Area:

Please indicate the Length and Width of the Application in Feet



Length

Width

25

12

Harvard White

Company Representative

Date

9/19/18

Transport Company: WeldonTransport Driver: 1997 Tom CoxDate: 9-20-18Weather Conditions: SunnyTime of Delivery: 9:50Company Phone: 435-789-9015 Ticket NO. 12592Driver Phone: 435-621-108

\*NOTE: if the Landfarm is covered with snow or frozen, temporarily place in stockpile area with a layer of clean soil over the top of the pile. Immediately till once the Landfarm is cleared of snow or unfrozen.

## Waste Type

Circle ☒ 01 Tank Sludge  
☐ 02 Pit Reclamation (Sludge)  
☐ 03 Pit Reclamation (Soil)  
☐ 04 Soil From Spill  
☐ 05 Hydrovac Mud  
☐ 06 Cellar Sludge  
☐ 07 Other C 47

## Waste State:

Circle ☒ SLUDGE  
☐ SOIL

## Cell Deposit:

Circle ☒ 1 2 3  
☐ 4 5 6

## Waste Origin:

Where did the waste come from? (i.e. PAD 88X)

☒ CS 47

## Waste Volume

Please indicate in either Barrels (BBLs), Yards (Yds), Cubic Feet (Feet)<sup>3</sup>, or Tonage (Tons) in the appropriate box below.

☒ BBLs ☐ YDs ☐ Feet<sup>3</sup> ☐ Tons  
8010

## Transport Type:

☒ D Dump Truck ☐ H Hydrovac Truck  
☒ V Vacuum Truck ☐ O Other

I acknowledge that only the following wastes are acceptable to deliver to the Land Farm:

\*Tank Sludges that have been de-watered

\*Pit Reclamation Waste

\*Hydrovac Mud

\*Soil from Spill Remediation that has been profiled prior to being taken to the Land Farm

[Signature]  
Transport Driver Signature

## Tillage Details (Maintenance Personnel Only)

## Tillage Start Time

9:50

[Signature]  
Maintenance Signature

## Waste Area:

Please indicate the Length and Width of the Application in Feet

☒ Length 25 Width 12

[Signature]  
Company Representative


9/20/18  
Date



Transport Company: WeidanTransport Driver: Clayton CoddDate: 9-20-18Weather Conditions: SunnyTime of Delivery: 10:15Company Phone: 435 799-9015 Ticket NO. **12593**Driver Phone: 435-621-1000


\*NOTE: if the Landfarm is covered with snow or frozen, temporarily place in stockpile area with a layer of clean soil over the top of the pile. Immediately till once the Landfarm is cleared of snow or unfrozen.

## Waste Type


 01 Tank Sludge  
02 Pit Reclamation (Sludge)  
Circle 03 Pit Reclamation (Soil)  
04 Soil From Spill

05 Hydrovac Mud  
06 Cellar Sludge  
07 Other \_\_\_\_\_

## Waste State:


 SLUDGE  
Circle SOIL

## Cell Deposit:

 ① 2 3  
Circle 4 5 6


## Waste Origin:

Where did the waste come from? (i.e. PAD 88X)

 CS 47

## Waste Volume

Please indicate in either Barrels (BBLs), Yards (Yds), Cubic Feet (Feet)<sup>3</sup>, or Tonage (Tons) in the appropriate box below.

 Circle **BBLs** or **YDs** or **Feet<sup>3</sup>** or **Tons**

10

## Transport Type:

Circle **D Dump Truck** **H Hydrovac Truck**  
**V Vacuum Truck** **O Other**

I acknowledge that only the following wastes are acceptable to deliver to the Land Farm:

\*Tank Sludges that have been de-watered

\*Pit Reclamation Waste


\*Hydrovac Mud

\*Soil from Spill Remediation that has been profiled prior to being taken to the Land Farm

Clayton Codd  
Transport Driver Signature

## Tillage Details (Maintenance Personnel Only)


## Tillage Start Time

 10:15

Long W. Codd  
Maintenance Signature

## Waste Area:

Please indicate the Length and Width of the Application in Feet

 **Length** **Width**  
25 12

James White  
Company Representative

9/20/18  
Date

Transport Company: weldconTransport Driver: clayton conDate: 9-20-18Time of Delivery: 10:45Company Phone: 435-789-9015Driver Phone: 435-621-1087

Ticket NO.

12594

Weather Conditions: sunny

\*NOTE: if the Landfarm is covered with snow or frozen, temporarily place in stockpile area with a layer of clean soil over the top of the pile. Immediately till once the Landfarm is cleared of snow or unfrozen.

## Waste Type



- 01 Tank Sludge  
02 Pit Reclamation (Sludge)  
03 Pit Reclamation (Soil)  
04 Soil From Spill
- 05 Hydrovac Mud  
06 Cellar Sludge  
07 Other

## Waste State:



SLUDGE



SOIL

## Cell Deposit:



- 1 2 3  
4 5 6

## Waste Origin:

Where did the waste come from? (i.e. PAD 88X)

CS 47

## Waste Volume

Please indicate in either Barrels (BBLs), Yards (Yds), Cubic Feet (Feet)<sup>3</sup>, or Tonnage (Tons) in the appropriate box below.



BBLs



or

YDs

10

or

Feet<sup>3</sup>

or

Tons



## Transport Type:

D Dump Truck

H Hydrovac Truck

V Vacuum Truck

O Other

I acknowledge that only the following wastes are acceptable to deliver to the Land Farm:

\*Tank Sludges that have been de-watered

\*Pit Reclamation Waste

\*Hydrovac Mud

\*Soil from Spill Remediation that has been profiled prior to being taken to the Land Farm

[Signature]  
Transport Driver Signature

## Tillage Details (Maintenance Personnel Only)



Tillage Start Time

10:45

[Signature]  
Maintenance Signature

Waste Area:

Please indicate the Length and Width of the Application in Feet



Length

25

Width

12

[Signature]  
Company Representative

9/20/18  
Date




Transport Company: WeldarTransport Driver: Clayton ColDate: 9-20-18Weather Conditions: SUNNYTime of Delivery 11:30Company Phone: 435 989-9015Driver Phone: 435 621-1087

Ticket NO.

12595

\*NOTE: if the Landfarm is covered with snow or frozen, temporarily place in stockpile area with a layer of clean soil over the top of the pile. Immediately till once the Landfarm is cleared of snow or unfrozen.


## Waste Type

-  01 Tank Sludge  
02 Pit Reclamation (Sludge)  
Circle 03 Pit Reclamation (Soil)  
04 Soil From Spill
- 05 Hydrovac Mud  
06 Cellar Sludge  
07 Other \_\_\_\_\_

## Waste State:


-  SLUDGE  
Circle SOIL

## Cell Deposit:

-  1 2 3  
Circle 4 5 6


## Waste Origin:

Where did the waste come from? (i.e. PAD 88X)

 CS 47

## Waste Volume

Please indicate in either Barrels (BBLs), Yards (Yds), Cubic Feet (Feet)<sup>3</sup>, or Tonnage (Tons) in the appropriate box below.

 Circle ☐ BBLs or ☒ YDs or ☐ Feet<sup>3</sup> or ☐ Tons

10

## Transport Type:

- Circle ☒ D Dump Truck ☐ H Hydrovac Truck  
☒ V Vacuum Truck ☐ O Other \_\_\_\_\_


I acknowledge that only the following wastes are acceptable to deliver to the Land Farm:

- \*Tank Sludges that have been de-watered    \*Pit Reclamation Waste    \*Hydrovac Mud  
\*Soil from Spill Remediation that has been profiled prior to being taken to the Land Farm

Clayton Col  
Transport Driver Signature


## Tillage Details (Maintenance Personnel Only)

## Tillage Start Time

 11:30Doug Banding  
Maintenance Signature

## Waste Area:

Please indicate the Length and Width of the Application in Feet

 ☐ Length ☐ Width  
25 12

JF SA  
Company Representative9-20-18  
Date

Transport Company: weidarTransport Driver: Quinn CoxDate: 9-20-18Weather Conditions: SunnyTime of Delivery: 12:25Company Phone: 435-784-9015 Ticket NO. 12596Driver Phone: 435-621-1087

\*NOTE: if the Landfarm is covered with snow or frozen, temporarily place in stockpile area with a layer of clean soil over the top of the pile. Immediately till once the Landfarm is cleared of snow or unfrozen.

## Waste Type

01 Tank Sludge  
02 Pit Reclamation (Sludge)  
03 Pit Reclamation (Soil)  
04 Soil From Spill  
05 Hydrovac Mud  
06 Cellar Sludge  
07 Other

## Waste State:

SLUDGE  
SOIL

## Cell Deposit:

1 2 3  
4 5 6

## Waste Origin:

Where did the waste come from? (i.e. PAD 88X)

CS 47

## Waste Volume

Please indicate in either Barrels (BBLs), Yards (Yds), Cubic Feet (Feet)<sup>3</sup>, or Tonage (Tons) in the appropriate box below.

10 BBLs or 10 YDs or    Feet<sup>3</sup> or    Tons

## Transport Type:

D Dump Truck  
V Vacuum Truck  
H Hydrovac Truck  
O Other

I acknowledge that only the following wastes are acceptable to deliver to the Land Farm:

- \*Tank Sludges that have been de-watered
- \*Pit Reclamation Waste
- \*Hydrovac Mud
- \*Soil from Spill Remediation that has been profiled prior to being taken to the Land Farm

Quinn Cox  
Transport Driver Signature

## Tillage Details (Maintenance Personnel Only)

## Tillage Start Time

12:25

## Waste Area:

Please indicate the Length and Width of the Application in Feet

Length 75 Width 12

Doug Harrison  
Maintenance Signature

[Signature]  
Company Representative

9-20-18  
Date




Transport Company: WeldonTransport Driver: Clinton ColeDate: 9-20-16Time of Delivery: 2:15Company Phone: 435-789-8015Driver Phone: 435-621-1087Weather Conditions: Sunny

Ticket NO.


12597

\*NOTE: if the Landfarm is covered with snow or frozen, temporarily place in stockpile area with a layer of clean soil over the top of the pile. Immediately till once the Landfarm is cleared of snow or unfrozen.


## Waste Type

-  01 Tank Sludge  
02 Pit Reclamation (Sludge)  
Circle 03 Pit Reclamation (Soil)  
04 Soil From Spill
- 05 Hydrovac Mud  
06 Cellar Sludge  
07 Other \_\_\_\_\_

## Waste State:


-  SLUDGE  
Circle SOIL

## Cell Deposit:

-  1 2 3  
Circle 4 5 6


## Waste Origin:

Where did the waste come from? (i.e. PAD 88X)


 LS47

## Waste Volume

Please indicate in either Barrels (BBLs), Yards (Yds), Cubic Feet (Feet)<sup>3</sup>, or Tonage (Tons) in the appropriate box below.

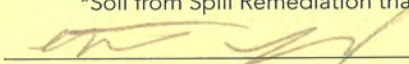
 <u>BBLS</u>	or	<u>YDs</u>	or	<u>Feet<sup>3</sup></u>	or	<u>Tons</u>
		<u>10</u>				

## Transport Type:

- D Dump Truck  
H Hydrovac Truck  
 Circle V Vacuum Truck  
O Other \_\_\_\_\_

I acknowledge that only the following wastes are acceptable to deliver to the Land Farm:

- \*Tank Sludges that have been de-watered
- \*Pit Reclamation Waste
- \*Hydrovac Mud
- \*Soil from Spill Remediation that has been profiled prior to being taken to the Land Farm

  
Transport Driver Signature


## Tillage Details (Maintenance Personnel Only)

## Tillage Start Time

 1:30Elaine Hardman  
Maintenance Signature

## Waste Area:

Please indicate the Length and Width of the Application in Feet

 <u>Length</u>	<u>Width</u>
<u>25</u>	<u>12</u>

  
Company Representative9-20-16  
Date

Transport Company: Waste Management

Transport Driver: \_\_\_\_\_


Date: 9-20-18Time of Delivery: 12:00Weather Conditions: SunnyCompany Phone: 435-789-9015Driver Phone: 435-623-1097

Ticket NO.

12598


\*NOTE: if the Landfarm is covered with snow or frozen, temporarily place in stockpile area with a layer of clean soil over the top of the pile. Immediately till once the Landfarm is cleared of snow or unfrozen.

## Waste Type


 01 Tank Sludge  
02 Pit Reclamation (Sludge)  
03 Pit Reclamation (Soil)  
04 Soil From Spill

05 Hydrovac Mud  
06 Cellar Sludge  
07 Other \_\_\_\_\_

## Waste State:


 SLUDGE  
SOIL

## Cell Deposit:

 1 2 3  
4 5 6


## Waste Origin:

Where did the waste come from? (i.e. PAD 88X)


 CS 47

## Waste Volume

Please indicate in either Barrels (BBLs), Yards (Yds), Cubic Feet (Feet)<sup>3</sup>, or Tons (Tons) in the appropriate box below.

 BBLs or YDs or Feet<sup>3</sup> or Tons

## Transport Type:

D Dump Truck H Hydrovac Truck  
 V Vacuum Truck O Other \_\_\_\_\_

I acknowledge that only the following wastes are acceptable to deliver to the Land Farm:

\*Tank Sludges that have been de-watered

\*Pit Reclamation Waste

\*Hydrovac Mud

\*Soil from Spill Remediation that has been profiled prior to being taken to the Land Farm

[Signature]  
Transport Driver Signature

## Tillage Details (Maintenance Personnel Only)

Tillage Start Time

2:05

Waste Area:

Please indicate the Length and Width of the Application in Feet

Length

25

Width

12

[Signature]  
Maintenance Signature

[Signature]  
Company Representative



9-20-18  
Date



Transport Company: WeidenTransport Driver: Jason CoxDate: 9-20-18Weather Conditions: SunnyTime of Delivery: 2:50Company Phone: 435 799 945 Ticket NO. 12599Driver Phone: 435 621-1097

\*NOTE: if the Landfarm is covered with snow or frozen, temporarily place in stockpile area with a layer of clean soil over the top of the pile. Immediately till once the Landfarm is cleared of snow or unfrozen.



## Waste Type

-  01 Tank Sludge  
02 Pit Reclamation (Sludge)  
 03 Pit Reclamation (Soil)  
04 Soil From Spill
- 05 Hydrovac Mud  
06 Cellar Sludge  
07 Other \_\_\_\_\_

## Waste State:

-  SLUDGE  
 SOIL

## Cell Deposit:

-  1 2 3  
 4 5 6

## Waste Origin:

Where did the waste come from? (i.e. PAD 88X)

US 47

## Waste Volume

Please indicate in either Barrels (BBLS), Yards (Yds), Cubic Feet (Feet)<sup>3</sup>, or Tonage (Tons) in the appropriate box below.

BBLS

or

YDs



or

Feet<sup>3</sup>

or

Tons

## Transport Type:

-  D Dump Truck  
 V Vacuum Truck

H Hydrovac Truck

O Other \_\_\_\_\_

I acknowledge that only the following wastes are acceptable to deliver to the Land Farm:

- \*Tank Sludges that have been de-watered    \*Pit Reclamation Waste    \*Hydrovac Mud  
\*Soil from Spill Remediation that has been profiled prior to being taken to the Land Farm

Jason Cox  
Transport Driver Signature

## Tillage Details (Maintenance Personnel Only)

Tillage Start Time

2:50

Waste Area:

Please indicate the Length and Width of the Application in Feet

Length

Width

Jeff Zeb  
Company RepresentativeDate 9-20-18Donna Bandura  
Maintenance Signature


Transport Company: WELSONTransport Driver: CLAYTON COXDate: 9-20-18Time of Delivery: 4:50Company Phone: 435-789-9015Driver Phone: 435-621-1057Weather Conditions: SUNNY

Ticket NO.

13650


\*NOTE: if the Landfarm is covered with snow or frozen, temporarily place in stockpile area with a layer of clean soil over the top of the pile. Immediately till once the Landfarm is cleared of snow or unfrozen.

## Waste Type


 01 Tank Sludge  
02 Pit Reclamation (Sludge)  
03 Pit Reclamation (Soil)  
04 Soil From Spill

05 Hydrovac Mud  
06 Cellar Sludge  
07 Other

## Waste State:


 SLUDGE  
SOIL

## Cell Deposit:

 1 2 3  
4 5 6

## Waste Origin:

Where did the waste come from? (i.e. PAD 88X)

 CS 47

## Waste Volume

Please indicate in either Barrels (BBLs), Yards (Yds), Cubic Feet (Feet)<sup>3</sup>, or Tonage (Tons) in the appropriate box below.

BBLs

or

YDs  
10

or

Feet<sup>3</sup>

or

Tons

## Transport Type:



D Dump Truck

H Hydrovac Truck

V Vacuum Truck

O Other

I acknowledge that only the following wastes are acceptable to deliver to the Land Farm:

\*Tank Sludges that have been de-watered

\*Pit Reclamation Waste

\*Hydrovac Mud

\*Soil from Spill Remediation that has been profiled prior to being taken to the Land Farm

CLAYTON COX  
Transport Driver Signature

## Tillage Details (Maintenance Personnel Only)



Tillage Start Time

4:50

Dore Handman  
Maintenance Signature

Waste Area:

Please indicate the Length and Width of the Application in Feet



Length

25

Width

12

Company Representative

Date




Transport Company: Large TruckingTransport Driver: Pat HDate: 9-20-18Weather Conditions: DryTime of Delivery: 845 AMCompany Phone: 675 5746Driver Phone: 773 3528

Ticket NO.

12619


\*NOTE: if the Landfarm is covered with snow or frozen, temporarily place in stockpile area with a layer of clean soil over the top of the pile. Immediately till once the Landfarm is cleared of snow or unfrozen.

## Waste Type

 01 Tank Sludge  
02 Pit Reclamation (Sludge)  
Circle 03 Pit Reclamation (Soil)  
04 Soil From Spill

05 Hydrovac Mud  
06 Cellar Sludge  
07 Other \_\_\_\_\_

## Waste State:


 SLUDGE  
Circle SOIL

## Cell Deposit:

 1 2 3  
Circle 4 5 6


## Waste Origin:

Where did the waste come from? (i.e. PAD 88X)

 CS47

## Waste Volume

Please indicate in either Barrels (BBLs), Yards (Yds), Cubic Feet (Feet)<sup>3</sup>, or Tons (Tons) in the appropriate box below.

 Circle **BBLs** or **YDs** or **Feet<sup>3</sup>** or **Tons**

10

## Transport Type:

Circle **D Dump Truck** **H Hydrovac Truck**  
**V Vacuum Truck** **O Other**

I acknowledge that only the following wastes are acceptable to deliver to the Land Farm:

- \*Tank Sludges that have been de-watered
- \*Pit Reclamation Waste
- \*Hydrovac Mud
- \*Soil from Spill Remediation that has been profiled prior to being taken to the Land Farm

Transport Driver Signature: P. H.

## Tillage Details (Maintenance Personnel Only)

Tillage Start Time

6:45

Waste Area:

Please indicate the Length and Width of the Application in Feet

 **Length** **Width**  
25 12

Maintenance Signature: Doug D. [Signature]Company Representative: Savannah WhiteDate: 9/20/18

Transport Company: Jim TruckingTransport Driver: Pat HannisDate: 9.20.18Weather Conditions: DryTime of Delivery: 930 AMCompany Phone: 675-5766Driver Phone: 773 3528

Ticket NO.

12620

\*NOTE: if the Landfarm is covered with snow or frozen, temporarily place in stockpile area with a layer of clean soil over the top of the pile. Immediately till once the Landfarm is cleared of snow or unfrozen.

## Waste Type



01 Tank Sludge

02 Pit Reclamation (Sludge)

03 Pit Reclamation (Soil)

04 Soil From Spill

05 Hydrovac Mud

06 Cellar Sludge

07 Other

## Waste State:



SLUDGE

SOIL

## Cell Deposit:



1

2

3

4

5

6

## Waste Origin:

Where did the waste come from? (i.e. PAD 88X)



CS47

## Waste Volume

Please indicate in either Barrels (BBLs), Yards (Yds), Cubic Feet (Feet<sup>3</sup>), or Tonnage (Tons) in the appropriate box below.

BBLs

or

YDs

or

Feet<sup>3</sup>

or

Tons

## Transport Type:



D Dump Truck

H Hydrovac Truck

V Vacuum Truck

O Other

I acknowledge that only the following wastes are acceptable to deliver to the Land Farm:

\*Tank Sludges that have been de-watered

\*Pit Reclamation Waste

\*Hydrovac Mud

\*Soil from Spill Remediation that has been profiled prior to being taken to the Land Farm

Transport Driver Signature

## Tillage Details (Maintenance Personnel Only)



Tillage Start Time

9:30

## Waste Area:

Please indicate the Length and Width of the Application in Feet



Length

Width

25

12

Maintenance Signature

Company Representative

Date



Transport Company: Avia TruckingTransport Driver: Pat HannasDate: 9.20.18Weather Conditions: DryTime of Delivery: 1000AMCompany Phone: 675 5766Driver Phone: 773 3528

Ticket NO.

12621

\*NOTE: if the Landfarm is covered with snow or frozen, temporarily place in stockpile area with a layer of clean soil over the top of the pile. Immediately till once the Landfarm is cleared of snow or unfrozen.

## Waste Type



01 Tank Sludge

02 Pit Reclamation (Sludge)

☒ 03 Pit Reclamation (Soil)

04 Soil From Spill

05 Hydrovac Mud

06 Cellar Sludge

07 Other

## Waste State:



SLUDGE

☒ SOIL

## Cell Deposit:

☒ 1 2 3

4 5 6

## Waste Origin:

Where did the waste come from? (i.e. PAD 88X)



CS 47

## Waste Volume

Please indicate in either Barrels (BBLS), Yards (Yds), Cubic Feet (Feet)<sup>3</sup>, or Tonnage (Tons) in the appropriate box below.



BBLS

or

YDs

or

Feet<sup>3</sup>

or

Tons

## Transport Type:

☒ D Dump Truck☐ V Vacuum Truck

H Hydrovac Truck

O Other

I acknowledge that only the following wastes are acceptable to deliver to the Land Farm:

\*Tank Sludges that have been de-watered

\*Pit Reclamation Waste

\*Hydrovac Mud

\*Soil from Spill Remediation that has been profiled prior to being taken to the Land Farm

Transport Driver Signature  
P. Hannas

## Tillage Details (Maintenance Personnel Only)



Tillage Start Time

10:00

Waste Area:

Please indicate the Length and Width of the Application in Feet



Length

Width

Company Representative  
Jeanette WhitakerDate  
9/20/18Maintenance Signature  
Doug Madison



Transport Company: Lyne TruckingTransport Driver: PAT HARRISDate: 9-20-18Time of Delivery: 10:45Company Phone: 675 5766



Ticket NO.

12622

Weather Conditions: DRYDriver Phone: 773 3528



\*NOTE: if the Landfarm is covered with snow or frozen, temporarily place in stockpile area with a layer of clean soil over the top of the pile. Immediately till once the Landfarm is cleared of snow or unfrozen.

## Waste Type



 01 Tank Sludge  
02 Pit Reclamation (Sludge)  
 03 Pit Reclamation (Soil)  
04 Soil From Spill

05 Hydrovac Mud  
06 Cellar Sludge  
07 Other

## Waste State:


 SLUDGE  
 SOIL

## Cell Deposit:

 1 2 3  
 4 5 6






## Waste Origin:

Where did the waste come from? (i.e. PAD 88X)


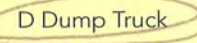

 CS47

## Waste Volume

Please indicate in either Barrels (BBLs), Yards (Yds), Cubic Feet (Feet)<sup>3</sup>, or Tonnage (Tons) in the appropriate box below.

  or  10 or  or 

## Transport Type:

  H Hydrovac Truck  
 V Vacuum Truck O Other

I acknowledge that only the following wastes are acceptable to deliver to the Land Farm:

\*Tank Sludges that have been de-watered

\*Pit Reclamation Waste

\*Hydrovac Mud

\*Soil from Spill Remediation that has been profiled prior to being taken to the Land Farm

Transport Driver Signature PAT HARRIS




## Tillage Details (Maintenance Personnel Only)

## Tillage Start Time

10:45

## Waste Area:

Please indicate the Length and Width of the Application in Feet

  25  12

Maintenance Signature Dan GardnerCompany Representative Sharon WhiteDate 9/20/18


Transport Company: Amco TruckingTransport Driver: Pat HarrisDate: 9-20-18Weather Conditions: DRYTime of Delivery: 11:15 AMCompany Phone: 675 5746Driver Phone: 773 3528

Ticket NO.

12623


\*NOTE: if the Landfarm is covered with snow or frozen, temporarily place in stockpile area with a layer of clean soil over the top of the pile. Immediately till once the Landfarm is cleared of snow or unfrozen.

## Waste Type


 01 Tank Sludge  
02 Pit Reclamation (Sludge)  
Circle 03 Pit Reclamation (Soil)  
04 Soil From Spill

05 Hydrovac Mud  
06 Cellar Sludge  
07 Other \_\_\_\_\_

## Waste State:


 SLUDGE  
Circle SOIL

## Cell Deposit:

 1 2 3  
Circle 4 5 6


## Waste Origin:

Where did the waste come from? (i.e. PAD 88X)

 CS 47


## Waste Volume

Please indicate in either Barrels (BBLs), Yards (Yds), Cubic Feet (Feet)<sup>3</sup>, or Tonnage (Tons) in the appropriate box below.

 Circle BBLs or YDs or Feet<sup>3</sup> or Tons

10

## Transport Type:

 Circle D Dump Truck H Hydrovac Truck  
V Vacuum Truck O Other

I acknowledge that only the following wastes are acceptable to deliver to the Land Farm:

\*Tank Sludges that have been de-watered

\*Pit Reclamation Waste

\*Hydrovac Mud

\*Soil from Spill Remediation that has been profiled prior to being taken to the Land Farm

Transport Driver Signature Pat Harris


## Tillage Details (Maintenance Personnel Only)

Tillage Start Time

11:15Maintenance Signature Donna Henderson

Waste Area:

Please indicate the Length and Width of the Application in Feet

 Length Width  
25 10

Company Representative J. SetDate 9-20-18



Transport Company: Living TruckingTransport Driver: Pat HarrisDate: 9-20-18Time of Delivery: 1200 noonCompany Phone: 625-5746Driver Phone: 773-3528

Ticket NO.

12624

Weather Conditions: DRY

\*NOTE: if the Landfarm is covered with snow or frozen, temporarily place in stockpile area with a layer of clean soil over the top of the pile. Immediately till once the Landfarm is cleared of snow or unfrozen.

## Waste Type



- |                             |                  |
|-----------------------------|------------------|
| 01 Tank Sludge              | 05 Hydrovac Mud  |
| 02 Pit Reclamation (Sludge) | 06 Cellar Sludge |
| 03 Pit Reclamation (Soil)   | 07 Other         |
| 04 Soil From Spill          |                  |

## Waste State:



SLUDGE  
SOIL

## Cell Deposit:



1 2 3  
4 5 6

## Waste Origin:

Where did the waste come from? (i.e. PAD 88X)



0547

## Waste Volume

Please indicate in either Barrels (BBLs), Yards (Yds), Cubic Feet (Feet)<sup>3</sup>, or Tonage (Tons) in the appropriate box below.

BBLs

or

YDs

or

Feet<sup>3</sup>

or

Tons

## Transport Type:



D Dump Truck

H Hydrovac Truck

V Vacuum Truck

O Other

I acknowledge that only the following wastes are acceptable to deliver to the Land Farm:

\*Tank Sludges that have been de-watered

\*Pit Reclamation Waste

\*Hydrovac Mud

\*Soil from Spill Remediation that has been profiled prior to being taken to the Land Farm

Transport Driver Signature

## Tillage Details (Maintenance Personnel Only)



Tillage Start Time

12:30

Waste Area:

Please indicate the Length and Width of the Application in Feet



Length

25

Width

12

Company Representative

Date

9-20-18

Maintenance Signature

Transport Company: Oris Trucking  
Transport Driver: Kran  
Date: 9-20-18  
Weather Conditions: Dry

Company Phone: 6755 766  
Driver Phone: 629-8375

Ticket NO.  
12625

Time of Delivery 2:25

\*NOTE: if the Landfarm is covered with snow or frozen, temporarily place in stockpile area with a layer of clean soil over the top of the pile. Immediately till once the Landfarm is cleared of snow or unfrozen.

#### Waste Type



01 Tank Sludge  
02 Pit Reclamation (Sludge)  
03 Pit Reclamation (Soil)  
04 Soil From Spill  
05 Hydrovac Mud  
06 Cellar Sludge  
07 Other

#### Waste State:



SLUDGE  
SOIL

#### Cell Deposit:



1 2 3  
4 5 6

#### Waste Origin:

Where did the waste come from? (i.e. PAD 88X)

C5 47

#### Waste Volume

Please indicate in either Barrels (BBLs), Yards (Yds), Cubic Feet (Feet<sup>3</sup>), or Tons (Tons) in the appropriate box below.



BBLs

or

YDs

or

Feet<sup>3</sup>

or

Tons

10

#### Transport Type:



D Dump Truck

H Hydrovac Truck

V Vacuum Truck

O Other

I acknowledge that only the following wastes are acceptable to deliver to the Land Farm:

\*Tank Sludges that have been de-watered    \*Pit Reclamation Waste    \*Hydrovac Mud  
\*Soil from Spill Remediation that has been profiled prior to being taken to the Land Farm

[Signature]  
Transport Driver Signature

#### Tillage Details (Maintenance Personnel Only)



Tillage Start Time

2:25

Waste Area:

Please indicate the Length and Width of the Application in Feet



Length

Width

25

12

[Signature]  
Maintenance Signature

[Signature]  
Company Representative

Date

9-20-18



Transport Company: Urie TruckingTransport Driver: LynnDate: 9-20-18Weather Conditions: DryTime of Delivery: 2:55Company Phone: 675-5766Driver Phone: 629-8375

Ticket NO.

12626


\*NOTE: if the Landfarm is covered with snow or frozen, temporarily place in stockpile area with a layer of clean soil over the top of the pile. Immediately till once the Landfarm is cleared of snow or unfrozen.

## Waste Type


 01 Tank Sludge  
02 Pit Reclamation (Sludge)  
03 Pit Reclamation (Soil)  
04 Soil From Spill

05 Hydrovac Mud  
06 Cellar Sludge  
07 Other

## Waste State:

 SLUDGE  
SOIL

## Cell Deposit:

 ① 2 3  
4 5 6


## Waste Origin:

Where did the waste come from? (i.e. PAD 88X)

23 47


## Waste Volume

Please indicate in either Barrels (BBLs), Yards (Yds), Cubic Feet (Feet)<sup>3</sup>, or Tonnage (Tons) in the appropriate box below.

 10

BBLs or YDs or Feet<sup>3</sup> or Tons

## Transport Type:

D Dump Truck  
 V Vacuum Truck

H Hydrovac Truck  
O Other

I acknowledge that only the following wastes are acceptable to deliver to the Land Farm:

\*Tank Sludges that have been de-watered

\*Pit Reclamation Waste

\*Hydrovac Mud

\*Soil from Spill Remediation that has been profiled prior to being taken to the Land Farm

Transport Driver Signature

## Tillage Details (Maintenance Personnel Only)

## Tillage Start Time

2:55

## Waste Area:

Please indicate the Length and Width of the Application in Feet



Length

25

Width

12

Company Representative

Date

Maintenance Signature




Transport Company: Urie TruckingTransport Driver: RyanDate: 9-20-18Weather Conditions: DryTime of Delivery 4:11Company Phone: 675-5766Driver Phone: 629-8375

Ticket NO.


12627

\*NOTE: if the Landfarm is covered with snow or frozen, temporarily place in stockpile area with a layer of clean soil over the top of the pile. Immediately till once the Landfarm is cleared of snow or unfrozen.


## Waste Type

 Circle 01 Tank Sludge 05 Hydrovac Mud  
02 Pit Reclamation (Sludge) 06 Cellar Sludge  
03 Pit Reclamation (Soil) 07 Other  
04 Soil From Spill

## Waste State:

 SLUDGE  
Circle SOIL

## Cell Deposit:

 Circle 1 2 3  
4 5 6

## Waste Origin:

Where did the waste come from? (i.e. PAD 88X)



CS 47

## Waste Volume

Please indicate in either Barrels (BBLS), Yards (Yds), Cubic Feet (Feet)<sup>3</sup>, or Tonnage (Tons) in the appropriate box below.

BBLS

or

YDs


or

Feet<sup>3</sup>

or

Tons

## Transport Type:

 Circle D Dump Truck H Hydrovac Truck  
V Vacuum Truck O Other

I acknowledge that only the following wastes are acceptable to deliver to the Land Farm:

\*Tank Sludges that have been de-watered

\*Pit Reclamation Waste

\*Hydrovac Mud

\*Soil from Spill Remediation that has been profiled prior to being taken to the Land Farm

Transport Driver Signature

## Tillage Details (Maintenance Personnel Only)

## Tillage Start Time



4:11

Maintenance Signature

## Waste Area:

Please indicate the Length and Width of the Application in Feet



Length

Width

Company Representative

Date

Transport Company: HAZELBUSH URIC TRUCKING

Ticket NO.

Transport Driver: HAZELBUSHCompany Phone: 970-675-5766 12678Date: SEP 20 2018Time of Delivery: 8:35Driver Phone: 970-220-2553Weather Conditions: Clear

\*NOTE: if the Landfarm is covered with snow or frozen, temporarily place in stockpile area with a layer of clean soil over the top of the pile. Immediately till once the Landfarm is cleared of snow or unfrozen.

## Waste Type

01 Tank Sludge  
02 Pit Reclamation (Sludge)  
03 Pit Reclamation (Soil)  
04 Soil From Spill

05 Hydrovac Mud  
06 Cellar Sludge  
07 Other

## Waste State:

SLUDGE  
SOIL

## Cell Deposit:

1 2 3  
4 5 6

## Waste Origin:

Where did the waste come from? (i.e. PAD 88X)

C.S. 47b

## Waste Volume

Please indicate in either Barrels (BBLs), Yards (Yds), Cubic Feet (Feet)<sup>3</sup>, or Tonnage (Tons) in the appropriate box below.

BBLs or YDs or Feet<sup>3</sup> or Tons

10

## Transport Type:

D Dump Truck  
V Vacuum Truck  
H Hydrovac Truck  
O Other

I acknowledge that only the following wastes are acceptable to deliver to the Land Farm:

- \*Tank Sludges that have been de-watered
- \*Pit Reclamation Waste
- \*Hydrovac Mud
- \*Soil from Spill Remediation that has been profiled prior to being taken to the Land Farm

Charles Hazelbush  
Transport Driver Signature

## Tillage Details (Maintenance Personnel Only)

## Tillage Start Time



8:35

## Waste Area:

Please indicate the Length and Width of the Application in Feet

Length Width

25 12

Dore Gordon  
Maintenance Signature

Jawad Whiteh  
Company Representative

Date

9/20/18



Transport Company: U.P.E. TruckingTransport Driver: HAZE / bushDate: SEP 20 2018Time of Delivery: 0915Weather Conditions: ClearCompany Phone: 615-5766Driver Phone: 970-220-2553

Ticket NO.

12679

\*NOTE: if the Landfarm is covered with snow or frozen, temporarily place in stockpile area with a layer of clean soil over the top of the pile. Immediately till once the Landfarm is cleared of snow or unfrozen.

## Waste Type

01 Tank Sludge  
02 Pit Reclamation (Sludge)  
03 Pit Reclamation (Soil)  
04 Soil From Spill

05 Hydrovac Mud  
06 Cellar Sludge  
07 Other

## Waste State:

SLUDGE  
SOIL

## Cell Deposit:

1 2 3  
4 5 6

## Waste Origin:

Where did the waste come from? (i.e. PAD 88X)

C.S. 47.0

## Waste Volume

Please indicate in either Barrels (BBLs), Yards (Yds), Cubic Feet (Feet)<sup>3</sup>, or Tonnage (Tons) in the appropriate box below.

BBLs or 10 Yds or Feet<sup>3</sup> or Tons

## Transport Type:

D Dump Truck  
V Vacuum Truck  
H Hydrovac Truck  
O Other

I acknowledge that only the following wastes are acceptable to deliver to the Land Farm:

- \*Tank Sludges that have been de-watered
- \*Pit Reclamation Waste
- \*Hydrovac Mud
- \*Soil from Spill Remediation that has been profiled prior to being taken to the Land Farm

Transport Driver Signature

## Tillage Details (Maintenance Personnel Only)

## Tillage Start Time

9:15

## Waste Area:

Please indicate the Length and Width of the Application in Feet

Length 25 Width 12

Maintenance Signature

Company Representative

Date

Transport Company: Unie TruckingTransport Driver: HazelbushDate: 20 Sep 2018Weather Conditions: ClearTime of Delivery: 9:45Company Phone: 675-5764Driver Phone: 220-2553

Ticket NO.

12680

\*NOTE: if the Landfarm is covered with snow or frozen, temporarily place in stockpile area with a layer of clean soil over the top of the pile. Immediately till once the Landfarm is cleared of snow or unfrozen.

## Waste Type



01 Tank Sludge  
02 Pit Reclamation (Sludge)  
03 Pit Reclamation (Soil)  
04 Soil From Spill

05 Hydrovac Mud  
06 Cellar Sludge  
07 Other

## Waste State:



SLUDGE

SOIL

## Cell Deposit:



1 2 3  
4 5 6

## Waste Origin:

Where did the waste come from? (i.e. PAD 88X)



C.S. 47b

## Waste Volume

Please indicate in either Barrels (BBLs), Yards (Yds), Cubic Feet (Feet<sup>3</sup>), or Tonnage (Tons) in the appropriate box below.

BBLs

or

YDs

or

Feet<sup>3</sup>

or

Tons

## Transport Type:



D Dump Truck

V Vacuum Truck

H Hydrovac Truck

O Other

I acknowledge that only the following wastes are acceptable to deliver to the Land Farm:

\*Tank Sludges that have been de-watered

\*Pit Reclamation Waste

\*Hydrovac Mud

\*Soil from Spill Remediation that has been profiled prior to being taken to the Land Farm

Charles Hazelbush

Transport Driver Signature

## Tillage Details (Maintenance Personnel Only)



Tillage Start Time

9:45

Don Dard

Maintenance Signature

Waste Area:

Please indicate the Length and Width of the Application in Feet



Length

25

Width

12

James White

Company Representative

9/20/18

Date



Transport Company: UATE Trucking  
Transport Driver: HAZELBUSH  
Date: 20 Sep 2018  
Weather Conditions: Clear


Time of Delivery 10:20

Company Phone: 675-5764  
Driver Phone: 220-2553


Ticket NO.  
12681

\*NOTE: if the Landfarm is covered with snow or frozen, temporarily place in stockpile area with a layer of clean soil over the top of the pile. Immediately till once the Landfarm is cleared of snow or unfrozen.


#### Waste Type

 Circle 01 Tank Sludge 05 Hydrovac Mud  
02 Pit Reclamation (Sludge) 06 Cellar Sludge  
03 Pit Reclamation (Soil) 07 Other  
04 Soil From Spill

#### Waste State:

 Circle SLUDGE  
SOIL

#### Cell Deposit:

 Circle 1 2 3  
4 5 6


#### Waste Origin:

Where did the waste come from? (i.e. PAD 88X)


C.S. 47B

#### Waste Volume

Please indicate in either Barrels (BBLs), Yards (Yds), Cubic Feet (Feet)<sup>3</sup>, or Tonnage (Tons) in the appropriate box below.

 ☒ BBLs or ☒ YDs or ☐ Feet<sup>3</sup> or ☐ Tons  
10

#### Transport Type:

 Circle D Dump Truck H Hydrovac Truck  
V Vacuum Truck O Other

I acknowledge that only the following wastes are acceptable to deliver to the Land Farm:

- \*Tank Sludges that have been de-watered
- \*Pit Reclamation Waste
- \*Hydrovac Mud
- \*Soil from Spill Remediation that has been profiled prior to being taken to the Land Farm

Charles Hazelbush  
Transport Driver Signature

#### Tillage Details (Maintenance Personnel Only)

##### Tillage Start Time



10:20

##### Waste Area:

Please indicate the Length and Width of the Application in Feet



Length

25

Width

12

Dan Barden  
Maintenance Signature

Shwamali Wintaker  
Company Representative

9/20/18  
Date

Transport Company: URIE TRUCKINGTransport Driver: HAZELBUSHDate: 20 Sep 2018Time of Delivery 10:55Weather Conditions: Clear BreezyCompany Phone: 675-5266Driver Phone: 220-2553

Ticket NO.

12682

\*NOTE: if the Landfarm is covered with snow or frozen, temporarily place in stockpile area with a layer of clean soil over the top of the pile. Immediately till once the Landfarm is cleared of snow or unfrozen.

## Waste Type



01 Tank Sludge  
02 Pit Reclamation (Sludge)  
03 Pit Reclamation (Soil)  
04 Soil From Spill

05 Hydrovac Mud  
06 Cellar Sludge  
07 Other

## Waste State:



SLUDGE  
SOIL

## Cell Deposit:



1 2 3  
4 5 6

## Waste Origin:

Where did the waste come from? (i.e. PAD 88X)

C.S. 47b

## Waste Volume

Please indicate in either Barrels (BBLs), Yards (Yds), Cubic Feet (Feet)<sup>3</sup>, or Tons (Tons) in the appropriate box below.



BBLs

or

YDs

or

Feet<sup>3</sup>

or

Tons

## Transport Type:



D Dump Truck

H Hydrovac Truck

V Vacuum Truck

O Other

I acknowledge that only the following wastes are acceptable to deliver to the Land Farm:

\*Tank Sludges that have been de-watered

\*Pit Reclamation Waste

\*Hydrovac Mud

\*Soil from Spill Remediation that has been profiled prior to being taken to the Land Farm

Transport Driver Signature

## Tillage Details (Maintenance Personnel Only)



Tillage Start Time

10:55

Waste Area:

Please indicate the Length and Width of the Application in Feet



Length

25

Width

12

Maintenance Signature

Company Representative

Date

□SS



Transport Company: Urie TruckingTransport Driver: HAZELBUSHDate: Sep 20 2018Time of Delivery: 11:40Weather Conditions: Clear BreezyCompany Phone: 675-5766Driver Phone: 220-2553

Ticket NO.

12683

\*NOTE: if the Landfarm is covered with snow or frozen, temporarily place in stockpile area with a layer of clean soil over the top of the pile. Immediately till once the Landfarm is cleared of snow or unfrozen.

## Waste Type

01 Tank Sludge  
02 Pit Reclamation (Sludge)  
03 Pit Reclamation (Soil)  
04 Soil From Spill  
05 Hydrovac Mud  
06 Cellar Sludge  
07 Other

## Waste State:

SLUDGE  
SOIL

## Cell Deposit:

1 2 3  
4 5 6

## Waste Origin:

Where did the waste come from? (i.e. PAD 88X)

OS-476

## Waste Volume

Please indicate in either Barrels (BBLs), Yards (Yds), Cubic Feet (Feet)<sup>3</sup>, or Tonnage (Tons) in the appropriate box below.



BBLs

or

YDs

or

Feet<sup>3</sup>

or

Tons

## Transport Type:

D Dump Truck  
V Vacuum Truck

H Hydrovac Truck

O Other

I acknowledge that only the following wastes are acceptable to deliver to the Land Farm:

\*Tank Sludges that have been de-watered

\*Pit Reclamation Waste

\*Hydrovac Mud

\*Soil from Spill Remediation that has been profiled prior to being taken to the Land Farm

Charles Hazelbush  
Transport Driver Signature

## Tillage Details (Maintenance Personnel Only)

## Tillage Start Time

11:40

## Waste Area:

Please indicate the Length and Width of the Application in Feet

Length

Width

25

12

Doug Gardiner  
Maintenance Signature

Shannah Wether  
Company Representative

9/20/18  
Date



Transport Company: Urie Trucking

Transport Driver: HAZELBUSH

Date: 20 SEP 2018

Time of Delivery: 1:10 PM

Company Phone: 615-5766

Driver Phone: 910-220-2553

Weather Conditions: Clear Breeze

Ticket NO.  
**13750**

\*NOTE: if the Landfarm is covered with snow or frozen, temporarily place in stockpile area with a layer of clean soil over the top of the pile. Immediately till once the Landfarm is cleared of snow or unfrozen.

#### Waste Type

☒ 01 Tank Sludge  
☒ 02 Pit Reclamation (Sludge)  
☒ 03 Pit Reclamation (Soil)  
☐ 04 Soil From Spill  
☐ 05 Hydrovac Mud  
☐ 06 Cellar Sludge  
☐ 07 Other \_\_\_\_\_

#### Waste State:

☒ SLUDGE  
☒ SOIL

#### Cell Deposit:

☒ 1 2 3  
☐ 4 5 6

#### Waste Origin:

Where did the waste come from? (i.e. PAD 88X)

☒ C.S. 47b

#### Waste Volume

Please indicate in either Barrels (BBLs), Yards (Yds), Cubic Feet (Feet)<sup>3</sup>, or Tonage (Tons) in the appropriate box below.

☒ BBLs ☐ YDs ☐ Feet<sup>3</sup> ☐ Tons  
☒ or 10 or \_\_\_\_\_ or \_\_\_\_\_

#### Transport Type:

☒ D Dump Truck  
☐ V Vacuum Truck  
☐ H Hydrovac Truck  
☐ O Other \_\_\_\_\_

I acknowledge that only the following wastes are acceptable to deliver to the Land Farm:

- \*Tank Sludges that have been de-watered
- \*Pit Reclamation Waste
- \*Hydrovac Mud
- \*Soil from Spill Remediation that has been profiled prior to being taken to the Land Farm

Charles Hazelbush  
Transport Driver Signature

#### Tillage Details (Maintenance Personnel Only)

##### Tillage Start Time



1:10

Dore L. Anderson  
Maintenance Signature

##### Waste Area:

Please indicate the Length and Width of the Application in Feet

☒ Length 25 Width 12

[Signature]  
Company Representative

\_\_\_\_\_  
Date

Transport Company: URIE TRUCKING

Transport Driver: HAZELBUSCH

Date: 20 SEP 2018

Time of Delivery: 1:45

Weather Conditions: Clear Breeze

Company Phone: 675-5766

Driver Phone: 220-2553

Ticket NO.  
**13751**

\*NOTE: if the Landfarm is covered with snow or frozen, temporarily place in stockpile area with a layer of clean soil over the top of the pile. Immediately till once the Landfarm is cleared of snow or unfrozen.

### Waste Type

- 01 Tank Sludge  
02 Pit Reclamation (Sludge)  
03 Pit Reclamation (Soil)  
04 Soil From Spill  
05 Hydrovac Mud  
06 Cellar Sludge  
07 Other



Circle

### Waste State:

- SLUDGE  
SOIL



Circle

### Cell Deposit:

- 1 2 3  
4 5 6



Circle

### Waste Origin:

Where did the waste come from? (i.e. PAD 88X)



Circle

### Waste Volume

Please indicate in either Barrels (BBLs), Yards (Yds), Cubic Feet (Feet)<sup>3</sup>, or Tonnage (Tons) in the appropriate box below.



Circle

BBLs

or

YDs

or

Feet<sup>3</sup>

or

Tons

### Transport Type:

- D Dump Truck  
V Vacuum Truck



Circle

H Hydrovac Truck

O Other

I acknowledge that only the following wastes are acceptable to deliver to the Land Farm:

\*Tank Sludges that have been de-watered

\*Pit Reclamation Waste

\*Hydrovac Mud

\*Soil from Spill Remediation that has been profiled prior to being taken to the Land Farm

Charles Hazelbusch  
Transport Driver Signature

### Tillage Details (Maintenance Personnel Only)

#### Tillage Start Time



Circle

1:45

#### Waste Area:

Please indicate the Length and Width of the Application in Feet



Circle

Length

25

Width

12

[Signature]  
Company Representative

        
Date

[Signature]  
Maintenance Signature



Transport Company: URIC Trucking

Transport Driver: HAZELBUSH

Date: 20 SEP 2018

Weather Conditions: Clear Breezy





Time of Delivery 2:30

Company Phone: 675-5766



Driver Phone: 220-2553


Ticket NO.  
**13752**


\*NOTE: if the Landfarm is covered with snow or frozen, temporarily place in stockpile area with a layer of clean soil over the top of the pile. Immediately till once the Landfarm is cleared of snow or unfrozen.



Waste Type	
 01 Tank Sludge	05 Hydrovac Mud
 02 Pit Reclamation (Sludge)	06 Cellar Sludge
 03 Pit Reclamation (Soil)	07 Other _____
 04 Soil From Spill	

Waste State:
 SLUDGE
 SOIL

Cell Deposit:
 1 2 3
 4 5 6

Waste Origin:
Where did the waste come from? (i.e. PAD 88X)
 <u>C.S. 47b</u>

Waste Volume							
Please indicate in either Barrels (BBLs), Yards (Yds), Cubic Feet (Feet) <sup>3</sup> , or Tons (Tons) in the appropriate box below.							
 <table border="1"><tr><td>BBLs</td></tr><tr><td></td></tr></table>	BBLs		or	<table border="1"><tr><td>YDs</td></tr><tr><td><u>10</u></td></tr></table>	YDs	<u>10</u>	or
BBLs							
YDs							
<u>10</u>							
<table border="1"><tr><td>Feet<sup>3</sup></td></tr><tr><td></td></tr></table>	Feet <sup>3</sup>		or	<table border="1"><tr><td>Tons</td></tr><tr><td></td></tr></table>	Tons		
Feet <sup>3</sup>							
Tons							

Transport Type:	
 <u>D Dump Truck</u>	H Hydrovac Truck
 V Vacuum Truck	O Other _____

I acknowledge that only the following wastes are acceptable to deliver to the Land Farm:




\*Tank Sludges that have been de-watered

\*Pit Reclamation Waste

\*Hydrovac Mud

\*Soil from Spill Remediation that has been profiled prior to being taken to the Land Farm

Charles Hazelbush  
Transport Driver Signature

Tillage Details (Maintenance Personnel Only)						
 Tillage Start Time <table border="1"> <tr> <td><u>2:30</u></td> </tr> </table>	<u>2:30</u>	Waste Area: Please indicate the Length and Width of the Application in Feet  <table border="1"> <tr> <td>Length</td> <td>Width</td> </tr> <tr> <td><u>25</u></td> <td><u>12</u></td> </tr> </table>	Length	Width	<u>25</u>	<u>12</u>
<u>2:30</u>						
Length	Width					
<u>25</u>	<u>12</u>					
 <u>Doug Dandrian</u> Maintenance Signature						

[Signature]  
Company Representative

Date



Transport Company: URic Trucking

Transport Driver: HAZELBUSH

Date: 20 Sep 2018

Time of Delivery: 3:20 PM

Weather Conditions: Clear Breezy

Company Phone: 625-5266

Driver Phone: 220-2553

Ticket NO.  
**13753**

\*NOTE: if the Landfarm is covered with snow or frozen, temporarily place in stockpile area with a layer of clean soil over the top of the pile. Immediately till once the Landfarm is cleared of snow or unfrozen.

#### Waste Type

- 01 Tank Sludge  
02 Pit Reclamation (Sludge)  
03 Pit Reclamation (Soil)  
04 Soil From Spill  
05 Hydrovac Mud  
06 Cellar Sludge  
07 Other

#### Waste State:

SLUDGE  
SOIL

#### Cell Deposit:

1 2 3  
4 5 6

#### Waste Origin:

Where did the waste come from? (i.e. PAD 88X)

C.S. 47b

#### Waste Volume

Please indicate in either Barrels (BBLs), Yards (Yds), Cubic Feet (Feet<sup>3</sup>), or Tons (Tons) in the appropriate box below.

BBLs or YDs or Feet<sup>3</sup> or Tons

#### Transport Type:

D Dump Truck  
V Vacuum Truck  
H Hydrovac Truck  
O Other

I acknowledge that only the following wastes are acceptable to deliver to the Land Farm:

\*Tank Sludges that have been de-watered

\*Pit Reclamation Waste

\*Hydrovac Mud

\*Soil from Spill Remediation that has been profiled prior to being taken to the Land Farm

Charles Hazelbush  
Transport Driver Signature

#### Tillage Details (Maintenance Personnel Only)

##### Tillage Start Time



3:20

Donna Dandrea  
Maintenance Signature

##### Waste Area:

Please indicate the Length and Width of the Application in Feet

Length Width  
25 12

[Signature]  
Company Representative

                      
Date

Transport Company: Urie Trucking

Transport Driver: HAZELBUSH

Date: 20 Sep 2018

Weather Conditions: Clear Slight Breeze

Time of Delivery 4:15 PM

Company Phone: 970-675-5766

Driver Phone: 970-220-2553

Ticket NO.

**13754**

\*NOTE: if the Landfarm is covered with snow or frozen, temporarily place in stockpile area with a layer of clean soil over the top of the pile. Immediately till once the Landfarm is cleared of snow or unfrozen.

### Waste Type



01 Tank Sludge  
02 Pit Reclamation (Sludge)  
03 Pit Reclamation (Soil)  
04 Soil From Spill

05 Hydrovac Mud  
06 Cellar Sludge  
07 Other

### Waste State:



SLUDGE  
SOIL

### Cell Deposit:



1 2 3  
4 5 6

### Waste Origin:

Where did the waste come from? (i.e. PAD 88X)

C.S. 476

### Waste Volume

Please indicate in either Barrels (BBLS), Yards (Yds), Cubic Feet (Feet)<sup>3</sup>, or Tonnage (Tons) in the appropriate box below.



BBLS

or

YDs  
10

or

Feet<sup>3</sup>

or

Tons

### Transport Type:



D Dump Truck

H Hydrovac Truck

V Vacuum Truck

O Other

I acknowledge that only the following wastes are acceptable to deliver to the Land Farm:

\*Tank Sludges that have been de-watered

\*Pit Reclamation Waste

\*Hydrovac Mud

\*Soil from Spill Remediation that has been profiled prior to being taken to the Land Farm

Charles Hazelbush  
Transport Driver Signature

### Tillage Details (Maintenance Personnel Only)

#### Tillage Start Time



4:15

Dave Henderson  
Maintenance Signature

#### Waste Area:

Please indicate the Length and Width of the Application in Feet



Length

25

Width

10

[Signature]  
Company Representative

[Signature]  
Date



Transport Company: WELDONTransport Driver: CLAYTON COXDate: 9-24-18Weather Conditions: partly cloudyTime of Delivery: 8:35Company Phone: 435-789-4015Driver Phone: 435-621-1067

Ticket NO.

13651

\*NOTE: if the Landfarm is covered with snow or frozen, temporarily place in stockpile area with a layer of clean soil over the top of the pile. Immediately till once the Landfarm is cleared of snow or unfrozen.

## Waste Type

- ☒ 01 Tank Sludge  
☒ 02 Pit Reclamation (Sludge)  
☒ 03 Pit Reclamation (Soil)  
☐ 04 Soil From Spill
- ☐ 05 Hydrovac Mud  
☐ 06 Cellar Sludge  
☐ 07 Other

## Waste State:

- ☒ SLUDGE  
☒ SOIL

## Cell Deposit:

- ☒ 1 2 3  
☐ 4 5 6

## Waste Origin:

Where did the waste come from? (i.e. PAD 88X)

☒ CS 47

## Waste Volume

Please indicate in either Barrels (BBLS), Yards (Yds), Cubic Feet (Feet)<sup>3</sup>, or Tons (Tons) in the appropriate box below.

☒ ☐ BBLS or ☒ 10 YDs or ☐ Feet<sup>3</sup> or ☐ Tons

## Transport Type:

- ☒ D Dump Truck  
☐ H Hydrovac Truck  
☒ V Vacuum Truck  
☐ O Other

I acknowledge that only the following wastes are acceptable to deliver to the Land Farm:

- \*Tank Sludges that have been de-watered    \*Pit Reclamation Waste    \*Hydrovac Mud  
\*Soil from Spill Remediation that has been profiled prior to being taken to the Land Farm

[Signature]  
Transport Driver Signature

## Tillage Details (Maintenance Personnel Only)

## Tillage Start Time

8:35

[Signature]  
Maintenance Signature

## Waste Area:

Please indicate the Length and Width of the Application in Feet



Length

25

Width

10

[Signature]  
Company Representative

9-24-18  
Date



Transport Company: Weidar

Transport Driver: Dayton Cox

Date: 9-21-18

Time of Delivery: 9:25

Company Phone: 435-789-9015

Driver Phone: 435-621-1087

Weather Conditions: Sunny

Ticket NO.

**13652**

\*NOTE: if the Landfarm is covered with snow or frozen, temporarily place in stockpile area with a layer of clean soil over the top of the pile. Immediately till once the Landfarm is cleared of snow or unfrozen.

#### Waste Type

01 Tank Sludge  
02 Pit Reclamation (Sludge)  
03 Pit Reclamation (Soil)  
04 Soil From Spill  
05 Hydrovac Mud  
06 Cellar Sludge  
07 Other



Circle

#### Waste State:

SLUDGE  
SOIL



Circle

#### Cell Deposit:

1 2 3  
4 5 6



Circle

#### Waste Origin:

Where did the waste come from? (i.e. PAD 88X)



CS 47

#### Waste Volume

Please indicate in either Barrels (BBLs), Yards (Yds), Cubic Feet (Feet<sup>3</sup>), or Tons (Tons) in the appropriate box below.



BBLs

or

YDs  
10

or

Feet<sup>3</sup>

or

Tons

#### Transport Type:

D Dump Truck

H Hydrovac Truck



Circle

V Vacuum Truck

O Other

I acknowledge that only the following wastes are acceptable to deliver to the Land Farm:

\*Tank Sludges that have been de-watered

\*Pit Reclamation Waste

\*Hydrovac Mud

\*Soil from Spill Remediation that has been profiled prior to being taken to the Land Farm

Dayton Cox  
Transport Driver Signature

#### Tillage Details (Maintenance Personnel Only)

##### Tillage Start Time



9:25

Donna Handman  
Maintenance Signature

##### Waste Area:

Please indicate the Length and Width of the Application in Feet



Length  
25

Width  
17

[Signature]  
Company Representative

9-21-18  
Date

Transport Company: Weldan

Transport Driver: Clayton Cox

Date: 9-21-18

Time of Delivery 10 10

Company Phone: 435-789-9015

Driver Phone: 435-621-1087

Weather Conditions: Sunny

Ticket NO.

**13653**

\*NOTE: if the Landfarm is covered with snow or frozen, temporarily place in stockpile area with a layer of clean soil over the top of the pile. Immediately till once the Landfarm is cleared of snow or unfrozen.

### Waste Type

- 01 Tank Sludge  
02 Pit Reclamation (Sludge)  
03 Pit Reclamation (Soil)  
04 Soil From Spill  
05 Hydrovac Mud  
06 Cellar Sludge  
07 Other



### Waste State:

- SLUDGE  
SOIL



### Cell Deposit:

- 1 2 3  
4 5 6



### Waste Origin:

Where did the waste come from? (i.e. PAD 88X)



### Waste Volume

Please indicate in either Barrels (BBLs), Yards (Yds), Cubic Feet (Feet)<sup>3</sup>, or Tons (Tons) in the appropriate box below.



BBLs

or

YDs

or

Feet<sup>3</sup>

or

Tons

10

### Transport Type:

D Dump Truck

H Hydrovac Truck



V Vacuum Truck

O Other

I acknowledge that only the following wastes are acceptable to deliver to the Land Farm:

\*Tank Sludges that have been de-watered

\*Pit Reclamation Waste

\*Hydrovac Mud

\*Soil from Spill Remediation that has been profiled prior to being taken to the Land Farm

Transport Driver Signature

### Tillage Details (Maintenance Personnel Only)

#### Tillage Start Time



10:10

Maintenance Signature

#### Waste Area:

Please indicate the Length and Width of the Application in Feet



Length

Width

25

12

Company Representative

Date



Transport Company: WeldanTransport Driver: Clayton CoxDate: 9-21-16Time of Delivery: 10:50Company Phone: 435 789-9015Driver Phone: 435-611-1127Weather Conditions: Sunny

Ticket NO.

13654

\*NOTE: if the Landfarm is covered with snow or frozen, temporarily place in stockpile area with a layer of clean soil over the top of the pile. Immediately till once the Landfarm is cleared of snow or unfrozen.

## Waste Type



01 Tank Sludge  
02 Pit Reclamation (Sludge)  
03 Pit Reclamation (Soil)  
04 Soil From Spill

05 Hydrovac Mud  
06 Cellar Sludge  
07 Other

## Waste State:



SLUDGE  
SOIL

## Cell Deposit:



1 2 3  
4 5 6

## Waste Origin:

Where did the waste come from? (i.e. PAD 88X)



CS 47

## Waste Volume

Please indicate in either Barrels (BBLs), Yards (Yds), Cubic Feet (Feet)<sup>3</sup>, or Tonage (Tons) in the appropriate box below.



BBLs

or

YDs  
10

or

Feet<sup>3</sup>

or

Tons

## Transport Type:



D Dump Truck

H Hydrovac Truck

V Vacuum Truck

O Other

I acknowledge that only the following wastes are acceptable to deliver to the Land Farm:

\*Tank Sludges that have been de-watered

\*Pit Reclamation Waste

\*Hydrovac Mud

\*Soil from Spill Remediation that has been profiled prior to being taken to the Land Farm

Clayton Cox  
Transport Driver Signature

## Tillage Details (Maintenance Personnel Only)

## Tillage Start Time



10:50

Dorey Dardiner  
Maintenance Signature

## Waste Area:

Please indicate the Length and Width of the Application in Feet



Length

25

Width

12

[Signature]  
Company Representative

9/21/16  
Date



Transport Company: Weldan

Transport Driver: CLAYTON COX

Date: 9-21-18

Time of Delivery 11:25

Company Phone: 435 789-9015

Driver Phone: 435 621-1087

Weather Conditions: Sunny

Ticket NO.

**13655**

\*NOTE: if the Landfarm is covered with snow or frozen, temporarily place in stockpile area with a layer of clean soil over the top of the pile. Immediately till once the Landfarm is cleared of snow or unfrozen.

#### Waste Type

- ☒ 01 Tank Sludge  
☒ 02 Pit Reclamation (Sludge)  
☒ 03 Pit Reclamation (Soil)  
☐ 04 Soil From Spill
- ☐ 05 Hydrovac Mud  
☐ 06 Cellar Sludge  
☐ 07 Other

#### Waste State:

- ☒ SLUDGE  
☒ SOIL

#### Cell Deposit:

- ☒ 1 2 3  
☐ 4 5 6

#### Waste Origin:

Where did the waste come from? (i.e. PAD 88X)

☒ CS 47

#### Waste Volume

Please indicate in either Barrels (BBLs), Yards (Yds), Cubic Feet (Feet)<sup>3</sup>, or Tonnage (Tons) in the appropriate box below.

☒ BBLs or ☒ YDs or ☐ Feet<sup>3</sup> or ☐ Tons

#### Transport Type:

- ☒ D Dump Truck  
☐ H Hydrovac Truck  
☒ V Vacuum Truck  
☐ O Other

I acknowledge that only the following wastes are acceptable to deliver to the Land Farm:

- \*Tank Sludges that have been de-watered    \*Pit Reclamation Waste    \*Hydrovac Mud  
\*Soil from Spill Remediation that has been profiled prior to being taken to the Land Farm

CLAYTON COX  
Transport Driver Signature

#### Tillage Details (Maintenance Personnel Only)

##### Tillage Start Time



11:25

Dana Dandine  
Maintenance Signature

##### Waste Area:

Please indicate the Length and Width of the Application in Feet

☒ Length 25 Width 12

[Signature]  
Company Representative

9-21-18  
Date

Transport Company: WELDON

Transport Driver: CLAYTON COX

Date: 9-21-18

Time of Delivery 12:00

Company Phone: 435-789-9015

Driver Phone: 435-601-1087

Weather Conditions: SUNNY

Ticket NO.

**13656**

\*NOTE: if the Landfarm is covered with snow or frozen, temporarily place in stockpile area with a layer of clean soil over the top of the pile. Immediately till once the Landfarm is cleared of snow or unfrozen.

#### Waste Type



01 Tank Sludge

02 Pit Reclamation (Sludge)

03 Pit Reclamation (Soil)

04 Soil From Spill

05 Hydrovac Mud

06 Cellar Sludge

07 Other

#### Waste State:



SLUDGE

SOIL

#### Cell Deposit:



1

2

3

4

5

6

#### Waste Origin:

Where did the waste come from? (i.e. PAD 88X)



CS 417

#### Waste Volume

Please indicate in either Barrels (BBLs), Yards (Yds), Cubic Feet (Feet)<sup>3</sup>, or Tonnage (Tons) in the appropriate box below.



BBLs

or

YDs

or

Feet<sup>3</sup>

or

Tons

#### Transport Type:



D Dump Truck

V Vacuum Truck

H Hydrovac Truck

O Other

I acknowledge that only the following wastes are acceptable to deliver to the Land Farm:

\*Tank Sludges that have been de-watered

\*Pit Reclamation Waste

\*Hydrovac Mud

\*Soil from Spill Remediation that has been profiled prior to being taken to the Land Farm

Clayton Cox  
Transport Driver Signature

#### Tillage Details (Maintenance Personnel Only)



Tillage Start Time

12:00

Doug D. Smith  
Maintenance Signature

Waste Area:

Please indicate the Length and Width of the Application in Feet



Length

25

Width

12

Channah Whiteaker  
Company Representative

9-21-18

Date



Transport Company: weidon

Transport Driver: Quinton Cox

Date: 9-21-18

Time of Delivery: 1:20

Company Phone: 435-789-9015

Driver Phone: 435-621-1087

Weather Conditions: Sunny

Ticket NO.  
**13657**

\*NOTE: if the Landfarm is covered with snow or frozen, temporarily place in stockpile area with a layer of clean soil over the top of the pile. Immediately till once the Landfarm is cleared of snow or unfrozen.

#### Waste Type

- 01 Tank Sludge  
02 Pit Reclamation (Sludge)  
03 Pit Reclamation (Soil)  
04 Soil From Spill  
05 Hydrovac Mud  
06 Cellar Sludge  
07 Other

#### Waste State:

- SLUDGE  
SOIL

#### Cell Deposit:

- 1 2 3  
4 5 6

#### Waste Origin:

Where did the waste come from? (i.e. PAD 88X)

CS 47

#### Waste Volume

Please indicate in either Barrels (BBLs), Yards (Yds), Cubic Feet (Feet)<sup>3</sup>, or Tons (Tons) in the appropriate box below.

☒ BBLs or ☒ YDs or ☐ Feet<sup>3</sup> or ☐ Tons

#### Transport Type:

- D Dump Truck  
V Vacuum Truck  
H Hydrovac Truck  
O Other

I acknowledge that only the following wastes are acceptable to deliver to the Land Farm:

- \*Tank Sludges that have been de-watered
- \*Pit Reclamation Waste
- \*Hydrovac Mud
- \*Soil from Spill Remediation that has been profiled prior to being taken to the Land Farm

Quinton Cox  
Transport Driver Signature

#### Tillage Details (Maintenance Personnel Only)

##### Tillage Start Time



1:20

Dore Brandin  
Maintenance Signature

##### Waste Area:

Please indicate the Length and Width of the Application in Feet

Length: 25 Width: 12

Havanah White  
Company Representative

9-21-18

Date



Transport Company: WEIDON

Transport Driver: CLAYTON COX

Date: 9-21-15

Time of Delivery 1:55

Company Phone: 435-789-9015

Driver Phone: 435-621-1087

Weather Conditions: SUNNY

Ticket NO.

**13658**

\*NOTE: if the Landfarm is covered with snow or frozen, temporarily place in stockpile area with a layer of clean soil over the top of the pile. Immediately till once the Landfarm is cleared of snow or unfrozen.

#### Waste Type



01 Tank Sludge  
02 Pit Reclamation (Sludge)  
03 Pit Reclamation (Soil)  
04 Soil From Spill

05 Hydrovac Mud  
06 Cellar Sludge  
07 Other \_\_\_\_\_

#### Waste State:



SLUDGE

Circle SOIL

#### Cell Deposit:



1 2 3  
4 5 6

#### Waste Origin:

Where did the waste come from? (i.e. PAD 88X)



CS 47

#### Waste Volume

Please indicate in either Barrels (BBLs), Yards (Yds), Cubic Feet (Feet)<sup>3</sup>, or Tons (Tons) in the appropriate box below.



BBLs

or

YDs

or

Feet<sup>3</sup>

or

Tons

#### Transport Type:

D Dump Truck

H Hydrovac Truck



Circle V Vacuum Truck

O Other \_\_\_\_\_

I acknowledge that only the following wastes are acceptable to deliver to the Land Farm:

\*Tank Sludges that have been de-watered

\*Pit Reclamation Waste

\*Hydrovac Mud

\*Soil from Spill Remediation that has been profiled prior to being taken to the Land Farm

Clayton Cox

Transport Driver Signature

#### Tillage Details (Maintenance Personnel Only)



Tillage Start Time

1:55

Dore Dandrea

Maintenance Signature

Waste Area:

Please indicate the Length and Width of the Application in Feet



Length

25

Width

12

Joannah Wintak

Company Representative

9-21-16

Date

Transport Company: WPIDONTransport Driver: CLAYTON COXDate: 9-21-18Time of Delivery: 2:30Company Phone: 435 789-9015Driver Phone: 435 621 1087Weather Conditions: SUNNY

Ticket NO.

13659

\*NOTE: if the Landfarm is covered with snow or frozen, temporarily place in stockpile area with a layer of clean soil over the top of the pile. Immediately till once the Landfarm is cleared of snow or unfrozen.

## Waste Type



01 Tank Sludge

02 Pit Reclamation (Sludge)

03 Pit Reclamation (Soil)

04 Soil From Spill

05 Hydrovac Mud

06 Cellar Sludge

07 Other

## Waste State:



SLUDGE

SOIL

## Cell Deposit:



① 2 3

4 5 6

## Waste Origin:

Where did the waste come from? (i.e. PAD 88X)

55 47

## Waste Volume

Please indicate in either Barrels (BBLs), Yards (Yds), Cubic Feet (Feet)<sup>3</sup>, or Tons (Tons) in the appropriate box below.

BBLs

or

YDs

or

Feet<sup>3</sup>

or

Tons

## Transport Type:



D Dump Truck

V Vacuum Truck

H Hydrovac Truck

O Other

I acknowledge that only the following wastes are acceptable to deliver to the Land Farm:

\*Tank Sludges that have been de-watered

\*Pit Reclamation Waste

\*Hydrovac Mud

\*Soil from Spill Remediation that has been profiled prior to being taken to the Land Farm

Transport Driver Signature

## Tillage Details (Maintenance Personnel Only)



Tillage Start Time

2:30

Maintenance Signature

Waste Area:

Please indicate the Length and Width of the Application in Feet



Length

25

Width

12

Company Representative

Date



Transport Company: Weldon

Transport Driver: Clinton Cox

Date: 9-21-18

Weather Conditions: Sunny

Time of Delivery 3:12

Company Phone: 435 789-9015


Driver Phone: 435 621 1067

Ticket NO.


**13660**

\*NOTE: if the Landfarm is covered with snow or frozen, temporarily place in stockpile area with a layer of clean soil over the top of the pile. Immediately till once the Landfarm is cleared of snow or unfrozen.


### Waste Type

-  01 Tank Sludge  
02 Pit Reclamation (Sludge)  
03 Pit Reclamation (Soil)  
04 Soil From Spill
- 05 Hydrovac Mud  
06 Cellar Sludge  
07 Other

### Waste State:


-  SLUDGE  
SOIL

### Cell Deposit:

-  4 2 3  
4 5 6


### Waste Origin:

Where did the waste come from? (i.e. PAD 88X)


 CS 47

### Waste Volume

Please indicate in either Barrels (BBLs), Yards (Yds), Cubic Feet (Feet)<sup>3</sup>, or Tonnage (Tons) in the appropriate box below.

 BBLs or 10 YDs or Feet<sup>3</sup> or Tons

### Transport Type:

- D Dump Truck H Hydrovac Truck  
 V Vacuum Truck O Other

I acknowledge that only the following wastes are acceptable to deliver to the Land Farm:

- \*Tank Sludges that have been de-watered
- \*Pit Reclamation Waste
- \*Hydrovac Mud
- \*Soil from Spill Remediation that has been profiled prior to being taken to the Land Farm

Clinton Cox  
Transport Driver Signature

### Tillage Details (Maintenance Personnel Only)

#### Tillage Start Time




3:12

Doug Borden  
Maintenance Signature

#### Waste Area:

Please indicate the Length and Width of the Application in Feet

 Length 25 Width 12

James White  
Company Representative

9-21-18  
Date



Transport Company: Weiden

Transport Driver: CLAYTON COV

Date: 9-21-18

Time of Delivery 3:50

Company Phone: 435-789-9015

Driver Phone: 435 621 1087

Ticket NO. **13661**

Weather Conditions: Sunny

\*NOTE: if the Landfarm is covered with snow or frozen, temporarily place in stockpile area with a layer of clean soil over the top of the pile. Immediately till once the Landfarm is cleared of snow or unfrozen.

#### Waste Type

- 01 Tank Sludge  
02 Pit Reclamation (Sludge)  
03 Pit Reclamation (Soil)  
04 Soil From Spill
- 05 Hydrovac Mud  
06 Cellar Sludge  
07 Other

#### Waste State:

- SLUDGE  
SOIL

#### Cell Deposit:

- 1 2 3  
4 5 6

#### Waste Origin:

Where did the waste come from? (i.e. PAD 88X)

CS 47

#### Waste Volume

Please indicate in either Barrels (BBLs), Yards (Yds), Cubic Feet (Feet)<sup>3</sup>, or Tons (Tons) in the appropriate box below.

BBLS or YDs or Feet<sup>3</sup> or Tons

10

#### Transport Type:

D Dump Truck

H Hydrovac Truck

V Vacuum Truck

O Other

I acknowledge that only the following wastes are acceptable to deliver to the Land Farm:

\*Tank Sludges that have been de-watered

\*Pit Reclamation Waste

\*Hydrovac Mud

\*Soil from Spill Remediation that has been profiled prior to being taken to the Land Farm

Clayton Cov  
Transport Driver Signature

#### Tillage Details (Maintenance Personnel Only)

##### Tillage Start Time

3:50

Doug Bandman  
Maintenance Signature

##### Waste Area:

Please indicate the Length and Width of the Application in Feet

Length

Width

25

12

Javanah Whiteaker  
Company Representative

9-21-18

Date

#1

Transport Company: URIC Trucking IncTransport Driver: HAZELBUSHDate: 21 Sep 2010Time of Delivery: 8:49Weather Conditions: ClearCompany Phone: 675-5766Driver Phone: 220-2553

Ticket NO.

13755

\*NOTE: if the Landfarm is covered with snow or frozen, temporarily place in stockpile area with a layer of clean soil over the top of the pile. Immediately till once the Landfarm is cleared of snow or unfrozen.

## Waste Type



01 Tank Sludge

02 Pit Reclamation (Sludge)

03 Pit Reclamation (Soil)

04 Soil From Spill

05 Hydrovac Mud

06 Cellar Sludge

07 Other

## Waste State:



SLUDGE

SOIL

## Cell Deposit:



1 2 3

4 5 6

## Waste Origin:

Where did the waste come from? (i.e. PAD 88X)



C.S. 47b

## Waste Volume

Please indicate in either Barrels (BBLs), Yards (Yds), Cubic Feet (Feet)<sup>3</sup>, or Tonnage (Tons) in the appropriate box below.

BBLs

or

YDs

or

Feet<sup>3</sup>

or

Tons

## Transport Type:



D Dump Truck

V Vacuum Truck

H Hydrovac Truck

O Other

I acknowledge that only the following wastes are acceptable to deliver to the Land Farm:

\*Tank Sludges that have been de-watered

\*Pit Reclamation Waste

\*Hydrovac Mud

\*Soil from Spill Remediation that has been profiled prior to being taken to the Land Farm

Charles Hazelbush

Transport Driver Signature

## Tillage Details (Maintenance Personnel Only)



Tillage Start Time

8:49

Dave Bandman

Maintenance Signature

## Waste Area:

Please indicate the Length and Width of the Application in Feet



Length

25

Width

12

Company Representative

Date



Transport Company: U. Lie TruckingTransport Driver: HAZELBUSHDate: 21 Sep 2018Time of Delivery: 955Company Phone: 605-57166Driver Phone: 220-2553Weather Conditions: Clear

Ticket NO.

13756

\*NOTE: if the Landfarm is covered with snow or frozen, temporarily place in stockpile area with a layer of clean soil over the top of the pile. Immediately till once the Landfarm is cleared of snow or unfrozen.

## Waste Type

- 01 Tank Sludge  
02 Pit Reclamation (Sludge)  
03 Pit Reclamation (Soil)  
04 Soil From Spill
- 05 Hydrovac Mud  
06 Cellar Sludge  
07 Other

## Waste State:

- SLUDGE  
SOIL

## Cell Deposit:

- 1 2 3  
4 5 6

## Waste Origin:

Where did the waste come from? (i.e. PAD 88X)

C.S. 420

## Waste Volume

Please indicate in either Barrels (BBLs), Yards (Yds), Cubic Feet (Feet)<sup>3</sup>, or Tons (Tons) in the appropriate box below.

☒ BBLs or ☒ YDs or ☐ Feet<sup>3</sup> or ☐ Tons

10

## Transport Type:

- D Dump Truck  
V Vacuum Truck  
H Hydrovac Truck  
O Other

I acknowledge that only the following wastes are acceptable to deliver to the Land Farm:

\*Tank Sludges that have been de-watered

\*Pit Reclamation Waste

\*Hydrovac Mud

\*Soil from Spill Remediation that has been profiled prior to being taken to the Land Farm

Charles H. Hazelbush  
Transport Driver Signature

## Tillage Details (Maintenance Personnel Only)

## Tillage Start Time

9:55

Dave Warden  
Maintenance Signature

## Waste Area:

Please indicate the Length and Width of the Application in Feet

☒ Length 25 Width 12

[Signature]  
Company Representative

[Signature]  
Date



#3

Transport Company:

Urie Trucking

Transport Driver:

HAZELBUSH

Date:

21 Sep 2010

Time of Delivery:

10:38

Company Phone:

970-675-5766

Driver Phone:

970-220-2553

Weather Conditions:

Clear

Ticket NO.

**13757**

\*NOTE: if the Landfarm is covered with snow or frozen, temporarily place in stockpile area with a layer of clean soil over the top of the pile. Immediately till once the Landfarm is cleared of snow or unfrozen.

## Waste Type



01 Tank Sludge

02 Pit Reclamation (Sludge)

03 Pit Reclamation (Soil)

04 Soil From Spill

05 Hydrovac Mud

06 Cellar Sludge

07 Other

## Waste State:



SLUDGE

SOIL

## Cell Deposit:



1

2

3

4

5

6

## Waste Origin:

Where did the waste come from? (i.e. PAD 88X)

C.S. 476

## Waste Volume

Please indicate in either Barrels (BBLs), Yards (Yds), Cubic Feet (Feet)<sup>3</sup>, or Tonage (Tons) in the appropriate box below.



BBLs

or

YDs

or

Feet<sup>3</sup>

or

Tons

## Transport Type:



D Dump Truck

V Vacuum Truck

H Hydrovac Truck

O Other

I acknowledge that only the following wastes are acceptable to deliver to the Land Farm:

\*Tank Sludges that have been de-watered

\*Pit Reclamation Waste

\*Hydrovac Mud

\*Soil from Spill Remediation that has been profiled prior to being taken to the Land Farm

Charles Hazelbush

Transport Driver Signature

## Tillage Details (Maintenance Personnel Only)



Tillage Start Time

10:38

Dave Hadden

Maintenance Signature

Waste Area:

Please indicate the Length and Width of the Application in Feet



Length

25

Width

12

Company Representative

Date

#4

Transport Company: Urie TruckingTransport Driver: HAZELBUSHDate: 21 Sep 2018Time of Delivery: 11:15





Weather Conditions: \_\_\_\_\_




Company Phone: 970-675-5166Driver Phone: 970-220-2553

Ticket NO.

12684

\*NOTE: if the Landfarm is covered with snow or frozen, temporarily place in stockpile area with a layer of clean soil over the top of the pile. Immediately till once the Landfarm is cleared of snow or unfrozen.

Waste Type	Waste State:	Cell Deposit:	Waste Origin:
 01 Tank Sludge 02 Pit Reclamation (Sludge) 03 Pit Reclamation (Soil) 04 Soil From Spill	05 Hydrovac Mud 06 Cellar Sludge 07 Other _____	SLUDGE  SOIL	1 2 3  4 5 6 Where did the waste come from? (i.e. PAD 88X)  <u>CS 476</u>

Waste Volume	Transport Type:
Please indicate in either Barrels (BBLs), Yards (Yds), Cubic Feet (Feet) <sup>3</sup> , or Tonnage (Tons) in the appropriate box below.  <div style="display: flex; justify-content: space-around;"> <div>BBLs <div style="border: 1px solid black; width: 40px; height: 40px;"></div></div> <div>or</div> <div>YDs <u>10</u></div> <div>or</div> <div>Feet<sup>3</sup> <div style="border: 1px solid black; width: 40px; height: 40px;"></div></div> <div>or</div> <div>Tons <div style="border: 1px solid black; width: 40px; height: 40px;"></div></div> </div>	<div style="display: flex; justify-content: space-around;"> <div>  <div style="border: 1px solid black; border-radius: 50%; padding: 5px;">D Dump Truck</div> </div> <div>H Hydrovac Truck</div> </div> <div style="display: flex; justify-content: space-around;"> <div>  <div style="border: 1px solid black; border-radius: 50%; padding: 5px;">V Vacuum Truck</div> </div> <div>O Other _____</div> </div>

I acknowledge that only the following wastes are acceptable to deliver to the Land Farm:

\*Tank Sludges that have been de-watered



\*Pit Reclamation Waste

\*Hydrovac Mud

\*Soil from Spill Remediation that has been profiled prior to being taken to the Land Farm

Charles Hazelbush

Transport Driver Signature

Tillage Details (Maintenance Personnel Only)	
 <div style="border: 1px solid black; padding: 5px;">Tillage Start Time <u>11:15</u></div>	<div style="border: 1px solid black; padding: 5px;">Waste Area:</div> Please indicate the Length and Width of the Application in Feet  <div style="display: flex; justify-content: space-around;"> <div style="border: 1px solid black; padding: 5px;">Length <u>25</u></div> <div style="border: 1px solid black; padding: 5px;">Width <u>12</u></div> </div>
<u>Don Barden</u> Maintenance Signature	

Shirah White  
 Company Representative

Date \_\_\_\_\_



#5

Transport Company: Urie TruckingTransport Driver: HAZELBUSHDate: 21 SEP 2018Time of Delivery 11:50Weather Conditions: CLEAR CalmCompany Phone: 970-675-5766

Ticket NO.

12685

Driver Phone: 970-220-2553

\*NOTE: if the Landfarm is covered with snow or frozen, temporarily place in stockpile area with a layer of clean soil over the top of the pile. Immediately till once the Landfarm is cleared of snow or unfrozen.

## Waste Type

01 Tank Sludge  
02 Pit Reclamation (Sludge)  
03 Pit Reclamation (Soil)  
04 Soil From Spill

05 Hydrovac Mud  
06 Cellar Sludge  
07 Other

## Waste State:

SLUDGE  
SOIL

## Cell Deposit:

1 2 3  
4 5 6

## Waste Origin:

Where did the waste come from? (i.e. PAD 88X)

CS-476

## Waste Volume

Please indicate in either Barrels (BBLS), Yards (Yds), Cubic Feet (Feet)<sup>3</sup>, or Tonnage (Tons) in the appropriate box below.

BBLS or YDs or Feet<sup>3</sup> or Tons

10

## Transport Type:

D Dump Truck  
H Hydrovac Truck  
V Vacuum Truck  
O Other

I acknowledge that only the following wastes are acceptable to deliver to the Land Farm:

\*Tank Sludges that have been de-watered

\*Pit Reclamation Waste

\*Hydrovac Mud

\*Soil from Spill Remediation that has been profiled prior to being taken to the Land Farm

Charles Hazelbush

Transport Driver Signature

## Tillage Details (Maintenance Personnel Only)

## Tillage Start Time

11:50

## Waste Area:

Please indicate the Length and Width of the Application in Feet

Length

Width

2512Dave Sandin  
Maintenance Signature

Date

Shannah Whitaker  
Company Representative



#6





Transport Company: Urie TruckingTransport Driver: HAZELBUSHDate: 21 Sep 2018Time of Delivery: 1:05 PMWeather Conditions: Clear Small Breeze

Ticket NO.



12686


Company Phone: 970-625-5766Driver Phone: 970-220-2553



\*NOTE: if the Landfarm is covered with snow or frozen, temporarily place in stockpile area with a layer of clean soil over the top of the pile. Immediately till once the Landfarm is cleared of snow or unfrozen.



Waste Type	
 01 Tank Sludge	05 Hydrovac Mud
 02 Pit Reclamation (Sludge)	06 Cellar Sludge
 03 Pit Reclamation (Soil)	07 Other
 04 Soil From Spill	

Waste State:
 SLUDGE
 SOIL

Cell Deposit:
 1 2 3
 4 5 6

Waste Origin:
Where did the waste come from? (i.e. PAD 88X)
 C.S. 476

Waste Volume			
Please indicate in either Barrels (BBLS), Yards (Yds), Cubic Feet (Feet) <sup>3</sup> , or Tonnage (Tons) in the appropriate box below.			
 BBLS	or	 YDs	or
		10	
		Feet <sup>3</sup>	or
			Tons

Transport Type:	
 D Dump Truck	H Hydrovac Truck
 V Vacuum Truck	O Other

I acknowledge that only the following wastes are acceptable to deliver to the Land Farm:

\*Tank Sludges that have been de-watered




\*Pit Reclamation Waste

\*Hydrovac Mud

\*Soil from Spill Remediation that has been profiled prior to being taken to the Land Farm

Charles Hazelbush  
Transport Driver Signature

## Tillage Details (Maintenance Personnel Only)

Tillage Start Time	Waste Area:
 1.05	Please indicate the Length and Width of the Application in Feet
 25	 12

Dore Gardner  
Maintenance Signature

Shawna Whitaker  
Company Representative

Date

#7

Transport Company: Urie TruckingTransport Driver: HAZELBUSHDate: 21 Sep 2018Time of Delivery: 1:50 AMCompany Phone: 970-645-5766Driver Phone: 970-220-2553

Weather Conditions: \_\_\_\_\_

Ticket NO.

12687

\*NOTE: if the Landfarm is covered with snow or frozen, temporarily place in stockpile area with a layer of clean soil over the top of the pile. Immediately till once the Landfarm is cleared of snow or unfrozen.

## Waste Type



01 Tank Sludge  
 02 Pit Reclamation (Sludge)  
 03 Pit Reclamation (Soil)  
 04 Soil From Spill

05 Hydrovac Mud  
 06 Cellar Sludge  
 07 Other \_\_\_\_\_

## Waste State:



SLUDGE  
 SOIL

## Cell Deposit:



1 2 3  
 4 5 6

## Waste Origin:

Where did the waste come from? (i.e. PAD 88X)



C.S. 476

## Waste Volume

Please indicate in either Barrels (BBLS), Yards (Yds), Cubic Feet (Feet)<sup>3</sup>, or Tonnage (Tons) in the appropriate box below.

BBLS

or

YDs

or

Feet<sup>3</sup>

or

Tons

## Transport Type:



D Dump Truck

H Hydrovac Truck

V Vacuum Truck

O Other \_\_\_\_\_

I acknowledge that only the following wastes are acceptable to deliver to the Land Farm:

\*Tank Sludges that have been de-watered

\*Pit Reclamation Waste

\*Hydrovac Mud

\*Soil from Spill Remediation that has been profiled prior to being taken to the Land Farm

Charles Hazelbush

Transport Driver Signature

## Tillage Details (Maintenance Personnel Only)



Tillage Start Time

1:50

Waste Area:

Please indicate the Length and Width of the Application in Feet



Length

25

Width

10

Doug Sanderson

Maintenance Signature

Shannah Whitaker

Company Representative

Date \_\_\_\_\_



# 8

Transport Company: UNIC TRUCKINGTransport Driver: HAZELBUSHDate: 21 SEP 2018

Time of Delivery

2:25Company Phone: 970-625-5766Driver Phone: 970-220-2553Weather Conditions: CIR BRZ

Ticket NO.

12688

\*NOTE: if the Landfarm is covered with snow or frozen, temporarily place in stockpile area with a layer of clean soil over the top of the pile. Immediately till once the Landfarm is cleared of snow or unfrozen.

## Waste Type

01 Tank Sludge  
02 Pit Reclamation (Sludge)  
03 Pit Reclamation (Soil)  
04 Soil From Spill

05 Hydrovac Mud  
06 Cellar Sludge  
07 Other

## Waste State:

SLUDGE  
SOIL

## Cell Deposit:

1 2 3  
4 5 6

## Waste Origin:

Where did the waste come from? (i.e. PAD 88X)

C.S. 476

## Waste Volume

Please indicate in either Barrels (BBLs), Yards (Yds), Cubic Feet (Feet)<sup>3</sup>, or Tonnage (Tons) in the appropriate box below.

BBLs

or

YDs

or

Feet<sup>3</sup>

or

Tons

10

## Transport Type:



D Dump Truck

H Hydrovac Truck

V Vacuum Truck

O Other

I acknowledge that only the following wastes are acceptable to deliver to the Land Farm:

\*Tank Sludges that have been de-watered

\*Pit Reclamation Waste

\*Hydrovac Mud

\*Soil from Spill Remediation that has been profiled prior to being taken to the Land Farm

Charles Hazelbush

Transport Driver Signature

## Tillage Details (Maintenance Personnel Only)

## Tillage Start Time

2:25

## Waste Area:

Please indicate the Length and Width of the Application in Feet



Length

Width

2512Dave Gardner

Maintenance Signature

Lawrence Whitaker

Company Representative

Date







#9



Transport Company: UIC TRUCKING  
 Transport Driver: HAZELBUSH  
 Date: 21 SEP 2010 Time of Delivery: 3:00 PM  
 Weather Conditions: CLR BRZ



Ticket NO.  
12689


Company Phone: 930-675-5766  
 Driver Phone: 930-220-2553


\*NOTE: if the Landfarm is covered with snow or frozen, temporarily place in stockpile area with a layer of clean soil over the top of the pile. Immediately till once the Landfarm is cleared of snow or unfrozen.



Waste Type	
 01 Tank Sludge	05 Hydrovac Mud
 02 Pit Reclamation (Sludge)	06 Cellar Sludge
 03 Pit Reclamation (Soil)	07 Other
 04 Soil From Spill	

Waste State:
 SLUDGE
 SOIL

Cell Deposit:
 1 2 3
 4 5 6

Waste Origin:
Where did the waste come from? (i.e. PAD 88X)
 C.S. 47b



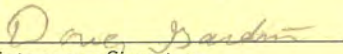
Waste Volume			
Please indicate in either Barrels (BBLs), Yards (Yds), Cubic Feet (Feet) <sup>3</sup> , or Tons (Tons) in the appropriate box below.			
 BBLs	or	YDs	or
		10	
Feet <sup>3</sup>	or	Tons	

Transport Type:	
 D Dump Truck	H Hydrovac Truck
 V Vacuum Truck	O Other

I acknowledge that only the following wastes are acceptable to deliver to the Land Farm:

- \*Tank Sludges that have been de-watered
- \*Pit Reclamation Waste
- \*Hydrovac Mud
- \*Soil from Spill Remediation that has been profiled prior to being taken to the Land Farm

Charles Hazelbush  
 Transport Driver Signature

Tillage Details (Maintenance Personnel Only)	
 Tillage Start Time	<u>3:00</u>
Tillage Area:	
Please indicate the Length and Width of the Application in Feet	
 Length	Width
<u>25</u>	<u>12</u>
 Maintenance Signature	

Shawana Whitaker  
 Company Representative

Date \_\_\_\_\_

Transport Company: Unie Trucking

Transport Driver: HAYELBUSN

Date: 21 Sep 2018

Time of Delivery: 3:35 PM

Weather Conditions: CLR BRZ

Company Phone: 970-675-5766

Driver Phone: 970-220-2553

Ticket NO.

12690

\*NOTE: if the Landfarm is covered with snow or frozen, temporarily place in stockpile area with a layer of clean soil over the top of the pile. Immediately till once the Landfarm is cleared of snow or unfrozen.

Waste Type



- |                             |                  |
|-----------------------------|------------------|
| 01 Tank Sludge              | 05 Hydrovac Mud  |
| 02 Pit Reclamation (Sludge) | 06 Cellar Sludge |
| 03 Pit Reclamation (Soil)   | 07 Other         |
| 04 Soil From Spill          |                  |

Waste State:



SLUDGE  
SOIL

Cell Deposit:



1 2 3  
4 5 6

Waste Origin:

Where did the waste come from? (i.e. PAD 88X)

C.S. 476

Waste Volume

Please indicate in either Barrels (BBLs), Yards (Yds), Cubic Feet (Feet)<sup>3</sup>, or Tonage (Tons) in the appropriate box below.



BBLs	or	YDs	or	Feet <sup>3</sup>	or	Tons
		10				

Transport Type:



D Dump Truck

V Vacuum Truck

H Hydrovac Truck

O Other

I acknowledge that only the following wastes are acceptable to deliver to the Land Farm:

- \*Tank Sludges that have been de-watered
- \*Pit Reclamation Waste
- \*Hydrovac Mud
- \*Soil from Spill Remediation that has been profiled prior to being taken to the Land Farm

Charles Hayelbusn

Transport Driver Signature

Tillage Details (Maintenance Personnel Only)



Tillage Start Time

3:35

Waste Area:

Please indicate the Length and Width of the Application in Feet



Length	Width
25	12

Kusnah Whitaker

Company Representative

Date

Doug Bardin  
Maintenance Signature




Transport Company: Urie TruckingTransport Driver: HAZELBUSHDate: 21 SEP 2018Time of Delivery: 4:10 PMCompany Phone: 695-5166Driver Phone: 220-2553Weather Conditions: CLR BZ

Ticket NO.

12691

\*NOTE: if the Landfarm is covered with snow or frozen, temporarily place in stockpile area with a layer of clean soil over the top of the pile. Immediately till once the Landfarm is cleared of snow or unfrozen.

## Waste Type


 01 Tank Sludge  
02 Pit Reclamation (Sludge)  
03 Pit Reclamation (Soil)  
04 Soil From Spill

05 Hydrovac Mud  
06 Cellar Sludge  
07 Other

## Waste State:


 SLUDGE  
SOIL

## Cell Deposit:

 1 2 3  
4 5 6


## Waste Origin:

Where did the waste come from? (i.e. PAD 88X)

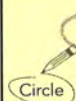
 C.S. 416

## Waste Volume

Please indicate in either Barrels (BBLs), Yards (Yds), Cubic Feet (Feet)<sup>3</sup>, or Tons (Tons) in the appropriate box below.

 BBLs or YDs or Feet<sup>3</sup> or Tons  
10

## Transport Type:

 D Dump Truck  
V Vacuum Truck

H Hydrovac Truck

O Other

I acknowledge that only the following wastes are acceptable to deliver to the Land Farm:

\*Tank Sludges that have been de-watered

\*Pit Reclamation Waste

\*Hydrovac Mud

\*Soil from Spill Remediation that has been profiled prior to being taken to the Land Farm

Charles Hazelbush  
Transport Driver Signature

## Tillage Details (Maintenance Personnel Only)

## Tillage Start Time

4:10

## Waste Area:

Please indicate the Length and Width of the Application in Feet



Length

25

Width

12

Wally Bardin  
Maintenance Signature

Jawiah Whitaker  
Company Representative

Date



Transport Company: URTETransport Driver: Sarah DDate: 9-21-2018Time of Delivery: 9:55Company Phone: 675-5766Driver Phone: 628-2763Weather Conditions: DryTicket NO.  
**13700**

\*NOTE: If the Landfarm is covered with snow or frozen, temporarily place in stockpile area with a layer of clean soil over the top of the pile. Immediately till once the Landfarm is cleared of snow or unfrozen.

## Waste Type

- 01 Tank Sludge  
02 Pit Reclamation (Sludge)  
03 Pit Reclamation (Soil)  
04 Soil From Spill  
05 Hydrovac Mud  
06 Cellar Sludge  
07 Other

## Waste State:

SLUDGE  
SOIL

## Cell Deposit:

1 2 3  
4 5 6

## Waste Origin:

Where did the waste come from? (i.e. PAD 88X)

CS 47B

## Waste Volume

Please indicate in either Barrels (BBLs), Yards (Yds), Cubic Feet (Feet)<sup>3</sup>, or Tonage (Tons) in the appropriate box below.

☒ BBLs or ☒ YDs or ☐ Feet<sup>3</sup> or ☐ Tons

## Transport Type:

D Dump Truck

H Hydrovac Truck

V Vacuum Truck

O Other

I acknowledge that only the following wastes are acceptable to deliver to the Land Farm:

\*Tank Sludges that have been de-watered

\*Pit Reclamation Waste

\*Hydrovac Mud

\*Soil from Spill Remediation that has been profiled prior to being taken to the Land Farm

Transport Driver Signature

## Tillage Details (Maintenance Personnel Only)

## Tillage Start Time

9:55

Maintenance Signature

## Waste Area:

Please indicate the Length and Width of the Application in Feet

Length

25

Width

12

Company Representative

Date

Transport Company: URIETransport Driver: John DDate: 9-21-18Weather Conditions: goodTime of Delivery: 9:45Company Phone: 675-5264Driver Phone: 629-2763

Ticket NO.

13701

\*NOTE: if the Landfarm is covered with snow or frozen, temporarily place in stockpile area with a layer of clean soil over the top of the pile. Immediately till once the Landfarm is cleared of snow or unfrozen.

## Waste Type



01 Tank Sludge

02 Pit Reclamation (Sludge)

03 Pit Reclamation (Soil)

04 Soil From Spill

05 Hydrovac Mud

06 Cellar Sludge

07 Other

## Waste State:



SLUDGE

SOIL

## Cell Deposit:



1 2 3

4 5 6

## Waste Origin:

Where did the waste come from? (i.e. PAD 88X)

CS 47B

## Waste Volume

Please indicate in either Barrels (BBLs), Yards (Yds), Cubic Feet (Feet<sup>3</sup>), or Tons (Tons) in the appropriate box below.

BBLs

or

YDs

or

Feet<sup>3</sup>

or

Tons

## Transport Type:



D Dump Truck

H Hydrovac Truck

V Vacuum Truck

O Other

I acknowledge that only the following wastes are acceptable to deliver to the Land Farm:

\*Tank Sludges that have been de-watered

\*Pit Reclamation Waste

\*Hydrovac Mud

\*Soil from Spill Remediation that has been profiled prior to being taken to the Land Farm

Transport Driver Signature John D

## Tillage Details (Maintenance Personnel Only)



Tillage Start Time

9:45

Maintenance Signature Donna Dandrea

Waste Area:

Please indicate the Length and Width of the Application in Feet



Length

25

Width

12

Company Representative [Signature]Date 9-21-18




Transport Company: URICTransport Driver: SchardDate: 8-21-18Weather Conditions: GoodTime of Delivery 10:25Company Phone: 675-5766Driver Phone: 629-2763

Ticket NO.

13702


\*NOTE: if the Landfarm is covered with snow or frozen, temporarily place in stockpile area with a layer of clean soil over the top of the pile. Immediately till once the Landfarm is cleared of snow or unfrozen.

## Waste Type


 01 Tank Sludge  
02 Pit Reclamation (Sludge)  
Circle 03 Pit Reclamation (Soil)  
04 Soil From Spill

05 Hydrovac Mud  
06 Cellar Sludge  
07 Other \_\_\_\_\_

## Waste State:


 SLUDGE  
Circle SOIL

## Cell Deposit:

 1 2 3  
Circle 4 5 6


## Waste Origin:

Where did the waste come from? (i.e. PAD 88X)

 CS47B


## Waste Volume

Please indicate in either Barrels (BBLs), Yards (Yds), Cubic Feet (Feet)<sup>3</sup>, or Tons (Tons) in the appropriate box below.

 Circle ☐ BBLs or ☒ YDs or ☐ Feet<sup>3</sup> or ☐ Tons

10

## Transport Type:

 Circle ☒ D Dump Truck ☐ H Hydrovac Truck  
☐ V Vacuum Truck ☐ O Other \_\_\_\_\_

I acknowledge that only the following wastes are acceptable to deliver to the Land Farm:

\*Tank Sludges that have been de-watered

\*Pit Reclamation Waste

\*Hydrovac Mud

\*Soil from Spill Remediation that has been profiled prior to being taken to the Land Farm

[Signature]  
Transport Driver Signature

## Tillage Details (Maintenance Personnel Only)


## Tillage Start Time

10:25

[Signature]  
Maintenance Signature

## Waste Area:

Please indicate the Length and Width of the Application in Feet

 Length 25 Width 12

[Signature]  
Company Representative

[Signature]  
Date



Transport Company: URTETransport Driver: Sarah DDate: 9-21-18Weather Conditions: goodTime of Delivery: 11 AMCompany Phone: 675-3766Driver Phone: 629-2743Ticket NO.  
**13703**

\*NOTE: if the Landfarm is covered with snow or frozen, temporarily place in stockpile area with a layer of clean soil over the top of the pile. Immediately till once the Landfarm is cleared of snow or unfrozen.

## Waste Type

- 01 Tank Sludge  
02 Pit Reclamation (Sludge)  
03 Pit Reclamation (Soil)  
04 Soil From Spill  
05 Hydrovac Mud  
06 Cellar Sludge  
07 Other

Circle 03

## Waste State:

SLUDGE  
Circle SOIL

## Cell Deposit:

1 2 3  
Circle 1  
4 5 6

## Waste Origin:

Where did the waste come from? (i.e. PAD 88X)

CS 47B

## Waste Volume

Please indicate in either Barrels (BBLs), Yards (Yds), Cubic Feet (Feet)<sup>3</sup>, or Tonnage (Tons) in the appropriate box below.

BBLs

or

YDs  
10

or

Feet<sup>3</sup>

or

Tons

## Transport Type:

D Dump Truck

H Hydrovac Truck

V Vacuum Truck

O Other

Circle D

I acknowledge that only the following wastes are acceptable to deliver to the Land Farm:

\*Tank Sludges that have been de-watered

\*Pit Reclamation Waste

\*Hydrovac Mud

\*Soil from Spill Remediation that has been profiled prior to being taken to the Land Farm

Transport Driver Signature Sarah D

## Tillage Details (Maintenance Personnel Only)

## Tillage Start Time

11 amMaintenance Signature Dore Dandine

## Waste Area:

Please indicate the Length and Width of the Application in Feet

Length

25

Width

12Company Representative [Signature]Date 9-21-18

Transport Company: URIETransport Driver: John DDate: 9-21-18Weather Conditions: goodTime of Delivery: 11:40Company Phone: 625 5766Driver Phone: 629-2763

Ticket NO.

13704

\*NOTE: if the Landfarm is covered with snow or frozen, temporarily place in stockpile area with a layer of clean soil over the top of the pile. Immediately till once the Landfarm is cleared of snow or unfrozen.

## Waste Type



01 Tank Sludge

02 Pit Reclamation (Sludge)

03 Pit Reclamation (Soil)

04 Soil From Spill

05 Hydrovac Mud

06 Cellar Sludge

07 Other

## Waste State:



SLUDGE

SOIL

## Cell Deposit:



1 2 3

4 5 6

## Waste Origin:

Where did the waste come from? (i.e. PAD 88X)

CS 47 B

## Waste Volume

Please indicate in either Barrels (BBLs), Yards (Yds), Cubic Feet (Feet)<sup>3</sup>, or Tonage (Tons) in the appropriate box below.

BBLs

or

YDs

or

Feet<sup>3</sup>

or

Tons

## Transport Type:



D Dump Truck

V Vacuum Truck

H Hydrovac Truck

O Other

I acknowledge that only the following wastes are acceptable to deliver to the Land Farm:

\*Tank Sludges that have been de-watered

\*Pit Reclamation Waste

\*Hydrovac Mud

\*Soil from Spill Remediation that has been profiled prior to being taken to the Land Farm

Transport Driver Signature John D

## Tillage Details (Maintenance Personnel Only)



Tillage Start Time

11:40Maintenance Signature Doug Gardiner

## Waste Area:

Please indicate the Length and Width of the Application in Feet



Length

25

Width


12Company Representative [Signature]Date 9-21-18




Transport Company: URIETransport Driver: JohnDate: 9-21-18Weather Conditions: goodTime of Delivery: 1pmCompany Phone: 675 5766Driver Phone: 629 2763Ticket NO.  
**13705**

\*NOTE: If the Landfarm is covered with snow or frozen, temporarily place in stockpile area with a layer of clean soil over the top of the pile. Immediately till once the Landfarm is cleared of snow or unfrozen.


## Waste Type

-  01 Tank Sludge  
02 Pit Reclamation (Sludge)  
03 Pit Reclamation (Soil)  
04 Soil From Spill
- 05 Hydrovac Mud  
06 Cellar Sludge  
07 Other

## Waste State:


 SLUDGE  
Circle SOIL

## Cell Deposit:

 1 2 3  
4 5 6

## Waste Origin:

Where did the waste come from? (i.e. PAD 88X)

 ES 47B

## Waste Volume

Please indicate in either Barrels (BBLs), Yards (Yds), Cubic Feet (Feet)<sup>3</sup>, or Tons (Tons) in the appropriate box below.

BBLs

or

YDs


or

Feet<sup>3</sup>

or

Tons

## Transport Type:

 D Dump Truck  
Circle V Vacuum Truck

H Hydrovac Truck

O Other

I acknowledge that only the following wastes are acceptable to deliver to the Land Farm:

\*Tank Sludges that have been de-watered

\*Pit Reclamation Waste

\*Hydrovac Mud

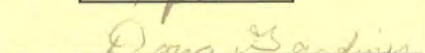
\*Soil from Spill Remediation that has been profiled prior to being taken to the Land Farm

  
Transport Driver Signature

## Tillage Details (Maintenance Personnel Only)



## Tillage Start Time

1pm  
Maintenance Signature

## Waste Area:

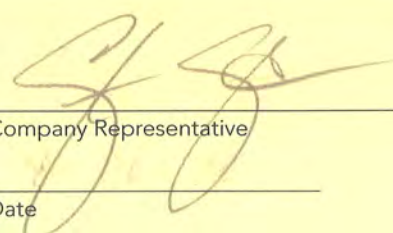
Please indicate the Length and Width of the Application in Feet



Length

25

Width

12  
Company Representative

Date



Transport Company: URIETransport Driver: SohnDate: 9-21-2018Weather Conditions: GoodTime of Delivery: 1:40Company Phone: 675 5766Driver Phone: 629 2763Ticket NO.  
**13706**

\*NOTE: if the Landfarm is covered with snow or frozen, temporarily place in stockpile area with a layer of clean soil over the top of the pile. Immediately till once the Landfarm is cleared of snow or unfrozen.

## Waste Type

- ☒ 01 Tank Sludge  
☐ 02 Pit Reclamation (Sludge)  
☒ 03 Pit Reclamation (Soil)  
☐ 04 Soil From Spill
- ☐ 05 Hydrovac Mud  
☐ 06 Cellar Sludge  
☐ 07 Other

## Waste State:

☐ SLUDGE  
☒ SOIL

## Cell Deposit:

☒ 1 2 3  
☐ 4 5 6

## Waste Origin:

Where did the waste come from? (i.e. PAD 88X)

☒ CS47B

## Waste Volume

Please indicate in either Barrels (BBLs), Yards (Yds), Cubic Feet (Feet)<sup>3</sup>, or Tons (Tons) in the appropriate box below.

☒ BBLs or ☒ YDs or ☐ Feet<sup>3</sup> or ☐ Tons

10

## Transport Type:

☒ D Dump Truck  
☐ V Vacuum Truck

H Hydrovac Truck

O Other

I acknowledge that only the following wastes are acceptable to deliver to the Land Farm:

\*Tank Sludges that have been de-watered

\*Pit Reclamation Waste

\*Hydrovac Mud

\*Soil from Spill Remediation that has been profiled prior to being taken to the Land Farm

Transport Driver Signature [Signature]

## Tillage Details (Maintenance Personnel Only)

## Tillage Start Time

☒ 1:40 pm

Maintenance Signature [Signature]

## Waste Area:

Please indicate the Length and Width of the Application in Feet

☒ Length 25' Width 12'

Company Representative [Signature]

Date

Transport Company: WPI/Dan

Transport Driver: KEVIN COY

Date: 9-21-18

Time of Delivery: 4:20





Company Phone: 435 789-9015

Driver Phone: 435 621-1887



Weather Conditions: SUNNY


Ticket NO.  
**13662**


\*NOTE: if the Landfarm is covered with snow or frozen, temporarily place in stockpile area with a layer of clean soil over the top of the pile. Immediately till once the Landfarm is cleared of snow or unfrozen.



Waste Type	
 01 Tank Sludge	05 Hydrovac Mud
 02 Pit Reclamation (Sludge)	06 Cellar Sludge
 03 Pit Reclamation (Soil)	07 Other
 04 Soil From Spill	

Waste State:
 SLUDGE
 SOIL

Cell Deposit:
 1 2 3
 4 5 6

Waste Origin:
Where did the waste come from? (i.e. PAD 88X)
 CS 47

Waste Volume			
Please indicate in either Barrels (BBLs), Yards (Yds), Cubic Feet (Feet) <sup>3</sup> , or Tons (Tons) in the appropriate box below.			
 BBLs	or	YDs	or
		10	or
Feet <sup>3</sup>	or	Tons	

Transport Type:	
 D Dump Truck	H Hydrovac Truck
 V Vacuum Truck	O Other

I acknowledge that only the following wastes are acceptable to deliver to the Land Farm:



\*Tank Sludges that have been de-watered

\*Pit Reclamation Waste

\*Hydrovac Mud

\*Soil from Spill Remediation that has been profiled prior to being taken to the Land Farm

Kevin Coy  
Transport Driver Signature

Tillage Details (Maintenance Personnel Only)	
 Tillage Start Time <div>4:00</div>	<div>Waste Area:</div> <div>Please indicate the Length and Width of the Application in Feet</div> <div>  Length Width  <div>25 12</div> </div>
<u>Doug Gantner</u> Maintenance Signature	

Jawana Whitaker  
Company Representative

9-21-18  
Date



Transport Company: URIE

Transport Driver: Jeff

Date: 9-27-18

Weather Conditions: Sunny

Time of Delivery: 10:20am

Company Phone: 675-5766

Driver Phone: 435-790-1108

Ticket NO.  
**13707**

\*NOTE: if the Landfarm is covered with snow or frozen, temporarily place in stockpile area with a layer of clean soil over the top of the pile. Immediately till once the Landfarm is cleared of snow or unfrozen.

### Waste Type

- 01 Tank Sludge  
02 Pit Reclamation (Sludge)  
03 Pit Reclamation (Soil)  
04 Soil From Spill  
05 Hydrovac Mud  
06 Cellar Sludge  
07 Other

### Waste State:

SLUDGE  
SOIL

### Cell Deposit:

1 2 3  
4 5 6

### Waste Origin:

Where did the waste come from? (i.e. PAD 88X)

CS-47

### Waste Volume

Please indicate in either Barrels (BBLs), Yards (Yds), Cubic Feet (Feet)<sup>3</sup>, or Tons (Tons) in the appropriate box below.

BBLs YDs Feet<sup>3</sup> Tons  
10 12

### Transport Type:

D Dump Truck H Hydrovac Truck  
V Vacuum Truck O Other

I acknowledge that only the following wastes are acceptable to deliver to the Land Farm:

- \*Tank Sludges that have been de-watered
- \*Pit Reclamation Waste
- \*Hydrovac Mud
- \*Soil from Spill Remediation that has been profiled prior to being taken to the Land Farm

Transport Driver Signature

### Tillage Details (Maintenance Personnel Only)

#### Tillage Start Time

10:20

Maintenance Signature

#### Waste Area:

Please indicate the Length and Width of the Application in Feet

Length Width  
12 24

Company Representative

9-27-18

Date



Transport Company: URIETransport Driver: JeffDate: 9-27-18Weather Conditions: SunnyTime of Delivery: 11:06Company Phone: 675-5766Driver Phone: 435-790-1108Ticket NO.  
**13708**

\*NOTE: if the Landfarm is covered with snow or frozen, temporarily place in stockpile area with a layer of clean soil over the top of the pile. Immediately till once the Landfarm is cleared of snow or unfrozen.

## Waste Type



01 Tank Sludge

02 Pit Reclamation (Sludge)

03 Pit Reclamation (Soil)

04 Soil From Spill

05 Hydrovac Mud

06 Cellar Sludge

07 Other

## Waste State:



SLUDGE

SOIL

## Cell Deposit:



1 2 3

4 5 6

## Waste Origin:

Where did the waste come from? (i.e. PAD 88X)



CS-47

## Waste Volume

Please indicate in either Barrels (BBLs), Yards (Yds), Cubic Feet (Feet)<sup>3</sup>, or Tonnage (Tons) in the appropriate box below.

BBLs

or

YDs

or

Feet<sup>3</sup>

or

Tons

## Transport Type:



D Dump Truck

V Vacuum Truck

H Hydrovac Truck

O Other

I acknowledge that only the following wastes are acceptable to deliver to the Land Farm:

\*Tank Sludges that have been de-watered

\*Pit Reclamation Waste

\*Hydrovac Mud

\*Soil from Spill Remediation that has been profiled prior to being taken to the Land Farm

Transport Driver Signature

## Tillage Details (Maintenance Personnel Only)

## Tillage Start Time



11:10

Cold Nickerson  
Maintenance Signature

## Waste Area:

Please indicate the Length and Width of the Application in Feet

Length  
12Width  
24

Company Representative

Date

9-27-18

Transport Company: UrieTransport Driver: JeffDate: 9-27-18Weather Conditions: SunnyTime of Delivery: 11:41Company Phone: 675-5766Driver Phone: 435-790-1108

Ticket NO.

13709

\*NOTE: if the Landfarm is covered with snow or frozen, temporarily place in stockpile area with a layer of clean soil over the top of the pile. Immediately till once the Landfarm is cleared of snow or unfrozen.

## Waste Type



01 Tank Sludge

02 Pit Reclamation (Sludge)

03 Pit Reclamation (Soil)

04 Soil From Spill

05 Hydrovac Mud

06 Cellar Sludge

07 Other

## Waste State:



SLUDGE

SOIL

## Cell Deposit:



1

2

3

4

5

6

## Waste Origin:

Where did the waste come from? (i.e. PAD 88X)



CS47

## Waste Volume

Please indicate in either Barrels (BBLs), Yards (Yds), Cubic Feet (Feet<sup>3</sup>), or Tonnage (Tons) in the appropriate box below.

BBLs

or

YDs

or

Feet<sup>3</sup>

or

Tons

## Transport Type:



D Dump Truck

H Hydrovac Truck

V Vacuum Truck

O Other

I acknowledge that only the following wastes are acceptable to deliver to the Land Farm:

\*Tank Sludges that have been de-watered

\*Pit Reclamation Waste

\*Hydrovac Mud

\*Soil from Spill Remediation that has been profiled prior to being taken to the Land Farm

Transport Driver Signature

## Tillage Details (Maintenance Personnel Only)

## Tillage Start Time



11:45

Maintenance Signature

## Waste Area:

Please indicate the Length and Width of the Application in Feet



Length

12

Width

24

Company Representative

Date



Transport Company: URieTransport Driver: JeffDate: 9-27-18Weather Conditions: SunnyTime of Delivery: 12:50Company Phone: 675-5766Driver Phone: 435-790-1108Ticket NO.  
**13710**

\*NOTE: if the Landfarm is covered with snow or frozen, temporarily place in stockpile area with a layer of clean soil over the top of the pile. Immediately till once the Landfarm is cleared of snow or unfrozen.

## Waste Type



01 Tank Sludge

02 Pit Reclamation (Sludge)

03 Pit Reclamation (Soil)

04 Soil From Spill

05 Hydrovac Mud

06 Cellar Sludge

07 Other

## Waste State:



SLUDGE

SOIL

## Cell Deposit:



1

2

3

4

5

6

## Waste Origin:

Where did the waste come from? (i.e. PAD 88X)

CS47

## Waste Volume

Please indicate in either Barrels (BBLs), Yards (Yds), Cubic Feet (Feet)<sup>3</sup>, or Tonnage (Tons) in the appropriate box below.

BBLs

or

YDs

or

Feet<sup>3</sup>

or

Tons

## Transport Type:



D Dump Truck

H Hydrovac Truck

V Vacuum Truck

O Other

I acknowledge that only the following wastes are acceptable to deliver to the Land Farm:

\*Tank Sludges that have been de-watered

\*Pit Reclamation Waste

\*Hydrovac Mud

\*Soil from Spill Remediation that has been profiled prior to being taken to the Land Farm

Transport Driver Signature  
Jeff

## Tillage Details (Maintenance Personnel Only)

## Tillage Start Time

11:45Maintenance Signature  
Lord Nickson

## Waste Area:

Please indicate the Length and Width of the Application in Feet



Length

12

Width

24Company Representative  
Michael WhiteDate  
9-27-18



Transport Company: URIETransport Driver: SelfDate: 9-27-18Time of Delivery: 1:30Company Phone: 675-5764Driver Phone: 1135-790-1108

Ticket NO.

**13711**Weather Conditions: Sunny

\*NOTE: if the Landfarm is covered with snow or frozen, temporarily place in stockpile area with a layer of clean soil over the top of the pile. Immediately till once the Landfarm is cleared of snow or unfrozen.

## Waste Type



01 Tank Sludge

02 Pit Reclamation (Sludge)

03 Pit Reclamation (Soil)

04 Soil From Spill

05 Hydrovac Mud

06 Cellar Sludge

07 Other

## Waste State:



SLUDGE

SOIL

## Cell Deposit:



1

2

3

4

5

6

## Waste Origin:

Where did the waste come from? (i.e. PAD 88X)

CS-47

## Waste Volume

Please indicate in either Barrels (BBLs), Yards (Yds), Cubic Feet (Feet)<sup>3</sup>, or Tonnage (Tons) in the appropriate box below.

BBLs

or

YDs

or

Feet<sup>3</sup>

or

Tons

## Transport Type:



D Dump Truck

H Hydrovac Truck

V Vacuum Truck

O Other

I acknowledge that only the following wastes are acceptable to deliver to the Land Farm:

\*Tank Sludges that have been de-watered

\*Pit Reclamation Waste

\*Hydrovac Mud

\*Soil from Spill Remediation that has been profiled prior to being taken to the Land Farm

Transport Driver Signature

## Tillage Details (Maintenance Personnel Only)

## Tillage Start Time

1:30Lord Nickn

Maintenance Signature

## Waste Area:

Please indicate the Length and Width of the Application in Feet



Length

12

Width

24

Company Representative

Date

Transport Company: URICTransport Driver: JeffDate: 9-27-18Weather Conditions: SunnyTime of Delivery: 2:20Company Phone: 675-5766Driver Phone: 435-790-1108Ticket NO.  
**13712**

\*NOTE: if the Landfarm is covered with snow or frozen, temporarily place in stockpile area with a layer of clean soil over the top of the pile. Immediately till once the Landfarm is cleared of snow or unfrozen.

## Waste Type



01 Tank Sludge

02 Pit Reclamation (Sludge)

03 Pit Reclamation (Soil)

04 Soil From Spill

05 Hydrovac Mud

06 Cellar Sludge

07 Other

## Waste State:



SLUDGE

SOIL

## Cell Deposit:



1

2

3

4

5

6

## Waste Origin:

Where did the waste come from? (i.e. PAD 88X)

CS-47

## Waste Volume

Please indicate in either Barrels (BBLs), Yards (Yds), Cubic Feet (Feet)<sup>3</sup>, or Tons (Tons) in the appropriate box below.

BBLs

or

YDs

or

Feet<sup>3</sup>

or

Tons

## Transport Type:



D Dump Truck

H Hydrovac Truck

V Vacuum Truck

O Other

I acknowledge that only the following wastes are acceptable to deliver to the Land Farm:

\*Tank Sludges that have been de-watered

\*Pit Reclamation Waste

\*Hydrovac Mud

\*Soil from Spill Remediation that has been profiled prior to being taken to the Land Farm

Jeff  
Transport Driver Signature

## Tillage Details (Maintenance Personnel Only)

## Tillage Start Time

2:20Lord Nickan

Maintenance Signature

## Waste Area:

Please indicate the Length and Width of the Application in Feet



Length

24

Width

12James Whitaker  
Company Representative9-27-18

Date



Transport Company: URICTransport Driver: JeffDate: 9-27-18Weather Conditions: SunnyTime of Delivery: 3:10Company Phone: 675-5746Driver Phone: 435 901108

Ticket NO.

13713

\*NOTE: if the Landfarm is covered with snow or frozen, temporarily place in stockpile area with a layer of clean soil over the top of the pile. Immediately till once the Landfarm is cleared of snow or unfrozen.

## Waste Type



01 Tank Sludge

02 Pit Reclamation (Sludge)

03 Pit Reclamation (Soil)

04 Soil From Spill

05 Hydrovac Mud

06 Cellar Sludge

07 Other

## Waste State:



SLUDGE

SOIL

## Cell Deposit:



1

2

3

4

5

6

## Waste Origin:

Where did the waste come from? (i.e. PAD 88X)



CS-47

## Waste Volume

Please indicate in either Barrels (BBLS), Yards (Yds), Cubic Feet (Feet)<sup>3</sup>, or Tonage (Tons) in the appropriate box below.

BBLS

or

YDs

or

Feet<sup>3</sup>

or

Tons

## Transport Type:



D Dump Truck

V Vacuum Truck

H Hydrovac Truck

O Other

I acknowledge that only the following wastes are acceptable to deliver to the Land Farm:

\*Tank Sludges that have been de-watered

\*Pit Reclamation Waste

\*Hydrovac Mud

\*Soil from Spill Remediation that has been profiled prior to being taken to the Land Farm

Transport Driver Signature

## Tillage Details (Maintenance Personnel Only)

## Tillage Start Time

3:10

Maintenance Signature

## Waste Area:

Please indicate the Length and Width of the Application in Feet



Length

24

Width

12

Company Representative

Date



Transport Company: URieTransport Driver: JeffDate: 9-27-18Weather Conditions: SunnyTime of Delivery: 3:54Company Phone: 675-5766Driver Phone: 435-790-1102

Ticket NO.

**13714**

\*NOTE: if the Landfarm is covered with snow or frozen, temporarily place in stockpile area with a layer of clean soil over the top of the pile. Immediately till once the Landfarm is cleared of snow or unfrozen.

## Waste Type



01 Tank Sludge

02 Pit Reclamation (Sludge)

03 Pit Reclamation (Soil)

04 Soil From Spill

05 Hydrovac Mud

06 Cellar Sludge

07 Other

## Waste State:



SLUDGE

SOIL

## Cell Deposit:



1

2

3

4

5

6

## Waste Origin:

Where did the waste come from? (i.e. PAD 88X)



CS-47

## Waste Volume

Please indicate in either Barrels (BBLs), Yards (Yds), Cubic Feet (Feet)<sup>3</sup>, or Tonnage (Tons) in the appropriate box below.

BBLs

or

YDs

or

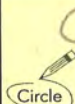
Feet<sup>3</sup>

or

Tons

10

## Transport Type:



D Dump Truck

H Hydrovac Truck

V Vacuum Truck

O Other

I acknowledge that only the following wastes are acceptable to deliver to the Land Farm:

\*Tank Sludges that have been de-watered

\*Pit Reclamation Waste

\*Hydrovac Mud

\*Soil from Spill Remediation that has been profiled prior to being taken to the Land Farm

Transport Driver Signature

## Tillage Details (Maintenance Personnel Only)

## Tillage Start Time



3:54

Corea Nickson

Maintenance Signature

## Waste Area:

Please indicate the Length and Width of the Application in Feet



Length

24

Width

12

Company Representative

Date

9-27-18

#1

Ticket NO.

12692

Transport Company: URIE TRUCKINGTransport Driver: HAZELBUSHDate: 27 Sep 2018

Time of Delivery

9:40Company Phone: 970-675-5766Driver Phone: 970-220-2553Weather Conditions: MOSTLY Clear

\*NOTE: if the Landfarm is covered with snow or frozen, temporarily place in stockpile area with a layer of clean soil over the top of the pile. Immediately till once the Landfarm is cleared of snow or unfrozen.

## Waste Type



01 Tank Sludge

02 Pit Reclamation (Sludge)

03 Pit Reclamation (Soil)

04 Soil From Spill

05 Hydrovac Mud

06 Cellar Sludge

07 Other

## Waste State:



SLUDGE

Circle

SOIL

## Cell Deposit:



1

2

3

4

5

6

## Waste Origin:

Where did the waste come from? (i.e. PAD 88X)



C.S. 47

## Waste Volume

Please indicate in either Barrels (BBLs), Yards (Yds), Cubic Feet (Feet)<sup>3</sup>, or Tonnage (Tons) in the appropriate box below.



BBLs

or

YDs

or

Feet<sup>3</sup>

or

Tons

## Transport Type:



D Dump Truck

H Hydrovac Truck

V Vacuum Truck

O Other

I acknowledge that only the following wastes are acceptable to deliver to the Land Farm:

\*Tank Sludges that have been de-watered

\*Pit Reclamation Waste

\*Hydrovac Mud

\*Soil from Spill Remediation that has been profiled prior to being taken to the Land Farm

Charles Hazelbush  
Transport Driver Signature

## Tillage Details (Maintenance Personnel Only)

Tillage Start Time

9:40

## Waste Area:

Please indicate the Length and Width of the Application in Feet



Length

24

Width

12

Shannah Whitaker  
Company Representative

27-Sep 2018

Date

Wood Nielsen  
Maintenance Signature

□SS



# 1

Transport Company: URIE TRUCKINGTransport Driver: HAZELBUSHDate: 27 SEP 2018Time of Delivery: 10:25Weather Conditions: Mostly ClearCompany Phone: 970-675-5760Driver Phone: 970-420-2553

Ticket NO.

12693

\*NOTE: if the Landfarm is covered with snow or frozen, temporarily place in stockpile area with a layer of clean soil over the top of the pile. Immediately till once the Landfarm is cleared of snow or unfrozen.

## Waste Type



01 Tank Sludge  
 02 Pit Reclamation (Sludge)  
 03 Pit Reclamation (Soil)  
 04 Soil From Spill

05 Hydrovac Mud  
 06 Cellar Sludge  
 07 Other

## Waste State:



SLUDGE  
 SOIL

## Cell Deposit:



1 2 3  
 4 5 6

## Waste Origin:

Where did the waste come from? (i.e. PAD 88X)

C.S. 47b

## Waste Volume

Please indicate in either Barrels (BBLs), Yards (Yds), Cubic Feet (Feet)<sup>3</sup>, or Tonage (Tons) in the appropriate box below.

BBLs

or

YDs

or

Feet<sup>3</sup>

or

Tons

## Transport Type:

D Dump Truck

H Hydrovac Truck

V Vacuum Truck

O Other

I acknowledge that only the following wastes are acceptable to deliver to the Land Farm:

\*Tank Sludges that have been de-watered

\*Pit Reclamation Waste

\*Hydrovac Mud

\*Soil from Spill Remediation that has been profiled prior to being taken to the Land Farm

Charles Hazelbush  
 Transport Driver Signature

## Tillage Details (Maintenance Personnel Only)



Tillage Start Time

10:25

## Waste Area:

Please indicate the Length and Width of the Application in Feet



Length

24

Width

12Lawmah White

Company Representative

27 Sep - 18

Date

Lord Nielsen  
 Maintenance Signature



H13

Transport Company: URIE TACK INCTransport Driver: HAZELBUSHDate: 27-Sep-18Time of Delivery: 11:10Company Phone: 616-5766Driver Phone: 220-2553Weather Conditions: Mostly Clear

Ticket NO.

12694

\*NOTE: if the Landfarm is covered with snow or frozen, temporarily place in stockpile area with a layer of clean soil over the top of the pile. Immediately till once the Landfarm is cleared of snow or unfrozen.

## Waste Type



01 Tank Sludge  
 02 Pit Reclamation (Sludge)  
 03 Pit Reclamation (Soil)  
 04 Soil From Spill

05 Hydrovac Mud  
 06 Cellar Sludge  
 07 Other

## Waste State:



SLUDGE  
 SOIL

## Cell Deposit:



1 2 3  
 4 5 6

## Waste Origin:

Where did the waste come from? (i.e. PAD 88X)



C.S. 476

## Waste Volume

Please indicate in either Barrels (BBLs), Yards (Yds), Cubic Feet (Feet)<sup>3</sup>, or Tonage (Tons) in the appropriate box below.

BBLs

or

YDs

or

Feet<sup>3</sup>

or

Tons

## Transport Type:



D Dump Truck

H Hydrovac Truck

V Vacuum Truck

O Other

I acknowledge that only the following wastes are acceptable to deliver to the Land Farm:

\*Tank Sludges that have been de-watered

\*Pit Reclamation Waste

\*Hydrovac Mud

\*Soil from Spill Remediation that has been profiled prior to being taken to the Land Farm

Charles Hazelbush  
 Transport Driver Signature

## Tillage Details (Maintenance Personnel Only)

## Tillage Start Time



11:00

## Waste Area:

Please indicate the Length and Width of the Application in Feet



Length

24

Width

12

Javannah Whitaker  
 Company Representative

Date

27 Sep 18

Date

Lord Nickerson  
 Maintenance Signature

#4

Transport Company: URTE TRUCKING INCTransport Driver: HAZELBUSHDate: 27 SEP 2018Time of Delivery: 11:50Weather Conditions: CLEARCompany Phone: 910-675-5766Driver Phone: 910-220-2553

Ticket NO.

12695

\*NOTE: if the Landfarm is covered with snow or frozen, temporarily place in stockpile area with a layer of clean soil over the top of the pile. Immediately till once the Landfarm is cleared of snow or unfrozen.

## Waste Type

01 Tank Sludge  
02 Pit Reclamation (Sludge)  
03 Pit Reclamation (Soil)  
04 Soil From Spill

05 Hydrovac Mud  
06 Cellar Sludge  
07 Other

Circle 03

## Waste State:

SLUDGE  
SOIL

Circle SOIL

## Cell Deposit:

1 2 3  
4 5 6

Circle 1

## Waste Origin:

Where did the waste come from? (i.e. PAD 88X)

P.S. 476

## Waste Volume

Please indicate in either Barrels (BBLS), Yards (Yds), Cubic Feet (Feet)<sup>3</sup>, or Tonnage (Tons) in the appropriate box below.

BBLS or YDs or Feet<sup>3</sup> or Tons

10

## Transport Type:

D Dump Truck  
V Vacuum Truck  
H Hydrovac Truck  
O Other

Circle D

I acknowledge that only the following wastes are acceptable to deliver to the Land Farm:

\*Tank Sludges that have been de-watered

\*Pit Reclamation Waste

\*Hydrovac Mud

\*Soil from Spill Remediation that has been profiled prior to being taken to the Land Farm

Charles Hazelbush  
Transport Driver Signature

## Tillage Details (Maintenance Personnel Only)

## Tillage Start Time

11:50

## Waste Area:

Please indicate the Length and Width of the Application in Feet

## Length

24

## Width

12

Ward Nickson  
Maintenance Signature

Javanah Whitaker  
Company Representative

Date

27-Sep-18

□SS



#5

Transport Company: URIE TRUCKINGTransport Driver: HAZELBUSHDate: 27-Sep-2018Time of Delivery: 1:15 PMWeather Conditions: CLEARCompany Phone: 970-675-5166Driver Phone: 970-240-2553

Ticket NO.

12696

\*NOTE: if the Landfarm is covered with snow or frozen, temporarily place in stockpile area with a layer of clean soil over the top of the pile. Immediately till once the Landfarm is cleared of snow or unfrozen.

## Waste Type

01 Tank Sludge  
02 Pit Reclamation (Sludge)  
03 Pit Reclamation (Soil)  
04 Soil From Spill

05 Hydrovac Mud  
06 Cellar Sludge  
07 Other

## Waste State:

SLUDGE  
SOIL

## Cell Deposit:

1 2 3  
4 5 6

## Waste Origin:

Where did the waste come from? (i.e. PAD 88X)

15.47.6

## Waste Volume

Please indicate in either Barrels (BBLs), Yards (Yds), Cubic Feet (Feet)<sup>3</sup>, or Tonage (Tons) in the appropriate box below.

BBLs or YDs or Feet<sup>3</sup> or Tons

10

## Transport Type:

D Dump Truck  
H Hydrovac Truck  
V Vacuum Truck  
O Other

I acknowledge that only the following wastes are acceptable to deliver to the Land Farm:

\*Tank Sludges that have been de-watered

\*Pit Reclamation Waste

\*Hydrovac Mud

\*Soil from Spill Remediation that has been profiled prior to being taken to the Land Farm

Charles Hazelbush  
Transport Driver Signature

## Tillage Details (Maintenance Personnel Only)

## Tillage Start Time

1:15

## Waste Area:

Please indicate the Length and Width of the Application in Feet

Length 24  
Width 12

James M. Wilkins  
Company Representative

27-Sep-18  
Date

Card Nickson  
Maintenance Signature



#6

Transport Company: Orte TruckingTransport Driver: HazelbushDate: 27 Sep 18Weather Conditions: Clear BreezyTime of Delivery: 1:40Company Phone: 675-5166Driver Phone: 220-2553

Ticket NO.

12697

\*NOTE: if the Landfarm is covered with snow or frozen, temporarily place in stockpile area with a layer of clean soil over the top of the pile. Immediately till once the Landfarm is cleared of snow or unfrozen.

## Waste Type

01 Tank Sludge  
 02 Pit Reclamation (Sludge)  
 03 Pit Reclamation (Soil)  
 04 Soil From Spill

05 Hydrovac Mud  
 06 Cellar Sludge  
 07 Other

## Waste State:

SLUDGE  
 SOIL

## Cell Deposit:

1 2 3  
 4 5 6

## Waste Origin:

Where did the waste come from? (i.e. PAD 88X)

C-S 47b

## Waste Volume

Please indicate in either Barrels (BBLs), Yards (Yds), Cubic Feet (Feet)<sup>3</sup>, or Tons (Tons) in the appropriate box below.

BBLs or YDs or Feet<sup>3</sup> or Tons

## Transport Type:

D Dump Truck  
 H Hydrovac Truck  
 V Vacuum Truck  
 O Other

I acknowledge that only the following wastes are acceptable to deliver to the Land Farm:

- \*Tank Sludges that have been de-watered
- \*Pit Reclamation Waste
- \*Hydrovac Mud
- \*Soil from Spill Remediation that has been profiled prior to being taken to the Land Farm

Charles Hazelbush  
 Transport Driver Signature

## Tillage Details (Maintenance Personnel Only)

## Tillage Start Time

1:40

## Waste Area:

Please indicate the Length and Width of the Application in Feet

Length

24

Width

12

Shwannah Whitaker  
 Company Representative

Date

27-Sep 18

Lord Nickson  
 Maintenance Signature

#7

Transport Company: URIE TRUCKINGTransport Driver: HAZELBUSHDate: 27 Sep 2018Time of Delivery: 12:15Weather Conditions: BreezyCompany Phone: 675-5766Driver Phone: 220-2553

Ticket NO.

12698

\*NOTE: if the Landfarm is covered with snow or frozen, temporarily place in stockpile area with a layer of clean soil over the top of the pile. Immediately till once the Landfarm is cleared of snow or unfrozen.

## Waste Type

01 Tank Sludge  
02 Pit Reclamation (Sludge)  
03 Pit Reclamation (Soil)  
04 Soil From Spill  
05 Hydrovac Mud  
06 Cellar Sludge  
07 Other

## Waste State:

SLUDGE  
SOIL

## Cell Deposit:

1 2 3  
4 5 6

## Waste Origin:

Where did the waste come from? (i.e. PAD 88X)

C.S. 47b

## Waste Volume

Please indicate in either Barrels (BBLs), Yards (Yds), Cubic Feet (Feet)<sup>3</sup>, or Tons (Tons) in the appropriate box below.

☒ BBLs or ☒ YDs or ☐ Feet<sup>3</sup> or ☐ Tons

## Transport Type:

☒ D Dump Truck  
H Hydrovac Truck  
☒ V Vacuum Truck  
O Other

I acknowledge that only the following wastes are acceptable to deliver to the Land Farm:

\*Tank Sludges that have been de-watered

\*Pit Reclamation Waste

\*Hydrovac Mud

\*Soil from Spill Remediation that has been profiled prior to being taken to the Land Farm

Charles Hazelbush  
Transport Driver Signature

## Tillage Details (Maintenance Personnel Only)

Tillage Start Time

2:15

Waste Area:

Please indicate the Length and Width of the Application in Feet

Length

24

Width

12

Lawrence Whitaker  
Company Representative

Date

27-Sep-18

Lord Nicholas  
Maintenance Signature



#8

Transport Company: Urie Trucking

Transport Driver: Hazelbush

Date: 27 Sep 2018

Time of Delivery: 2:50

Weather Conditions: Brigey

Company Phone: 615-5766

Driver Phone: 220-2553

Ticket NO.

12699

\*NOTE: if the Landfarm is covered with snow or frozen, temporarily place in stockpile area with a layer of clean soil over the top of the pile. Immediately till once the Landfarm is cleared of snow or unfrozen.

Waste Type



- 01 Tank Sludge
- 02 Pit Reclamation (Sludge)
- 03 Pit Reclamation (Soil)
- 04 Soil From Spill

- 05 Hydrovac Mud
- 06 Cellar Sludge
- 07 Other

Waste State:



- SLUDGE
- SOIL

Cell Deposit:



- 1 2 3
- 4 5 6

Waste Origin:

Where did the waste come from? (i.e. PAD 88X)

C.S 426

Waste Volume

Please indicate in either Barrels (BBLs), Yards (Yds), Cubic Feet (Feet)<sup>3</sup>, or Tons (Tons) in the appropriate box below.



BBLs

or

YDs

or

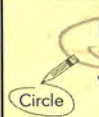
Feet<sup>3</sup>

or

Tons

10

Transport Type:



D Dump Truck

H Hydrovac Truck

V Vacuum Truck

O Other

I acknowledge that only the following wastes are acceptable to deliver to the Land Farm:

\*Tank Sludges that have been de-watered

\*Pit Reclamation Waste

\*Hydrovac Mud

\*Soil from Spill Remediation that has been profiled prior to being taken to the Land Farm

Charles Hazelbush

Transport Driver Signature

Tillage Details (Maintenance Personnel Only)

Tillage Start Time



2:50

Waste Area:

Please indicate the Length and Width of the Application in Feet



Length

Width

24

12

Kwanah Whitaker

Company Representative

22 Sep 18

Date

Lord Nickerson

Maintenance Signature



#9

Transport Company: Urie TruckingTransport Driver: HAZELBUSHDate: 27 SEP 2018Time of Delivery: 3:30Weather Conditions: Breezy DustyCompany Phone: 615-576Driver Phone: 220-2553

Ticket NO.

13758

\*NOTE: if the Landfarm is covered with snow or frozen, temporarily place in stockpile area with a layer of clean soil over the top of the pile. Immediately till once the Landfarm is cleared of snow or unfrozen.

## Waste Type

01 Tank Sludge  
02 Pit Reclamation (Sludge)  
03 Pit Reclamation (Soil)  
04 Soil From Spill

05 Hydrovac Mud  
06 Cellar Sludge  
07 Other

Circle

## Waste State:

SLUDGE  
SOIL

Circle

## Cell Deposit:

1 2 3  
4 5 6

Circle

## Waste Origin:

Where did the waste come from? (i.e. PAD 88X)

~~Q.S. 47b~~

## Waste Volume

Please indicate in either Barrels (BBLs), Yards (Yds), Cubic Feet (Feet<sup>3</sup>), or Tons (Tons) in the appropriate box below.

BBLs

or

YDs

or

Feet<sup>3</sup>

or

Tons

## Transport Type:

D Dump Truck

H Hydrovac Truck

V Vacuum Truck

O Other

Circle

I acknowledge that only the following wastes are acceptable to deliver to the Land Farm:

\*Tank Sludges that have been de-watered

\*Pit Reclamation Waste

\*Hydrovac Mud

\*Soil from Spill Remediation that has been profiled prior to being taken to the Land Farm

Charles Hazelbush

Transport Driver Signature

## Tillage Details (Maintenance Personnel Only)

## Tillage Start Time



3:30

Cord Nickm

Maintenance Signature

## Waste Area:

Please indicate the Length and Width of the Application in Feet



Length

24

Width

13

Shanah White

Company Representative

27 Sep 2018

Date

#10

Transport Company: URIE TRUCKINGTransport Driver: HAZELBUSHDate: 27 Sep 2018Weather Conditions: BREEZY, DUSTYTime of Delivery 4:10Company Phone: 910-625-5766Driver Phone: 910-220-2553Ticket NO.  
**13759**

\*NOTE: if the Landfarm is covered with snow or frozen, temporarily place in stockpile area with a layer of clean soil over the top of the pile. Immediately till once the Landfarm is cleared of snow or unfrozen.

## Waste Type

01 Tank Sludge  
02 Pit Reclamation (Sludge)  
03 Pit Reclamation (Soil)  
04 Soil From Spill05 Hydrovac Mud  
06 Cellar Sludge  
07 Other

## Waste State:



SLUDGE

SOIL

## Cell Deposit:

1 2 3  
4 5 6

## Waste Origin:

Where did the waste come from? (i.e. PAD 88X)



CS 476

## Waste Volume

Please indicate in either Barrels (BBLs), Yards (Yds), Cubic Feet (Feet)<sup>3</sup>, or Tonnage (Tons) in the appropriate box below.

BBLs

or

YDs

or

Feet<sup>3</sup>

or

Tons

## Transport Type:



D Dump Truck

V Vacuum Truck

H Hydrovac Truck

O Other

I acknowledge that only the following wastes are acceptable to deliver to the Land Farm:

\*Tank Sludges that have been de-watered

\*Pit Reclamation Waste

\*Hydrovac Mud

\*Soil from Spill Remediation that has been profiled prior to being taken to the Land Farm

Charles Hazelbush  
Transport Driver Signature

## Tillage Details (Maintenance Personnel Only)

## Tillage Start Time



4:10

Lord Nickson

Maintenance Signature

## Waste Area:

Please indicate the Length and Width of the Application in Feet



Length

24

Width

12

Jannah Whitaker  
Company Representative27 Sep 2018

Date



Transport Company: Weldcon

Transport Driver: G. K. Thompson

Date: 9-27-18

Weather Conditions: SUNNY


Time of Delivery 11:00

Company Phone: 435-789-9015


Driver Phone: 135 621-1087


Ticket NO.  
**13664**


\*NOTE: if the Landfarm is covered with snow or frozen, temporarily place in stockpile area with a layer of clean soil over the top of the pile. Immediately till once the Landfarm is cleared of snow or unfrozen.


Waste Type	
 01 Tank Sludge	05 Hydrovac Mud
02 Pit Reclamation (Sludge)	06 Cellar Sludge
<input checked="" type="radio"/> 03 Pit Reclamation (Soil)	07 Other _____
04 Soil From Spill	

Waste State:
 SLUDGE
<input checked="" type="radio"/> SOIL

Cell Deposit:
 <input checked="" type="radio"/> 1    2    3
4    5    6

Waste Origin:
Where did the waste come from? (i.e. PAD 88X)
 <u>C5 47</u>



Waste Volume			
Please indicate in either Barrels (BBLs), Yards (Yds), Cubic Feet (Feet) <sup>3</sup> , or Tonnage (Tons) in the appropriate box below.			
 <input type="checkbox"/> BBLs	or	<input type="checkbox"/> YDs	or
<input type="checkbox"/> Feet <sup>3</sup>	or	<input type="checkbox"/> Tons	
		<u>10</u>	

Transport Type:	
 <input checked="" type="radio"/> D Dump Truck	H Hydrovac Truck
<input checked="" type="radio"/> V Vacuum Truck	<input type="radio"/> Other _____

I acknowledge that only the following wastes are acceptable to deliver to the Land Farm:

- \*Tank Sludges that have been de-watered
- \*Pit Reclamation Waste
- \*Hydrovac Mud
- \*Soil from Spill Remediation that has been profiled prior to being taken to the Land Farm

[Signature]  
Transport Driver Signature

Tillage Details (Maintenance Personnel Only)	
 Tillage Start Time <u>11:00</u> <u>[Signature]</u> Maintenance Signature	Waste Area: Please indicate the Length and Width of the Application in Feet  Length <u>24</u> Width <u>12</u>

[Signature]  
Company Representative  
9-27-18  
Date



Transport Company: WeldonTransport Driver: Clayton CoxDate: 9/27/18Time of Delivery: 9:45Company Phone: 435-289-9015Driver Phone: 435-621-1087Weather Conditions: clear, sunny

Ticket NO.

13665

\*NOTE: if the Landfarm is covered with snow or frozen, temporarily place in stockpile area with a layer of clean soil over the top of the pile. Immediately till once the Landfarm is cleared of snow or unfrozen.

## Waste Type

<input type="radio"/> 01 Tank Sludge	05 Hydrovac Mud
<input type="radio"/> 02 Pit Reclamation (Sludge)	06 Cellar Sludge
<input type="radio"/> 03 Pit Reclamation (Soil)	07 Other
<input type="radio"/> 04 Soil From Spill	<u>piping for well</u>

## Waste State:

<input type="radio"/> SLUDGE
<input type="radio"/> SOIL

## Cell Deposit:

<input checked="" type="radio"/> 1	2	3
<input type="radio"/> 4	5	6

## Waste Origin:

Where did the waste come from? (i.e. PAD 88X)

~~CS-476~~

## Waste Volume

Please indicate in either Barrels (BBLs), Yards (Yds), Cubic Feet (Feet)<sup>3</sup>, or Tonnage (Tons) in the appropriate box below.

<input checked="" type="radio"/> BBLs	or	<input type="radio"/> YDs	or	<input type="radio"/> Feet <sup>3</sup>	or	<input type="radio"/> Tons
		<u>5</u>				

## Transport Type:

<input checked="" type="radio"/> D Dump Truck	H Hydrovac Truck
<input type="radio"/> V Vacuum Truck	O Other

I acknowledge that only the following wastes are acceptable to deliver to the Land Farm:

- \*Tank Sludges that have been de-watered
- \*Pit Reclamation Waste
- \*Hydrovac Mud
- \*Soil from Spill Remediation that has been profiled prior to being taken to the Land Farm

Clayton Cox  
Transport Driver Signature

## Tillage Details (Maintenance Personnel Only)

## Tillage Start Time

9:45Lord Nicholson  
Maintenance Signature

## Waste Area:

Please indicate the Length and Width of the Application in Feet

<input checked="" type="radio"/> Length	<input type="radio"/> Width
<u>24</u>	<u>12</u>

Shannah Wilcher  
Company Representative9/27/18  
Date

Transport Company: weidow

Transport Driver: CLAYTON COY

Date: 9-27-18

Weather Conditions: SUNNY

Time of Delivery: 11:32

Company Phone: 435 789-9015

Driver Phone: 135-621-1087

Ticket NO.

**13666**

\*NOTE: If the Landfarm is covered with snow or frozen, temporarily place in stockpile area with a layer of clean soil over the top of the pile. Immediately till once the Landfarm is cleared of snow or unfrozen.

### Waste Type

- ☒ 01 Tank Sludge  
☒ 02 Pit Reclamation (Sludge)  
☒ 03 Pit Reclamation (Soil)  
☐ 04 Soil From Spill
- ☐ 05 Hydrovac Mud  
☐ 06 Cellar Sludge  
☐ 07 Other \_\_\_\_\_

### Waste State:

- ☒ SLUDGE  
☒ SOIL

### Cell Deposit:

- ☒ 1 2 3  
☐ 4 5 6

### Waste Origin:

Where did the waste come from? (i.e. PAD 88X)

☒ CS 417

### Waste Volume

Please indicate in either Barrels (BBLs), Yards (Yds), Cubic Feet (Feet)<sup>3</sup>, or Tonnage (Tons) in the appropriate box below.

☒ BBLs or ☒ YDs or ☐ Feet<sup>3</sup> or ☐ Tons

### Transport Type:

- ☒ D Dump Truck  
☐ H Hydrovac Truck  
☒ V Vacuum Truck  
☐ O Other \_\_\_\_\_

I acknowledge that only the following wastes are acceptable to deliver to the Land Farm:

- \*Tank Sludges that have been de-watered    \*Pit Reclamation Waste    \*Hydrovac Mud  
\*Soil from Spill Remediation that has been profiled prior to being taken to the Land Farm

CLAYTON COY  
Transport Driver Signature

### Tillage Details (Maintenance Personnel Only)

#### Tillage Start Time

☒ 11:35

Cord Nickerson  
Maintenance Signature

#### Waste Area:

Please indicate the Length and Width of the Application in Feet

☒ Length 24 Width 12

Jawahar Whiteaker  
Company Representative

9-27-18

Date



Transport Company: Weiden

Transport Driver: Clinton

Date: 9-27-18

Weather Conditions: Sunny

Time of Delivery: 12:05

Company Phone: 769-9015 (435)

Driver Phone: 435-621-1067

Ticket NO.

**13667**

\*NOTE: if the Landfarm is covered with snow or frozen, temporarily place in stockpile area with a layer of clean soil over the top of the pile. Immediately till once the Landfarm is cleared of snow or unfrozen.

#### Waste Type

- ☒ 01 Tank Sludge  
☒ 02 Pit Reclamation (Sludge)  
☒ 03 Pit Reclamation (Soil)  
☐ 04 Soil From Spill
- ☐ 05 Hydrovac Mud  
☐ 06 Cellar Sludge  
☐ 07 Other

#### Waste State:

- ☒ SLUDGE  
☒ SOIL

#### Cell Deposit:

- ☒ 1 2 3  
☐ 4 5 6

#### Waste Origin:

Where did the waste come from? (i.e. PAD 88X)

☒ CS 47

#### Waste Volume

Please indicate in either Barrels (BBLs), Yards (Yds), Cubic Feet (Feet)<sup>3</sup>, or Tonnage (Tons) in the appropriate box below.

☒ BBLs or ☒ YDs or ☐ Feet<sup>3</sup> or ☐ Tons

#### Transport Type:

- ☒ D Dump Truck  
☐ H Hydrovac Truck  
☒ V Vacuum Truck  
☐ O Other

I acknowledge that only the following wastes are acceptable to deliver to the Land Farm:

- \*Tank Sludges that have been de-watered    \*Pit Reclamation Waste    \*Hydrovac Mud  
\*Soil from Spill Remediation that has been profiled prior to being taken to the Land Farm

Clinton  
Transport Driver Signature

#### Tillage Details (Maintenance Personnel Only)

##### Tillage Start Time

☒ 12:05

Lord Nielsen  
Maintenance Signature

##### Waste Area:

Please indicate the Length and Width of the Application in Feet

☒ Length 24 Width 12

Shwanah Alotaibi  
Company Representative

9-27-18  
Date



Transport Company: WEIDOW

Transport Driver: CLAYTON COX

Date: 9-27-14

Time of Delivery: 1:22





Company Phone: 435 769-9015


Driver Phone: 435 621-1087



Weather Conditions: SUNNY


Ticket NO.  
**13668**


\*NOTE: if the Landfarm is covered with snow or frozen, temporarily place in stockpile area with a layer of clean soil over the top of the pile. Immediately till once the Landfarm is cleared of snow or unfrozen.



Waste Type	
 01 Tank Sludge	05 Hydrovac Mud
 02 Pit Reclamation (Sludge)	06 Cellar Sludge
 03 Pit Reclamation (Soil)	07 Other
 04 Soil From Spill	

Waste State:
 SLUDGE
 SOIL

Cell Deposit:
 1 2 3
 4 5 6

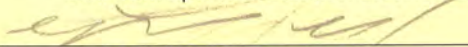
Waste Origin:
Where did the waste come from? (i.e. PAD 88X)
 CS 47










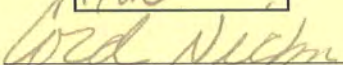
Waste Volume				
Please indicate in either Barrels (BBLs), Yards (Yds), Cubic Feet (Feet) <sup>3</sup> , or Tonnage (Tons) in the appropriate box below.				
 <input type="checkbox"/> BBLs	or	<input type="checkbox"/> YDs	or	<input type="checkbox"/> Feet <sup>3</sup>
<input type="checkbox"/>		10		<input type="checkbox"/>
<input type="checkbox"/>				<input type="checkbox"/> Tons

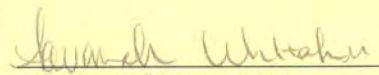
Transport Type:	
 <input checked="" type="checkbox"/> D Dump Truck	H Hydrovac Truck
 <input type="checkbox"/> V Vacuum Truck	<input type="checkbox"/> O Other

I acknowledge that only the following wastes are acceptable to deliver to the Land Farm:

- \*Tank Sludges that have been de-watered
- \*Pit Reclamation Waste
- \*Hydrovac Mud
- \*Soil from Spill Remediation that has been profiled prior to being taken to the Land Farm

  
Transport Driver Signature

Tillage Details (Maintenance Personnel Only)										
<table border="1"> <thead> <tr> <th>Tillage Start Time</th> </tr> </thead> <tbody> <tr> <td> 11:25</td> </tr> </tbody> </table>	Tillage Start Time	 11:25	<table border="1"> <thead> <tr> <th>Waste Area:</th> </tr> </thead> <tbody> <tr> <td>Please indicate the Length and Width of the Application in Feet</td> </tr> <tr> <td> <table border="1"> <thead> <tr> <th>Length</th> <th>Width</th> </tr> </thead> <tbody> <tr> <td> 24</td> <td>12</td> </tr> </tbody> </table> </td> </tr> </tbody> </table>	Waste Area:	Please indicate the Length and Width of the Application in Feet	<table border="1"> <thead> <tr> <th>Length</th> <th>Width</th> </tr> </thead> <tbody> <tr> <td> 24</td> <td>12</td> </tr> </tbody> </table>	Length	Width	 24	12
Tillage Start Time										
 11:25										
Waste Area:										
Please indicate the Length and Width of the Application in Feet										
<table border="1"> <thead> <tr> <th>Length</th> <th>Width</th> </tr> </thead> <tbody> <tr> <td> 24</td> <td>12</td> </tr> </tbody> </table>	Length	Width	 24	12						
Length	Width									
 24	12									
<u></u> Maintenance Signature										

  
Company Representative

\_\_\_\_\_  
Date

Transport Company: WeldonTransport Driver: Clayton CoxDate: 9-27-18Time of Delivery 2:00Weather Conditions: SunnyCompany Phone: 435-789-9015Driver Phone: 435-621-1087

Ticket NO.

**13669**

\*NOTE: if the Landfarm is covered with snow or frozen, temporarily place in stockpile area with a layer of clean soil over the top of the pile. Immediately till once the Landfarm is cleared of snow or unfrozen.

## Waste Type

- ☒ 01 Tank Sludge  
☐ 02 Pit Reclamation (Sludge)  
☒ 03 Pit Reclamation (Soil)  
☐ 04 Soil From Spill
- ☐ 05 Hydrovac Mud  
☐ 06 Cellular Sludge  
☐ 07 Other \_\_\_\_\_

## Waste State:

- ☒ SLUDGE  
☒ SOIL

## Cell Deposit:

- ☒ 1    2    3  
☐ 4    5    6

## Waste Origin:

Where did the waste come from? (i.e. PAD 88X)

☒ CS 47

## Waste Volume

Please indicate in either Barrels (BBLs), Yards (Yds), Cubic Feet (Feet)<sup>3</sup>, or Tonnage (Tons) in the appropriate box below.

<input checked="" type="radio"/> BBLs	or	<input type="radio"/> YDs	or	<input type="radio"/> Feet <sup>3</sup>	or	<input type="radio"/> Tons
		10				

## Transport Type:

- ☒ D Dump Truck  
☐ H Hydrovac Truck  
☒ V Vacuum Truck  
☐ O Other \_\_\_\_\_

I acknowledge that only the following wastes are acceptable to deliver to the Land Farm:

- \*Tank Sludges that have been de-watered    \*Pit Reclamation Waste    \*Hydrovac Mud  
\*Soil from Spill Remediation that has been profiled prior to being taken to the Land Farm

Transport Driver Signature  
[Signature]

## Tillage Details (Maintenance Personnel Only)

## Tillage Start Time

☒ 01 2:00Maintenance Signature  
[Signature]

## Waste Area:

Please indicate the Length and Width of the Application in Feet

<input checked="" type="radio"/> Length	<input type="radio"/> Width
24	12

Company Representative  
[Signature]Date  
9-27-18

Date



Transport Company: weidaw

Transport Driver: laion COX

Date: 9-27-18

Time of Delivery 2-30

Company Phone: 435-769-9015

Driver Phone: 435-621-1087

Weather Conditions: SUNNY

Ticket NO.

**13670**

\*NOTE: if the Landfarm is covered with snow or frozen, temporarily place in stockpile area with a layer of clean soil over the top of the pile. Immediately till once the Landfarm is cleared of snow or unfrozen.

### Waste Type

☒ 01 Tank Sludge  
☐ 02 Pit Reclamation (Sludge)  
☒ 03 Pit Reclamation (Soil)  
☐ 04 Soil From Spill  
☐ 05 Hydrovac Mud  
☐ 06 Cellar Sludge  
☐ 07 Other

### Waste State:

☒ SLUDGE  
☒ SOIL

### Cell Deposit:

☒ 1 2 3  
☐ 4 5 6

### Waste Origin:

Where did the waste come from? (i.e. PAD 88X)

☒ CS 47

### Waste Volume

Please indicate in either Barrels (BBLs), Yards (Yds), Cubic Feet (Feet)<sup>3</sup>, or Tonage (Tons) in the appropriate box below.

☒ BBLs or ☒ YDs or ☐ Feet<sup>3</sup> or ☐ Tons

### Transport Type:

☒ D-Dump Truck  
☐ H Hydrovac Truck  
☒ V Vacuum Truck  
☐ O Other

I acknowledge that only the following wastes are acceptable to deliver to the Land Farm:

- \*Tank Sludges that have been de-watered
- \*Pit Reclamation Waste
- \*Hydrovac Mud
- \*Soil from Spill Remediation that has been profiled prior to being taken to the Land Farm

laion COX  
Transport Driver Signature

### Tillage Details (Maintenance Personnel Only)

#### Tillage Start Time

☒ 2:30

Cord Nickson  
Maintenance Signature

#### Waste Area:

Please indicate the Length and Width of the Application in Feet

☒ Length ☒ Width  
24 12

Shawn White  
Company Representative

9-27-18  
Date



Transport Company: WeidenTransport Driver: Clinton CoxDate: 9-27-18Time of Delivery: 3:15Company Phone: 435 789-9015Driver Phone: 435-621-1097Weather Conditions: SunnyTicket NO.  
**13671**

\*NOTE: if the Landfarm is covered with snow or frozen, temporarily place in stockpile area with a layer of clean soil over the top of the pile. Immediately till once the Landfarm is cleared of snow or unfrozen.

## Waste Type



01 Tank Sludge

02 Pit Reclamation (Sludge)

03 Pit Reclamation (Soil)

04 Soil From Spill

05 Hydrovac Mud

06 Cellar Sludge

07 Other

## Waste State:



SLUDGE

SOIL

## Cell Deposit:



1 2 3

4 5 6

## Waste Origin:

Where did the waste come from? (i.e. PAD 88X)



CS 47

## Waste Volume

Please indicate in either Barrels (BBLs), Yards (Yds), Cubic Feet (Feet)<sup>3</sup>, or Tonnage (Tons) in the appropriate box below.

BBLs

or

YDs

or

Feet<sup>3</sup>

or

Tons

## Transport Type:



D Dump Truck

V Vacuum Truck

H Hydrovac Truck

O Other

I acknowledge that only the following wastes are acceptable to deliver to the Land Farm:

\*Tank Sludges that have been de-watered

\*Pit Reclamation Waste

\*Hydrovac Mud

\*Soil from Spill Remediation that has been profiled prior to being taken to the Land Farm

Transport Driver Signature

## Tillage Details (Maintenance Personnel Only)

## Tillage Start Time



3:15

Lord Nickson

Maintenance Signature

## Waste Area:

Please indicate the Length and Width of the Application in Feet



Length

24

Width

12

Company Representative

Date

Transport Company: Weiden

Transport Driver: Chaitan

Date: 9-27-16

Weather Conditions: Sunny

Time of Delivery 4:05

Company Phone: 135 789 9015

Driver Phone: 135 621 1087

Ticket NO.  
**13672**

\*NOTE: if the Landfarm is covered with snow or frozen, temporarily place in stockpile area with a layer of clean soil over the top of the pile. Immediately till once the Landfarm is cleared of snow or unfrozen.

#### Waste Type

- ☒ 01 Tank Sludge  
☐ 02 Pit Reclamation (Sludge)  
☒ 03 Pit Reclamation (Soil)  
☐ 04 Soil From Spill
- ☐ 05 Hydrovac Mud  
☐ 06 Cellar Sludge  
☐ 07 Other

#### Waste State:

- ☒ SLUDGE  
☒ SOIL

#### Cell Deposit:

- ☒ 1 2 3  
☐ 4 5 6

#### Waste Origin:

Where did the waste come from? (i.e. PAD 88X)

☒ CS 47

#### Waste Volume

Please indicate in either Barrels (BBLs), Yards (Yds), Cubic Feet (Feet)<sup>3</sup>, or Tons (Tons) in the appropriate box below.

☒ BBLs or ☒ YDs or ☐ Feet<sup>3</sup> or ☐ Tons

☐ ☐ or ☒ 10 or ☐ or ☐

#### Transport Type:

- ☒ D Dump Truck  
☐ V Vacuum Truck
- ☐ H Hydrovac Truck  
☐ O Other

I acknowledge that only the following wastes are acceptable to deliver to the Land Farm:

- \*Tank Sludges that have been de-watered
- \*Pit Reclamation Waste
- \*Hydrovac Mud
- \*Soil from Spill Remediation that has been profiled prior to being taken to the Land Farm

[Signature]  
Transport Driver Signature

#### Tillage Details (Maintenance Personnel Only)

##### Tillage Start Time

☒ 4:05

[Signature]  
Maintenance Signature

##### Waste Area:

Please indicate the Length and Width of the Application in Feet

☒ Length ☒ Width  
☒ 24 ☒ 12

[Signature]  
Company Representative

9-27-16

Date



Transport Company: WEIDEN

Transport Driver: CLAYTON COX

Date: 9-28-18

Time of Delivery: 8:30

Company Phone: 435 789-9015

Driver Phone: 435 621 1087

Weather Conditions: SUNNY

Ticket NO.

**13673**

\*NOTE: if the Landfarm is covered with snow or frozen, temporarily place in stockpile area with a layer of clean soil over the top of the pile. Immediately till once the Landfarm is cleared of snow or unfrozen.

### Waste Type

- 01 Tank Sludge  
02 Pit Reclamation (Sludge)  
03 Pit Reclamation (Soil)  
04 Soil From Spill  
05 Hydrovac Mud  
06 Cellar Sludge  
07 Other



Circle

### Waste State:

- SLUDGE  
SOIL



Circle

### Cell Deposit:

- 1 2 3  
4 5 6



Circle

### Waste Origin:

Where did the waste come from? (i.e. PAD 88X)



### Waste Volume

Please indicate in either Barrels (BBLs), Yards (Yds), Cubic Feet (Feet)<sup>3</sup>, or Tons (Tons) in the appropriate box below.



BBLs

or

YDs

or

Feet<sup>3</sup>

or

Tons

### Transport Type:

- D Dump Truck  
V Vacuum Truck



Circle

H Hydrovac Truck

O Other

I acknowledge that only the following wastes are acceptable to deliver to the Land Farm:

\*Tank Sludges that have been de-watered

\*Pit Reclamation Waste

\*Hydrovac Mud

\*Soil from Spill Remediation that has been profiled prior to being taken to the Land Farm

Transport Driver Signature

### Tillage Details (Maintenance Personnel Only)

#### Tillage Start Time



8:30

Maintenance Signature

#### Waste Area:

Please indicate the Length and Width of the Application in Feet



Length

24

Width

12

Company Representative

Date



Transport Company: Weidon

Transport Driver: David Cox

Date: 9-28-18

Weather Conditions: Sunny

Time of Delivery 9:05

Company Phone: 435 789 9015

Driver Phone: 435 621 1087

Ticket NO.  
**13674**

\*NOTE: if the Landfarm is covered with snow or frozen, temporarily place in stockpile area with a layer of clean soil over the top of the pile. Immediately till once the Landfarm is cleared of snow or unfrozen.

### Waste Type

01 Tank Sludge  
02 Pit Reclamation (Sludge)  
03 Pit Reclamation (Soil)  
04 Soil From Spill  
05 Hydrovac Mud  
06 Cellar Sludge  
07 Other

### Waste State:

SLUDGE  
SOIL

### Cell Deposit:

1 2 3  
4 5 6

### Waste Origin:

Where did the waste come from? (i.e. PAD 88X)

CS 47

### Waste Volume

Please indicate in either Barrels (BBLs), Yards (Yds), Cubic Feet (Feet)<sup>3</sup>, or Tonnage (Tons) in the appropriate box below.

BBLs YDs Feet<sup>3</sup> Tons  
or 10 or

### Transport Type:

D Dump Truck  
V Vacuum Truck  
H Hydrovac Truck  
O Other

I acknowledge that only the following wastes are acceptable to deliver to the Land Farm:

- \*Tank Sludges that have been de-watered
- \*Pit Reclamation Waste
- \*Hydrovac Mud
- \*Soil from Spill Remediation that has been profiled prior to being taken to the Land Farm

David Cox  
Transport Driver Signature

### Tillage Details (Maintenance Personnel Only)

#### Tillage Start Time

9:05

David Nicholson  
Maintenance Signature

#### Waste Area:

Please indicate the Length and Width of the Application in Feet

Length Width  
24 18

David Nicholson  
Company Representative

9-28-18

Date

Transport Company: WEIO

Transport Driver: CLAYTON JEX

Date: 9-26-19

Weather Conditions: SHINY

Time of Delivery 9:40

Company Phone: 435-789-9015

Driver Phone: 435-621-1087

Ticket NO.

**13675**

\*NOTE: if the Landfarm is covered with snow or frozen, temporarily place in stockpile area with a layer of clean soil over the top of the pile. Immediately till once the Landfarm is cleared of snow or unfrozen.

### Waste Type



01 Tank Sludge

02 Pit Reclamation (Sludge)

03 Pit Reclamation (Soil)

04 Soil From Spill

05 Hydrovac Mud

06 Cellar Sludge

07 Other

### Waste State:



SLUDGE

SOIL

### Cell Deposit:



1

2

3

4

5

6

### Waste Origin:

Where did the waste come from? (i.e. PAD 88X)



CS 47

### Waste Volume

Please indicate in either Barrels (BBLs), Yards (Yds), Cubic Feet (Feet)<sup>3</sup>, or Tons (Tons) in the appropriate box below.



BBLs

or

YDs

or

Feet<sup>3</sup>

or

Tons

### Transport Type:



D Dump Truck

V Vacuum Truck

H Hydrovac Truck

O Other

I acknowledge that only the following wastes are acceptable to deliver to the Land Farm:

\*Tank Sludges that have been de-watered

\*Pit Reclamation Waste

\*Hydrovac Mud

\*Soil from Spill Remediation that has been profiled prior to being taken to the Land Farm

CLAYTON JEX  
Transport Driver Signature

### Tillage Details (Maintenance Personnel Only)

#### Tillage Start Time



9:40

CLAYTON JEX  
Maintenance Signature

#### Waste Area:

Please indicate the Length and Width of the Application in Feet



Length

24

Width

12

Shannah Utah  
Company Representative

9-26-19  
Date



Transport Company: Weldco

Transport Driver: Rayford Cox

Date: 9-26-18

Weather Conditions: Sunny

Time of Delivery: 10:15

Company Phone: 435 789-9415

Driver Phone: 435 621 1067

Ticket NO.

**13676**

\*NOTE: if the Landfarm is covered with snow or frozen, temporarily place in stockpile area with a layer of clean soil over the top of the pile. Immediately till once the Landfarm is cleared of snow or unfrozen.

### Waste Type



01 Tank Sludge

02 Pit Reclamation (Sludge)

03 Pit Reclamation (Soil)

04 Soil From Spill

05 Hydrovac Mud

06 Cellar Sludge

07 Other

### Waste State:



SLUDGE

SOIL

### Cell Deposit:



1

2

3

4

5

6

### Waste Origin:

Where did the waste come from? (i.e. PAD 88X)



### Waste Volume

Please indicate in either Barrels (BBLs), Yards (Yds), Cubic Feet (Feet<sup>3</sup>), or Tons (Tons) in the appropriate box below.



BBLs

or

YDs

or

Feet<sup>3</sup>

or

Tons

### Transport Type:



D Dump Truck

H Hydrovac Truck

V Vacuum Truck

O Other

I acknowledge that only the following wastes are acceptable to deliver to the Land Farm:

\*Tank Sludges that have been de-watered

\*Pit Reclamation Waste

\*Hydrovac Mud

\*Soil from Spill Remediation that has been profiled prior to being taken to the Land Farm

Rayford Cox  
Transport Driver Signature

### Tillage Details (Maintenance Personnel Only)

#### Tillage Start Time



10:15

Corey Nickerson  
Maintenance Signature

#### Waste Area:

Please indicate the Length and Width of the Application in Feet



Length  
34

Width  
19

Lawrence Whitaker  
Company Representative

9-26-18

Date



Transport Company: Weiden

Transport Driver: CLAYTON COX

Date: 9-28-18

Time of Delivery: 10:30

Company Phone: 435-789-9015





Driver Phone: 435-621-1087

Weather Conditions: Sunny



Ticket NO.


**13677**


\*NOTE: if the Landfarm is covered with snow or frozen, temporarily place in stockpile area with a layer of clean soil over the top of the pile. Immediately till once the Landfarm is cleared of snow or unfrozen.



Waste Type	
 01 Tank Sludge	05 Hydrovac Mud
 02 Pit Reclamation (Sludge)	06 Cellar Sludge
 03 Pit Reclamation (Soil)	07 Other
 04 Soil From Spill	

Waste State:
 SLUDGE
 SOIL

Cell Deposit:
 1 2 3
 4 5 6

Waste Origin:
Where did the waste come from? (i.e. PAD 88X)
 CS 47

Waste Volume			
Please indicate in either Barrels (BBLs), Yards (Yds), Cubic Feet (Feet <sup>3</sup> ), or Tons (Tons) in the appropriate box below.			
 BBLs	or	Yds	or
		10	or
Feet <sup>3</sup>	or	Tons	

Transport Type:	
 D Dump Truck	H Hydrovac Truck
 V Vacuum Truck	O Other

I acknowledge that only the following wastes are acceptable to deliver to the Land Farm:










\*Tank Sludges that have been de-watered

\*Pit Reclamation Waste

\*Hydrovac Mud

\*Soil from Spill Remediation that has been profiled prior to being taken to the Land Farm

CLAYTON COX  
Transport Driver Signature

Tillage Details (Maintenance Personnel Only)										
<table border="1"> <thead> <tr> <th>Tillage Start Time</th> </tr> </thead> <tbody> <tr> <td> 10:50</td> </tr> </tbody> </table>	Tillage Start Time	 10:50	<table border="1"> <thead> <tr> <th>Waste Area:</th> </tr> </thead> <tbody> <tr> <td>Please indicate the Length and Width of the Application in Feet</td> </tr> <tr> <td> <table border="1"> <thead> <tr> <th>Length</th> <th>Width</th> </tr> </thead> <tbody> <tr> <td> 29</td> <td>12</td> </tr> </tbody> </table> </td> </tr> </tbody> </table>	Waste Area:	Please indicate the Length and Width of the Application in Feet	<table border="1"> <thead> <tr> <th>Length</th> <th>Width</th> </tr> </thead> <tbody> <tr> <td> 29</td> <td>12</td> </tr> </tbody> </table>	Length	Width	 29	12
Tillage Start Time										
 10:50										
Waste Area:										
Please indicate the Length and Width of the Application in Feet										
<table border="1"> <thead> <tr> <th>Length</th> <th>Width</th> </tr> </thead> <tbody> <tr> <td> 29</td> <td>12</td> </tr> </tbody> </table>	Length	Width	 29	12						
Length	Width									
 29	12									
<u>Oral Nicks</u> Maintenance Signature										

Sharmah Whitaker  
Company Representative

9-28-18  
Date

Transport Company: Weldon

Transport Driver: CLAYTON COX

Date: 9-28-18

Time of Delivery: 11:45

Company Phone: 435-789-9015

Driver Phone: 435-621-1087

Weather Conditions: Sunny

Ticket NO.

**13678**

\*NOTE: if the Landfarm is covered with snow or frozen, temporarily place in stockpile area with a layer of clean soil over the top of the pile. Immediately till once the Landfarm is cleared of snow or unfrozen.

### Waste Type

- 01 Tank Sludge  
02 Pit Reclamation (Sludge)  
03 Pit Reclamation (Soil)  
04 Soil From Spill
- 05 Hydrovac Mud  
06 Cellar Sludge  
07 Other

### Waste State:

- SLUDGE  
SOIL

### Cell Deposit:

- 1 2 3  
4 5 6

### Waste Origin:

Where did the waste come from? (i.e. PAD 88X)



CG 47

### Waste Volume

Please indicate in either Barrels (BBLs), Yards (Yds), Cubic Feet (Feet)<sup>3</sup>, or Tons (Tons) in the appropriate box below.

☒ BBLs or ☒ YDs or ☐ Feet<sup>3</sup> or ☐ Tons

10

### Transport Type:

- D Dump Truck  
V Vacuum Truck  
H Hydrovac Truck  
O Other

I acknowledge that only the following wastes are acceptable to deliver to the Land Farm:

- \*Tank Sludges that have been de-watered \*Pit Reclamation Waste \*Hydrovac Mud  
\*Soil from Spill Remediation that has been profiled prior to being taken to the Land Farm

CLAYTON COX  
Transport Driver Signature

### Tillage Details (Maintenance Personnel Only)

#### Tillage Start Time

11:45

CLAYTON COX  
Maintenance Signature

#### Waste Area:

Please indicate the Length and Width of the Application in Feet

Length: 24 Width: 12

Jawmali Whitaker  
Company Representative

9-28-18  
Date



Transport Company: Weldcon

Transport Driver: Clinton Cox

Date: 9-28-15

Time of Delivery: 12:15

Company Phone: 435-789-9015

Driver Phone: 435-621-1087

Ticket NO.

**13679**

Weather Conditions: Sunny

\*NOTE: if the Landfarm is covered with snow or frozen, temporarily place in stockpile area with a layer of clean soil over the top of the pile. Immediately till once the Landfarm is cleared of snow or unfrozen.

#### Waste Type



01 Tank Sludge  
02 Pit Reclamation (Sludge)  
03 Pit Reclamation (Soil)  
04 Soil From Spill

05 Hydrovac Mud  
06 Cellar Sludge  
07 Other

#### Waste State:



SLUDGE

SOIL

#### Cell Deposit:



1 2 3  
4 5 6

#### Waste Origin:

Where did the waste come from? (i.e. PAD 88X)



C5 47

#### Waste Volume

Please indicate in either Barrels (BBLs), Yards (Yds), Cubic Feet (Feet)<sup>3</sup>, or Tonnage (Tons) in the appropriate box below.



BBLs

or

YDs  
10

or

Feet<sup>3</sup>

or

Tons

#### Transport Type:

D Dump Truck

H Hydrovac Truck



V Vacuum Truck

O Other

I acknowledge that only the following wastes are acceptable to deliver to the Land Farm:

\*Tank Sludges that have been de-watered

\*Pit Reclamation Waste

\*Hydrovac Mud

\*Soil from Spill Remediation that has been profiled prior to being taken to the Land Farm

Clinton Cox  
Transport Driver Signature

#### Tillage Details (Maintenance Personnel Only)

##### Tillage Start Time



12:15

Bob Nickerson  
Maintenance Signature

##### Waste Area:

Please indicate the Length and Width of the Application in Feet



Length

24

Width

12

Charmelle Whitaker  
Company Representative

9-28-16  
Date



Transport Company: weidone

Transport Driver: Clinton Cox

Date: 9-28-18

Weather Conditions: SUNNY

Time of Delivery: 1:20

Company Phone: 435 759 9015

Driver Phone: 435 621-1087

Ticket NO.

**13680**

\*NOTE: if the Landfarm is covered with snow or frozen, temporarily place in stockpile area with a layer of clean soil over the top of the pile. Immediately till once the Landfarm is cleared of snow or unfrozen.

### Waste Type

01 Tank Sludge  
02 Pit Reclamation (Sludge)  
Circle 03 Pit Reclamation (Soil)  
04 Soil From Spill  
05 Hydrovac Mud  
06 Cellular Sludge  
07 Other \_\_\_\_\_

### Waste State:

SLUDGE  
Circle SOIL

### Cell Deposit:

Circle 1 2 3  
4 5 6

### Waste Origin:

Where did the waste come from? (i.e. PAD 88X)

CS 47

### Waste Volume

Please indicate in either Barrels (BBLs), Yards (Yds), Cubic Feet (Feet)<sup>3</sup>, or Tonnage (Tons) in the appropriate box below.

Circle BBLs or YDs or Feet<sup>3</sup> or Tons  
10

### Transport Type:

Circle D Dump Truck  
V Vacuum Truck  
H Hydrovac Truck  
O Other \_\_\_\_\_

I acknowledge that only the following wastes are acceptable to deliver to the Land Farm:

- \*Tank Sludges that have been de-watered
- \*Pit Reclamation Waste
- \*Hydrovac Mud
- \*Soil from Spill Remediation that has been profiled prior to being taken to the Land Farm

Clinton Cox  
Transport Driver Signature

### Tillage Details (Maintenance Personnel Only)

#### Tillage Start Time

Circle 1:20

Lord Nishane  
Maintenance Signature

#### Waste Area:

Please indicate the Length and Width of the Application in Feet

Circle Length 24 Width 12

Shannah Watake  
Company Representative

9-28-18  
Date

Transport Company: Wt 1000Transport Driver: Clayton CoxDate: 9-28-18Weather Conditions: SunnyTime of Delivery: 2:30Company Phone: 435-289-9215Driver Phone: 435-621-1057

Ticket NO.

13681

\*NOTE: if the Landfarm is covered with snow or frozen, temporarily place in stockpile area with a layer of clean soil over the top of the pile. Immediately till once the Landfarm is cleared of snow or unfrozen.

## Waste Type

- 01 Tank Sludge  
02 Pit Reclamation (Sludge)  
03 Pit Reclamation (Soil)  
04 Soil From Spill  
05 Hydrovac Mud  
06 Cellar Sludge  
07 Other

## Waste State:

- SLUDGE  
SOIL

## Cell Deposit:

- 1 2 3  
4 5 6

## Waste Origin:

Where did the waste come from? (i.e. PAD 88X)

CS 47

## Waste Volume

Please indicate in either Barrels (BBLs), Yards (Yds), Cubic Feet (Feet)<sup>3</sup>, or Tonnage (Tons) in the appropriate box below.

BBLs

or

YDs

or

Feet<sup>3</sup>

or

Tons

## Transport Type:

D Dump Truck

H Hydrovac Truck



V Vacuum Truck

O Other

I acknowledge that only the following wastes are acceptable to deliver to the Land Farm:

\*Tank Sludges that have been de-watered

\*Pit Reclamation Waste

\*Hydrovac Mud

\*Soil from Spill Remediation that has been profiled prior to being taken to the Land Farm

Transport Driver Signature

## Tillage Details (Maintenance Personnel Only)

## Tillage Start Time

2:00

Maintenance Signature

## Waste Area:

Please indicate the Length and Width of the Application in Feet



Length

24

Width

12

Company Representative

Date

9-28-18



Transport Company: WetdonTransport Driver: CLAYTON COXDate: 9-28-16Time of Delivery: 12:30Company Phone: 435 789-9015Driver Phone: 435 601-1087


Ticket NO.

13682

Weather Conditions: Sunny


\*NOTE: if the Landfarm is covered with snow or frozen, temporarily place in stockpile area with a layer of clean soil over the top of the pile. Immediately till once the Landfarm is cleared of snow or unfrozen.

## Waste Type


 01 Tank Sludge  
02 Pit Reclamation (Sludge)  
03 Pit Reclamation (Soil)  
04 Soil From Spill

05 Hydrovac Mud  
06 Cellar Sludge  
07 Other \_\_\_\_\_

## Waste State:


 SLUDGE  
SOIL

## Cell Deposit:

 1 2 3  
4 5 6

## Waste Origin:

Where did the waste come from? (i.e. PAD 88X)

 CS 47

## Waste Volume

Please indicate in either Barrels (BBLs), Yards (Yds), Cubic Feet (Feet)<sup>3</sup>, or Tonnage (Tons) in the appropriate box below.

BBLs

or

YDs

10


or

Feet<sup>3</sup>

or

Tons

## Transport Type:

 D Dump Truck  
SOIL

V Vacuum Truck

H Hydrovac Truck

O Other \_\_\_\_\_

I acknowledge that only the following wastes are acceptable to deliver to the Land Farm:

\*Tank Sludges that have been de-watered

\*Pit Reclamation Waste

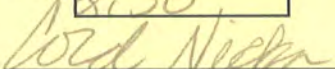
\*Hydrovac Mud

\*Soil from Spill Remediation that has been profiled prior to being taken to the Land Farm

  
Transport Driver Signature

## Tillage Details (Maintenance Personnel Only)

Tillage Start Time

2:30  
Maintenance Signature

Waste Area:

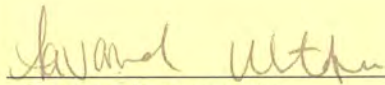
Please indicate the Length and Width of the Application in Feet



Length

29

Width

12  
Company Representative9-28-16  
Date



Transport Company: WeldanTransport Driver: Markan 104Date: 9-28-18Time of Delivery: 3:11Company Phone: 435-789-9015Driver Phone: 435-621-1087Weather Conditions: sunny

Ticket NO.

13683

\*NOTE: if the Landfarm is covered with snow or frozen, temporarily place in stockpile area with a layer of clean soil over the top of the pile. Immediately till once the Landfarm is cleared of snow or unfrozen.

## Waste Type

- ☒ 01 Tank Sludge  
☒ 02 Pit Reclamation (Sludge)  
☒ 03 Pit Reclamation (Soil)  
☐ 04 Soil From Spill
- ☐ 05 Hydrovac Mud  
☐ 06 Cellar Sludge  
☐ 07 Other

## Waste State:

- ☒ SLUDGE  
☒ SOIL

## Cell Deposit:

- ☒ 1 2 3  
☐ 4 5 6

## Waste Origin:

Where did the waste come from? (i.e. PAD 88X)

☒ CS 47

## Waste Volume

Please indicate in either Barrels (BBLs), Yards (Yds), Cubic Feet (Feet)<sup>3</sup>, or Tonnage (Tons) in the appropriate box below.

☒ BBLs or ☒ YDs or ☐ Feet<sup>3</sup> or ☐ Tons

☐ ☐ 10 ☐ ☐

## Transport Type:

- ☒ D Dump Truck  
☐ H Hydrovac Truck  
☒ V Vacuum Truck  
☐ O Other

I acknowledge that only the following wastes are acceptable to deliver to the Land Farm:

- \*Tank Sludges that have been de-watered    \*Pit Reclamation Waste    \*Hydrovac Mud  
\*Soil from Spill Remediation that has been profiled prior to being taken to the Land Farm

Transport Driver Signature

## Tillage Details (Maintenance Personnel Only)

## Tillage Start Time

☒ 3:11

Maintenance Signature

## Waste Area:

Please indicate the Length and Width of the Application in Feet

☒ Length ☒ Width

☒ 24 ☒ 12

Company Representative

Date

Transport Company: Weidon

Transport Driver: Mark V. Cox

Date: 9-28-16

Weather Conditions: Sunny

Time of Delivery 3:45

Company Phone: 435-789-9013

Driver Phone: 435-621-1087

Ticket NO.

**13684**

\*NOTE: if the Landfarm is covered with snow or frozen, temporarily place in stockpile area with a layer of clean soil over the top of the pile. Immediately till once the Landfarm is cleared of snow or unfrozen.

### Waste Type



01 Tank Sludge

02 Pit Reclamation (Sludge)

03 Pit Reclamation (Soil)

04 Soil From Spill

05 Hydrovac Mud

06 Cellar Sludge

07 Other

### Waste State:



SLUDGE

SOIL

### Cell Deposit:



1

2

3

4

5

6

### Waste Origin:

Where did the waste come from? (i.e. PAD 88X)



CS 47

### Waste Volume

Please indicate in either Barrels (BBLS), Yards (Yds), Cubic Feet (Feet)<sup>3</sup>, or Tons (Tons) in the appropriate box below.



BBLS

or

YDs

or

Feet<sup>3</sup>

or

Tons

### Transport Type:



D Dump Truck

H Hydrovac Truck

V Vacuum Truck

O Other

I acknowledge that only the following wastes are acceptable to deliver to the Land Farm:

\*Tank Sludges that have been de-watered

\*Pit Reclamation Waste

\*Hydrovac Mud

\*Soil from Spill Remediation that has been profiled prior to being taken to the Land Farm

Mark V. Cox  
Transport Driver Signature

### Tillage Details (Maintenance Personnel Only)

#### Tillage Start Time



3:45

Corey Nick  
Maintenance Signature

#### Waste Area:

Please indicate the Length and Width of the Application in Feet



Length

24

Width

12

Jonathan Whitman  
Company Representative

9-28-16

Date



Transport Company: Urie Trucking

Transport Driver: HAZELBUSH

Date: 28 Sep 2018

Weather Conditions: Clear

Time of Delivery: 8:45

Company Phone: 645-5466

Driver Phone: 220-2553

Ticket NO.

**13760**

\*NOTE: if the Landfarm is covered with snow or frozen, temporarily place in stockpile area with a layer of clean soil over the top of the pile. Immediately till once the Landfarm is cleared of snow or unfrozen.

**Waste Type**

01 Tank Sludge  
02 Pit Reclamation (Sludge)  
03 Pit Reclamation (Soil)  
04 Soil From Spill  
05 Hydrovac Mud  
06 Cellar Sludge  
07 Other



**Waste State:**

SLUDGE  
SOIL



**Cell Deposit:**

1 2 3  
4 5 6



**Waste Origin:**

Where did the waste come from? (i.e. PAD 88X)

C.S. 47b

**Waste Volume**

Please indicate in either Barrels (BBLs), Yards (Yds), Cubic Feet (Feet)<sup>3</sup>, or Tonnage (Tons) in the appropriate box below.



BBLs

or

Yds  
10

or

Feet<sup>3</sup>

or

Tons

**Transport Type:**

D Dump Truck

H Hydrovac Truck



V Vacuum Truck

O Other

I acknowledge that only the following wastes are acceptable to deliver to the Land Farm:

\*Tank Sludges that have been de-watered

\*Pit Reclamation Waste

\*Hydrovac Mud

\*Soil from Spill Remediation that has been profiled prior to being taken to the Land Farm

Transport Driver Signature

Charles Hazelbush

**Tillage Details (Maintenance Personnel Only)**

**Tillage Start Time**



8:45

Maintenance Signature

Wendy Nickman

**Waste Area:**

Please indicate the Length and Width of the Application in Feet



Length  
24

Width  
12

Company Representative

Date

Shirah White

28 Sep 2018



Transport Company: Drivet TruckingTransport Driver: HAZELBUSHDate: 28 Sep 18Time of Delivery: 9:20Company Phone: 615-5166Driver Phone: 720-8553Weather Conditions: Clear

Ticket NO.

13761

\*NOTE: if the Landfarm is covered with snow or frozen, temporarily place in stockpile area with a layer of clean soil over the top of the pile. Immediately till once the Landfarm is cleared of snow or unfrozen.

## Waste Type



01 Tank Sludge

02 Pit Reclamation (Sludge)

03 Pit Reclamation (Soil)

04 Soil From Spill

05 Hydrovac Mud

06 Cellar Sludge

07 Other

## Waste State:



SLUDGE

SOIL

## Cell Deposit:



1

2

3

4

5

6

## Waste Origin:

Where did the waste come from? (i.e. PAD 88X)



C.S. 47b

## Waste Volume

Please indicate in either Barrels (BBLs), Yards (Yds), Cubic Feet (Feet)<sup>3</sup>, or Tonnage (Tons) in the appropriate box below.

BBLs

or

YDs

or

Feet<sup>3</sup>

or

Tons

## Transport Type:



D Dump Truck

V Vacuum Truck

H Hydrovac Truck

O Other

I acknowledge that only the following wastes are acceptable to deliver to the Land Farm:

\*Tank Sludges that have been de-watered

\*Pit Reclamation Waste

\*Hydrovac Mud

\*Soil from Spill Remediation that has been profiled prior to being taken to the Land Farm

Transport Driver Signature

## Tillage Details (Maintenance Personnel Only)

## Tillage Start Time



9:20

Maintenance Signature

## Waste Area:

Please indicate the Length and Width of the Application in Feet



Length

24

Width

12

Company Representative

Date

#3

Transport Company: DMC TRUCKINGTransport Driver: HAZEL BUSHDate: 28 Sep 2018Time of Delivery: 9:55Company Phone: 675-5766Driver Phone: 240-2553Weather Conditions: Clear / Calm

Ticket NO.

13762

\*NOTE: if the Landfarm is covered with snow or frozen, temporarily place in stockpile area with a layer of clean soil over the top of the pile. Immediately till once the Landfarm is cleared of snow or unfrozen.

## Waste Type

01 Tank Sludge  
 02 Pit Reclamation (Sludge)  
 03 Pit Reclamation (Soil)  
 04 Soil From Spill

05 Hydrovac Mud  
 06 Cellar Sludge  
 07 Other

Circle 03

## Waste State:

SLUDGE  
 SOIL

Circle SOIL

## Cell Deposit:

1 2 3  
 4 5 6

Circle 1

## Waste Origin:

Where did the waste come from? (i.e. PAD 88X)

C.S. 476

## Waste Volume

Please indicate in either Barrels (BBLS), Yards (Yds), Cubic Feet (Feet)<sup>3</sup>, or Tons (Tons) in the appropriate box below.

BBLS

or

YDs

or

Feet<sup>3</sup>

or

Tons

## Transport Type:

D Dump Truck

H Hydrovac Truck

V Vacuum Truck

O Other



I acknowledge that only the following wastes are acceptable to deliver to the Land Farm:

\*Tank Sludges that have been de-watered

\*Pit Reclamation Waste

\*Hydrovac Mud

\*Soil from Spill Remediation that has been profiled prior to being taken to the Land Farm

Transport Driver Signature

## Tillage Details (Maintenance Personnel Only)

## Tillage Start Time

9:55Lord Nickman

Maintenance Signature

## Waste Area:

Please indicate the Length and Width of the Application in Feet



Length

24

Width

12

Company Representative

Date

28 Sep 2018



#4

Transport Company:

A.P.E. Trucking

Transport Driver:

HAZELBUSH

Date:

28 Sep 2018

Time of Delivery:

10:20

Company Phone:

675-5766

Driver Phone:

220-2553

Weather Conditions:

Clear Calm

Ticket NO.

**13763**

\*NOTE: if the Landfarm is covered with snow or frozen, temporarily place in stockpile area with a layer of clean soil over the top of the pile. Immediately till once the Landfarm is cleared of snow or unfrozen.

## Waste Type



01 Tank Sludge

02 Pit Reclamation (Sludge)

03 Pit Reclamation (Soil)

04 Soil From Spill

05 Hydrovac Mud

06 Cellar Sludge

07 Other

## Waste State:



SLUDGE

SOIL

## Cell Deposit:



1

2

3

4

5

6

## Waste Origin:

Where did the waste come from? (i.e. PAD 88X)

C.S. 436

## Waste Volume

Please indicate in either Barrels (BBLs), Yards (Yds), Cubic Feet (Feet)<sup>3</sup>, or Tonnage (Tons) in the appropriate box below.



BBLs

or

YDs

or

Feet<sup>3</sup>

or

Tons

10

## Transport Type:



D Dump Truck

V Vacuum Truck

H Hydrovac Truck

O Other

I acknowledge that only the following wastes are acceptable to deliver to the Land Farm:

\*Tank Sludges that have been de-watered

\*Pit Reclamation Waste

\*Hydrovac Mud

\*Soil from Spill Remediation that has been profiled prior to being taken to the Land Farm

Charles Hazelbush  
Transport Driver Signature

## Tillage Details (Maintenance Personnel Only)

## Tillage Start Time

10:20

Lord Nick  
Maintenance Signature

## Waste Area:

Please indicate the Length and Width of the Application in Feet



Length

24

Width

12

Kwanah White  
Company Representative

18 Sep 2018

Date



Transport Company: Unic Trucking

Transport Driver: HAZELBUSH

Date: 28 Sep 2018

Time of Delivery: 11:00

Company Phone: 675-5766

Driver Phone: 220-2553

Weather Conditions: Clear Calm

Ticket NO.  
**13764**

\*NOTE: if the Landfarm is covered with snow or frozen, temporarily place in stockpile area with a layer of clean soil over the top of the pile. Immediately till once the Landfarm is cleared of snow or unfrozen.

### Waste Type

01 Tank Sludge  
02 Pit Reclamation (Sludge)  
03 Pit Reclamation (Soil)  
04 Soil From Spill  
05 Hydrovac Mud  
06 Cellar Sludge  
07 Other



### Waste State:

SLUDGE  
SOIL



### Cell Deposit:

1 2 3  
4 5 6



### Waste Origin:

Where did the waste come from? (i.e. PAD 88X)

C.S. 478

### Waste Volume

Please indicate in either Barrels (BBLs), Yards (Yds), Cubic Feet (Feet)<sup>3</sup>, or Tonnage (Tons) in the appropriate box below.



BBLs

or

YDs

or

Feet<sup>3</sup>

or

Tons

### Transport Type:

D Dump Truck

H Hydrovac Truck

V Vacuum Truck

O Other



I acknowledge that only the following wastes are acceptable to deliver to the Land Farm:

\*Tank Sludges that have been de-watered

\*Pit Reclamation Waste

\*Hydrovac Mud

\*Soil from Spill Remediation that has been profiled prior to being taken to the Land Farm

Charles Hazelbush  
Transport Driver Signature

### Tillage Details (Maintenance Personnel Only)

#### Tillage Start Time



11:00

Lord Niden  
Maintenance Signature

#### Waste Area:

Please indicate the Length and Width of the Application in Feet

Length  
24

Width  
12



Jawana Watake  
Company Representative

28 Sep 2018  
Date

#6  
Transport Company: URIE TRUCKING

Transport Driver: HAZELBUSH

Date: 28 Sep 2018

Time of Delivery: 11:30

Company Phone: 625-5766

Driver Phone: 970-240-2553

Weather Conditions: CLEAR

Ticket NO.  
**13765**

\*NOTE: if the Landfarm is covered with snow or frozen, temporarily place in stockpile area with a layer of clean soil over the top of the pile. Immediately till once the Landfarm is cleared of snow or unfrozen.

Waste Type	
<input type="radio"/> 01 Tank Sludge	05 Hydrovac Mud
<input type="radio"/> 02 Pit Reclamation (Sludge)	06 Cellar Sludge
<input checked="" type="radio"/> 03 Pit Reclamation (Soil)	07 Other
<input type="radio"/> 04 Soil From Spill	

Waste State:
<input type="radio"/> SLUDGE
<input checked="" type="radio"/> SOIL

Cell Deposit:
<input checked="" type="radio"/> 1    2    3
<input type="radio"/> 4    5    6

Waste Origin:
Where did the waste come from? (i.e. PAD 88X)
<input checked="" type="checkbox"/> CS-47b

Waste Volume			
Please indicate in either Barrels (BBLs), Yards (Yds), Cubic Feet (Feet) <sup>3</sup> , or Tons (Tons) in the appropriate box below.			
<input checked="" type="radio"/> BBLs	or	<input type="radio"/> YDs	or
<input type="radio"/> Feet <sup>3</sup>	or	<input type="radio"/> Tons	
		10	

Transport Type:	
<input checked="" type="radio"/> D Dump Truck	H Hydrovac Truck
<input type="radio"/> V Vacuum Truck	O Other

I acknowledge that only the following wastes are acceptable to deliver to the Land Farm:

- \*Tank Sludges that have been de-watered
- \*Pit Reclamation Waste
- \*Hydrovac Mud
- \*Soil from Spill Remediation that has been profiled prior to being taken to the Land Farm

Charles Hazelbush  
Transport Driver Signature

#### Tillage Details (Maintenance Personnel Only)

Tillage Start Time
<input checked="" type="radio"/> 11:30

Lord Nick  
Maintenance Signature

Waste Area:	
Please indicate the Length and Width of the Application in Feet	
<input checked="" type="radio"/> Length	<input type="radio"/> Width
24	19

Samuel Whitaker  
Company Representative

28 Sep 2018  
Date



Transport Company: URIE TRUCKING

Transport Driver: HAZELBUSH

Date: 28 Sep 2018

Time of Delivery: 1100H

Company Phone: 675-5766

Driver Phone: 220-2553

Weather Conditions: Clear Slight Breeze

Ticket NO.  
**13766**

\*NOTE: if the Landfarm is covered with snow or frozen, temporarily place in stockpile area with a layer of clean soil over the top of the pile. Immediately till once the Landfarm is cleared of snow or unfrozen.

#### Waste Type

- 01 Tank Sludge  
02 Pit Reclamation (Sludge)  
03 Pit Reclamation (Soil)  
04 Soil From Spill
- 05 Hydrovac Mud  
06 Cellar Sludge  
07 Other

#### Waste State:

- SLUDGE  
SOIL

#### Cell Deposit:

- 1 2 3  
4 5 6

#### Waste Origin:

Where did the waste come from? (i.e. PAD 88X)

C.S. 476

#### Waste Volume

Please indicate in either Barrels (BBLs), Yards (Yds), Cubic Feet (Feet)<sup>3</sup>, or Tons (Tons) in the appropriate box below.

☒ BBLs or ☒ YDs or ☐ Feet<sup>3</sup> or ☐ Tons

10

#### Transport Type:

- D Dump Truck  
H Hydrovac Truck  
V Vacuum Truck  
O Other

I acknowledge that only the following wastes are acceptable to deliver to the Land Farm:

- \*Tank Sludges that have been de-watered
- \*Pit Reclamation Waste
- \*Hydrovac Mud
- \*Soil from Spill Remediation that has been profiled prior to being taken to the Land Farm

Transport Driver Signature

#### Tillage Details (Maintenance Personnel Only)

##### Tillage Start Time

12:00  
Cord Nickm  
Maintenance Signature

##### Waste Area:

Please indicate the Length and Width of the Application in Feet

☒ Length ☒ Width  
24 12

Company Representative

28 Sep 2018  
Date



Transport Company: URIE TRUCKINGTransport Driver: HAZELBUSHDate: 28-SEP-2018Time of Delivery: 1:15Company Phone: 675-5766Driver Phone: 220-2553Weather Conditions: CLEAR SLIGHT BREEZE

\*NOTE: if the Landfarm is covered with snow or frozen, temporarily place in stockpile area with a layer of clean soil over the top of the pile. Immediately till once the Landfarm is cleared of snow or unfrozen.

Ticket NO.  
**13767**

## Waste Type

01 Tank Sludge  
02 Pit Reclamation (Sludge)  
03 Pit Reclamation (Soil)  
04 Soil From Spill05 Hydrovac Mud  
06 Cellar Sludge  
07 Other \_\_\_\_\_

## Waste State:

SLUDGE  
SOIL

## Cell Deposit:

1 2 3  
4 5 6

## Waste Origin:

Where did the waste come from? (i.e. PAD 88X)

C.S. 476

## Waste Volume

Please indicate in either Barrels (BBLS), Yards (Yds), Cubic Feet (Feet)<sup>3</sup>, or Tons (Tons) in the appropriate box below.

BBLS

or

YDs  
10

or

Feet<sup>3</sup>

or

Tons

## Transport Type:



D Dump Truck

H Hydrovac Truck

V Vacuum Truck

O Other \_\_\_\_\_

I acknowledge that only the following wastes are acceptable to deliver to the Land Farm:

\*Tank Sludges that have been de-watered

\*Pit Reclamation Waste

\*Hydrovac Mud

\*Soil from Spill Remediation that has been profiled prior to being taken to the Land Farm

Charles Hazelbush  
Transport Driver Signature

## Tillage Details (Maintenance Personnel Only)



Tillage Start Time

1:15

Ward Nickson  
Maintenance Signature

Waste Area:

Please indicate the Length and Width of the Application in Feet



Length

24

Width

12

Shawna White  
Company Representative28 SEP 2018  
Date

19

Transport Company: Urie TruckingTransport Driver: HAZELBUSNDate: 28 SEP 2018Time of Delivery: 3:00Weather Conditions: CLEAR BreezyCompany Phone: 675-5266Driver Phone: 220-2553Ticket NO.  
**13768**

\*NOTE: if the Landfarm is covered with snow or frozen, temporarily place in stockpile area with a layer of clean soil over the top of the pile. Immediately till once the Landfarm is cleared of snow or unfrozen.

## Waste Type

01 Tank Sludge  
02 Pit Reclamation (Sludge)  
03 Pit Reclamation (Soil)  
04 Soil From Spill05 Hydrovac Mud  
06 Cellar Sludge  
07 Other \_\_\_\_\_

## Waste State:

SLUDGE  
SOIL

## Cell Deposit:

1 1 2 3  
4 5 6

## Waste Origin:

Where did the waste come from? (i.e. PAD 88X)

C.S. 476

## Waste Volume

Please indicate in either Barrels (BBLs), Yards (Yds), Cubic Feet (Feet)<sup>3</sup>, or Tons (Tons) in the appropriate box below.BBLs  
\_\_\_\_\_

or

Yds  
10

or

Feet<sup>3</sup>  
\_\_\_\_\_

or

Tons  
\_\_\_\_\_

## Transport Type:

D Dump Truck

H Hydrovac Truck

V Vacuum Truck

O Other \_\_\_\_\_

I acknowledge that only the following wastes are acceptable to deliver to the Land Farm:

\*Tank Sludges that have been de-watered

\*Pit Reclamation Waste

\*Hydrovac Mud

\*Soil from Spill Remediation that has been profiled prior to being taken to the Land Farm

Charles Hazelbusch  
Transport Driver Signature

## Tillage Details (Maintenance Personnel Only)

## Tillage Start Time

3:00Lord Nickson

Maintenance Signature

## Waste Area:

Please indicate the Length and Width of the Application in Feet

Length  
24Width  
12Sharmah White  
Company Representative28 Sep 2018

Date



Transport Company: Urie Trucking

Transport Driver: HAZELBUSH

Date: 28-Sep-2018 Time of Delivery: 3:30

Weather Conditions: Clean Breezy

Company Phone: 675-5766

Driver Phone: 220-2553

Ticket NO.

**13769**

\*NOTE: if the Landfarm is covered with snow or frozen, temporarily place in stockpile area with a layer of clean soil over the top of the pile. Immediately till once the Landfarm is cleared of snow or unfrozen.

#### Waste Type

01 Tank Sludge  
02 Pit Reclamation (Sludge)  
03 Pit Reclamation (Soil)  
04 Soil From Spill  
05 Hydrovac Mud  
06 Cellar Sludge  
07 Other

#### Waste State:

SLUDGE  
SOIL

#### Cell Deposit:

1 2 3  
4 5 6

#### Waste Origin:

Where did the waste come from? (i.e. PAD 88X)

C.S. 476

#### Waste Volume

Please indicate in either Barrels (BBLs), Yards (Yds), Cubic Feet (Feet)<sup>3</sup>, or Tonnage (Tons) in the appropriate box below.

~~Handwritten~~ BBLs or 10 YDs or Feet<sup>3</sup> or Tons

#### Transport Type:

D Dump Truck H Hydrovac Truck  
V Vacuum Truck O Other

I acknowledge that only the following wastes are acceptable to deliver to the Land Farm:

- \*Tank Sludges that have been de-watered
- \*Pit Reclamation Waste
- \*Hydrovac Mud
- \*Soil from Spill Remediation that has been profiled prior to being taken to the Land Farm

Charles Hazellbush  
Transport Driver Signature

#### Tillage Details (Maintenance Personnel Only)

##### Tillage Start Time

3:30

Cord Nickerson  
Maintenance Signature

##### Waste Area:

Please indicate the Length and Width of the Application in Feet

24 Length 12 Width

James White  
Company Representative

28 SEP 2018  
Date



Transport Company: URIE

Transport Driver: Jeff

Date: 9-28-18

Weather Conditions: Sunny

Time of Delivery: 8:55


Company Phone: 675-5766

Driver Phone: 435-790-118


Ticket NO.  
**13715**

\*NOTE: if the Landfarm is covered with snow or frozen, temporarily place in stockpile area with a layer of clean soil over the top of the pile. Immediately till once the Landfarm is cleared of snow or unfrozen.


#### Waste Type

-  01 Tank Sludge  
02 Pit Reclamation (Sludge)  
Circle 03 Pit Reclamation (Soil)  
04 Soil From Spill
- 05 Hydrovac Mud  
06 Cellar Sludge  
07 Other \_\_\_\_\_

#### Waste State:


-  SLUDGE  
Circle SOIL

#### Cell Deposit:

-  1 2 3  
Circle 4 5 6


#### Waste Origin:

Where did the waste come from? (i.e. PAD 88X)

 CS-47


#### Waste Volume

Please indicate in either Barrels (BBLs), Yards (Yds), Cubic Feet (Feet)<sup>3</sup>, or Tonnage (Tons) in the appropriate box below.

 Circle ☐ BBLs or ☐ YDs or ☐ Feet<sup>3</sup> or ☐ Tons

10

#### Transport Type:

-  Circle D Dump Truck H Hydrovac Truck  
V Vacuum Truck O Other


I acknowledge that only the following wastes are acceptable to deliver to the Land Farm:

- \*Tank Sludges that have been de-watered
- \*Pit Reclamation Waste
- \*Hydrovac Mud
- \*Soil from Spill Remediation that has been profiled prior to being taken to the Land Farm

Jeff  
Transport Driver Signature

#### Tillage Details (Maintenance Personnel Only)


##### Tillage Start Time

 8:35

Corey White  
Maintenance Signature

##### Waste Area:

Please indicate the Length and Width of the Application in Feet

 Length 24 Width 12

Corey White  
Company Representative

9-28-18  
Date

Transport Company: UzieTransport Driver: JeffDate: 9-28-18Time of Delivery 9:30Company Phone: 675-5766Driver Phone: 435-790-1108Weather Conditions: Sunny

Ticket NO.

13716

\*NOTE: if the Landfarm is covered with snow or frozen, temporarily place in stockpile area with a layer of clean soil over the top of the pile. Immediately till once the Landfarm is cleared of snow or unfrozen.

## Waste Type



01 Tank Sludge

02 Pit Reclamation (Sludge)

03 Pit Reclamation (Soil)

04 Soil From Spill

05 Hydrovac Mud

06 Cellar Sludge

07 Other

## Waste State:



SLUDGE

SOIL

## Cell Deposit:



1

2

3

4

5

6

## Waste Origin:

Where did the waste come from? (i.e. PAD 88X)



CS-47

## Waste Volume

Please indicate in either Barrels (BBLs), Yards (Yds), Cubic Feet (Feet)<sup>3</sup>, or Tons (Tons) in the appropriate box below.

BBLs

or

YDs

or

Feet<sup>3</sup>

or

Tons

## Transport Type:



D Dump Truck

H Hydrovac Truck

V Vacuum Truck

O Other

I acknowledge that only the following wastes are acceptable to deliver to the Land Farm:

\*Tank Sludges that have been de-watered

\*Pit Reclamation Waste

\*Hydrovac Mud

\*Soil from Spill Remediation that has been profiled prior to being taken to the Land Farm

Transport Driver Signature

## Tillage Details (Maintenance Personnel Only)

## Tillage Start Time

9:30



Maintenance Signature

## Waste Area:

Please indicate the Length and Width of the Application in Feet



Length

24

Width

12

Company Representative

Date



Transport Company: URie  
Transport Driver: Jeff  
Date: 9-28-18  
Weather Conditions: Sunny





Time of Delivery 10:00

Company Phone: 675-5766  
Driver Phone: 435-790-1108



Ticket NO.  
**13717**

\*NOTE: If the Landfarm is covered with snow or frozen, temporarily place in stockpile area with a layer of clean soil over the top of the pile. Immediately till once the Landfarm is cleared of snow or unfrozen.



#### Waste Type

 01 Tank Sludge  
 02 Pit Reclamation (Sludge)  
 03 Pit Reclamation (Soil)  
 04 Soil From Spill  
05 Hydrovac Mud  
06 Cellar Sludge  
07 Other \_\_\_\_\_

#### Waste State:


 SLUDGE  
 SOIL

#### Cell Deposit:

 1 2 3  
 4 5 6




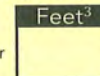

#### Waste Origin:

Where did the waste come from? (i.e. PAD 88X)



 CS-47

#### Waste Volume

Please indicate in either Barrels (BBLS), Yards (Yds), Cubic Feet (Feet)<sup>3</sup>, or Tons (Tons) in the appropriate box below.

  or  10 or  or 

#### Transport Type:

 D Dump Truck  
 V Vacuum Truck  
H Hydrovac Truck  
O Other \_\_\_\_\_


I acknowledge that only the following wastes are acceptable to deliver to the Land Farm:

- \*Tank Sludges that have been de-watered
- \*Pit Reclamation Waste
- \*Hydrovac Mud
- \*Soil from Spill Remediation that has been profiled prior to being taken to the Land Farm

Jeff  
Transport Driver Signature


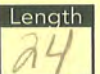
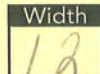
#### Tillage Details (Maintenance Personnel Only)

##### Tillage Start Time

 10:00  
Ord Nickerson  
Maintenance Signature

##### Waste Area:

Please indicate the Length and Width of the Application in Feet

  24  12

Janayah White  
Company Representative

9-28-18  
Date



Transport Company: URIE

Transport Driver: Jeff

Date: 9-28-18

Weather Conditions: Sunny

Time of Delivery: 10:40

Company Phone: 675-5766

Driver Phone: 435-710-1108

Ticket NO.  
**13718**

\*NOTE: if the Landfarm is covered with snow or frozen, temporarily place in stockpile area with a layer of clean soil over the top of the pile. Immediately till once the Landfarm is cleared of snow or unfrozen.

#### Waste Type



01 Tank Sludge

02 Pit Reclamation (Sludge)

03 Pit Reclamation (Soil)

04 Soil From Spill

05 Hydrovac Mud

06 Cellar Sludge

07 Other

#### Waste State:



SLUDGE

SOIL

#### Cell Deposit:



1

2

3

4

5

6

#### Waste Origin:

Where did the waste come from? (i.e. PAD 88X)



CS-47

#### Waste Volume

Please indicate in either Barrels (BBLs), Yards (Yds), Cubic Feet (Feet)<sup>3</sup>, or Tons (Tons) in the appropriate box below.



BBLs

or

YDs

or

Feet<sup>3</sup>

or

Tons

#### Transport Type:

D Dump Truck

H Hydrovac Truck



V Vacuum Truck

O Other

I acknowledge that only the following wastes are acceptable to deliver to the Land Farm:

\*Tank Sludges that have been de-watered

\*Pit Reclamation Waste

\*Hydrovac Mud

\*Soil from Spill Remediation that has been profiled prior to being taken to the Land Farm

Transport Driver Signature

#### Tillage Details (Maintenance Personnel Only)

##### Tillage Start Time



10:40

Maintenance Signature

##### Waste Area:

Please indicate the Length and Width of the Application in Feet



Length

24

Width

19

Company Representative

Date

Transport Company: URieTransport Driver: JeffDate: 9-28-18Weather Conditions: SunnyTime of Delivery 11:13Company Phone: 675-5766Driver Phone: 435-790-1108

Ticket NO.

**13719**

\*NOTE: if the Landfarm is covered with snow or frozen, temporarily place in stockpile area with a layer of clean soil over the top of the pile. Immediately till once the Landfarm is cleared of snow or unfrozen.

## Waste Type



01 Tank Sludge

02 Pit Reclamation (Sludge)

03 Pit Reclamation (Soil)

04 Soil From Spill

05 Hydrovac Mud

06 Cellar Sludge

07 Other

## Waste State:



SLUDGE

SOIL

## Cell Deposit:



1

2

3

4

5

6

## Waste Origin:

Where did the waste come from? (i.e. PAD 88X)



CS-47

## Waste Volume

Please indicate in either Barrels (BBLs), Yards (Yds), Cubic Feet (Feet)<sup>3</sup>, or Tonnage (Tons) in the appropriate box below.

BBLs

or

YDs

or

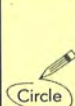
Feet<sup>3</sup>

or

Tons

10

## Transport Type:



D Dump Truck

H Hydrovac Truck

V Vacuum Truck

O Other

I acknowledge that only the following wastes are acceptable to deliver to the Land Farm:

\*Tank Sludges that have been de-watered

\*Pit Reclamation Waste

\*Hydrovac Mud

\*Soil from Spill Remediation that has been profiled prior to being taken to the Land Farm

Transport Driver Signature

## Tillage Details (Maintenance Personnel Only)

## Tillage Start Time



11:15

Cord Nickerson

Maintenance Signature

## Waste Area:

Please indicate the Length and Width of the Application in Feet



Length

24

Width

12

Company Representative

Date

9-28-18



Transport Company: UzieTransport Driver: JeffDate: 9-28-18Weather Conditions: SunnyTime of Delivery 11:55Company Phone: 675-5766Driver Phone: 435-790-1108

Ticket NO.

**13720**

\*NOTE: if the Landfarm is covered with snow or frozen, temporarily place in stockpile area with a layer of clean soil over the top of the pile. Immediately till once the Landfarm is cleared of snow or unfrozen.

## Waste Type



01 Tank Sludge

02 Pit Reclamation (Sludge)

03 Pit Reclamation (Soil)

04 Soil From Spill

05 Hydrovac Mud

06 Cellar Sludge

07 Other

## Waste State:



SLUDGE

SOIL

## Cell Deposit:



1

2

3

4

5

6

## Waste Origin:

Where did the waste come from? (i.e. PAD 88X)

CS-47

## Waste Volume

Please indicate in either Barrels (BBLs), Yards (Yds), Cubic Feet (Feet)<sup>3</sup>, or Tonnage (Tons) in the appropriate box below.

BBLs

or

YDs

or

Feet<sup>3</sup>

or

Tons

10

## Transport Type:

D Dump Truck

H Hydrovac Truck



V Vacuum Truck

O Other

I acknowledge that only the following wastes are acceptable to deliver to the Land Farm:

\*Tank Sludges that have been de-watered

\*Pit Reclamation Waste

\*Hydrovac Mud

\*Soil from Spill Remediation that has been profiled prior to being taken to the Land Farm

Transport Driver Signature  
Jeff

## Tillage Details (Maintenance Personnel Only)

## Tillage Start Time

11:55Lord Nick

Maintenance Signature

## Waste Area:

Please indicate the Length and Width of the Application in Feet



Length

24

Width

12Company Representative  
Sharmah WhitakerDate  
9-28-18



Transport Company: URCTransport Driver: JeffDate: 9-28-18Time of Delivery: 1:05Company Phone: 675-5766Driver Phone: 435-790-1108Weather Conditions: Sunny

Ticket NO.

13721

\*NOTE: if the Landfarm is covered with snow or frozen, temporarily place in stockpile area with a layer of clean soil over the top of the pile. Immediately till once the Landfarm is cleared of snow or unfrozen.

## Waste Type



01 Tank Sludge

02 Pit Reclamation (Sludge)

03 Pit Reclamation (Soil)

04 Soil From Spill

05 Hydrovac Mud

06 Cellar Sludge

07 Other

## Waste State:



SLUDGE

SOIL

## Cell Deposit:



1 2 3

4 5 6

## Waste Origin:

Where did the waste come from? (i.e. PAD 88X)

CS-47

## Waste Volume

Please indicate in either Barrels (BBLs), Yards (Yds), Cubic Feet (Feet<sup>3</sup>), or Tons (Tons) in the appropriate box below.

BBLs

or

YDs

or

Feet<sup>3</sup>

or

Tons

## Transport Type:



D Dump Truck

H Hydrovac Truck

V Vacuum Truck

O Other

I acknowledge that only the following wastes are acceptable to deliver to the Land Farm:

\*Tank Sludges that have been de-watered

\*Pit Reclamation Waste

\*Hydrovac Mud

\*Soil from Spill Remediation that has been profiled prior to being taken to the Land Farm

Jeff  
Transport Driver Signature

## Tillage Details (Maintenance Personnel Only)

## Tillage Start Time

1:03Lord Neich  
Maintenance Signature

## Waste Area:

Please indicate the Length and Width of the Application in Feet



Length

24

Width

12Jannah White  
Company Representative9-28-18

Date

Transport Company: URIE

Transport Driver: Jeff

Date: 9-28-18

Weather Conditions: Sunny

Time of Delivery: 1:40

Company Phone: 675-5766

Driver Phone: 435-790-1108

Ticket NO.  
**13722**

\*NOTE: if the Landfarm is covered with snow or frozen, temporarily place in stockpile area with a layer of clean soil over the top of the pile. Immediately till once the Landfarm is cleared of snow or unfrozen.

#### Waste Type



01 Tank Sludge

02 Pit Reclamation (Sludge)

03 Pit Reclamation (Soil)

04 Soil From Spill

05 Hydrovac Mud

06 Cellar Sludge

07 Other

#### Waste State:



SLUDGE

SOIL

#### Cell Deposit:



1 2 3

4 5 6

#### Waste Origin:

Where did the waste come from? (i.e. PAD 88X)



CS-47

#### Waste Volume

Please indicate in either Barrels (BBLs), Yards (Yds), Cubic Feet (Feet)<sup>3</sup>, or Tonnage (Tons) in the appropriate box below.



BBLs

or

YDs

or

Feet<sup>3</sup>

or

Tons

10

#### Transport Type:



D Dump Truck

H Hydrovac Truck

V Vacuum Truck

O Other

I acknowledge that only the following wastes are acceptable to deliver to the Land Farm:

\*Tank Sludges that have been de-watered

\*Pit Reclamation Waste

\*Hydrovac Mud

\*Soil from Spill Remediation that has been profiled prior to being taken to the Land Farm

Jeff  
Transport Driver Signature

#### Tillage Details (Maintenance Personnel Only)

##### Tillage Start Time



1:40

Card Nech  
Maintenance Signature

##### Waste Area:

Please indicate the Length and Width of the Application in Feet



Length

24

Width

12

Jawimah Whitaker  
Company Representative

9-28-18  
Date



Transport Company: UPICTransport Driver: JeffDate: 9-28-18Weather Conditions: SunnyTime of Delivery: 2:11Company Phone: 675-5766Driver Phone: 435-790-1108

Ticket NO.

13723

\*NOTE: if the Landfarm is covered with snow or frozen, temporarily place in stockpile area with a layer of clean soil over the top of the pile. Immediately till once the Landfarm is cleared of snow or unfrozen.

## Waste Type



01 Tank Sludge

02 Pit Reclamation (Sludge)

03 Pit Reclamation (Soil)

04 Soil From Spill

05 Hydrovac Mud

06 Cellar Sludge

07 Other

## Waste State:



SLUDGE

SOIL

## Cell Deposit:



1

2

3

4

5

6

## Waste Origin:

Where did the waste come from? (i.e. PAD 88X)



CS-47

## Waste Volume

Please indicate in either Barrels (BBLS), Yards (Yds), Cubic Feet (Feet)<sup>3</sup>, or Tonnage (Tons) in the appropriate box below.

BBLS

or

YDs

or

Feet<sup>3</sup>

or

Tons

10

## Transport Type:



D Dump Truck

H Hydrovac Truck

V Vacuum Truck

O Other

I acknowledge that only the following wastes are acceptable to deliver to the Land Farm:

\*Tank Sludges that have been de-watered

\*Pit Reclamation Waste

\*Hydrovac Mud

\*Soil from Spill Remediation that has been profiled prior to being taken to the Land Farm

Transport Driver Signature

## Tillage Details (Maintenance Personnel Only)

## Tillage Start Time



2:11

Maintenance Signature

## Waste Area:

Please indicate the Length and Width of the Application in Feet



Length

Width

74

12

Company Representative

Date



Transport Company: URICTransport Driver: JeffDate: 9-28-18Time of Delivery: 2:51Company Phone: 675-5744Driver Phone: 435-790-1108Weather Conditions: Sunny

Ticket NO.

**13724**

\*NOTE: if the Landfarm is covered with snow or frozen, temporarily place in stockpile area with a layer of clean soil over the top of the pile. Immediately till once the Landfarm is cleared of snow or unfrozen.

## Waste Type



01 Tank Sludge

02 Pit Reclamation (Sludge)

03 Pit Reclamation (Soil)

04 Soil From Spill

05 Hydrovac Mud

06 Cellar Sludge

07 Other

## Waste State:



SLUDGE

SOIL

## Cell Deposit:



1

2

3

4

5

6

## Waste Origin:

Where did the waste come from? (i.e. PAD 88X)



CS47

## Waste Volume

Please indicate in either Barrels (BBLs), Yards (Yds), Cubic Feet (Feet<sup>3</sup>), or Tons (Tons) in the appropriate box below.

BBLs

or

YDs

or

Feet<sup>3</sup>

or

Tons

## Transport Type:



D Dump Truck

V Vacuum Truck

H Hydrovac Truck

O Other

I acknowledge that only the following wastes are acceptable to deliver to the Land Farm:

\*Tank Sludges that have been de-watered

\*Pit Reclamation Waste

\*Hydrovac Mud

\*Soil from Spill Remediation that has been profiled prior to being taken to the Land Farm

Transport Driver Signature

## Tillage Details (Maintenance Personnel Only)

## Tillage Start Time



2:51

Wendy Nickerson

Maintenance Signature

## Waste Area:

Please indicate the Length and Width of the Application in Feet



Length

24

Width

12

Company Representative

Date

Transport Company: URIC

Transport Driver: Jeff

Date: 9-28-18

Weather Conditions: Sunny

Time of Delivery 3:25

Company Phone: 675-5766

Driver Phone: 435-790-1108

Ticket NO.  
**13725**

\*NOTE: if the Landfarm is covered with snow or frozen, temporarily place in stockpile area with a layer of clean soil over the top of the pile. Immediately till once the Landfarm is cleared of snow or unfrozen.

#### Waste Type

- ☒ 01 Tank Sludge  
☐ 02 Pit Reclamation (Sludge)  
☒ 03 Pit Reclamation (Soil)  
☐ 04 Soil From Spill  
☐ 05 Hydrovac Mud  
☐ 06 Cellar Sludge  
☐ 07 Other

#### Waste State:

- ☒ SLUDGE  
☒ SOIL

#### Cell Deposit:

- ☒ 1 ☐ 2 ☐ 3  
☐ 4 ☐ 5 ☐ 6

#### Waste Origin:

Where did the waste come from? (i.e. PAD 88X)

CS-10

#### Waste Volume

Please indicate in either Barrels (BBLs), Yards (Yds), Cubic Feet (Feet)<sup>3</sup>, or Tonnage (Tons) in the appropriate box below.

☒ ☐ ☐ ☐

BBLs	or	Yds	or	Feet <sup>3</sup>	or	Tons
		<u>10</u>				

#### Transport Type:

- ☒ D Dump Truck  
☐ H Hydrovac Truck  
☒ V Vacuum Truck  
☐ O Other

I acknowledge that only the following wastes are acceptable to deliver to the Land Farm:

- \*Tank Sludges that have been de-watered
- \*Pit Reclamation Waste
- \*Hydrovac Mud
- \*Soil from Spill Remediation that has been profiled prior to being taken to the Land Farm

Transport Driver Signature

#### Tillage Details (Maintenance Personnel Only)

##### Tillage Start Time

3:25

Maintenance Signature

##### Waste Area:

Please indicate the Length and Width of the Application in Feet

☒ Length 24 Width 19

Company Representative

9-28-18

Date



Transport Company: URIE TRUCKING

Transport Driver: HAZELBUSH

Date: 1 OCT 18

Time of Delivery 12:00

Company Phone: 970-695-5766

Driver Phone: 970-220-2553

Weather Conditions: OVERCAST

Ticket NO.

**13770**

\*NOTE: if the Landfarm is covered with snow or frozen, temporarily place in stockpile area with a layer of clean soil over the top of the pile. Immediately till once the Landfarm is cleared of snow or unfrozen.

#### Waste Type

01 Tank Sludge  
02 Pit Reclamation (Sludge)  
03 Pit Reclamation (Soil)  
04 Soil From Spill  
05 Hydrovac Mud  
06 Cellar Sludge  
07 Other

Circle

#### Waste State:

SLUDGE  
SOIL

Circle

Gravel

#### Cell Deposit:

1 2 3  
4 5 6

Circle

#### Waste Origin:

Where did the waste come from? (i.e. PAD 88X)

C.S. 476

#### Waste Volume

Please indicate in either Barrels (BBLs), Yards (Yds), Cubic Feet (Feet<sup>3</sup>), or Tons (Tons) in the appropriate box below.

Circle

BBLs

or

YDs

or

Feet<sup>3</sup>

or

Tons

#### Transport Type:

D Dump Truck

H Hydrovac Truck

V Vacuum Truck

O Other

Circle

I acknowledge that only the following wastes are acceptable to deliver to the Land Farm:

\*Tank Sludges that have been de-watered

\*Pit Reclamation Waste

\*Hydrovac Mud

\*Soil from Spill Remediation that has been profiled prior to being taken to the Land Farm

Charles Hazelbush

Transport Driver Signature

#### Tillage Details (Maintenance Personnel Only)

##### Tillage Start Time

Circle

12:00

Cord Neash

Maintenance Signature

##### Waste Area:

Please indicate the Length and Width of the Application in Feet

Circle

Length

Width

24

12

Samuel White

Company Representative

1-OCT 2018

Date



#2

Transport Company: URIE TRUCKINGTransport Driver: HAZELBUSHDate: 1-OCT-2018Time of Delivery: 12:30Company Phone: 970-675-5766Driver Phone: 970-220-2553Weather Conditions: OVERCAST

Ticket NO.

13771

\*NOTE: if the Landfarm is covered with snow or frozen, temporarily place in stockpile area with a layer of clean soil over the top of the pile. Immediately till once the Landfarm is cleared of snow or unfrozen.

## Waste Type

01 Tank Sludge  
02 Pit Reclamation (Sludge)  
03 Pit Reclamation (Soil)  
04 Soil From Spill05 Hydrovac Mud  
06 Cellar Sludge  
07 Other \_\_\_\_\_

## Waste State:



SLUDGE

SOIL

W ROCKS

## Cell Deposit:

1 2 3  
4 5 6

## Waste Origin:

Where did the waste come from? (i.e. PAD 88X)

~~C.S.~~ 47b

## Waste Volume

Please indicate in either Barrels (BBLs), Yards (Yds), Cubic Feet (Feet)<sup>3</sup>, or Tonage (Tons) in the appropriate box below.

BBLs

or

YDs

or

Feet<sup>3</sup>

or

Tons

## Transport Type:



D Dump Truck

V Vacuum Truck

H Hydrovac Truck

O Other \_\_\_\_\_

I acknowledge that only the following wastes are acceptable to deliver to the Land Farm:

\*Tank Sludges that have been de-watered

\*Pit Reclamation Waste

\*Hydrovac Mud

\*Soil from Spill Remediation that has been profiled prior to being taken to the Land Farm

Charles Hazelbush  
Transport Driver Signature

## Tillage Details (Maintenance Personnel Only)

## Tillage Start Time



12:30

Lord Nickson  
Maintenance Signature

## Waste Area:

Please indicate the Length and Width of the Application in Feet



Length

24

Width

12

Company Representative

Date

1-OCT-2018

#3

Transport Company: URIE TRUCKENTransport Driver: HAZELBUSHDate: 1-OCT-2018Time of Delivery: 1:35Company Phone: 910-675-5166Driver Phone: 910-220-2553Weather Conditions: RAIN

Ticket NO.

13772

\*NOTE: if the Landfarm is covered with snow or frozen, temporarily place in stockpile area with a layer of clean soil over the top of the pile. Immediately till once the Landfarm is cleared of snow or unfrozen.

## Waste Type



01 Tank Sludge

02 Pit Reclamation (Sludge)

03 Pit Reclamation (Soil)

04 Soil From Spill

05 Hydrovac Mud

06 Cellar Sludge

07 Other

## Waste State:



SLUDGE

SOIL

## Cell Deposit:



1 2 3

4 5 6

## Waste Origin:

Where did the waste come from? (i.e. PAD 88X)



C.S 426

## Waste Volume

Please indicate in either Barrels (BBLs), Yards (Yds), Cubic Feet (Feet)<sup>3</sup>, or Tonnage (Tons) in the appropriate box below.

BBLs

or

YDs

or

Feet<sup>3</sup>

or

Tons

## Transport Type:



D Dump Truck

V Vacuum Truck

H Hydrovac Truck

O Other

I acknowledge that only the following wastes are acceptable to deliver to the Land Farm:

\*Tank Sludges that have been de-watered

\*Pit Reclamation Waste

\*Hydrovac Mud

\*Soil from Spill Remediation that has been profiled prior to being taken to the Land Farm

Charles Hazelbush  
Transport Driver Signature

## Tillage Details (Maintenance Personnel Only)

## Tillage Start Time



1:35

Corey Nielsen  
Maintenance Signature

## Waste Area:

Please indicate the Length and Width of the Application in Feet



Length

Width

Company Representative

Date

1-OCT-2018



#4

Transport Company: UIE TRUCKINGTransport Driver: HAZELBUSHDate: 1-OCT-2018Time of Delivery: 1:30 PMCompany Phone: 675-5766Driver Phone: 220-2553Weather Conditions: PARTLY CLOUDY

Ticket NO.

13773

\*NOTE: if the Landfarm is covered with snow or frozen, temporarily place in stockpile area with a layer of clean soil over the top of the pile. Immediately till once the Landfarm is cleared of snow or unfrozen.

## Waste Type

01 Tank Sludge  
02 Pit Reclamation (Sludge)  
03 Pit Reclamation (Soil)  
04 Soil From Spill  
05 Hydrovac Mud  
06 Cellar Sludge  
07 Other

## Waste State:

SLUDGE  
SOIL

## Cell Deposit:

1 2 3  
4 5 6

## Waste Origin:

Where did the waste come from? (i.e. PAD 88X)

CS476

## Waste Volume

Please indicate in either Barrels (BBLs), Yards (Yds), Cubic Feet (Feet)<sup>3</sup>, or Tons (Tons) in the appropriate box below.

BBLs or YDs or Feet<sup>3</sup> or Tons

## Transport Type:

D Dump Truck

H Hydrovac Truck

V Vacuum Truck

O Other

I acknowledge that only the following wastes are acceptable to deliver to the Land Farm:

\*Tank Sludges that have been de-watered

\*Pit Reclamation Waste

\*Hydrovac Mud

\*Soil from Spill Remediation that has been profiled prior to being taken to the Land Farm

Charles Hazelbush  
Transport Driver Signature

## Tillage Details (Maintenance Personnel Only)

## Tillage Start Time

2:30

Cord Nickan  
Maintenance Signature

## Waste Area:

Please indicate the Length and Width of the Application in Feet

Length

Width

24

12

Company Representative

Date

1/OCT/2018

Transport Company: WeidenTransport Driver: Jonathan CoxDate: 9-28-16 10-1-19Weather Conditions: SunnyTime of Delivery 10:40Company Phone: 435-789-9015Driver Phone: 435-621-1087

Ticket NO.

13685

\*NOTE: If the Landfarm is covered with snow or frozen, temporarily place in stockpile area with a layer of clean soil over the top of the pile. Immediately till once the Landfarm is cleared of snow or unfrozen.

## Waste Type

- 01 Tank Sludge  
02 Pit Reclamation (Sludge)  
03 Pit Reclamation (Soil)  
04 Soil From Spill  
05 Hydrovac Mud  
06 Cellar Sludge  
07 Other



Circle

## Waste State:

- SLUDGE  
SOIL



Circle

## Cell Deposit:

- 1 2 3  
4 5 6



Circle

## Waste Origin:

Where did the waste come from? (i.e. PAD 88X)



Circle

## Waste Volume

Please indicate in either Barrels (BBLs), Yards (Yds), Cubic Feet (Feet)<sup>3</sup>, or Tonnage (Tons) in the appropriate box below.



Circle

BBLs

or

YDs

or

Feet<sup>3</sup>

or

Tons

## Transport Type:

- D Dump Truck  
V Vacuum Truck



Circle

H Hydrovac Truck

O Other

I acknowledge that only the following wastes are acceptable to deliver to the Land Farm:

\*Tank Sludges that have been de-watered

\*Pit Reclamation Waste

\*Hydrovac Mud

\*Soil from Spill Remediation that has been profiled prior to being taken to the Land Farm

Transport Driver Signature

## Tillage Details (Maintenance Personnel Only)

## Tillage Start Time



Circle

10:40

Maintenance Signature

## Waste Area:

Please indicate the Length and Width of the Application in Feet



Circle

Length

24

Width

12

Company Representative

Date



Transport Company: Weldco

Transport Driver: Clayton Cox

Date: 10-1-18

Time of Delivery: 9 5

Company Phone: 435-789-9015

Driver Phone: 435-621-1057

Weather Conditions: Sunny/Clouded

Ticket NO.

**13686**

\*NOTE: if the Landfarm is covered with snow or frozen, temporarily place in stockpile area with a layer of clean soil over the top of the pile. Immediately till once the Landfarm is cleared of snow or unfrozen.

### Waste Type



01 Tank Sludge  
02 Pit Reclamation (Sludge)  
03 Pit Reclamation (Soil)  
04 Soil From Spill

05 Hydrovac Mud  
06 Cellar Sludge  
07 Other  
07 B&P Pipe

### Waste State:



SLUDGE  
SOIL

### Cell Deposit:



1 2 3  
4 5 6

### Waste Origin:

Where did the waste come from? (i.e. PAD 88X)

CS 47

### Waste Volume

Please indicate in either Barrels (BBLs), Yards (Yds), Cubic Feet (Feet)<sup>3</sup>, or Tonnage (Tons) in the appropriate box below.



BBLs

or

YDs  
5

or

Feet<sup>3</sup>

or

Tons

### Transport Type:



D Dump Truck

V Vacuum Truck

H Hydrovac Truck

O Other

I acknowledge that only the following wastes are acceptable to deliver to the Land Farm:

\*Tank Sludges that have been de-watered

\*Pit Reclamation Waste

\*Hydrovac Mud

\*Soil from Spill Remediation that has been profiled prior to being taken to the Land Farm

[Signature]  
Transport Driver Signature

### Tillage Details (Maintenance Personnel Only)

#### Tillage Start Time



9:15

[Signature]  
Maintenance Signature

#### Waste Area:

Please indicate the Length and Width of the Application in Feet



Length  
24

Width  
12

[Signature]  
Company Representative

10-1-18  
Date

Transport Company: weiden

Transport Driver: clayton coo

Date: 10-1-87

Time of Delivery 11:15





Weather Conditions: sun

Company Phone: 435-789-9015



Driver Phone: 135-621-1087


Ticket NO.  
**13687**



\*NOTE: if the Landfarm is covered with snow or frozen, temporarily place in stockpile area with a layer of clean soil over the top of the pile. Immediately till once the Landfarm is cleared of snow or unfrozen.



Waste Type	
 01 Tank Sludge	05 Hydrovac Mud
 02 Pit Reclamation (Sludge)	06 Cellar Sludge
 03 Pit Reclamation (Soil)	07 Other
 04 Soil From Spill	

Waste State:
 SLUDGE
 SOIL

Cell Deposit:
 1 2 3
 4 5 6

Waste Origin:
Where did the waste come from? (i.e. PAD 88X)
 <u>CS 47</u>

Waste Volume			
Please indicate in either Barrels (BBLs), Yards (Yds), Cubic Feet (Feet) <sup>3</sup> , or Tons (Tons) in the appropriate box below.			
 BBLs	or	YDs	or
 <u>10</u>			
Feet <sup>3</sup>	or	Tons	



Transport Type:	
 D Dump Truck	H Hydrovac Truck
 V Vacuum Truck	O Other

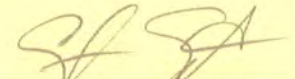
I acknowledge that only the following wastes are acceptable to deliver to the Land Farm:

- \*Tank Sludges that have been de-watered
- \*Pit Reclamation Waste
- \*Hydrovac Mud
- \*Soil from Spill Remediation that has been profiled prior to being taken to the Land Farm

  
Transport Driver Signature

Tillage Details (Maintenance Personnel Only)

<p>Tillage Start Time</p> <p> <u>11:15</u></p> <p><u>Ward Nickerson</u></p> <p>Maintenance Signature</p>	<p>Waste Area:</p> <p>Please indicate the Length and Width of the Application in Feet</p> <p> Length <u>24</u> Width <u>12</u></p>
---	---

  
Company Representative

Date 10-1-87



Transport Company: Weldo

Transport Driver: Kevin Cox

Date: 10-1-18

Time of Delivery: 11:50





Company Phone: 435-759-9014

Driver Phone: 435-621-1087



Weather Conditions: Sunny


Ticket NO.  
**13688**


\*NOTE: if the Landfarm is covered with snow or frozen, temporarily place in stockpile area with a layer of clean soil over the top of the pile. Immediately till once the Landfarm is cleared of snow or unfrozen.



Waste Type	
 01 Tank Sludge	05 Hydrovac Mud
 02 Pit Reclamation (Sludge)	06 Cellar Sludge
 03 Pit Reclamation (Soil)	07 Other
 04 Soil From Spill	

Waste State:
 SLUDGE
 SOIL

Cell Deposit:
 1 2 3
 4 5 6

Waste Origin:
Where did the waste come from? (i.e. PAD 88X)
 <u>CS 47</u>










Waste Volume			
Please indicate in either Barrels (BBLs), Yards (Yds), Cubic Feet (Feet) <sup>3</sup> , or Tons (Tons) in the appropriate box below.			
 BBLs	or	YDs	or
		<u>10</u>	or
Feet <sup>3</sup>	or	Tons	

Transport Type:	
 <u>D Dump Truck</u>	H Hydrovac Truck
 V Vacuum Truck	O Other

I acknowledge that only the following wastes are acceptable to deliver to the Land Farm:

- \*Tank Sludges that have been de-watered
- \*Pit Reclamation Waste
- \*Hydrovac Mud
- \*Soil from Spill Remediation that has been profiled prior to being taken to the Land Farm

[Signature]  
Transport Driver Signature

Tillage Details (Maintenance Personnel Only)							
<table border="1"> <thead> <tr> <th>Tillage Start Time</th> </tr> </thead> <tbody> <tr> <td> <u>11:50</u></td> </tr> </tbody> </table>	Tillage Start Time	 <u>11:50</u>	<table border="1"> <thead> <tr> <th>Waste Area:</th> </tr> </thead> <tbody> <tr> <td>Please indicate the Length and Width of the Application in Feet</td> </tr> <tr> <td> Length <u>24</u></td> </tr> <tr> <td> Width <u>12</u></td> </tr> </tbody> </table>	Waste Area:	Please indicate the Length and Width of the Application in Feet	 Length <u>24</u>	 Width <u>12</u>
Tillage Start Time							
 <u>11:50</u>							
Waste Area:							
Please indicate the Length and Width of the Application in Feet							
 Length <u>24</u>							
 Width <u>12</u>							
<u>[Signature]</u> Maintenance Signature							

[Signature]  
Company Representative

10-1-18  
Date

Transport Company: weidow

Transport Driver: clayton cox

Date: 10-1-18

Time of Delivery: 12:00

Company Phone: 435 789-9015

Driver Phone: 435 621-1057

Weather Conditions: Sunny

Ticket NO.

**13689**

\*NOTE: if the Landfarm is covered with snow or frozen, temporarily place in stockpile area with a layer of clean soil over the top of the pile. Immediately till once the Landfarm is cleared of snow or unfrozen.

#### Waste Type

- 01 Tank Sludge  
02 Pit Reclamation (Sludge)  
03 Pit Reclamation (Soil)  
04 Soil From Spill  
05 Hydrovac Mud  
06 Cellar Sludge  
07 Other

#### Waste State:

- SLUDGE  
SOIL

#### Cell Deposit:

- 1 2 3  
4 5 6

#### Waste Origin:

Where did the waste come from? (i.e. PAD 88X)

#### Waste Volume

Please indicate in either Barrels (BBLs), Yards (Yds), Cubic Feet (Feet)<sup>3</sup>, or Tons (Tons) in the appropriate box below.

☒ BBLs or ☐ YDs or ☐ Feet<sup>3</sup> or ☐ Tons

#### Transport Type:

- D Dump Truck  
V Vacuum Truck  
H Hydrovac Truck  
O Other

I acknowledge that only the following wastes are acceptable to deliver to the Land Farm:

- \*Tank Sludges that have been de-watered \*Pit Reclamation Waste \*Hydrovac Mud  
\*Soil from Spill Remediation that has been profiled prior to being taken to the Land Farm

Transport Driver Signature

#### Tillage Details (Maintenance Personnel Only)

##### Tillage Start Time

12:30

Maintenance Signature

##### Waste Area:

Please indicate the Length and Width of the Application in Feet

Length 24 Width 12

Company Representative

Date



Transport Company: Weldon

Transport Driver: Clinton Clark

Date: 11/15

Time of Delivery: 1:30

Company Phone: 457899015

Driver Phone: 457899015

Weather Conditions: Sunny

Ticket NO.

**13690**

\*NOTE: if the Landfarm is covered with snow or frozen, temporarily place in stockpile area with a layer of clean soil over the top of the pile. Immediately till once the Landfarm is cleared of snow or unfrozen.

### Waste Type



01 Tank Sludge  
02 Pit Reclamation (Sludge)  
03 Pit Reclamation (Soil)  
04 Soil From Spill

05 Hydrovac Mud  
06 Cellar Sludge  
07 Other

### Waste State:



SLUDGE  
SOIL

### Cell Deposit:



1 2 3  
4 5 6

### Waste Origin:

Where did the waste come from? (i.e. PAD 88X)

CS 47

### Waste Volume

Please indicate in either Barrels (BBLs), Yards (Yds), Cubic Feet (Feet)<sup>3</sup>, or Tons (Tons) in the appropriate box below.



BBLs

or

YDs

or

Feet<sup>3</sup>

or

Tons

### Transport Type:



D Dump Truck

V Vacuum Truck

H Hydrovac Truck

O Other

I acknowledge that only the following wastes are acceptable to deliver to the Land Farm:

\*Tank Sludges that have been de-watered

\*Pit Reclamation Waste

\*Hydrovac Mud

\*Soil from Spill Remediation that has been profiled prior to being taken to the Land Farm

Clinton Clark  
Transport Driver Signature

### Tillage Details (Maintenance Personnel Only)



Tillage Start Time

1:30

Cord Nickson  
Maintenance Signature

Waste Area:

Please indicate the Length and Width of the Application in Feet



Length

24

Width

12

[Signature]  
Company Representative

Date

10-1-18

Transport Company: WeldonTransport Driver: ClarenceDate: 10-1-18Time of Delivery: 2:20Company Phone: 435 289 9015Driver Phone: 435 621-1067Weather Conditions: Sunny

Ticket NO.

13691

## Waste Type



01 Tank Sludge  
02 Pit Reclamation (Sludge)  
03 Pit Reclamation (Soil)  
04 Soil From Spill

05 Hydrovac Mud  
06 Cellar Sludge  
07 Other \_\_\_\_\_

## Waste State:



SLUDGE  
SOIL

## Cell Deposit:



1 2 3  
4 5 6

## Waste Origin:

Where did the waste come from? (i.e. PAD 88X)



CS 47

## Waste Volume

Please indicate in either Barrels (BBLs), Yards (Yds), Cubic Feet (Feet)<sup>3</sup>, or Tonnage (Tons) in the appropriate box below.

BBLs

or

YDs  
10

or

Feet<sup>3</sup>

or

Tons

## Transport Type:



D Dump Truck

H Hydrovac Truck

V Vacuum Truck

O Other \_\_\_\_\_

I acknowledge that only the following wastes are acceptable to deliver to the Land Farm:

\*Tank Sludges that have been de-watered

\*Pit Reclamation Waste

\*Hydrovac Mud

\*Soil from Spill Remediation that has been profiled prior to being taken to the Land Farm

Transport Driver Signature

## Tillage Details (Maintenance Personnel Only)



## Tillage Start Time

2:20

Maintenance Signature

## Waste Area:

Please indicate the Length and Width of the Application in Feet



Length

24

Width

12

Company Representative

Date



Transport Company: Wetzel

Transport Driver: (102704) 10x

Date: 10-1-15

Time of Delivery 2:50


Company Phone: 435-789-9015


Driver Phone: 360-621-1087


Ticket NO.  
**13692**


Weather Conditions: clear


\*NOTE: if the Landfarm is covered with snow or frozen, temporarily place in stockpile area with a layer of clean soil over the top of the pile. Immediately till once the Landfarm is cleared of snow or unfrozen.


Waste Type	
 01 Tank Sludge	05 Hydrovac Mud
<input type="radio"/> 02 Pit Reclamation (Sludge)	06 Cellar Sludge
<input checked="" type="radio"/> 03 Pit Reclamation (Soil)	07 Other _____
04 Soil From Spill	

Waste State:
 SLUDGE
<input checked="" type="radio"/> SOIL

Cell Deposit:
 1 2 3
<input checked="" type="radio"/> 4 5 6

Waste Origin:
Where did the waste come from? (i.e. PAD 88X)
 <u>CS 47</u>





Waste Volume			
Please indicate in either Barrels (BBLs), Yards (Yds), Cubic Feet (Feet) <sup>3</sup> , or Tons (Tons) in the appropriate box below.			
 <input type="checkbox"/> BBLs	or	<input type="checkbox"/> YDs	or
<input checked="" type="checkbox"/> Feet <sup>3</sup>	or	<input type="checkbox"/> Tons	

Transport Type:	
<input checked="" type="radio"/> D-Dump Truck	H Hydrovac Truck
 <input type="radio"/> V Vacuum Truck	<input type="radio"/> O Other _____

I acknowledge that only the following wastes are acceptable to deliver to the Land Farm:

- \*Tank Sludges that have been de-watered
- \*Pit Reclamation Waste
- \*Hydrovac Mud
- \*Soil from Spill Remediation that has been profiled prior to being taken to the Land Farm

[Signature]  
Transport Driver Signature

Tillage Details (Maintenance Personnel Only)					
 Tillage Start Time <u>2:50</u>	Waste Area: Please indicate the Length and Width of the Application in Feet				
<u>[Signature]</u> Maintenance Signature	<table border="1"> <tr> <td> Length</td> <td>Width</td> </tr> <tr> <td><u>24</u></td> <td><u>12</u></td> </tr> </table>	 Length	Width	<u>24</u>	<u>12</u>
 Length	Width				
<u>24</u>	<u>12</u>				

[Signature]  
Company Representative

10-1-15  
Date

Transport Company: Blue TruckingTransport Driver: PAT HANNAHDate: OCT 1, 2017Weather Conditions: DRYTime of Delivery: 11:30 AMCompany Phone: 675 5766Driver Phone: 773 3528

Ticket NO.

13726

\*NOTE: if the Landfarm is covered with snow or frozen, temporarily place in stockpile area with a layer of clean soil over the top of the pile. Immediately till once the Landfarm is cleared of snow or unfrozen.

## Waste Type



01 Tank Sludge

02 Pit Reclamation (Sludge)

03 Pit Reclamation (Soil)

04 Soil From Spill

05 Hydrovac Mud

06 Cellar Sludge

07 Other

## Waste State:



SLUDGE

SOIL

## Cell Deposit:



1

2

3

4

5

6

## Waste Origin:

Where did the waste come from? (i.e. PAD 88X)



CS 47

## Waste Volume

Please indicate in either Barrels (BBLs), Yards (Yds), Cubic Feet (Feet)<sup>3</sup>, or Tons (Tons) in the appropriate box below.

BBLs

or

YDs

or

Feet<sup>3</sup>

or

Tons

## Transport Type:



D Dump Truck

V Vacuum Truck

H Hydrovac Truck

O Other

I acknowledge that only the following wastes are acceptable to deliver to the Land Farm:

\*Tank Sludges that have been de-watered

\*Pit Reclamation Waste

\*Hydrovac Mud

\*Soil from Spill Remediation that has been profiled prior to being taken to the Land Farm

Transport Driver Signature

## Tillage Details (Maintenance Personnel Only)

## Tillage Start Time



11:30

Maintenance Signature

## Waste Area:

Please indicate the Length and Width of the Application in Feet



Length

24

Width

12

Company Representative

Date



Transport Company: Surix TruckingTransport Driver: Pat. HampusDate: Oct 1, 2018Time of Delivery: 12:15 PMCompany Phone: 675 5766Driver Phone: 773 3528Weather Conditions: DRY

Ticket NO.

13727

\*NOTE: if the Landfarm is covered with snow or frozen, temporarily place in stockpile area with a layer of clean soil over the top of the pile. Immediately till once the Landfarm is cleared of snow or unfrozen.

## Waste Type



01 Tank Sludge

02 Pit Reclamation (Sludge)

03 Pit Reclamation (Soil)

04 Soil From Spill

05 Hydrovac Mud

06 Cellar Sludge

07 Other \_\_\_\_\_

## Waste State:



SLUDGE

SOIL

## Cell Deposit:



1

2

3

4

5

6

## Waste Origin:

Where did the waste come from? (i.e. PAD 88X)



CS47

## Waste Volume

Please indicate in either Barrels (BBLs), Yards (Yds), Cubic Feet (Feet)<sup>3</sup>, or Tons (Tons) in the appropriate box below.

BBLs

or

YDs

or

Feet<sup>3</sup>

or

Tons

## Transport Type:



D Dump Truck

V Vacuum Truck

H Hydrovac Truck

O Other \_\_\_\_\_

I acknowledge that only the following wastes are acceptable to deliver to the Land Farm:

\*Tank Sludges that have been de-watered

\*Pit Reclamation Waste

\*Hydrovac Mud

\*Soil from Spill Remediation that has been profiled prior to being taken to the Land Farm

Transport Driver Signature

## Tillage Details (Maintenance Personnel Only)

## Tillage Start Time



12:15

Maintenance Signature

## Waste Area:

Please indicate the Length and Width of the Application in Feet



Length

24

Width

12

Company Representative

Date

Transport Company: Lee TruckingTransport Driver: Pat HarrisDate: Oct 1 18Weather Conditions: dryTime of Delivery: 2:15 PMCompany Phone: 675-5733Driver Phone: 773 3528

Ticket NO.

13728

\*NOTE: if the Landfarm is covered with snow or frozen, temporarily place in stockpile area with a layer of clean soil over the top of the pile. Immediately till once the Landfarm is cleared of snow or unfrozen.

## Waste Type

- ☒ 01 Tank Sludge  
☐ 02 Pit Reclamation (Sludge)  
☒ 03 Pit Reclamation (Soil)  
☐ 04 Soil From Spill
- ☐ 05 Hydrovac Mud  
☐ 06 Cellar Sludge  
☐ 07 Other \_\_\_\_\_

## Waste State:

- ☒ SLUDGE  
☒ SOIL

## Cell Deposit:

- ☒ 1 2 3  
☐ 4 5 6

## Waste Origin:

Where did the waste come from? (i.e. PAD 88X)

☒ CS 47

## Waste Volume

Please indicate in either Barrels (BBLs), Yards (Yds), Cubic Feet (Feet)<sup>3</sup>, or Tonnage (Tons) in the appropriate box below.

<input checked="" type="radio"/> BBLs	or	<input type="radio"/> YDs	or	<input type="radio"/> Feet <sup>3</sup>	or	<input type="radio"/> Tons
		10				

## Transport Type:

- ☒ D Dump Truck  
☒ V Vacuum Truck

H Hydrovac Truck

O Other \_\_\_\_\_

I acknowledge that only the following wastes are acceptable to deliver to the Land Farm:

\*Tank Sludges that have been de-watered

\*Pit Reclamation Waste

\*Hydrovac Mud

\*Soil from Spill Remediation that has been profiled prior to being taken to the Land Farm

Transport Driver Signature  
[Signature]

## Tillage Details (Maintenance Personnel Only)

## Tillage Start Time

☒ 12:15Maintenance Signature  
[Signature]

## Waste Area:

Please indicate the Length and Width of the Application in Feet

<input checked="" type="radio"/> Length	<input type="radio"/> Width
24	12

Company Representative  
[Signature]Date  
Oct 1 2018



Transport Company: Joe TruckingTransport Driver: Pat HarrisDate: Oct 1, 2018Time of Delivery: 3:00 PMCompany Phone: 675 5766Driver Phone: 773 3528Weather Conditions: dry

Ticket NO.

13729

\*NOTE: if the Landfarm is covered with snow or frozen, temporarily place in stockpile area with a layer of clean soil over the top of the pile. Immediately till once the Landfarm is cleared of snow or unfrozen.

## Waste Type

☒ 01 Tank Sludge  
☒ 02 Pit Reclamation (Sludge)  
☒ 03 Pit Reclamation (Soil)  
☐ 04 Soil From Spill  
☐ 05 Hydrovac Mud  
☐ 06 Cellar Sludge  
☐ 07 Other \_\_\_\_\_

## Waste State:

☒ SLUDGE  
☒ SOIL

## Cell Deposit:

☒ 1 2 3  
☒ 4 5 6

## Waste Origin:

Where did the waste come from? (i.e. PAD 88X)

☒ CS47

## Waste Volume

Please indicate in either Barrels (BBLs), Yards (Yds), Cubic Feet (Feet)<sup>3</sup>, or Tonnage (Tons) in the appropriate box below.

BBLs

or

YDs

or

Feet<sup>3</sup>

or

Tons

## Transport Type:



D Dump Truck

H Hydrovac Truck

V Vacuum Truck

O Other \_\_\_\_\_

I acknowledge that only the following wastes are acceptable to deliver to the Land Farm:

\*Tank Sludges that have been de-watered

\*Pit Reclamation Waste

\*Hydrovac Mud

\*Soil from Spill Remediation that has been profiled prior to being taken to the Land Farm

Transport Driver Signature

## Tillage Details (Maintenance Personnel Only)

## Tillage Start Time



3:00

Maintenance Signature

## Waste Area:

Please indicate the Length and Width of the Application in Feet



Length

24

Width

12

Company Representative

Date

**Appendix D**  
**Liquid Disposal Records**



970-675-8610

W 123555

API # \_\_\_\_\_ TANK # \_\_\_\_\_

☐ PRODUCTION

SALESMAN				DATE	BS&W BBLs.	WATER BBLs.	START TIME	STOP TIME	HOURS
DRIVER		Hapt Bland		10-1-18	375		Start 8:30 am/pm	Stop 1:10 am/pm	1
TRUCK #		S-35					Start am/pm	Stop am/pm	
TRAILER #							Start am/pm	Stop am/pm	
BIN OR FRAC TANK #							Start am/pm	Stop am/pm	
AREA							Start am/pm	Stop am/pm	
PRODUCT				TOTAL BBLs.			TOTAL HOURS		
DISPOSAL TICKET #				TOTAL LOADS HAULED			RATE		
HAULED FROM		STATION 42						TRUCK TOTAL	
HAULED TO		Tingels rd 413		WATER LOADING FEE: BBLs _____ @ \$ _____ =					
TRIP TICKET #				EXTRA HAND: HRS _____ X RATE _____ =					
SEAL OFF		TOP:		FUEL SURCHARGE FORMULA: HRS _____ X RATE _____ =					
SEAL ON		BOT:		PER DIEM <input type="checkbox"/>				SUBTOTAL	
				BILLING CODE				PER DIEM RATE	
				VACATION HOURS				TOTAL	
				<input type="checkbox"/> TRAINER		TRAINEE NAME			

WORK DESCRIPTION Pump water & oil from Nales

ADRIANE G. Ford ETL

C 5-47-B

UWDCP-1218045-1 SFH

DRIVER SIGNATURE L. Louis

CUSTOMER SIGNATURE \_\_\_\_\_

970-675-8610

CUSTOMER SIGNATURE \_\_\_\_\_



**Appendix E**  
**Borrow Source Analytical Report**



Brent Lucyk  
Stantec Consulting, Inc.  
22321 Club Meridian Drive Suite E  
Okemos, MI 48864  
TEL: (517) 749-9405

RE: Rangely CS-47 Borrow Pits

Dear Brent Lucyk:

Lab Set ID: 1808332

3440 South 700 West  
Salt Lake City, UT 84119

Phone: (801) 263-8686  
Toll Free: (888) 263-8686  
Fax: (801) 263-8687  
e-mail: [awal@awal-labs.com](mailto:awal@awal-labs.com)  
web: [www.awal-labs.com](http://www.awal-labs.com)

American West Analytical Laboratories received sample(s) on 8/14/2018 for the analyses presented in the following report.

American West Analytical Laboratories (AWAL) is accredited by The National Environmental Laboratory Accreditation Program (NELAP) in Utah and Texas; and is state accredited in Colorado, Idaho, New Mexico, Wyoming, and Missouri.

All analyses were performed in accordance to the NELAP protocols unless noted otherwise. Accreditation scope documents are available upon request. If you have any questions or concerns regarding this report please feel free to call.

The abbreviation "Surr" found in organic reports indicates a surrogate compound that is intentionally added by the laboratory to determine sample injection, extraction, and/or purging efficiency. The "Reporting Limit" found on the report is equivalent to the practical quantitation limit (PQL). This is the minimum concentration that can be reported by the method referenced and the sample matrix. The reporting limit must not be confused with any regulatory limit. Analytical results are reported to three significant figures for quality control and calculation purposes.

This is a revision to a report originally issued 8/30/2018. Information herein supersedes that of the previously issued reports. All pages have been updated for pagination. The list of samples has been updated.

Thank You,

Approved by:

**Jose G. Rocha**  
Digitally signed by Jose G. Rocha  
DN: cn=Jose G. Rocha,  
o=American West Analytical  
Laboratories, ou,  
email=jose@awal-labs.com,  
c=US  
Date: 2018.11.08 16:46:54  
-07'00'

Laboratory Director or designee

Sample(s) were subcontracted for the following analyses:

Hexavalent Chromium





## INORGANIC ANALYTICAL REPORT

**Client:** Stantec Consulting, Inc.  
**Project:** Rangely CS-47 Borrow Pits  
**Lab Sample ID:** 1808332-001  
**Client Sample ID:** CS39-STPL  
**Collection Date:** 8/14/2018 834h  
**Received Date:** 8/14/2018 1430h

**Contact:** Brent Lucyk

### Analytical Results

### TOTAL METALS

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Arsenic	mg/kg-dry	8/20/2018 1533h	8/24/2018 1801h	SW6020B	0.511	<b>6.81</b>	
Barium	mg/kg-dry	8/20/2018 1533h	8/24/2018 1801h	SW6020B	5.11	<b>170</b>	
Boron	mg/kg-dry	8/20/2018 1533h	8/22/2018 1317h	SW6010D	20.4	< 20.4	
Cadmium	mg/kg-dry	8/20/2018 1533h	8/24/2018 1801h	SW6020B	0.511	< 0.511	
Copper	mg/kg-dry	8/20/2018 1533h	8/24/2018 2037h	SW6020B	15.3	< 15.3	
Lead	mg/kg-dry	8/20/2018 1533h	8/24/2018 1801h	SW6020B	1.02	<b>14.6</b>	
Mercury	mg/kg-dry	8/16/2018 1728h	8/17/2018 1102h	SW7471B	0.0407	< 0.0407	
Nickel	mg/kg-dry	8/20/2018 1533h	8/28/2018 1336h	SW6020B	16.4	<b>17.3</b>	
Selenium	mg/kg-dry	8/20/2018 1533h	8/24/2018 1209h	SW6020B	2.04	< 2.04	
Silver	mg/kg-dry	8/20/2018 1533h	8/24/2018 1801h	SW6020B	0.307	< 0.307	
Zinc	mg/kg-dry	8/20/2018 1533h	8/24/2018 1801h	SW6020B	15.3	<b>65.8</b>	

3440 South 700 West  
Salt Lake City, UT 84119

Phone: (801) 263-8686

Toll Free: (888) 263-8686

Fax: (801) 263-8687

e-mail: awal@awal-labs.com

web: www.awal-labs.com

Kyle F. Gross  
Laboratory Director

Jose Rocha  
QA Officer



## INORGANIC ANALYTICAL REPORT

**Client:** Stantec Consulting, Inc.  
**Project:** Rangely CS-47 Borrow Pits  
**Lab Sample ID:** 1808332-001  
**Client Sample ID:** CS39-STPL  
**Collection Date:** 8/14/2018 834h  
**Received Date:** 8/14/2018 1430h

**Contact:** Brent Lucyk

### Analytical Results

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Chromium, Trivalent	mg/kg-dry		8/24/2018 1751h	Calc.	10	<b>16</b>	*
Conductivity	µmhos/cm		8/15/2018 600h	SW9050A	10.0	<b>14,200</b>	&
Nitrate (as N)	mg/kg-dry		8/15/2018 1949h	E353.2	0.105	<b>3.16</b>	&
Percent Moisture	wt%		8/14/2018 1900h	SM2540B	0.0100	<b>5.54</b>	
pH @ 25° C	pH Units		8/14/2018 2014h	SW9045D	1.00	<b>8.49</b>	
Sodium Adsorption Ratio			8/23/2018 1346h	Calc.	0.0100	<b>26.6</b>	

& - Analysis is performed on a 1:1 DI water extract for soils.

\* - Calculated value.

3440 South 700 West  
Salt Lake City, UT 84119

Phone: (801) 263-8686  
Toll Free: (888) 263-8686  
Fax: (801) 263-8687  
e-mail: awal@awal-labs.com  
web: www.awal-labs.com

Kyle F. Gross  
Laboratory Director

Jose Rocha  
QA Officer



## ORGANIC ANALYTICAL REPORT

**Client:** Stantec Consulting, Inc.  
**Project:** Rangely CS-47 Borrow Pits  
**Lab Sample ID:** 1808332-001B  
**Client Sample ID:** CS39-STPL  
**Collection Date:** 8/14/2018 834h  
**Received Date:** 8/14/2018 1430h

**Contact:** Brent Lucyk

Test Code: 8015-S-TPH-3546

### Analytical Results

TPH-DRO (C10-C28) by Method 8015D/3546

**Analyzed:** 8/16/2018 1622h **Extracted:** 8/15/2018 1834h

**Units:** mg/kg-dry

**Dilution Factor:** 1

**Method:** SW8015D

Compound			CAS Number		Reporting Limit	Analytical Result	Qual
Diesel Range Organics (DRO) (C10-C28)			68476-34-6		21.0	< 21.0	
Surrogate	Units: mg/kg-dry	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 4-Bromofluorobenzene		460-00-4	17.8	35.06	50.8	10-122	

3440 South 700 West  
Salt Lake City, UT 84119

Phone: (801) 263-8686  
Toll Free: (888) 263-8686  
Fax: (801) 263-8687  
e-mail: awal@awal-labs.com

web: www.awal-labs.com

Kyle F. Gross  
Laboratory Director

Jose Rocha  
QA Officer





# ORGANIC ANALYTICAL REPORT

**Client:** Stantec Consulting, Inc.  
**Project:** Rangely CS-47 Borrow Pits  
**Lab Sample ID:** 1808332-001C  
**Client Sample ID:** CS39-STPL  
**Collection Date:** 8/14/2018 834h  
**Received Date:** 8/14/2018 1430h

**Contact:** Brent Lucyk

Test Code: 8270-S-SIM-ONLY-3546

## Analytical Results

SVOA PNA SIM List by GC/MS Method 8270D/3546

**Analyzed:** 8/20/2018 721h **Extracted:** 8/15/2018 1835h  
**Units:** µg/kg-dry **Dilution Factor:** 1 **Method:** SW8270D

Compound	CAS Number	Reporting Limit	Analytical Result	Qual			
1-Methylnaphthalene	90-12-0	7.06	< 7.06				
2-Methylnaphthalene	91-57-6	7.06	< 7.06				
Acenaphthene	83-32-9	7.06	< 7.06				
Acenaphthylene	208-96-8	7.06	< 7.06				
Anthracene	120-12-7	7.06	< 7.06				
Benz(a)anthracene	56-55-3	14.1	< 14.1				
Benzo(a)pyrene	50-32-8	7.06	10.4				
Benzo(b)fluoranthene	205-99-2	7.06	11.5				
Benzo(g,h,i)perylene	191-24-2	7.06	8.92				
Benzo(k)fluoranthene	207-08-9	7.06	< 7.06				
Chrysene	218-01-9	7.06	9.62				
Dibenz(a,h)anthracene	53-70-3	7.06	< 7.06				
Fluoranthene	206-44-0	7.06	24.6				
Fluorene	86-73-7	7.06	< 7.06				
Indene	95-13-6	7.06	< 7.06				
Indeno(1,2,3-cd)pyrene	193-39-5	7.06	7.79				
Naphthalene	91-20-3	7.06	< 7.06				
Phenanthrene	85-01-8	14.1	17.1				
Pyrene	129-00-0	7.06	21.6				
Surrogate	Units: µg/kg-dry	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 2-Fluorophenol		367-12-4	19.0	35.15	54.1	10-186	

*Gel-Permeation Chromatography (GPC) Cleanup, method 3640A, utilized for this sample.*

3440 South 700 West  
Salt Lake City, UT 84119

Phone: (801) 263-8686  
Toll Free: (888) 263-8686  
Fax: (801) 263-8687  
e-mail: awal@awal-labs.com  
web: www.awal-labs.com

Kyle F. Gross  
Laboratory Director

Jose Rocha  
QA Officer



# ORGANIC ANALYTICAL REPORT

**Client:** Stantec Consulting, Inc.  
**Project:** Rangely CS-47 Borrow Pits  
**Lab Sample ID:** 1808332-001A  
**Client Sample ID:** CS39-STPL  
**Collection Date:** 8/14/2018 834h  
**Received Date:** 8/14/2018 1430h

**Contact:** Brent Lucyk

Test Code: 8260-S-PPM

## Analytical Results

VOAs MBTEXN/GRO by GC/MS Method 8260C

**Analyzed:** 8/23/2018 1416h

**Units:** mg/kg-dry

**Dilution Factor:** 0.97

**Method:** SW8260C

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Benzene	71-43-2	0.00103	< 0.00103	
Ethylbenzene	100-41-4	0.00205	< 0.00205	
Toluene	108-88-3	0.00205	< 0.00205	
TPH C6-C10 (GRO)		0.0205	< 0.0205	
Xylenes, Total	1330-20-7	0.00205	< 0.00205	

Surrogate	Units: mg/kg-dry	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4		17060-07-0	0.0523	0.05135	102	51-170	
Surr: 4-Bromofluorobenzene		460-00-4	0.0509	0.05135	99.2	50-140	
Surr: Dibromofluoromethane		1868-53-7	0.0510	0.05135	99.4	50-140	
Surr: Toluene-d8		2037-26-5	0.0533	0.05135	104	50-140	

*Sampling and analytical preparation performed by method 5030A modified for analysis of soil samples collected in 2 or 4 oz jars.*

3440 South 700 West  
Salt Lake City, UT 84119

Phone: (801) 263-8686  
Toll Free: (888) 263-8686  
Fax: (801) 263-8687  
e-mail: awal@awal-labs.com

web: www.awal-labs.com

Kyle F. Gross  
Laboratory Director

Jose Rocha  
QA Officer

# American West Analytical Laboratories

REVISED: 11/8/2018

Rev or Add Emailed:  
OL:

UL

Sample List Updated per SW. -MC

## WORK ORDER Summary

Work Order: **1808332**

Page 1 of 1

**Client:** Stantec Consulting, Inc.

Due Date: 8/23/2018

**Client ID:** STA200

**Contact:** Brent Lucyk

**Project:** Rangely CS-47 Borrow Pits

**WO Type:** Standard

**Comments:** PA Rush. Samples for VOCs were collected using method 5035. Chrome 6 sent to ESC. Also calculate / report Cr 3 once we've received results for Cr 6.;

Sample ID	Client Sample ID	Collected Date	Received Date	Test Code	Matrix	Sel	Storage
1808332-001A	CS39-STPL	8/14/2018 0834h	8/14/2018 1430h	8260-S-PPM	Soil	<input checked="" type="checkbox"/>	Purge
				Test Group: 8260-S-MBTXN/GRO; # of Analytes: 5 / # of Surr: 4			
1808332-001B				3546-TPH-PR		<input type="checkbox"/>	Walkin-TPH
				8015-S-TPH-3546		<input checked="" type="checkbox"/>	Walkin-TPH
				Test Group: 8015-S-TPH-3546; # of Analytes: 1 / # of Surr: 1			
1808332-001C				3546-SVOA-SIM-PR		<input type="checkbox"/>	Walkin-Semi
				8270-S-SIM-ONLY-3546		<input checked="" type="checkbox"/>	Walkin-Semi
				Test Group: 8270-S-PNA-SIM-ONLY-3546; # of Analytes: 19 / # of Surr: 1			
1808332-001D				3051A-ICPMS-PR		<input type="checkbox"/>	DF-Metals
				6010D-S		<input checked="" type="checkbox"/>	DF-Metals
				1 SEL Analytes: B			
				6020B-S		<input checked="" type="checkbox"/>	DF-Metals
				10 SEL Analytes: AS BA CD CR CU PB NI SE AG ZN			
				CR3-W		<input type="checkbox"/>	DF-Metals
				HG-S-7471B		<input type="checkbox"/>	DF-Metals
				HG-S-PR-B		<input type="checkbox"/>	DF-Metals
				COND-S-9050A		<input type="checkbox"/>	DF-SAR/pmoist
				NO3-S-353.2		<input type="checkbox"/>	DF-SAR/pmoist
				PH-9045D		<input type="checkbox"/>	DF-SAR/pmoist
				PMOIST-REPORT		<input type="checkbox"/>	DF-SAR/pmoist
				SAR-S		<input type="checkbox"/>	DF-SAR/pmoist
				SOIL-PR		<input type="checkbox"/>	DF-SAR/pmoist
				OUTSIDE LAB		<input type="checkbox"/>	esc
1808332-001F						<input type="checkbox"/>	hold
1808332-001G						<input type="checkbox"/>	





**American West**  
**Analytical Laboratories**  
3440 S. 700 W. Salt Lake City, UT 84119  
Phone # (801) 263-8686 Toll Free # (888) 263-8686  
Fax # (801) 263-8687 Email: [awal@awal-labs.com](mailto:awal@awal-labs.com)  
[www.awal-labs.com](http://www.awal-labs.com)

# CHAIN OF CUSTODY

All analysis will be conducted using NELAP accredited methods and all data will be reported using AVAL's standard analysis lists and reporting limits (POL) unless specifically requested otherwise on this Chain of Custody and/or attached documentation.

Client: **Stantec Consulting**  
Address: **2321 Club Meridian Drive Suite E**  
**Okemos, MI 48864**  
Contact: **Brent Lucyk**  
Phone #: **517-749-9405** Cell #: **517-749-9405**  
Email: **brent.lucyk@stantec.com**  
Project Name: **Rangely CS-47 Borrow Pits**  
Project #: **182603884.700.0292a**  
PO #:   
Sampler Name: **Savannah Whitaker**

Sample ID:	Date Sampled	Time Sampled	Received by:	Print Name:
1 CS39-STPL	8/14/2018	08:34	<i>[Signature]</i>	Danise Brown
2 WP-STPL	8/14/2018	09:37a	<i>[Signature]</i>	Danise Brown
3 Date Pit	8/14/2018	07:45	<i>[Signature]</i>	Danise Brown
4				
5				
6				
7				
8				
9				
10				
11				
12				

QC Level: 1 2 3 4 5 6 7 8 9 10 11 12

Turn Around Time: 1 2 3 4 5 6 7 8 9 10 11 12

Unless other arrangements have been made, signed reports will be emailed by 5:00 PM on the day they are due.

Report down to the MDL  
☐ Include EDD:  
☐ Lab Filler for:  
☐ Field Filler for:

For Compliance With:  
☐ NELAP  
☐ RCRA  
☐ CWA  
☐ SDWA  
☐ ELAP / A2LA  
☐ NLLAP  
☐ Non-Compliance  
☒ Other: COGCC Table 910

Known Hazards & Sample Comments

MDIs to COGCC Table 910 levels

29B - EC - Local Method  
7471B - Total Metals - COGCC Table 910  
6020A - Total Metals - COGCC Table 910  
6010C - Total Metals - COGCC Table 910  
9056 - 48 hr Nitrate as N  
7196A - Hexavalent Chromium  
7196A - CR3 - Local Method  
20B - SAR  
9040C - pH  
Moisture  
8270 SIM PAHS COGCC Table 910  
C28)  
8015D - DRO (without silica gel cleanup) (C10 -  
8260C - GRO (C6 - C10)  
8260C - BTEX  
Sample Matrix  
# of Containers

29B - EC - Local Method  
7471B - Total Metals - COGCC Table 910  
6020A - Total Metals - COGCC Table 910  
6010C - Total Metals - COGCC Table 910  
9056 - 48 hr Nitrate as N  
7196A - Hexavalent Chromium  
7196A - CR3 - Local Method  
20B - SAR  
9040C - pH  
Moisture  
8270 SIM PAHS COGCC Table 910  
C28)  
8015D - DRO (without silica gel cleanup) (C10 -  
8260C - GRO (C6 - C10)  
8260C - BTEX  
Sample Matrix  
# of Containers

Special Instructions:

# Samples cancelled per email from Savannah Whitaker - 8/18/18

1908332  
AWAL Lab Sample Set #  
Page 1 of 1

Due Date: 8/28/18

Laboratory Use Only

Samples Were:  
1. Shipped or hand delivered  
2. Ambient or chilled  
3. Temperature  
4. Received Broken/Leaking (Improper Sealing)  
5. Properly Preserved  
6. Received Within Holding Time  
7. Received Within Holding Time  
8. Received Within Holding Time  
9. Received Within Holding Time  
10. Received Within Holding Time  
11. Received Within Holding Time  
12. Received Within Holding Time

COC Taps Was:  
1. Present on Outer Package  
2. Undone on Outer Package  
3. Present on Sample  
4. Undone on Sample  
5. Present on Sample  
6. Undone on Sample  
7. Present on Sample  
8. Undone on Sample  
9. Present on Sample  
10. Undone on Sample  
11. Present on Sample  
12. Undone on Sample

Discrepancies Between Sample Labels and COC Record?

- (4) Closure of pits and steel, fiberglass, concrete or other similar produced water vessels, and associated remediation operations conducted prior to December 30, 1997 are not subject to Rules 905., 906., 907., 909. and 910.

## 912. VENTING OR FLARING NATURAL GAS

- a. The unnecessary or excessive venting or flaring of natural gas produced from a well is prohibited.
- b. Except for gas flared or vented during an upset condition, well maintenance, well stimulation flowback, purging operations, or a productivity test, gas from a well shall be flared or vented only after notice has been given and approval obtained from the Director on a Sundry Notice, Form 4, stating the estimated volume and content of the gas. The notice shall indicate whether the gas contains more than one (1) ppm of hydrogen sulfide. If necessary to protect the public health, safety or welfare, the Director may require the flaring of gas.
- c. Gas flared, vented or used on the lease shall be estimated based on a gas-oil ratio test or other equivalent test approved by the Director, and reported on Operator's Monthly Report of Operations, Form 7.
- d. Flared gas that is subject to Sundry Notice, Form 4, shall be directed to a controlled flare in accordance with Rule 903.b.(2) or other combustion device operated as efficiently as possible to provide maximum reduction of air contaminants where practicable and without endangering the safety of the well site personnel and the public.
- e. Operators shall notify the local emergency dispatch or the local governmental designee of any natural gas flaring. Notice shall be given prior to flaring when flaring can be reasonably anticipated, or as soon as possible, but in no event more than two (2) hours after the flaring occurs.

**Table 910-1  
CONCENTRATION LEVELS<sup>1</sup>**

Contaminant of Concern	Concentrations
<b>Organic Compounds in Soil</b>	
TPH (total volatile and extractable petroleum hydrocarbons)	500 mg/kg
Benzene	0.17 mg/kg <sup>2</sup>
Toluene	85 mg/kg <sup>2</sup>
Ethylbenzene	100 mg/kg <sup>2</sup>
Xylenes (total)	175 mg/kg <sup>2</sup>
Acenaphthene	1,000 mg/kg <sup>2</sup>
Anthracene	1,000 mg/kg <sup>2</sup>
Benz(a)anthracene	0.22 mg/kg <sup>2</sup>
Benzo(b)fluoranthene	0.22 mg/kg <sup>2</sup>
Benzo(k)fluoranthene	2.2 mg/kg <sup>2</sup>
Benzo(a)pyrene	0.022 mg/kg <sup>2</sup>
Chrysene	22 mg/kg <sup>2</sup>
Dibenzo(a,h)anthracene	0.022 mg/kg <sup>2</sup>
Fluoranthene	1,000 mg/kg <sup>2</sup>
Fluorene	1,000 mg/kg <sup>2</sup>
Indeno(1,2,3,c,d)pyrene	0.22 mg/kg <sup>2</sup>
Naphthalene	23 mg/kg <sup>2</sup>
Pyrene	1,000 mg/kg <sup>2</sup>

Organic Compounds in Ground Water	
Benzene	5 µg/l <sup>3</sup>
Toluene	560 to 1,000 µg/l <sup>3</sup>
Ethylbenzene	700 µg/l <sup>3</sup>
Xylenes (Total)	1,400 to 10,000 µg/l <sup>3,4</sup>
Inorganics in Soils	
Electrical Conductivity (EC)	<4 mmhos/cm or 2x background
Sodium Adsorption Ratio (SAR)	<12 <sup>5</sup>
pH	6-9
Inorganics in Ground Water	
Total Dissolved Solids (TDS)	<1.25 x background <sup>3</sup>
Chlorides	<1.25 x background <sup>3</sup>
Sulfates	<1.25 x background <sup>3</sup>
Metals in Soils	
Arsenic	0.39 mg/kg <sup>2</sup>
Barium (LDNR True Total Barium)	15,000 mg/kg <sup>2</sup>
Boron (Hot Water Soluble)	2 mg/l <sup>3</sup>
Cadmium	70 mg/kg <sup>3,6</sup>
Chromium (III)	120,000 mg/kg <sup>2</sup>
Chromium (VI)	23 mg/kg <sup>2,6</sup>
Copper	3,100 mg/kg <sup>2</sup>
Lead (inorganic)	400 mg/kg <sup>2</sup>
Mercury	23 mg/kg <sup>2</sup>
Nickel (soluble salts)	1,600 mg/kg <sup>2,6</sup>
Selenium	390 mg/kg <sup>2,6</sup>
Silver	390 mg/kg <sup>2</sup>
Zinc	23,000 mg/kg <sup>2,6</sup>
Liquid Hydrocarbons in Soils and Ground Water	
Liquid hydrocarbons including condensate and oil	Below detection level

COGCC recommends that the latest version of EPA SW 846 analytical methods be used where possible and that analyses of samples be performed by laboratories that maintain state or national accreditation programs.

<sup>1</sup> Consideration shall be given to background levels in native soils and ground water.

<sup>2</sup> Concentrations taken from CDPHE-HMWMD Table 1 Colorado Soil Evaluation Values (December 2007).

<sup>3</sup> Concentrations taken from CDPHE-WQCC Regulation 41 - The Basic Standards for Ground Water.

<sup>4</sup> For this range of standards, the first number in the range is a strictly health-based value, based on the WQCC's established methodology for human health-based standards. The second number in the range is a maximum contaminant level (MCL), established under the Federal Safe Drinking Water Act which has been determined to be an acceptable level of this chemical in public water supplies, taking treatability and laboratory detection limits into account. The WQCC intends that control requirements for this chemical be implemented to attain a level of ambient water quality that is at least equal to the first number in the range except as follows: 1) where ground water quality exceeds the first number in the range due to a release of contaminants that occurred prior to September 14, 2004 (regardless of the date of discovery or subsequent migration of such contaminants) clean-up levels for the entire contaminant plume shall be no more restrictive than the second number in the range or the ground water quality resulting from such release, whichever is more protective, and 2) whenever the WQCC has adopted alternative, site-specific standards for the chemical, the site-specific standards shall apply instead of these statewide standards.

<sup>5</sup> Analysis by USDA Agricultural Handbook 60 method (20B) with soluble cations determined by method (2). Method (20B) = estimation of exchangeable sodium percentage and exchangeable potassium percentage from soluble cations. Method (2) = saturated paste method (note: each analysis requires a unique sample of at least 500 grams). If soils are saturated, USDA Agricultural Handbook 60 with soluble cations determined by method (3A) saturation extraction method.

<sup>6</sup> The table value for these inorganic constituents is taken from the CDPHE-HMWMD Table 1 Colorado Soil Evaluation Values (December 2007). However, because these values are high, it is possible that site-specific geochemical conditions may exist that could allow these constituents to migrate into ground water at

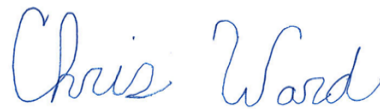


## American West Analytical Labs- Utah

Sample Delivery Group: L1018395  
Samples Received: 08/16/2018  
Project Number: 1808332  
Description: Rangely CS-47 Borrow Pits

Report To: Elona Hayward  
3440 S. 700 W.  
Salt Lake City, UT 84119

Entire Report Reviewed By:



Chris Ward  
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace National is performed per guidance provided in laboratory standard operating procedures: 060302, 060303, and 060304.



Cp: Cover Page	1	<div><sup>1</sup>Cp</div>
Tc: Table of Contents	2	
Ss: Sample Summary	3	<div><sup>2</sup>Tc</div>
Cn: Case Narrative	4	
Sr: Sample Results	5	<div><sup>3</sup>Ss</div>
CS39-STPL  L1018395-01	5	
Qc: Quality Control Summary	6	<div><sup>4</sup>Cn</div>
Total Solids by Method 2540 G-2011	6	<div><sup>5</sup>Sr</div>
Wet Chemistry by Method 3060A/7196A	7	
Gl: Glossary of Terms	9	<div><sup>6</sup>Qc</div>
Al: Accreditations & Locations	10	<div><sup>7</sup>Gl</div>
Sc: Sample Chain of Custody	11	<div><sup>8</sup>Al</div>
		<div><sup>9</sup>Sc</div>



CS39-STPL L1018395-01 Solid

Collected by

Collected date/time

Received date/time

08/14/18 08:34

08/16/18 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Total Solids by Method 2540 G-2011	WG1155228	1	08/21/18 13:27	08/21/18 13:38	JD
Wet Chemistry by Method 3060A/7196A	WG1154539	1	08/19/18 12:11	08/20/18 12:10	ITB

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

<sup>4</sup>Cn

<sup>5</sup>Sr

<sup>6</sup>Qc

<sup>7</sup>Gl

<sup>8</sup>Al

<sup>9</sup>Sc





All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

Chris Ward  
Project Manager

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc



Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	94.8		1	08/21/2018 13:38	<a href="#">WG1155228</a>

<sup>1</sup> Cp

<sup>2</sup> Tc

Wet Chemistry by Method 3060A/7196A

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Chromium,Hexavalent	U		0.675	2.11	1	08/20/2018 12:10	<a href="#">WG1154539</a>

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc

Total Solids by Method 2540 G-2011

[L1018395-01](#)

Method Blank (MB)

(MB) R3335561-1 08/21/18 13:38

	MB Result	<u>MB Qualifier</u>	MB MDL	MB RDL
Analyte	%		%	%
Total Solids	0.00100			

L1018395-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1018395-02 08/21/18 13:38 • (DUP) R3335561-3 08/21/18 13:38

	Original Result	DUP Result	Dilution	DUP RPD	<u>DUP Qualifier</u>	DUP RPD Limits
Analyte	%	%		%		%
Total Solids	97.2	97.2	1	0.0215		10

Laboratory Control Sample (LCS)

(LCS) R3335561-2 08/21/18 13:38

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	<u>LCS Qualifier</u>
Analyte	%	%	%	%	
Total Solids	50.0	50.0	100	85.0-115	

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc





Method Blank (MB)

(MB) R3334998-1 08/20/18 12:09

	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	mg/kg		mg/kg	mg/kg
Chromium,Hexavalent	U		0.640	2.00

L1018395-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1018395-01 08/20/18 12:10 • (DUP) R3334998-4 08/20/18 12:11

	Original Result (dry)	DUP Result (dry)	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	mg/kg	mg/kg		%		%
Chromium,Hexavalent	U	0.000	1	0.000		20

L1018656-11 Original Sample (OS) • Duplicate (DUP)

(OS) L1018656-11 08/20/18 12:27 • (DUP) R3334998-9 08/20/18 12:27

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	mg/kg	mg/kg		%		%
Chromium,Hexavalent	U	0.000	1	0.000		20

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3334998-2 08/20/18 12:09 • (LCSD) R3334998-3 08/20/18 12:10

	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
Analyte	mg/kg	mg/kg	mg/kg	%	%	%			%	%
Chromium,Hexavalent	24.0	23.6	23.6	98.3	98.2	80.0-120			0.170	20

L1018395-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1018395-03 08/20/18 12:12 • (MS) R3334998-5 08/20/18 12:12 • (MSD) R3334998-6 08/20/18 12:13

	Spike Amount (dry)	Original Result (dry)	MS Result (dry)	MSD Result (dry)	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	mg/kg	mg/kg	mg/kg	mg/kg	%	%		%			%	%
Chromium,Hexavalent	21.8	U	17.4	18.3	80.0	84.0	1	75.0-125			4.88	20

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc



L1018395-03 Original Sample (OS) • Matrix Spike (MS)

(OS) L1018395-03 08/20/18 12:12 • (MS) R3334998-7 08/20/18 12:15

	Spike Amount (dry)	Original Result (dry)	MS Result (dry)	MS Rec.	Dilution	Rec. Limits	<u>MS Qualifier</u>
Analyte	mg/kg	mg/kg	mg/kg	%		%	
Chromium,Hexavalent	756	U	704	93.1	50	75.0-125	

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

<sup>4</sup>Cn

<sup>5</sup>Sr

<sup>6</sup>Qc

<sup>7</sup>Gl

<sup>8</sup>Al

<sup>9</sup>Sc



## Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

### Abbreviations and Definitions

(dry)	Results are reported based on the dry weight of the sample. [this will only be present on a dry report basis for soils].
MDL	Method Detection Limit.
MDL (dry)	Method Detection Limit.
RDL	Reported Detection Limit.
RDL (dry)	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
U	Not detected at the Reporting Limit (or MDL where applicable).
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state "ND" (Not Detected) or "BDL" (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

### Qualifier Description

The remainder of this page intentionally left blank, there are no qualifiers applied to this SDG.

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 G

8 Al

9 Sc





Pace National is the only environmental laboratory accredited/certified to support your work nationwide from one location. One phone call, one point of contact, one laboratory. No other lab is as accessible or prepared to handle your needs throughout the country. Our capacity and capability from our single location laboratory is comparable to the collective totals of the network laboratories in our industry. The most significant benefit to our one location design is the design of our laboratory campus. The model is conducive to accelerated productivity, decreasing turn-around time, and preventing cross contamination, thus protecting sample integrity. Our focus on premium quality and prompt service allows us to be YOUR LAB OF CHOICE.

\* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

\* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace National.

## State Accreditations

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN-03-2002-34
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey–NELAP	TN002
California	2932	New Mexico <sup>1</sup>	n/a
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina <sup>1</sup>	DW21704
Georgia	NELAP	North Carolina <sup>3</sup>	41
Georgia <sup>1</sup>	923	North Dakota	R-140
Idaho	TN00003	Ohio–VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky <sup>1 6</sup>	90010	South Carolina	84004
Kentucky <sup>2</sup>	16	South Dakota	n/a
Louisiana	AI30792	Tennessee <sup>1 4</sup>	2006
Louisiana <sup>1</sup>	LA180010	Texas	T 104704245-17-14
Maine	TN0002	Texas <sup>5</sup>	LAB0152
Maryland	324	Utah	TN00003
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	460132
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	9980939910
Montana	CERT0086	Wyoming	A2LA

## Third Party Federal Accreditations

A2LA – ISO 17025	1461.01	AIHA-LAP, LLC EMLAP	100789
A2LA – ISO 17025 <sup>5</sup>	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA–Crypto	TN00003		

<sup>1</sup> Drinking Water <sup>2</sup> Underground Storage Tanks <sup>3</sup> Aquatic Toxicity <sup>4</sup> Chemical/Microbiological <sup>5</sup> Mold <sup>6</sup> Wastewater n/a Accreditation not applicable

## Our Locations

Pace National has sixty-four client support centers that provide sample pickup and/or the delivery of sampling supplies. If you would like assistance from one of our support offices, please contact our main office. Pace National performs all testing at our central laboratory.





**American West  
Analytical Laboratories**

3440 S. 700 W. Salt Lake City, UT 84119  
Phone # (801) 263-8686 Toll Free # (888) 263-8686  
Fax # (801) 263-8687 Email: awal@awal-labs.com

www.awal-labs.com

**CHAIN OF CUSTODY**

E028

AWAL Lab Sample Set #  
Page 1 of 1

All analyses will be conducted using NELAP accredited methods and all data will be reported using AWAL's standard analyte lists and reporting limits (POL) unless specifically requested otherwise on this Chain of Custody and/or attached documentation

QC Level:		Turn Around Time:		Unless other arrangements have been made, signed reports will be emailed by 5:00 pm on the day they are due		Due Date:								
1	2	2+	3	3+	1	2	3	4	5	Std				
# of Containers	Sample Matrix	Chrome VI									<input type="checkbox"/> Report down to the MDL <input type="checkbox"/> Include EDO <input type="checkbox"/> Lab Filter for:  <input type="checkbox"/> Field Filtered For			
											For Compliance With: <input type="checkbox"/> NELAP <input type="checkbox"/> RCRA <input type="checkbox"/> CWA <input type="checkbox"/> SDWA <input type="checkbox"/> ELAP / A2LA <input type="checkbox"/> NLLAP <input type="checkbox"/> Non-Compliance <input type="checkbox"/> Other:			
											Known Hazards & Sample Comments			
Sample ID:	Date Sampled	Time Sampled												
1 CS39-STPL	8/14/2018	8:34	1	s	x									u1
2 WP-STPL	8/14/2018	9:37	1	s	x									u2
3 Urle Pit	8/14/2018	7:45	1	s	x									u3
4														
5														
6														
7														
8														
9														
10														
11														
12														
13														
14														
15														
16														

**Laboratory Use Only**

**Samples Were:**

- 1 Shipped or hand delivered
- 2 Ambient or Chilled
- 3 Temperature 29.18 °C
- 4 Received Broken/Leaking (Improperly Sealed)  
Y N
- 5 Properly Preserved  
Y N Checked at bench
- 6 Received Within Holding Times  
Y N

**COC Tape Was:**

- 1 Present on Outer Package  
Y N NA
- 2 Unbroken on Outer Package  
Y N NA
- 3 Present on Sample  
Y N NA
- 4 Unbroken on Sample  
Y N NA


Discrepancies Between Sample Labels and COC Record?  
Y N

Samples sent to ESC

COCSE L. SMITH/HR

Relinquished by Signature: <u>Denise Brown</u>	Date: <u>8/15/18</u>	Received by Signature: <u>Chad Tuie</u>	Date: <u>8/15/18</u>	Special Instructions:
Print Name: <u>Denise Brown</u>	Time: <u>9:45</u>	Print Name: <u>Chad Tuie</u>	Time: <u>0946</u>	
Relinquished by Signature: <u>Chad Tuie</u>	Date: <u>8/15/18</u>	Received by Signature: <u>Chad Tuie</u>	Date: <u>8/16/18</u>	
Print Name: <u>Chad Tuie</u>	Time: <u>1700</u>	Print Name: <u>Chad Tuie</u>	Time: <u>8:45</u>	

# Pace Analytical National Center for Testing & Innovation Cooler Receipt Form

Client: <u>AWAL ABUT</u>	SDG# <u>1018395</u>		
Cooler Received/Opened On: 8/ <u>16</u> /18	Temperature: <u>0.9</u>		
Received By: Kevin Turner			
Signature: 			
Receipt Check List	NP	Yes	No
COC Seal Present / Intact?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
COC Signed / Accurate?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Bottles arrive intact?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Correct bottles used?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Sufficient volume sent?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
If Applicable			
VOA Zero headspace?			
Preservation Correct / Checked?			



**Appendix F**  
**Photographic Records**

**REM 10501, Rangely Collection Station 47,  
Rangely, Colorado**

**CS-47B Remedial Excavation: Photo Log**



Photo 1: Using survey control to stakeout limits of clean overburden material.  
Loader strips and stockpiles clean material on-site.



Photo 2: Rolling excavation trench methods were used along the eastern edge of the excavation to protect active utilities.





Photo 3: Clean backfill was placed in the excavation trench, following removal of impacted soils, to protect active utilities.



Photo 4: Excavator direct loads dump truck with impacted soils.





Photo 5: Removal of impacted soils near decommissioned MW-01.





Photo 6: An additional 1-foot of gravel material was removed from the excavation floor to reach the top of the groundwater table.



Photo 7: Three sumps were excavated into the excavation floor and liquids were removed with a vacuum truck.





Photo 8: Calcium nitrate was spread across the bottom of the excavation floor and mixed into the gravel layer.





Photo 9: Clean import soils were delivered for backfill activities.



Photo 10: Site restored and stormwater berm in-place.





Photo 11: MW-01R installed.



**Appendix G**  
**Monitoring Well Installation Permit Application**



**ORIGINAL PERMIT APPLICANT(S)**

CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY  
(GIFFORD, ADRIANE)

**APPROVED WELL LOCATION**

Water Division: 6      Water District: 43  
Designated Basin: N/A  
Management District: N/A  
County: RIO BLANCO  
Parcel Name: N/A  
Physical Address: N/A

**AUTHORIZED AGENT**

STANTEC CONSULTING SERVICES (BEALL,  
CHRISTOPHER)

SE 1/4 SW 1/4 Section 35 Township 2.0 N Range 102.0 W Sixth P.M.

**UTM COORDINATES (Meters, Zone: 13, NAD83)**

Easting: 175025.5      Northing: 4445260.6

**PERMIT TO USE AN EXISTING WELL**

ISSUANCE OF THIS PERMIT DOES NOT CONFER A WATER RIGHT

**CONDITIONS OF APPROVAL**

- 1) This well shall be used in such a way as to cause no material injury to existing water rights. The issuance of this permit does not ensure that no injury will occur to another vested water right or preclude another owner of a vested water right from seeking relief in a civil court action.
- 2) The construction of this well shall be in compliance with the Water Well Construction Rules 2 CCR 402-2, unless approval of a variance has been granted by the State Board of Examiners of Water Well Construction and Pump Installation Contractors in accordance with Rule 18.
- 3) Approved pursuant to CRS 37-92-602(3)(b)(I) for uses as described in CRS 37-92-602(1)(f). Use of this well is limited to monitoring water levels and/or water quality sampling.
- 4) Approved for the use of an existing well acknowledged for construction under monitoring hole notice 58729-MH, and known as MW1R.
- 5) This well must be equipped with a locking cap or seal to prevent well contamination or possible hazards as an open well. The well must be kept capped and locked at all times except during sampling or measuring.
- 6) Records of water level measurements and water quality analyses shall be maintained by the well owner and submitted to the Division of Water Resources upon request.
- 7) Upon conclusion of the monitoring program the well owner shall plug this well in accordance with Rule 16 of the Water Well Construction Rules. A Well Abandonment Report must be completed and submitted to the Division of Water Resources within 60 days of plugging.
- 8) The owner shall mark the well in a conspicuous location with the well permit number and name of aquifer as appropriate, and shall take necessary means and precautions to preserve these markings.
- 9) This well must have been constructed by or under the supervision of a licensed well driller or other authorized individual according to the Water Well Construction Rules.
- 10) This well must be located not more than 200 feet from the location specified on this permit.

NOTE: Issuance of this permit does not guarantee that this well can be converted to a production well under a future permit. Additionally, pursuant to Rule 14.2 of the Water Well Construction Rules (2 CCR 402-2), monitoring holes constructed pursuant to a monitoring hole notice shall not be converted to a production well. (Upon obtaining a permit from the State Engineer, a monitoring hole may be converted to a monitoring well, recovery well for remediation of the aquifer, or a dewatering system for dewatering the aquifer.)

Issued By JUSTINA MICKELSON

Date Issued: 12/13/2018

Expiration Date: N/A

**Appendix H**  
**Monitoring Well Construction Log**

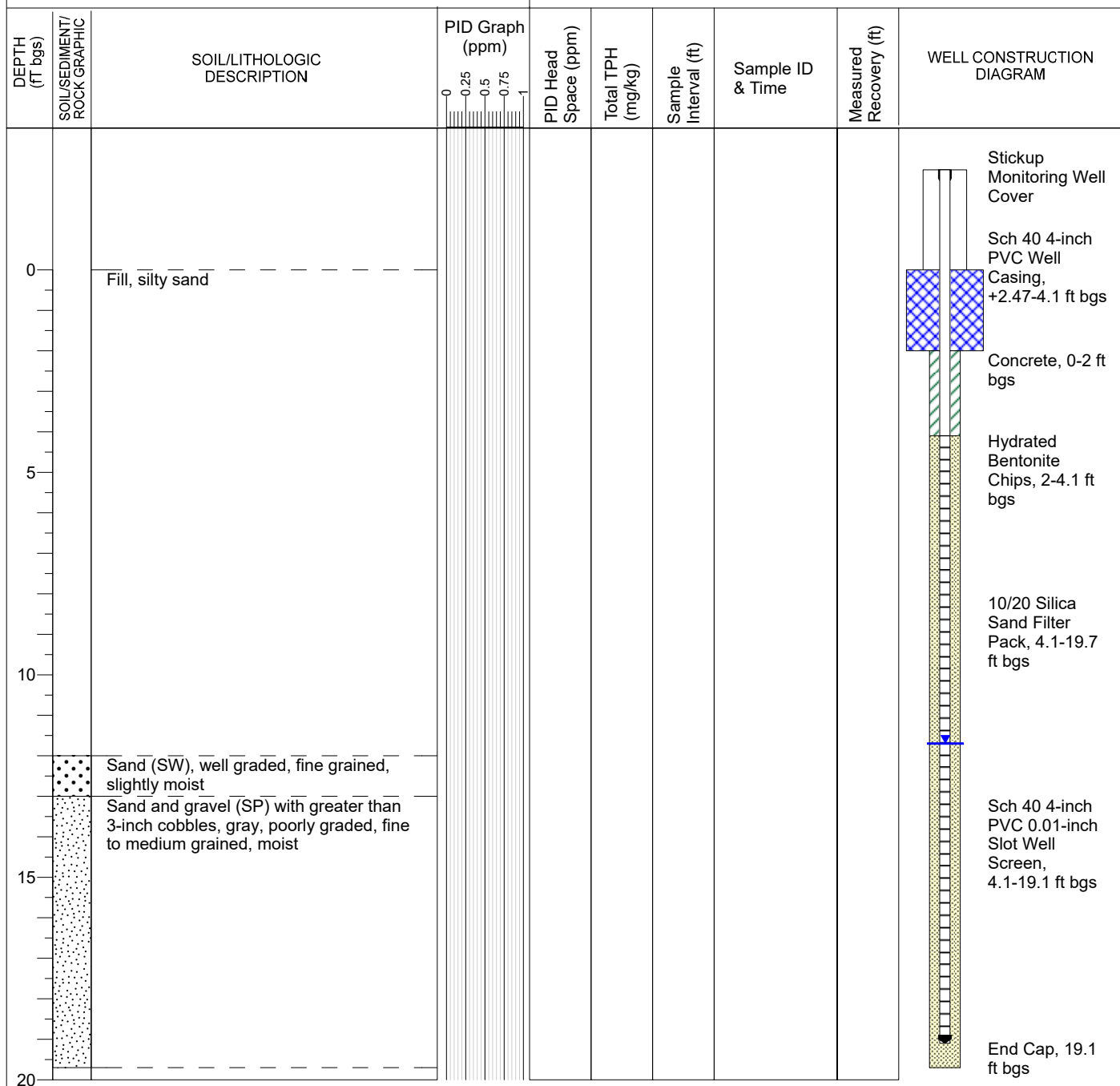




MONITORING WELL ID: **MW-01R**  
 CLIENT: Chevron  
 PROJECT: Rangely CS-47  
 SITE LOCATION: Rangely, Colorado

DRILLING CONTRACTOR: Cascade Drilling  
 SOFT DIG METHOD: Hollow Stem Auger  
 DRILLING EQUIPMENT: Hollow Stem Auger  
 SAMPLING METHOD: --  
 BOREHOLE DIAMETER: 10 inches  
 LOGGED BY: Steven Yorgason

COORDINATE SYSTEM: SPCS  
 EASTING: 2073661.656 NORTHING: 1294726.42  
 ELEVATION (ft amsl): 5205.517 TOTAL DEPTH (ft): 19.7  
 GROUNDWATER LEVEL (ft btoc): 11.7  
 DATE SOFT DIG STARTED: --  
 DATE SOFT DIG FINISHED: --  
 DATE DRILLING STARTED: 11/6/2018  
 DATE DRILLING FINISHED: 11/6/2018  
 DATE WELL INSTALLED: 11/6/2018



**Notes:**

ID = Identification  
 ft = feet  
 ft bgs = feet below ground surface  
 ft btoc = feet below top of casing  
 ppm = parts per million

mg/kg = milligrams per kilogram  
 PID = photoionization detector  
 PVC = polyvinyl chloride  
 Sch = schedule

TPH = total petroleum hydrocarbons  
 Total TPH = combined laboratory analytical  
 results of TPH gasoline range organics and  
 TPH diesel range organics.

\*Top of casing elevation not surveyed, depth to groundwater is approximate

SPCS = State Plane Coordinate System  
 — = PID measurement

**Appendix I**  
**2018 Groundwater Analytical Reports**

## ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Denver

4955 Yarrow Street

Arvada, CO 80002

Tel: (303)736-0100

TestAmerica Job ID: 280-111098-1

Client Project/Site: Chevron Rangely, CO CS-47

Revision: 1

For:

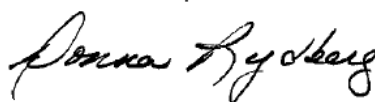
Stantec Consulting Corp.

2000 South Colorado Blvd

Suite 2-300

Denver, Colorado 80222

Attn: Christopher Beall



Authorized for release by:

1/4/2019 3:03:12 PM

Donna Rydberg, Senior Project Manager

(303)736-0192

[donna.rydberg@testamericainc.com](mailto:donna.rydberg@testamericainc.com)

Designee for

Jamie Ide, Project Manager I

(303)736-0126

[jamie.ide@testamericainc.com](mailto:jamie.ide@testamericainc.com)

### LINKS

Review your project  
results through

TotalAccess

Have a Question?



Visit us at:

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

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

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

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





# Table of Contents

Cover Page . . . . .	1
Table of Contents . . . . .	2
Definitions . . . . .	3
Case Narrative . . . . .	4
Detection Summary . . . . .	6
Method Summary . . . . .	8
Sample Summary . . . . .	9
Client Sample Results . . . . .	10
Surrogate Summary . . . . .	17
QC Sample Results . . . . .	19
QC Association . . . . .	25
Chronicle . . . . .	28
Certification Summary . . . . .	31
Chain of Custody . . . . .	32
Receipt Checklists . . . . .	33

## Definitions/Glossary

Client: Stantec Consulting Corp.  
Project/Site: Chevron Rangely, CO CS-47

TestAmerica Job ID: 280-111098-1

### Qualifiers

#### GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
X	Surrogate is outside control limits

#### GC VOA

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.
F2	MS/MSD RPD exceeds control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
X	Surrogate is outside control limits

#### GC Semi VOA

Qualifier	Qualifier Description
D	Sample results are obtained from a dilution; the surrogate or matrix spike recoveries reported are calculated from diluted samples.
X	Surrogate is outside control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

#### General Chemistry

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

### Glossary

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

# Case Narrative

Client: Stantec Consulting Corp.  
Project/Site: Chevron Rangely, CO CS-47

TestAmerica Job ID: 280-111098-1

**Job ID: 280-111098-1**

**Laboratory: TestAmerica Denver**

## Narrative

### CASE NARRATIVE

**Client: Stantec Consulting Corp.**  
**Project: Chevron Rangely, CO CS-47**  
**Report Number: 280-111098-1**

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

#### **REVISED REPORT - 1/4/18**

The client contacted the laboratory and requested a change to how the DRO data was reported. Originally the data was reported using the extended range Diesel Range Organics (C10-C36). The client would like the data reported as Diesel Range Organics (C10-C28). The lab went back and reprocessed the data. No other changes were made.

#### **RECEIPT**

The samples were received on 6/18/2018 11:35 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 2 coolers at receipt time were 1.3° C and 2.9° C.

A trip blank was submitted for analysis with these samples; however, it was not listed on the Chain of Custody (COC). The trip blank was logged for 8260B BTEX and the laboratory will proceed with analysis unless instructed otherwise by the client. The client was notified on 6/19/18.

#### **VOLATILE ORGANIC COMPOUNDS (GC-MS)**

Samples MW-01-061618 (280-111098-1), MW-02-061618 (280-111098-2), MW-03-061618 (280-111098-3), MW-04-061618 (280-111098-4), MW-05-061618 (280-111098-5), MW-06-061618 (280-111098-6), TW-01-061618 (280-111098-7), DUP-01-061618 (280-111098-8) and TRIP BLANK (280-111098-9) were analyzed for volatile organic compounds (GC-MS) in accordance with EPA SW-846 Method 8260B. The samples were analyzed on 06/29/2018.

The sample was collected in properly preserved vials for analysis of volatile organic compounds (VOCs). However, when verified by the laboratory, the pH was greater than 2 and the following samples were analyzed after 7 days from sampling: MW-01-061618 (280-111098-1), MW-02-061618 (280-111098-2), MW-06-061618 (280-111098-6) and DUP-01-061618 (280-111098-8).

1,2-Dichloroethane-d4 (Surr), 4-Bromofluorobenzene (Surr), Dibromofluoromethane (Surr) and Toluene-d8 (Surr) failed the surrogate recovery criteria high for TW-01-061618 (280-111098-7). The associated sample was non-detect for the affected analytes. Refer to the QC report for details.

Samples MW-01-061618 (280-111098-1)[200X] and DUP-01-061618 (280-111098-8)[200X] required dilution prior to analysis due to the nature of the sample matrix. The reporting limits have been adjusted accordingly.

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

#### **GASOLINE RANGE ORGANICS (GRO)**

Samples MW-01-061618 (280-111098-1), MW-02-061618 (280-111098-2), MW-03-061618 (280-111098-3), MW-04-061618 (280-111098-4), MW-05-061618 (280-111098-5), MW-06-061618 (280-111098-6), TW-01-061618 (280-111098-7) and DUP-01-061618 (280-111098-8) were analyzed for Gasoline Range Organics (GRO) in accordance with EPA SW-846 Method 8015D - GRO. The samples were analyzed on 06/29/2018 and 06/30/2018.



# Case Narrative

Client: Stantec Consulting Corp.  
Project/Site: Chevron Rangely, CO CS-47

TestAmerica Job ID: 280-111098-1

## Job ID: 280-111098-1 (Continued)

### Laboratory: TestAmerica Denver (Continued)

a,a,a-Trifluorotoluene failed the surrogate recovery criteria high for DUP-01-061618 (280-111098-8). Matrix interference is present.

a,a,a-Trifluorotoluene failed the surrogate recovery criteria low for LCS 280-420592/3. The LCS spike recover was in control, and the associated samples exhibited surrogate recoveries within control limits. Refer to the QC report for details.

Gasoline Range Organics (GRO)-C6-C10 failed the recovery criteria high for the MS/MSD of sample MW-01-061618 (280-111098-1) in batch 280-420592. Gasoline Range Organics (GRO)-C6-C10 exceeded the RPD limit. Refer to the QC report for details.

Samples MW-01-061618 (280-111098-1)[10X] and DUP-01-061618 (280-111098-8)[10X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

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

### DIESEL RANGE ORGANICS

Samples MW-01-061618 (280-111098-1), MW-02-061618 (280-111098-2), MW-03-061618 (280-111098-3), MW-04-061618 (280-111098-4), MW-05-061618 (280-111098-5), MW-06-061618 (280-111098-6), TW-01-061618 (280-111098-7) and DUP-01-061618 (280-111098-8) were analyzed for Diesel Range Organics in accordance with EPA SW-846 Method 8015B - DRO. The samples were prepared on 06/22/2018 and analyzed on 07/03/2018 and 07/06/2018.

The following samples formed emulsions during the extraction procedure: MW-01-061618 (280-111098-1) and MW-02-061618 (280-111098-2). The emulsions were broken up using the centrifuge for all three extractions.

Due to the matrix, the following sample could not be concentrated to the final method required volume: DUP-01-061618 (280-111098-8). The reporting limits (RLs) are elevated proportionately. Final volume brought to 10 mL.

o-Terphenyl failed the surrogate recovery criteria high for MW-01-061618 (280-111098-1). o-Terphenyl failed the surrogate recovery criteria low for DUP-01-061618 (280-111098-8). In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required. The surrogate recoveries are calculated from diluted samples and in some cases are diluted below reportable limits. Refer to the QC report for details.

Samples MW-01-061618 (280-111098-1)[4X] and DUP-01-061618 (280-111098-8)[10X] required dilution prior to analysis due to the nature of the sample matrix. The reporting limits have been adjusted accordingly.

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

### ANIONS (28 DAYS)

Samples MW-01-061618 (280-111098-1), MW-02-061618 (280-111098-2), MW-03-061618 (280-111098-3), MW-04-061618 (280-111098-4), MW-05-061618 (280-111098-5), MW-06-061618 (280-111098-6), TW-01-061618 (280-111098-7) and DUP-01-061618 (280-111098-8) were analyzed for anions (28 days) in accordance with EPA SW-846 Method 9056A. The samples were analyzed on 07/03/2018 and 07/05/2018.

Sulfate was detected in method blank MB 280-421172/6 at a level that was above the method detection limit but below the reporting limit. The value should be considered an estimate, and has been flagged. If the associated sample reported a result above the MDL and/or RL, the result has been flagged. Refer to the QC report for details.

Samples MW-01-061618 (280-111098-1)[10X], MW-02-061618 (280-111098-2)[20X], MW-02-061618 (280-111098-2)[5X], MW-03-061618 (280-111098-3)[20X], MW-03-061618 (280-111098-3)[5X], MW-04-061618 (280-111098-4)[20X], MW-04-061618 (280-111098-4)[5X], MW-05-061618 (280-111098-5)[20X], MW-05-061618 (280-111098-5)[5X], MW-06-061618 (280-111098-6)[20X], MW-06-061618 (280-111098-6)[5X], TW-01-061618 (280-111098-7)[10X], TW-01-061618 (280-111098-7)[5X] and DUP-01-061618 (280-111098-8)[10X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

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

# Detection Summary

Client: Stantec Consulting Corp.  
Project/Site: Chevron Rangely, CO CS-47

TestAmerica Job ID: 280-111098-1

## Client Sample ID: MW-01-061618

## Lab Sample ID: 280-111098-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Gasoline Range Organics (GRO)	1100	F2 F1	250	100	ug/L	10		8015D	Total/NA
-C6-C10									
Diesel Range Organics [C10-C28]	490		9.6	1.3	mg/L	4		8015B	Total/NA
Chloride	870		30	2.5	mg/L	10		9056A	Total/NA
Sulfate	910		50	2.3	mg/L	10		9056A	Total/NA

## Client Sample ID: MW-02-061618

## Lab Sample ID: 280-111098-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Toluene	0.19	J	1.0	0.17	ug/L	1		8260B	Total/NA
Diesel Range Organics [C10-C28]	0.42		0.24	0.031	mg/L	1		8015B	Total/NA
Chloride	260		15	1.3	mg/L	5		9056A	Total/NA
Sulfate	1100		100	4.6	mg/L	20		9056A	Total/NA

## Client Sample ID: MW-03-061618

## Lab Sample ID: 280-111098-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	0.60		0.24	0.031	mg/L	1		8015B	Total/NA
Chloride	490		15	1.3	mg/L	5		9056A	Total/NA
Sulfate	1500		100	4.6	mg/L	20		9056A	Total/NA

## Client Sample ID: MW-04-061618

## Lab Sample ID: 280-111098-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	0.50	J	1.0	0.16	ug/L	1		8260B	Total/NA
Toluene	0.19	J	1.0	0.17	ug/L	1		8260B	Total/NA
Diesel Range Organics [C10-C28]	0.16	J	0.24	0.031	mg/L	1		8015B	Total/NA
Chloride	530		15	1.3	mg/L	5		9056A	Total/NA
Sulfate	1500		100	4.6	mg/L	20		9056A	Total/NA

## Client Sample ID: MW-05-061618

## Lab Sample ID: 280-111098-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	0.094	J	0.24	0.031	mg/L	1		8015B	Total/NA
Chloride	490		15	1.3	mg/L	5		9056A	Total/NA
Sulfate	1500		100	4.6	mg/L	20		9056A	Total/NA

## Client Sample ID: MW-06-061618

## Lab Sample ID: 280-111098-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	0.20	J	1.0	0.16	ug/L	1		8260B	Total/NA
Toluene	0.21	J	1.0	0.17	ug/L	1		8260B	Total/NA
Gasoline Range Organics (GRO)	11	J	25	10	ug/L	1		8015D	Total/NA
-C6-C10									
Diesel Range Organics [C10-C28]	0.16	J	0.27	0.035	mg/L	1		8015B	Total/NA
Chloride	870		15	1.3	mg/L	5		9056A	Total/NA
Sulfate	1900		100	4.6	mg/L	20		9056A	Total/NA

## Client Sample ID: TW-01-061618

## Lab Sample ID: 280-111098-7

This Detection Summary does not include radiochemical test results.

TestAmerica Denver

## Detection Summary

Client: Stantec Consulting Corp.  
Project/Site: Chevron Rangely, CO CS-47

TestAmerica Job ID: 280-111098-1

### Client Sample ID: TW-01-061618 (Continued)

Lab Sample ID: 280-111098-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	0.18	J	0.24	0.031	mg/L	1		8015B	Total/NA
Chloride	320		15	1.3	mg/L	5		9056A	Total/NA
Sulfate	1300	B	50	2.3	mg/L	10		9056A	Total/NA

### Client Sample ID: DUP-01-061618

Lab Sample ID: 280-111098-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Gasoline Range Organics (GRO)	4700		250	100	ug/L	10		8015D	Total/NA
-C6-C10									
Diesel Range Organics [C10-C28]	960		25	3.2	mg/L	10		8015B	Total/NA
Chloride	840		30	2.5	mg/L	10		9056A	Total/NA
Sulfate	1100		50	2.3	mg/L	10		9056A	Total/NA

### Client Sample ID: TRIP BLANK

Lab Sample ID: 280-111098-9

No Detections.

This Detection Summary does not include radiochemical test results.

TestAmerica Denver



## Method Summary

Client: Stantec Consulting Corp.  
Project/Site: Chevron Rangely, CO CS-47

TestAmerica Job ID: 280-111098-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL DEN
8015D	Gasoline Range Organics (GRO) (GC)	SW846	TAL DEN
8015B	Diesel Range Organics (DRO) (GC)	SW846	TAL DEN
9056A	Anions, Ion Chromatography	SW846	TAL DEN
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	TAL DEN
5030B	Purge and Trap	SW846	TAL DEN

### Protocol References:

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

### Laboratory References:

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

# Sample Summary

Client: Stantec Consulting Corp.  
Project/Site: Chevron Rangely, CO CS-47

TestAmerica Job ID: 280-111098-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
280-111098-1	MW-01-061618	Water	06/16/18 10:00	06/18/18 11:35
280-111098-2	MW-02-061618	Water	06/16/18 09:35	06/18/18 11:35
280-111098-3	MW-03-061618	Water	06/16/18 12:10	06/18/18 11:35
280-111098-4	MW-04-061618	Water	06/16/18 11:25	06/18/18 11:35
280-111098-5	MW-05-061618	Water	06/16/18 11:00	06/18/18 11:35
280-111098-6	MW-06-061618	Water	06/16/18 10:35	06/18/18 11:35
280-111098-7	TW-01-061618	Water	06/16/18 09:10	06/18/18 11:35
280-111098-8	DUP-01-061618	Water	06/16/18 12:30	06/18/18 11:35
280-111098-9	TRIP BLANK	Water	06/16/18 00:00	06/18/18 11:35

# Client Sample Results

Client: Stantec Consulting Corp.  
Project/Site: Chevron Rangely, CO CS-47

TestAmerica Job ID: 280-111098-1

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

Client Sample ID: MW-01-061618

Date Collected: 06/16/18 10:00

Date Received: 06/18/18 11:35

Lab Sample ID: 280-111098-1

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		200	32	ug/L			06/29/18 00:26	200
Ethylbenzene	ND		200	32	ug/L			06/29/18 00:26	200
Toluene	ND		200	34	ug/L			06/29/18 00:26	200
m-Xylene & p-Xylene	ND		400	68	ug/L			06/29/18 00:26	200
o-Xylene	ND		200	38	ug/L			06/29/18 00:26	200
Xylenes, Total	ND		400	38	ug/L			06/29/18 00:26	200
Methyl tert-butyl ether	ND		1000	50	ug/L			06/29/18 00:26	200

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		70 - 127		06/29/18 00:26	200
Toluene-d8 (Surr)	96		80 - 125		06/29/18 00:26	200
4-Bromofluorobenzene (Surr)	92		78 - 120		06/29/18 00:26	200
Dibromofluoromethane (Surr)	99		77 - 120		06/29/18 00:26	200

Client Sample ID: MW-02-061618

Date Collected: 06/16/18 09:35

Date Received: 06/18/18 11:35

Lab Sample ID: 280-111098-2

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	0.16	ug/L			06/29/18 05:37	1
Ethylbenzene	ND		1.0	0.16	ug/L			06/29/18 05:37	1
<b>Toluene</b>	<b>0.19</b>	<b>J</b>	1.0	0.17	ug/L			06/29/18 05:37	1
m-Xylene & p-Xylene	ND		2.0	0.34	ug/L			06/29/18 05:37	1
o-Xylene	ND		1.0	0.19	ug/L			06/29/18 05:37	1
Xylenes, Total	ND		2.0	0.19	ug/L			06/29/18 05:37	1
Methyl tert-butyl ether	ND		5.0	0.25	ug/L			06/29/18 05:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	95		70 - 127		06/29/18 05:37	1
Toluene-d8 (Surr)	99		80 - 125		06/29/18 05:37	1
4-Bromofluorobenzene (Surr)	88		78 - 120		06/29/18 05:37	1
Dibromofluoromethane (Surr)	95		77 - 120		06/29/18 05:37	1

Client Sample ID: MW-03-061618

Date Collected: 06/16/18 12:10

Date Received: 06/18/18 11:35

Lab Sample ID: 280-111098-3

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	0.16	ug/L			06/29/18 05:57	1
Ethylbenzene	ND		1.0	0.16	ug/L			06/29/18 05:57	1
Toluene	ND		1.0	0.17	ug/L			06/29/18 05:57	1
m-Xylene & p-Xylene	ND		2.0	0.34	ug/L			06/29/18 05:57	1
o-Xylene	ND		1.0	0.19	ug/L			06/29/18 05:57	1
Xylenes, Total	ND		2.0	0.19	ug/L			06/29/18 05:57	1
Methyl tert-butyl ether	ND		5.0	0.25	ug/L			06/29/18 05:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	91		70 - 127		06/29/18 05:57	1
Toluene-d8 (Surr)	92		80 - 125		06/29/18 05:57	1
4-Bromofluorobenzene (Surr)	84		78 - 120		06/29/18 05:57	1
Dibromofluoromethane (Surr)	92		77 - 120		06/29/18 05:57	1

TestAmerica Denver



# Client Sample Results

Client: Stantec Consulting Corp.  
Project/Site: Chevron Rangely, CO CS-47

TestAmerica Job ID: 280-111098-1

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

Client Sample ID: MW-04-061618

Date Collected: 06/16/18 11:25

Date Received: 06/18/18 11:35

Lab Sample ID: 280-111098-4

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.50	J	1.0	0.16	ug/L			06/29/18 06:18	1
Ethylbenzene	ND		1.0	0.16	ug/L			06/29/18 06:18	1
Toluene	0.19	J	1.0	0.17	ug/L			06/29/18 06:18	1
m-Xylene & p-Xylene	ND		2.0	0.34	ug/L			06/29/18 06:18	1
o-Xylene	ND		1.0	0.19	ug/L			06/29/18 06:18	1
Xylenes, Total	ND		2.0	0.19	ug/L			06/29/18 06:18	1
Methyl tert-butyl ether	ND		5.0	0.25	ug/L			06/29/18 06:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		70 - 127		06/29/18 06:18	1
Toluene-d8 (Surr)	104		80 - 125		06/29/18 06:18	1
4-Bromofluorobenzene (Surr)	94		78 - 120		06/29/18 06:18	1
Dibromofluoromethane (Surr)	102		77 - 120		06/29/18 06:18	1

Client Sample ID: MW-05-061618

Date Collected: 06/16/18 11:00

Date Received: 06/18/18 11:35

Lab Sample ID: 280-111098-5

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	0.16	ug/L			06/29/18 06:38	1
Ethylbenzene	ND		1.0	0.16	ug/L			06/29/18 06:38	1
Toluene	ND		1.0	0.17	ug/L			06/29/18 06:38	1
m-Xylene & p-Xylene	ND		2.0	0.34	ug/L			06/29/18 06:38	1
o-Xylene	ND		1.0	0.19	ug/L			06/29/18 06:38	1
Xylenes, Total	ND		2.0	0.19	ug/L			06/29/18 06:38	1
Methyl tert-butyl ether	ND		5.0	0.25	ug/L			06/29/18 06:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		70 - 127		06/29/18 06:38	1
Toluene-d8 (Surr)	97		80 - 125		06/29/18 06:38	1
4-Bromofluorobenzene (Surr)	90		78 - 120		06/29/18 06:38	1
Dibromofluoromethane (Surr)	98		77 - 120		06/29/18 06:38	1

Client Sample ID: MW-06-061618

Date Collected: 06/16/18 10:35

Date Received: 06/18/18 11:35

Lab Sample ID: 280-111098-6

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.20	J	1.0	0.16	ug/L			06/29/18 06:58	1
Ethylbenzene	ND		1.0	0.16	ug/L			06/29/18 06:58	1
Toluene	0.21	J	1.0	0.17	ug/L			06/29/18 06:58	1
m-Xylene & p-Xylene	ND		2.0	0.34	ug/L			06/29/18 06:58	1
o-Xylene	ND		1.0	0.19	ug/L			06/29/18 06:58	1
Xylenes, Total	ND		2.0	0.19	ug/L			06/29/18 06:58	1
Methyl tert-butyl ether	ND		5.0	0.25	ug/L			06/29/18 06:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	95		70 - 127		06/29/18 06:58	1
Toluene-d8 (Surr)	94		80 - 125		06/29/18 06:58	1
4-Bromofluorobenzene (Surr)	88		78 - 120		06/29/18 06:58	1
Dibromofluoromethane (Surr)	95		77 - 120		06/29/18 06:58	1

TestAmerica Denver

# Client Sample Results

Client: Stantec Consulting Corp.  
Project/Site: Chevron Rangely, CO CS-47

TestAmerica Job ID: 280-111098-1

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

Client Sample ID: TW-01-061618

Date Collected: 06/16/18 09:10

Date Received: 06/18/18 11:35

Lab Sample ID: 280-111098-7

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	0.16	ug/L			06/29/18 07:19	1
Ethylbenzene	ND		1.0	0.16	ug/L			06/29/18 07:19	1
Toluene	ND		1.0	0.17	ug/L			06/29/18 07:19	1
m-Xylene & p-Xylene	ND		2.0	0.34	ug/L			06/29/18 07:19	1
o-Xylene	ND		1.0	0.19	ug/L			06/29/18 07:19	1
Xylenes, Total	ND		2.0	0.19	ug/L			06/29/18 07:19	1
Methyl tert-butyl ether	ND		5.0	0.25	ug/L			06/29/18 07:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	166	X	70 - 127		06/29/18 07:19	1
Toluene-d8 (Surr)	147	X	80 - 125		06/29/18 07:19	1
4-Bromofluorobenzene (Surr)	131	X	78 - 120		06/29/18 07:19	1
Dibromofluoromethane (Surr)	159	X	77 - 120		06/29/18 07:19	1

Client Sample ID: DUP-01-061618

Date Collected: 06/16/18 12:30

Date Received: 06/18/18 11:35

Lab Sample ID: 280-111098-8

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		200	32	ug/L			06/29/18 07:39	200
Ethylbenzene	ND		200	32	ug/L			06/29/18 07:39	200
Toluene	ND		200	34	ug/L			06/29/18 07:39	200
m-Xylene & p-Xylene	ND		400	68	ug/L			06/29/18 07:39	200
o-Xylene	ND		200	38	ug/L			06/29/18 07:39	200
Xylenes, Total	ND		400	38	ug/L			06/29/18 07:39	200
Methyl tert-butyl ether	ND		1000	50	ug/L			06/29/18 07:39	200

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		70 - 127		06/29/18 07:39	200
Toluene-d8 (Surr)	99		80 - 125		06/29/18 07:39	200
4-Bromofluorobenzene (Surr)	92		78 - 120		06/29/18 07:39	200
Dibromofluoromethane (Surr)	104		77 - 120		06/29/18 07:39	200

Client Sample ID: TRIP BLANK

Date Collected: 06/16/18 00:00

Date Received: 06/18/18 11:35

Lab Sample ID: 280-111098-9

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	0.16	ug/L			06/29/18 08:00	1
Ethylbenzene	ND		1.0	0.16	ug/L			06/29/18 08:00	1
Toluene	ND		1.0	0.17	ug/L			06/29/18 08:00	1
m-Xylene & p-Xylene	ND		2.0	0.34	ug/L			06/29/18 08:00	1
o-Xylene	ND		1.0	0.19	ug/L			06/29/18 08:00	1
Xylenes, Total	ND		2.0	0.19	ug/L			06/29/18 08:00	1
Methyl tert-butyl ether	ND		5.0	0.25	ug/L			06/29/18 08:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	125		70 - 127		06/29/18 08:00	1
Toluene-d8 (Surr)	87		80 - 125		06/29/18 08:00	1
4-Bromofluorobenzene (Surr)	88		78 - 120		06/29/18 08:00	1
Dibromofluoromethane (Surr)	106		77 - 120		06/29/18 08:00	1

TestAmerica Denver

# Client Sample Results

Client: Stantec Consulting Corp.  
Project/Site: Chevron Rangely, CO CS-47

TestAmerica Job ID: 280-111098-1

## Method: 8015D - Gasoline Range Organics (GRO) (GC)

Client Sample ID: MW-01-061618

Date Collected: 06/16/18 10:00

Date Received: 06/18/18 11:35

Lab Sample ID: 280-111098-1

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C6-C10	1100	F2 F1	250	100	ug/L	-		06/29/18 19:50	10
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	98		82 - 110					06/29/18 19:50	10

Client Sample ID: MW-02-061618

Date Collected: 06/16/18 09:35

Date Received: 06/18/18 11:35

Lab Sample ID: 280-111098-2

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C6-C10	ND		25	10	ug/L	-		06/29/18 02:47	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	101		82 - 110					06/29/18 02:47	1

Client Sample ID: MW-03-061618

Date Collected: 06/16/18 12:10

Date Received: 06/18/18 11:35

Lab Sample ID: 280-111098-3

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C6-C10	ND		25	10	ug/L	-		06/29/18 03:11	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	98		82 - 110					06/29/18 03:11	1

Client Sample ID: MW-04-061618

Date Collected: 06/16/18 11:25

Date Received: 06/18/18 11:35

Lab Sample ID: 280-111098-4

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C6-C10	ND		25	10	ug/L	-		06/29/18 03:35	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	90		82 - 110					06/29/18 03:35	1

Client Sample ID: MW-05-061618

Date Collected: 06/16/18 11:00

Date Received: 06/18/18 11:35

Lab Sample ID: 280-111098-5

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C6-C10	ND		25	10	ug/L	-		06/29/18 03:59	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	92		82 - 110					06/29/18 03:59	1

Client Sample ID: MW-06-061618

Date Collected: 06/16/18 10:35

Date Received: 06/18/18 11:35

Lab Sample ID: 280-111098-6

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C6-C10	11	J	25	10	ug/L	-		06/30/18 02:14	1

TestAmerica Denver



# Client Sample Results

Client: Stantec Consulting Corp.  
Project/Site: Chevron Rangely, CO CS-47

TestAmerica Job ID: 280-111098-1

## Method: 8015D - Gasoline Range Organics (GRO) (GC) (Continued)

Surrogate	%Recovery	Qualifier	Limits							Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	99		82 - 110								06/30/18 02:14	1
Client Sample ID: TW-01-061618										Lab Sample ID: 280-111098-7		
Date Collected: 06/16/18 09:10										Matrix: Water		
Date Received: 06/18/18 11:35												
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac			
Gasoline Range Organics (GRO)	ND		25	10	ug/L	-		06/30/18 02:38	1			
-C6-C10												
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac			
a,a,a-Trifluorotoluene	107		82 - 110					06/30/18 02:38	1			

Client Sample ID: DUP-01-061618

Date Collected: 06/16/18 12:30

Date Received: 06/18/18 11:35

Lab Sample ID: 280-111098-8

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)	4700		250	100	ug/L	-		06/30/18 18:49	10
-C6-C10									
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	115	X	82 - 110					06/30/18 18:49	10

## Method: 8015B - Diesel Range Organics (DRO) (GC)

Client Sample ID: MW-01-061618

Date Collected: 06/16/18 10:00

Date Received: 06/18/18 11:35

Lab Sample ID: 280-111098-1

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	490		9.6	1.3	mg/L	-	06/22/18 10:06	07/03/18 14:38	4
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	231	X D	50 - 115				06/22/18 10:06	07/03/18 14:38	4

Client Sample ID: MW-02-061618

Date Collected: 06/16/18 09:35

Date Received: 06/18/18 11:35

Lab Sample ID: 280-111098-2

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	0.42		0.24	0.031	mg/L	-	06/22/18 10:06	07/03/18 15:02	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	97		50 - 115				06/22/18 10:06	07/03/18 15:02	1

Client Sample ID: MW-03-061618

Date Collected: 06/16/18 12:10

Date Received: 06/18/18 11:35

Lab Sample ID: 280-111098-3

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	0.60		0.24	0.031	mg/L	-	06/22/18 10:06	07/03/18 15:27	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	111		50 - 115				06/22/18 10:06	07/03/18 15:27	1

TestAmerica Denver

# Client Sample Results

Client: Stantec Consulting Corp.  
Project/Site: Chevron Rangely, CO CS-47

TestAmerica Job ID: 280-111098-1

## Method: 8015B - Diesel Range Organics (DRO) (GC)

Client Sample ID: MW-04-061618

Date Collected: 06/16/18 11:25

Date Received: 06/18/18 11:35

Lab Sample ID: 280-111098-4

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	0.16	J	0.24	0.031	mg/L	—	06/22/18 10:06	07/03/18 15:52	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	91		50 - 115				06/22/18 10:06	07/03/18 15:52	1

Client Sample ID: MW-05-061618

Date Collected: 06/16/18 11:00

Date Received: 06/18/18 11:35

Lab Sample ID: 280-111098-5

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	0.094	J	0.24	0.031	mg/L	—	06/22/18 10:06	07/03/18 16:16	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	97		50 - 115				06/22/18 10:06	07/03/18 16:16	1

Client Sample ID: MW-06-061618

Date Collected: 06/16/18 10:35

Date Received: 06/18/18 11:35

Lab Sample ID: 280-111098-6

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	0.16	J	0.27	0.035	mg/L	—	06/22/18 08:06	07/06/18 17:42	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	105		50 - 115				06/22/18 08:06	07/06/18 17:42	1

Client Sample ID: TW-01-061618

Date Collected: 06/16/18 09:10

Date Received: 06/18/18 11:35

Lab Sample ID: 280-111098-7

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	0.18	J	0.24	0.031	mg/L	—	06/22/18 08:06	07/06/18 18:07	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	103		50 - 115				06/22/18 08:06	07/06/18 18:07	1

Client Sample ID: DUP-01-061618

Date Collected: 06/16/18 12:30

Date Received: 06/18/18 11:35

Lab Sample ID: 280-111098-8

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	960		25	3.2	mg/L	—	06/22/18 08:06	07/06/18 18:32	10
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	0	X D	50 - 115				06/22/18 08:06	07/06/18 18:32	10

## General Chemistry

Client Sample ID: MW-01-061618

Date Collected: 06/16/18 10:00

Date Received: 06/18/18 11:35

Lab Sample ID: 280-111098-1

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	870		30	2.5	mg/L	—		07/03/18 16:52	10
Sulfate	910		50	2.3	mg/L	—		07/03/18 16:52	10

TestAmerica Denver

# Client Sample Results

Client: Stantec Consulting Corp.  
Project/Site: Chevron Rangely, CO CS-47

TestAmerica Job ID: 280-111098-1

## General Chemistry

Client Sample ID: MW-02-061618

Date Collected: 06/16/18 09:35

Date Received: 06/18/18 11:35

Lab Sample ID: 280-111098-2

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	260		15	1.3	mg/L			07/03/18 17:37	5
Sulfate	1100		100	4.6	mg/L			07/03/18 18:43	20

Client Sample ID: MW-03-061618

Date Collected: 06/16/18 12:10

Date Received: 06/18/18 11:35

Lab Sample ID: 280-111098-3

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	490		15	1.3	mg/L			07/03/18 19:05	5
Sulfate	1500		100	4.6	mg/L			07/03/18 19:28	20

Client Sample ID: MW-04-061618

Date Collected: 06/16/18 11:25

Date Received: 06/18/18 11:35

Lab Sample ID: 280-111098-4

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	530		15	1.3	mg/L			07/03/18 19:50	5
Sulfate	1500		100	4.6	mg/L			07/03/18 20:12	20

Client Sample ID: MW-05-061618

Date Collected: 06/16/18 11:00

Date Received: 06/18/18 11:35

Lab Sample ID: 280-111098-5

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	490		15	1.3	mg/L			07/03/18 20:34	5
Sulfate	1500		100	4.6	mg/L			07/03/18 20:57	20

Client Sample ID: MW-06-061618

Date Collected: 06/16/18 10:35

Date Received: 06/18/18 11:35

Lab Sample ID: 280-111098-6

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	870		15	1.3	mg/L			07/03/18 21:19	5
Sulfate	1900		100	4.6	mg/L			07/03/18 21:41	20

Client Sample ID: TW-01-061618

Date Collected: 06/16/18 09:10

Date Received: 06/18/18 11:35

Lab Sample ID: 280-111098-7

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	320		15	1.3	mg/L			07/03/18 23:10	5
Sulfate	1300	B	50	2.3	mg/L			07/05/18 20:10	10

Client Sample ID: DUP-01-061618

Date Collected: 06/16/18 12:30

Date Received: 06/18/18 11:35

Lab Sample ID: 280-111098-8

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	840		30	2.5	mg/L			07/03/18 23:32	10
Sulfate	1100		50	2.3	mg/L			07/03/18 23:32	10

TestAmerica Denver



# Surrogate Summary

Client: Stantec Consulting Corp.  
Project/Site: Chevron Rangely, CO CS-47

TestAmerica Job ID: 280-111098-1

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

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		DCA (70-127)	TOL (80-125)	BFB (78-120)	DBFM (77-120)
280-111098-1	MW-01-061618	100	96	92	99
280-111098-2	MW-02-061618	95	99	88	95
280-111098-3	MW-03-061618	91	92	84	92
280-111098-4	MW-04-061618	101	104	94	102
280-111098-5	MW-05-061618	100	97	90	98
280-111098-6	MW-06-061618	95	94	88	95
280-111098-7	TW-01-061618	166 X	147 X	131 X	159 X
280-111098-8	DUP-01-061618	103	99	92	104
280-111098-9	TRIP BLANK	125	87	88	106
LCS 280-420465/4	Lab Control Sample	98	99	94	102
LCSD 280-420465/5	Lab Control Sample Dup	104	98	88	98
MB 280-420465/6	Method Blank	93	95	89	98

### Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)  
TOL = Toluene-d8 (Surr)  
BFB = 4-Bromofluorobenzene (Surr)  
DBFM = Dibromofluoromethane (Surr)

## Method: 8015D - Gasoline Range Organics (GRO) (GC)

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		TFT1 (82-110)			
280-111098-1	MW-01-061618	98			
280-111098-1 MS	MW-01-061618	92			
280-111098-1 MSD	MW-01-061618	94			
280-111098-2	MW-02-061618	101			
280-111098-3	MW-03-061618	98			
280-111098-4	MW-04-061618	90			
280-111098-5	MW-05-061618	92			
280-111098-6	MW-06-061618	99			
280-111098-7	TW-01-061618	107			
280-111098-8	DUP-01-061618	115 X			
LCS 280-420415/3	Lab Control Sample	92			
LCS 280-420592/3	Lab Control Sample	80 X			
LCS 280-420743/3	Lab Control Sample	89			
MB 280-420415/4	Method Blank	97			
MB 280-420592/4	Method Blank	85			
MB 280-420743/4	Method Blank	93			

### Surrogate Legend

TFT = a,a,a-Trifluorotoluene

TestAmerica Denver

# Surrogate Summary

Client: Stantec Consulting Corp.  
Project/Site: Chevron Rangely, CO CS-47

TestAmerica Job ID: 280-111098-1

## Method: 8015B - Diesel Range Organics (DRO) (GC)

Matrix: Water

Prep Type: Total/NA

### Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	OTPH1 (50-115)
280-111098-1	MW-01-061618	231 X D
280-111098-2	MW-02-061618	97
280-111098-3	MW-03-061618	111
280-111098-4	MW-04-061618	91
280-111098-5	MW-05-061618	97
280-111098-6	MW-06-061618	105
280-111098-7	TW-01-061618	103
280-111098-8	DUP-01-061618	0 X D
LCS 280-419546/2-A	Lab Control Sample	100
LCS 280-419602/2-A	Lab Control Sample	106
LCSD 280-419546/3-A	Lab Control Sample Dup	111
LCSD 280-419602/3-A	Lab Control Sample Dup	106
MB 280-419546/1-A	Method Blank	109
MB 280-419602/1-A	Method Blank	100

#### Surrogate Legend

OTPH = o-Terphenyl

# QC Sample Results

Client: Stantec Consulting Corp.  
Project/Site: Chevron Rangely, CO CS-47

TestAmerica Job ID: 280-111098-1

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

Lab Sample ID: MB 280-420465/6

Matrix: Water

Analysis Batch: 420465

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	0.16	ug/L			06/28/18 23:04	1
Ethylbenzene	ND		1.0	0.16	ug/L			06/28/18 23:04	1
Toluene	ND		1.0	0.17	ug/L			06/28/18 23:04	1
m-Xylene & p-Xylene	ND		2.0	0.34	ug/L			06/28/18 23:04	1
o-Xylene	ND		1.0	0.19	ug/L			06/28/18 23:04	1
Xylenes, Total	ND		2.0	0.19	ug/L			06/28/18 23:04	1
Methyl tert-butyl ether	ND		5.0	0.25	ug/L			06/28/18 23:04	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	93		70 - 127		06/28/18 23:04	1
Toluene-d8 (Surr)	95		80 - 125		06/28/18 23:04	1
4-Bromofluorobenzene (Surr)	89		78 - 120		06/28/18 23:04	1
Dibromofluoromethane (Surr)	98		77 - 120		06/28/18 23:04	1

Lab Sample ID: LCS 280-420465/4

Matrix: Water

Analysis Batch: 420465

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	5.00	5.15		ug/L		103	65 - 135
Ethylbenzene	5.00	4.92		ug/L		98	65 - 135
Toluene	5.00	5.29		ug/L		106	65 - 135
m-Xylene & p-Xylene	5.00	4.77		ug/L		95	65 - 135
o-Xylene	5.00	4.79		ug/L		96	65 - 135
Xylenes, Total	10.0	9.56		ug/L		96	65 - 135
Methyl tert-butyl ether	5.00	5.35		ug/L		107	54 - 135

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	98		70 - 127
Toluene-d8 (Surr)	99		80 - 125
4-Bromofluorobenzene (Surr)	94		78 - 120
Dibromofluoromethane (Surr)	102		77 - 120

Lab Sample ID: LCSD 280-420465/5

Matrix: Water

Analysis Batch: 420465

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	5.00	4.93		ug/L		99	65 - 135	5	20
Ethylbenzene	5.00	4.58		ug/L		92	65 - 135	7	20
Toluene	5.00	4.74		ug/L		95	65 - 135	11	20
m-Xylene & p-Xylene	5.00	4.63		ug/L		93	65 - 135	3	20
o-Xylene	5.00	4.48		ug/L		90	65 - 135	7	20
Xylenes, Total	10.0	9.11		ug/L		91	65 - 135	5	20
Methyl tert-butyl ether	5.00	4.81	J	ug/L		96	54 - 135	11	21

TestAmerica Denver



# QC Sample Results

Client: Stantec Consulting Corp.  
Project/Site: Chevron Rangely, CO CS-47

TestAmerica Job ID: 280-111098-1

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

Lab Sample ID: LCSD 280-420465/5

Matrix: Water

Analysis Batch: 420465

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	104		70 - 127
Toluene-d8 (Surr)	98		80 - 125
4-Bromofluorobenzene (Surr)	88		78 - 120
Dibromofluoromethane (Surr)	98		77 - 120

## Method: 8015D - Gasoline Range Organics (GRO) (GC)

Lab Sample ID: MB 280-420415/4

Matrix: Water

Analysis Batch: 420415

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C6-C10	ND		25	10	ug/L	-		06/29/18 01:59	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	97		82 - 110		06/29/18 01:59	1

Lab Sample ID: LCS 280-420415/3

Matrix: Water

Analysis Batch: 420415

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO) -C6-C10	101	90.0		ug/L	-	89	79 - 149

Surrogate	LCS %Recovery	LCS Qualifier	Limits
a,a,a-Trifluorotoluene	92		82 - 110

Lab Sample ID: MB 280-420592/4

Matrix: Water

Analysis Batch: 420592

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C6-C10	ND		25	10	ug/L	-		06/29/18 14:52	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	85		82 - 110		06/29/18 14:52	1

Lab Sample ID: LCS 280-420592/3

Matrix: Water

Analysis Batch: 420592

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO) -C6-C10	101	81.0		ug/L	-	80	79 - 149

TestAmerica Denver

# QC Sample Results

Client: Stantec Consulting Corp.  
Project/Site: Chevron Rangely, CO CS-47

TestAmerica Job ID: 280-111098-1

## Method: 8015D - Gasoline Range Organics (GRO) (GC) (Continued)

Lab Sample ID: LCS 280-420592/3

Matrix: Water

Analysis Batch: 420592

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Surrogate	LCS %Recovery	LCS Qualifier	Limits
a,a,a-Trifluorotoluene	80	X	82 - 110

Lab Sample ID: 280-111098-1 MS

Matrix: Water

Analysis Batch: 420592

Client Sample ID: MW-01-061618

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO) -C6-C10	1100	F2 F1	1010	8100	F1	ug/L	-	698	79 - 149
Surrogate	MS %Recovery	MS Qualifier	Limits						
a,a,a-Trifluorotoluene	92		82 - 110						

Lab Sample ID: 280-111098-1 MSD

Matrix: Water

Analysis Batch: 420592

Client Sample ID: MW-01-061618

Prep Type: Total/NA

Analysis Data: 420002											
Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO) -C6-C10	1100	F2 F1	1010	4450	F1 F2	ug/L	-	336	79 - 149	58	27
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
a,a,a-Trifluorotoluene	94		82 - 110								

Lab Sample ID: MB 280-420743/4

Matrix: Water

Analysis Batch: 420743

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Gasoline Range Organics (GRO) -C6-C10	ND		25	10	ug/L	-		06/30/18 17:20	1
Surrogate	MB	MB	Limits				Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier							
a,a,a-Trifluorotoluene	93		82 - 110					06/30/18 17:20	1

Lab Sample ID: LCS 280-420743/3

Matrix: Water

Analysis Batch: 420743

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

			Spike	LCS	LCS				%Rec.		
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits		
Gasoline Range Organics (GRO) -C6-C10			101	81.6		ug/L	-	81	79 - 149		
Surrogate	LCS %Recovery	LCS Qualifier	Limits								
a,a,a-Trifluorotoluene	89		82 - 110								

TestAmerica Denver

# QC Sample Results

Client: Stantec Consulting Corp.  
Project/Site: Chevron Rangely, CO CS-47

TestAmerica Job ID: 280-111098-1

## Method: 8015B - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 280-419546/1-A

Matrix: Water

Analysis Batch: 421321

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 419546

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		0.25	0.033	mg/L	-	06/22/18 08:06	07/06/18 15:38	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	109		50 - 115				06/22/18 08:06	07/06/18 15:38	1

Lab Sample ID: LCS 280-419546/2-A

Matrix: Water

Analysis Batch: 421321

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 419546

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits		
Diesel Range Organics [C10-C28]	2.00	1.83		mg/L	-	91	54 - 115		
Surrogate	LCS %Recovery	LCS Qualifier	Limits						
o-Terphenyl	100		50 - 115						

Lab Sample ID: LCSD 280-419546/3-A

Matrix: Water

Analysis Batch: 421321

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 419546

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Diesel Range Organics [C10-C28]	2.00	2.00		mg/L	-	100	54 - 115	9	31
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
o-Terphenyl	111		50 - 115						

Lab Sample ID: MB 280-419602/1-A

Matrix: Water

Analysis Batch: 420544

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 419602

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		0.25	0.033	mg/L	-	06/22/18 10:06	06/29/18 13:36	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	100		50 - 115				06/22/18 10:06	06/29/18 13:36	1

Lab Sample ID: LCS 280-419602/2-A

Matrix: Water

Analysis Batch: 420544

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 419602

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits		
Diesel Range Organics [C10-C28]	2.00	1.82		mg/L	-	91	54 - 115		
Surrogate	LCS %Recovery	LCS Qualifier	Limits						
o-Terphenyl	106		50 - 115						

TestAmerica Denver



# QC Sample Results

Client: Stantec Consulting Corp.  
Project/Site: Chevron Rangely, CO CS-47

TestAmerica Job ID: 280-111098-1

## Method: 8015B - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCSD 280-419602/3-A

Matrix: Water

Analysis Batch: 420544

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 419602

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]	2.00	1.75		mg/L		87	54 - 115	4	31
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
o-Terphenyl	106		50 - 115						

## Method: 9056A - Anions, Ion Chromatography

Lab Sample ID: MB 280-420968/6

Matrix: Water

Analysis Batch: 420968

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		3.0	0.25	mg/L			07/03/18 10:58	1
Sulfate	ND		5.0	0.23	mg/L			07/03/18 10:58	1

Lab Sample ID: LCS 280-420968/4

Matrix: Water

Analysis Batch: 420968

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride	100	97.8		mg/L		98	90 - 110		
Sulfate	100	95.3		mg/L		95	90 - 110		

Lab Sample ID: LCSD 280-420968/5

Matrix: Water

Analysis Batch: 420968

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	100	97.7		mg/L		98	90 - 110	0	10
Sulfate	100	95.3		mg/L		95	90 - 110	0	10

Lab Sample ID: MRL 280-420968/3

Matrix: Water

Analysis Batch: 420968

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride	2.50	2.51	J	mg/L		100	50 - 150		
Sulfate	2.50	2.15	J	mg/L		86	50 - 150		

Lab Sample ID: MB 280-421172/6

Matrix: Water

Analysis Batch: 421172

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	0.391	J	5.0	0.23	mg/L			07/05/18 14:25	1

TestAmerica Denver

# QC Sample Results

Client: Stantec Consulting Corp.  
Project/Site: Chevron Rangely, CO CS-47

TestAmerica Job ID: 280-111098-1

## Method: 9056A - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 280-421172/4

Matrix: Water

Analysis Batch: 421172

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	100	99.7		mg/L		100	90 - 110

Lab Sample ID: LCSD 280-421172/5

Matrix: Water

Analysis Batch: 421172

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Sulfate	100	99.9		mg/L		100	90 - 110	0	10

Lab Sample ID: MRL 280-421172/3

Matrix: Water

Analysis Batch: 421172

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	2.50	2.47	J	mg/L		99	50 - 150

# QC Association Summary

Client: Stantec Consulting Corp.  
Project/Site: Chevron Rangely, CO CS-47

TestAmerica Job ID: 280-111098-1

## GC/MS VOA

### Analysis Batch: 420465

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-111098-1	MW-01-061618	Total/NA	Water	8260B	
280-111098-2	MW-02-061618	Total/NA	Water	8260B	
280-111098-3	MW-03-061618	Total/NA	Water	8260B	
280-111098-4	MW-04-061618	Total/NA	Water	8260B	
280-111098-5	MW-05-061618	Total/NA	Water	8260B	
280-111098-6	MW-06-061618	Total/NA	Water	8260B	
280-111098-7	TW-01-061618	Total/NA	Water	8260B	
280-111098-8	DUP-01-061618	Total/NA	Water	8260B	
280-111098-9	TRIP BLANK	Total/NA	Water	8260B	
MB 280-420465/6	Method Blank	Total/NA	Water	8260B	
LCS 280-420465/4	Lab Control Sample	Total/NA	Water	8260B	
LCSD 280-420465/5	Lab Control Sample Dup	Total/NA	Water	8260B	

## GC VOA

### Analysis Batch: 420415

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-111098-2	MW-02-061618	Total/NA	Water	8015D	
280-111098-3	MW-03-061618	Total/NA	Water	8015D	
280-111098-4	MW-04-061618	Total/NA	Water	8015D	
280-111098-5	MW-05-061618	Total/NA	Water	8015D	
MB 280-420415/4	Method Blank	Total/NA	Water	8015D	
LCS 280-420415/3	Lab Control Sample	Total/NA	Water	8015D	

### Analysis Batch: 420592

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-111098-1	MW-01-061618	Total/NA	Water	8015D	
280-111098-6	MW-06-061618	Total/NA	Water	8015D	
280-111098-7	TW-01-061618	Total/NA	Water	8015D	
MB 280-420592/4	Method Blank	Total/NA	Water	8015D	
LCS 280-420592/3	Lab Control Sample	Total/NA	Water	8015D	
280-111098-1 MS	MW-01-061618	Total/NA	Water	8015D	
280-111098-1 MSD	MW-01-061618	Total/NA	Water	8015D	

### Analysis Batch: 420743

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-111098-8	DUP-01-061618	Total/NA	Water	8015D	
MB 280-420743/4	Method Blank	Total/NA	Water	8015D	
LCS 280-420743/3	Lab Control Sample	Total/NA	Water	8015D	

## GC Semi VOA

### Prep Batch: 419546

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-111098-6	MW-06-061618	Total/NA	Water	3510C	
280-111098-7	TW-01-061618	Total/NA	Water	3510C	
280-111098-8	DUP-01-061618	Total/NA	Water	3510C	
MB 280-419546/1-A	Method Blank	Total/NA	Water	3510C	
LCS 280-419546/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 280-419546/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	

TestAmerica Denver



# QC Association Summary

Client: Stantec Consulting Corp.  
Project/Site: Chevron Rangely, CO CS-47

TestAmerica Job ID: 280-111098-1

## GC Semi VOA (Continued)

### Prep Batch: 419602

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-111098-1	MW-01-061618	Total/NA	Water	3510C	
280-111098-2	MW-02-061618	Total/NA	Water	3510C	
280-111098-3	MW-03-061618	Total/NA	Water	3510C	
280-111098-4	MW-04-061618	Total/NA	Water	3510C	
280-111098-5	MW-05-061618	Total/NA	Water	3510C	
MB 280-419602/1-A	Method Blank	Total/NA	Water	3510C	
LCS 280-419602/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 280-419602/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	

### Analysis Batch: 420544

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 280-419602/1-A	Method Blank	Total/NA	Water	8015B	419602
LCS 280-419602/2-A	Lab Control Sample	Total/NA	Water	8015B	419602
LCSD 280-419602/3-A	Lab Control Sample Dup	Total/NA	Water	8015B	419602

### Analysis Batch: 420991

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-111098-1	MW-01-061618	Total/NA	Water	8015B	419602
280-111098-2	MW-02-061618	Total/NA	Water	8015B	419602
280-111098-3	MW-03-061618	Total/NA	Water	8015B	419602
280-111098-4	MW-04-061618	Total/NA	Water	8015B	419602
280-111098-5	MW-05-061618	Total/NA	Water	8015B	419602

### Analysis Batch: 421321

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-111098-6	MW-06-061618	Total/NA	Water	8015B	419546
280-111098-7	TW-01-061618	Total/NA	Water	8015B	419546
280-111098-8	DUP-01-061618	Total/NA	Water	8015B	419546
MB 280-419546/1-A	Method Blank	Total/NA	Water	8015B	419546
LCS 280-419546/2-A	Lab Control Sample	Total/NA	Water	8015B	419546
LCSD 280-419546/3-A	Lab Control Sample Dup	Total/NA	Water	8015B	419546

## General Chemistry

### Analysis Batch: 420968

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-111098-1	MW-01-061618	Total/NA	Water	9056A	
280-111098-2	MW-02-061618	Total/NA	Water	9056A	
280-111098-2	MW-02-061618	Total/NA	Water	9056A	
280-111098-3	MW-03-061618	Total/NA	Water	9056A	
280-111098-3	MW-03-061618	Total/NA	Water	9056A	
280-111098-4	MW-04-061618	Total/NA	Water	9056A	
280-111098-4	MW-04-061618	Total/NA	Water	9056A	
280-111098-5	MW-05-061618	Total/NA	Water	9056A	
280-111098-5	MW-05-061618	Total/NA	Water	9056A	
280-111098-6	MW-06-061618	Total/NA	Water	9056A	
280-111098-6	MW-06-061618	Total/NA	Water	9056A	
280-111098-7	TW-01-061618	Total/NA	Water	9056A	
280-111098-8	DUP-01-061618	Total/NA	Water	9056A	
MB 280-420968/6	Method Blank	Total/NA	Water	9056A	

TestAmerica Denver

## QC Association Summary

Client: Stantec Consulting Corp.  
Project/Site: Chevron Rangely, CO CS-47

TestAmerica Job ID: 280-111098-1

### General Chemistry (Continued)

#### Analysis Batch: 420968 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 280-420968/4	Lab Control Sample	Total/NA	Water	9056A	
LCSD 280-420968/5	Lab Control Sample Dup	Total/NA	Water	9056A	
MRL 280-420968/3	Lab Control Sample	Total/NA	Water	9056A	

#### Analysis Batch: 421172

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-111098-7	TW-01-061618	Total/NA	Water	9056A	
MB 280-421172/6	Method Blank	Total/NA	Water	9056A	
LCS 280-421172/4	Lab Control Sample	Total/NA	Water	9056A	
LCSD 280-421172/5	Lab Control Sample Dup	Total/NA	Water	9056A	
MRL 280-421172/3	Lab Control Sample	Total/NA	Water	9056A	

# Lab Chronicle

Client: Stantec Consulting Corp.  
Project/Site: Chevron Rangely, CO CS-47

TestAmerica Job ID: 280-111098-1

**Client Sample ID: MW-01-061618**

**Date Collected: 06/16/18 10:00**

**Date Received: 06/18/18 11:35**

**Lab Sample ID: 280-111098-1**

**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		200	20 mL	20 mL	420465	06/29/18 00:26	JNL	TAL DEN
Total/NA	Analysis	8015D		10	5 mL	5 mL	420592	06/29/18 19:50	GPM	TAL DEN
Total/NA	Prep	3510C			1037.4 mL	10 mL	419602	06/22/18 10:06	AJE	TAL DEN
Total/NA	Analysis	8015B		4			420991	07/03/18 14:38	KI	TAL DEN
Total/NA	Analysis	9056A		10	5 mL	5 mL	420968	07/03/18 16:52	CCJ	TAL DEN

**Client Sample ID: MW-02-061618**

**Date Collected: 06/16/18 09:35**

**Date Received: 06/18/18 11:35**

**Lab Sample ID: 280-111098-2**

**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	20 mL	20 mL	420465	06/29/18 05:37	JNL	TAL DEN
Total/NA	Analysis	8015D		1	5 mL	5 mL	420415	06/29/18 02:47	GPM	TAL DEN
Total/NA	Prep	3510C			1035.9 mL	1 mL	419602	06/22/18 10:06	AJE	TAL DEN
Total/NA	Analysis	8015B		1			420991	07/03/18 15:02	KI	TAL DEN
Total/NA	Analysis	9056A		5	5 mL	5 mL	420968	07/03/18 17:37	CCJ	TAL DEN
Total/NA	Analysis	9056A		20	5 mL	5 mL	420968	07/03/18 18:43	CCJ	TAL DEN

**Client Sample ID: MW-03-061618**

**Date Collected: 06/16/18 12:10**

**Date Received: 06/18/18 11:35**

**Lab Sample ID: 280-111098-3**

**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	20 mL	20 mL	420465	06/29/18 05:57	JNL	TAL DEN
Total/NA	Analysis	8015D		1	5 mL	5 mL	420415	06/29/18 03:11	GPM	TAL DEN
Total/NA	Prep	3510C			1060.2 mL	1 mL	419602	06/22/18 10:06	AJE	TAL DEN
Total/NA	Analysis	8015B		1			420991	07/03/18 15:27	KI	TAL DEN
Total/NA	Analysis	9056A		5	5 mL	5 mL	420968	07/03/18 19:05	CCJ	TAL DEN
Total/NA	Analysis	9056A		20	5 mL	5 mL	420968	07/03/18 19:28	CCJ	TAL DEN

**Client Sample ID: MW-04-061618**

**Date Collected: 06/16/18 11:25**

**Date Received: 06/18/18 11:35**

**Lab Sample ID: 280-111098-4**

**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	20 mL	20 mL	420465	06/29/18 06:18	JNL	TAL DEN
Total/NA	Analysis	8015D		1	5 mL	5 mL	420415	06/29/18 03:35	GPM	TAL DEN
Total/NA	Prep	3510C			1054.5 mL	1 mL	419602	06/22/18 10:06	AJE	TAL DEN
Total/NA	Analysis	8015B		1			420991	07/03/18 15:52	KI	TAL DEN
Total/NA	Analysis	9056A		5	5 mL	5 mL	420968	07/03/18 19:50	CCJ	TAL DEN
Total/NA	Analysis	9056A		20	5 mL	5 mL	420968	07/03/18 20:12	CCJ	TAL DEN

TestAmerica Denver



# Lab Chronicle

Client: Stantec Consulting Corp.  
Project/Site: Chevron Rangely, CO CS-47

TestAmerica Job ID: 280-111098-1

**Client Sample ID: MW-05-061618**

**Lab Sample ID: 280-111098-5**

**Date Collected: 06/16/18 11:00**

**Matrix: Water**

**Date Received: 06/18/18 11:35**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	20 mL	20 mL	420465	06/29/18 06:38	JNL	TAL DEN
Total/NA	Analysis	8015D		1	5 mL	5 mL	420415	06/29/18 03:59	GPM	TAL DEN
Total/NA	Prep	3510C			1049.8 mL	1 mL	419602	06/22/18 10:06	AJE	TAL DEN
Total/NA	Analysis	8015B		1			420991	07/03/18 16:16	KI	TAL DEN
Total/NA	Analysis	9056A		5	5 mL	5 mL	420968	07/03/18 20:34	CCJ	TAL DEN
Total/NA	Analysis	9056A		20	5 mL	5 mL	420968	07/03/18 20:57	CCJ	TAL DEN

**Client Sample ID: MW-06-061618**

**Lab Sample ID: 280-111098-6**

**Date Collected: 06/16/18 10:35**

**Matrix: Water**

**Date Received: 06/18/18 11:35**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	20 mL	20 mL	420465	06/29/18 06:58	JNL	TAL DEN
Total/NA	Analysis	8015D		1	5 mL	5 mL	420592	06/30/18 02:14	GPM	TAL DEN
Total/NA	Prep	3510C			932 mL	1 mL	419546	06/22/18 08:06	JT	TAL DEN
Total/NA	Analysis	8015B		1			421321	07/06/18 17:42	KI	TAL DEN
Total/NA	Analysis	9056A		5	5 mL	5 mL	420968	07/03/18 21:19	CCJ	TAL DEN
Total/NA	Analysis	9056A		20	5 mL	5 mL	420968	07/03/18 21:41	CCJ	TAL DEN

**Client Sample ID: TW-01-061618**

**Lab Sample ID: 280-111098-7**

**Date Collected: 06/16/18 09:10**

**Matrix: Water**

**Date Received: 06/18/18 11:35**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	20 mL	20 mL	420465	06/29/18 07:19	JNL	TAL DEN
Total/NA	Analysis	8015D		1	5 mL	5 mL	420592	06/30/18 02:38	GPM	TAL DEN
Total/NA	Prep	3510C			1046.3 mL	1 mL	419546	06/22/18 08:06	JT	TAL DEN
Total/NA	Analysis	8015B		1			421321	07/06/18 18:07	KI	TAL DEN
Total/NA	Analysis	9056A		10	5 mL	5 mL	421172	07/05/18 20:10	CCJ	TAL DEN
Total/NA	Analysis	9056A		5	5 mL	5 mL	420968	07/03/18 23:10	CCJ	TAL DEN

**Client Sample ID: DUP-01-061618**

**Lab Sample ID: 280-111098-8**

**Date Collected: 06/16/18 12:30**

**Matrix: Water**

**Date Received: 06/18/18 11:35**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		200	20 mL	20 mL	420465	06/29/18 07:39	JNL	TAL DEN
Total/NA	Analysis	8015D		10	5 mL	5 mL	420743	06/30/18 18:49	GPM	TAL DEN
Total/NA	Prep	3510C			1005.6 mL	10 mL	419546	06/22/18 08:06	JT	TAL DEN
Total/NA	Analysis	8015B		10			421321	07/06/18 18:32	KI	TAL DEN
Total/NA	Analysis	9056A		10	5 mL	5 mL	420968	07/03/18 23:32	CCJ	TAL DEN

TestAmerica Denver

# Lab Chronicle

Client: Stantec Consulting Corp.  
Project/Site: Chevron Rangely, CO CS-47

TestAmerica Job ID: 280-111098-1

**Client Sample ID: TRIP BLANK**

**Lab Sample ID: 280-111098-9**

**Date Collected: 06/16/18 00:00**

**Matrix: Water**

**Date Received: 06/18/18 11:35**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	20 mL	20 mL	420465	06/29/18 08:00	JNL	TAL DEN

## Laboratory References:

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

# Accreditation/Certification Summary

Client: Stantec Consulting Corp.  
Project/Site: Chevron Rangely, CO CS-47

TestAmerica Job ID: 280-111098-1

## Laboratory: TestAmerica Denver

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

Authority	Program	EPA Region	Identification Number	Expiration Date
A2LA	DoD ELAP		2907.01	10-31-19
A2LA	ISO/IEC 17025		2907.01	10-31-19
Alabama	State Program	4	40730	09-30-12 *
Alaska (UST)	State Program	10	UST-30	01-08-19
Arizona	State Program	9	AZ0713	12-20-19
Arkansas DEQ	State Program	6	88-0687	06-01-19
California	State Program	9	2513	01-18-19
Connecticut	State Program	1	PH-0686	09-30-20
Florida	NELAP	4	E87667	06-30-19
Georgia	State Program	4	N/A	01-08-19 *
Illinois	NELAP	5	200017	04-30-19
Iowa	State Program	7	370	12-01-18 *
Kansas	NELAP	7	E-10166	04-30-19
Louisiana	NELAP	6	02096	06-30-19
Maine	State Program	1	CO0002	03-03-19
Minnesota	NELAP	5	8-999-405	12-31-19
Nevada	State Program	9	CO0026	07-31-19
New Hampshire	NELAP	1	205310	04-28-19
New Jersey	NELAP	2	CO004	06-30-19
New York	NELAP	2	11964	04-01-19
North Carolina (WW/SW)	State Program	4	358	12-31-19
North Dakota	State Program	8	R-034	01-08-19
Oklahoma	State Program	6	8614	08-31-19
Oregon	NELAP	10	4025	01-08-19
Pennsylvania	NELAP	3	68-00664	07-31-19
South Carolina	State Program	4	72002001	01-08-19
Texas	NELAP	6	T104704183-18-15	09-30-19
US Fish & Wildlife	Federal			07-31-19
USDA	Federal			03-26-21
Utah	NELAP	8	CO00026	07-31-19
Virginia	NELAP	3	460232	06-14-19
Washington	State Program	10	C583	08-03-19
West Virginia DEP	State Program	3	354	01-31-19
Wisconsin	State Program	5	999615430	08-31-19 *
Wyoming (UST)	A2LA	8	2907.01	10-31-19

\* Accreditation/Certification renewal pending - accreditation/certification considered valid.

TestAmerica Denver



# Chain of Custody Record

<b>Client Information</b> Client Contact: Christopher Beall Company: Stantec Consulting Corp. Address: 2000 South Colorado Blvd Suite 2-300 City: Denver State: CO, Zip: 80222 Phone: 970-214-1126(Tel) Email: christopher.beall@stantec.com Project Name: Chevron Rangely, CO CS-47 Site:		Lab PM: Ide, Jamie N E-Mail: jamie.ide@testamericainc.com Carrier Tracking Note(s):		COC No: 280-75683-24992.1 Page: Page 1 of 1 Job #:				
<b>Analysis Requested</b> Due Date Requested: TAT Requested (days): Standard PO #: Rangely CS-47 WO #: 28016570 Project #: 28016570 SOW#:		Preservation Codes: A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Other: M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP Dodecalhydrate U - Acetone V - MCAA W - pH 4-5 Z - other (specify)						
<b>Sample Identification</b> MW-01-061618 MW-02-061618 MW-03-061618 MW-04-061618 MW-05-061618 MW-06-061618 TW-01-061618 DUP-01-061618		Sample Date 6/16/18	Sample Time 1000 935 1210 1125 1100 1635 910 1230	Sample Type (C=Comp, G=grab) G G G G G G G G	Matrix (W=water, S=solid, O=oil, A=air) Water Water Water Water Water Water Water Water	Field Filtered Sample (Yes or No) Perform MS/MSD (Yes or No) 8260B - BTEX plus MTBE full spike 8015B - DRO - DRO, C10-C36 8015D - GRO - GRO, C8-C10 9056A - 28D - (MOD) Local Method	Total Number of containers 9	Special Instructions/Note: 280-111098 Chain of Custody
<b>Possible Hazard Identification</b> <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological Deliverable Requested: I, II, III, IV, Other (specify)		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For Months		Special Instructions/QC Requirements:				
<b>Empty Kit Relinquished by:</b> Relinquished by: [Signature] Relinquished by: [Signature] Relinquished by: [Signature]		Date/Time: 6/18/18 1135 Date/Time: 6/18/18 1135 Date/Time: 6/18/18 1135		Company: Stantec Company: Stantec Company: Stantec				
Custody Seal Intact: Δ Yes Δ No		Cooler Temperature(s) °C and Other Remarks: 2.9, 1.3, 1.8		Ver: 08/04/2016				

## Login Sample Receipt Checklist

Client: Stantec Consulting Corp.

Job Number: 280-111098-1

Login Number: 111098

List Number: 1

Creator: Rhoades, Joseph P

List Source: TestAmerica Denver

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

## ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Denver

4955 Yarrow Street

Arvada, CO 80002

Tel: (303)736-0100

TestAmerica Job ID: 280-114658-1

Client Project/Site: Chevron Rangely, CO CS-47

Revision: 1

For:

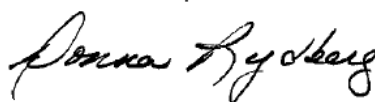
Stantec Consulting Corp.

2000 South Colorado Blvd

Suite 2-300

Denver, Colorado 80222

Attn: Christopher Beall



Authorized for release by:

1/4/2019 3:18:23 PM

Donna Rydberg, Senior Project Manager

(303)736-0192

[donna.rydberg@testamericainc.com](mailto:donna.rydberg@testamericainc.com)

Designee for

Jamie Ide, Project Manager I

(303)736-0126

[jamie.ide@testamericainc.com](mailto:jamie.ide@testamericainc.com)

### LINKS

Review your project  
results through

TotalAccess

Have a Question?



Visit us at:

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

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

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

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





# Table of Contents

Cover Page . . . . .	1
Table of Contents . . . . .	2
Definitions . . . . .	3
Case Narrative . . . . .	4
Detection Summary . . . . .	6
Method Summary . . . . .	8
Sample Summary . . . . .	9
Client Sample Results . . . . .	10
Surrogate Summary . . . . .	17
QC Sample Results . . . . .	19
QC Association . . . . .	23
Chronicle . . . . .	25
Certification Summary . . . . .	27
Chain of Custody . . . . .	28
Receipt Checklists . . . . .	29

## Definitions/Glossary

Client: Stantec Consulting Corp.  
Project/Site: Chevron Rangely, CO CS-47

TestAmerica Job ID: 280-114658-1

### Qualifiers

#### GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

#### GC VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

#### GC Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

#### General Chemistry

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

### Glossary

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

# Case Narrative

Client: Stantec Consulting Corp.  
Project/Site: Chevron Rangely, CO CS-47

TestAmerica Job ID: 280-114658-1

**Job ID: 280-114658-1**

**Laboratory: TestAmerica Denver**

## Narrative

### CASE NARRATIVE

**Client: Stantec Consulting Corp.**  
**Project: Chevron Rangely, CO CS-47**  
**Report Number: 280-114658-1**

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

#### **REVISED REPORT - 1/4/18**

The client contacted the laboratory and requested a change to how the DRO data was reported. Originally the data was reported using the extended range Diesel Range Organics (C10-C36). The client would like the data reported as Diesel Range Organics (C10-C28). The lab went back and reprocessed the data. No other changes were made.

#### **RECEIPT**

The samples were received on 9/21/2018 3:46 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 2 coolers at receipt time were 1.1° C and 1.1° C.

The container labels for the following sample did not match the information listed on the Chain-of-Custody (COC): MW-3-092118 (280-114658-2). The container labels list collection time "7:20", while the COC lists "7:40". The sample was logged per the collection time listed on the COC. The client was notified on 9/24/18.

#### **VOLATILE ORGANIC COMPOUNDS (GC-MS)**

Samples MW-2-092118 (280-114658-1), MW-3-092118 (280-114658-2), MW-4-092118 (280-114658-3), MW-5-092118 (280-114658-4), MW-6-092118 (280-114658-5), TW-1-092118 (280-114658-6), DUP-1-092118 (280-114658-7) and TRIP BLANK (280-114658-8) were analyzed for volatile organic compounds (GC-MS) in accordance with EPA SW-846 Method 8260B. The samples were analyzed on 10/03/2018.

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

#### **GASOLINE RANGE ORGANICS (GRO)**

Samples MW-2-092118 (280-114658-1), MW-3-092118 (280-114658-2), MW-4-092118 (280-114658-3), MW-5-092118 (280-114658-4), MW-6-092118 (280-114658-5), TW-1-092118 (280-114658-6) and DUP-1-092118 (280-114658-7) were analyzed for Gasoline Range Organics (GRO) in accordance with EPA SW-846 Method 8015D - GRO. The samples were analyzed on 09/24/2018 and 09/25/2018.

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

#### **DIESEL RANGE ORGANICS**

Samples MW-2-092118 (280-114658-1), MW-3-092118 (280-114658-2), MW-4-092118 (280-114658-3), MW-5-092118 (280-114658-4), MW-6-092118 (280-114658-5), TW-1-092118 (280-114658-6) and DUP-1-092118 (280-114658-7) were analyzed for Diesel Range Organics in accordance with EPA SW-846 Method 8015B - DRO. The samples were prepared on 09/24/2018 and analyzed on 09/26/2018.

The following sample(s) formed emulsions during the extraction procedure: TW-1-092118 (280-114658-6). The emulsions were broken up using a method of pouring back.

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



## Case Narrative

Client: Stantec Consulting Corp.  
Project/Site: Chevron Rangely, CO CS-47

TestAmerica Job ID: 280-114658-1

### Job ID: 280-114658-1 (Continued)

#### Laboratory: TestAmerica Denver (Continued)

##### ANIONS (28 DAYS)

Samples MW-2-092118 (280-114658-1), MW-3-092118 (280-114658-2), MW-4-092118 (280-114658-3), MW-5-092118 (280-114658-4), MW-6-092118 (280-114658-5), TW-1-092118 (280-114658-6) and DUP-1-092118 (280-114658-7) were analyzed for anions (28 days) in accordance with EPA SW-846 Method 9056A. The samples were analyzed on 09/27/2018.

Samples MW-2-092118 (280-114658-1)[50X], MW-3-092118 (280-114658-2)[50X], MW-4-092118 (280-114658-3)[50X], MW-5-092118 (280-114658-4)[5X], MW-5-092118 (280-114658-4)[50X], MW-6-092118 (280-114658-5)[5X], MW-6-092118 (280-114658-5)[50X], TW-1-092118 (280-114658-6)[2X], TW-1-092118 (280-114658-6)[20X] and DUP-1-092118 (280-114658-7)[50X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

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

# Detection Summary

Client: Stantec Consulting Corp.  
Project/Site: Chevron Rangely, CO CS-47

TestAmerica Job ID: 280-114658-1

## Client Sample ID: MW-2-092118

## Lab Sample ID: 280-114658-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
o-Xylene	0.42	J	1.0	0.19	ug/L	1		8260B	Total/NA
Xylenes, Total	0.42	J	2.0	0.19	ug/L	1		8260B	Total/NA
Diesel Range Organics [C10-C28]	0.46		0.25	0.032	mg/L	1		8015B	Total/NA
Chloride	450		150	13	mg/L	50		9056A	Total/NA
Sulfate	1600		250	12	mg/L	50		9056A	Total/NA

## Client Sample ID: MW-3-092118

## Lab Sample ID: 280-114658-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	0.42		0.28	0.037	mg/L	1		8015B	Total/NA
Chloride	530		150	13	mg/L	50		9056A	Total/NA
Sulfate	1600		250	12	mg/L	50		9056A	Total/NA

## Client Sample ID: MW-4-092118

## Lab Sample ID: 280-114658-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	0.39	J	1.0	0.16	ug/L	1		8260B	Total/NA
Toluene	0.22	J	1.0	0.17	ug/L	1		8260B	Total/NA
Gasoline Range Organics (GRO)	10	J	25	10	ug/L	1		8015D	Total/NA
-C6-C10									
Diesel Range Organics [C10-C28]	0.27	J	0.31	0.040	mg/L	1		8015B	Total/NA
Chloride	550		150	13	mg/L	50		9056A	Total/NA
Sulfate	1600		250	12	mg/L	50		9056A	Total/NA

## Client Sample ID: MW-5-092118

## Lab Sample ID: 280-114658-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	0.20	J	0.25	0.033	mg/L	1		8015B	Total/NA
Chloride	730		15	1.3	mg/L	5		9056A	Total/NA
Sulfate	1600		250	12	mg/L	50		9056A	Total/NA

## Client Sample ID: MW-6-092118

## Lab Sample ID: 280-114658-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	0.17	J	1.0	0.16	ug/L	1		8260B	Total/NA
Toluene	0.24	J	1.0	0.17	ug/L	1		8260B	Total/NA
o-Xylene	0.42	J	1.0	0.19	ug/L	1		8260B	Total/NA
Xylenes, Total	0.42	J	2.0	0.19	ug/L	1		8260B	Total/NA
Diesel Range Organics [C10-C28]	0.25		0.25	0.033	mg/L	1		8015B	Total/NA
Chloride	850		15	1.3	mg/L	5		9056A	Total/NA
Sulfate	2100		250	12	mg/L	50		9056A	Total/NA

## Client Sample ID: TW-1-092118

## Lab Sample ID: 280-114658-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Gasoline Range Organics (GRO)	17	J	25	10	ug/L	1		8015D	Total/NA
-C6-C10									
Diesel Range Organics [C10-C28]	0.37		0.29	0.038	mg/L	1		8015B	Total/NA
Chloride	320		6.0	0.51	mg/L	2		9056A	Total/NA
Sulfate	1200		100	4.6	mg/L	20		9056A	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Denver

## Detection Summary

Client: Stantec Consulting Corp.  
Project/Site: Chevron Rangely, CO CS-47

TestAmerica Job ID: 280-114658-1

### Client Sample ID: DUP-1-092118

### Lab Sample ID: 280-114658-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
o-Xylene	0.42	J	1.0	0.19	ug/L	1			8260B	Total/NA
Xylenes, Total	0.42	J	2.0	0.19	ug/L	1			8260B	Total/NA
Gasoline Range Organics (GRO)	11	J	25	10	ug/L	1			8015D	Total/NA
-C6-C10										
Diesel Range Organics [C10-C28]	0.38		0.24	0.032	mg/L	1			8015B	Total/NA
Chloride	450		150	13	mg/L	50			9056A	Total/NA
Sulfate	1600		250	12	mg/L	50			9056A	Total/NA

### Client Sample ID: TRIP BLANK

### Lab Sample ID: 280-114658-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
o-Xylene	0.41	J	1.0	0.19	ug/L	1			8260B	Total/NA
Xylenes, Total	0.41	J	2.0	0.19	ug/L	1			8260B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Denver



## Method Summary

Client: Stantec Consulting Corp.  
Project/Site: Chevron Rangely, CO CS-47

TestAmerica Job ID: 280-114658-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL DEN
8015D	Gasoline Range Organics (GRO) (GC)	SW846	TAL DEN
8015B	Diesel Range Organics (DRO) (GC)	SW846	TAL DEN
9056A	Anions, Ion Chromatography	SW846	TAL DEN
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	TAL DEN
5030B	Purge and Trap	SW846	TAL DEN

### Protocol References:

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

### Laboratory References:

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

# Sample Summary

Client: Stantec Consulting Corp.  
Project/Site: Chevron Rangely, CO CS-47

TestAmerica Job ID: 280-114658-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
280-114658-1	MW-2-092118	Water	09/21/18 10:20	09/21/18 15:46
280-114658-2	MW-3-092118	Water	09/21/18 07:40	09/21/18 15:46
280-114658-3	MW-4-092118	Water	09/21/18 08:20	09/21/18 15:46
280-114658-4	MW-5-092118	Water	09/21/18 09:00	09/21/18 15:46
280-114658-5	MW-6-092118	Water	09/21/18 07:00	09/21/18 15:46
280-114658-6	TW-1-092118	Water	09/21/18 09:40	09/21/18 15:46
280-114658-7	DUP-1-092118	Water	09/21/18 10:25	09/21/18 15:46
280-114658-8	TRIP BLANK	Water	09/21/18 07:00	09/21/18 15:46

# Client Sample Results

Client: Stantec Consulting Corp.  
Project/Site: Chevron Rangely, CO CS-47

TestAmerica Job ID: 280-114658-1

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

Client Sample ID: MW-2-092118

Date Collected: 09/21/18 10:20

Date Received: 09/21/18 15:46

Lab Sample ID: 280-114658-1

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	0.16	ug/L			10/03/18 16:18	1
Ethylbenzene	ND		1.0	0.16	ug/L			10/03/18 16:18	1
Toluene	ND		1.0	0.17	ug/L			10/03/18 16:18	1
m-Xylene & p-Xylene	ND		2.0	0.34	ug/L			10/03/18 16:18	1
o-Xylene	0.42	J	1.0	0.19	ug/L			10/03/18 16:18	1
Xylenes, Total	0.42	J	2.0	0.19	ug/L			10/03/18 16:18	1
Methyl tert-butyl ether	ND		5.0	0.25	ug/L			10/03/18 16:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	110		70 - 127		10/03/18 16:18	1
Toluene-d8 (Surr)	95		80 - 125		10/03/18 16:18	1
4-Bromofluorobenzene (Surr)	89		78 - 120		10/03/18 16:18	1
Dibromofluoromethane (Surr)	110		77 - 120		10/03/18 16:18	1

Client Sample ID: MW-3-092118

Date Collected: 09/21/18 07:40

Date Received: 09/21/18 15:46

Lab Sample ID: 280-114658-2

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	0.16	ug/L			10/03/18 16:39	1
Ethylbenzene	ND		1.0	0.16	ug/L			10/03/18 16:39	1
Toluene	ND		1.0	0.17	ug/L			10/03/18 16:39	1
m-Xylene & p-Xylene	ND		2.0	0.34	ug/L			10/03/18 16:39	1
o-Xylene	ND		1.0	0.19	ug/L			10/03/18 16:39	1
Xylenes, Total	ND		2.0	0.19	ug/L			10/03/18 16:39	1
Methyl tert-butyl ether	ND		5.0	0.25	ug/L			10/03/18 16:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	104		70 - 127		10/03/18 16:39	1
Toluene-d8 (Surr)	94		80 - 125		10/03/18 16:39	1
4-Bromofluorobenzene (Surr)	88		78 - 120		10/03/18 16:39	1
Dibromofluoromethane (Surr)	106		77 - 120		10/03/18 16:39	1

Client Sample ID: MW-4-092118

Date Collected: 09/21/18 08:20

Date Received: 09/21/18 15:46

Lab Sample ID: 280-114658-3

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.39	J	1.0	0.16	ug/L			10/03/18 17:00	1
Ethylbenzene	ND		1.0	0.16	ug/L			10/03/18 17:00	1
Toluene	0.22	J	1.0	0.17	ug/L			10/03/18 17:00	1
m-Xylene & p-Xylene	ND		2.0	0.34	ug/L			10/03/18 17:00	1
o-Xylene	ND		1.0	0.19	ug/L			10/03/18 17:00	1
Xylenes, Total	ND		2.0	0.19	ug/L			10/03/18 17:00	1
Methyl tert-butyl ether	ND		5.0	0.25	ug/L			10/03/18 17:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	106		70 - 127		10/03/18 17:00	1
Toluene-d8 (Surr)	95		80 - 125		10/03/18 17:00	1
4-Bromofluorobenzene (Surr)	90		78 - 120		10/03/18 17:00	1
Dibromofluoromethane (Surr)	105		77 - 120		10/03/18 17:00	1

TestAmerica Denver



# Client Sample Results

Client: Stantec Consulting Corp.  
Project/Site: Chevron Rangely, CO CS-47

TestAmerica Job ID: 280-114658-1

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

Client Sample ID: MW-5-092118

Date Collected: 09/21/18 09:00

Date Received: 09/21/18 15:46

Lab Sample ID: 280-114658-4

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	0.16	ug/L			10/03/18 17:21	1
Ethylbenzene	ND		1.0	0.16	ug/L			10/03/18 17:21	1
Toluene	ND		1.0	0.17	ug/L			10/03/18 17:21	1
m-Xylene & p-Xylene	ND		2.0	0.34	ug/L			10/03/18 17:21	1
o-Xylene	ND		1.0	0.19	ug/L			10/03/18 17:21	1
Xylenes, Total	ND		2.0	0.19	ug/L			10/03/18 17:21	1
Methyl tert-butyl ether	ND		5.0	0.25	ug/L			10/03/18 17:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	106		70 - 127		10/03/18 17:21	1
Toluene-d8 (Surr)	94		80 - 125		10/03/18 17:21	1
4-Bromofluorobenzene (Surr)	89		78 - 120		10/03/18 17:21	1
Dibromofluoromethane (Surr)	108		77 - 120		10/03/18 17:21	1

Client Sample ID: MW-6-092118

Date Collected: 09/21/18 07:00

Date Received: 09/21/18 15:46

Lab Sample ID: 280-114658-5

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.17	J	1.0	0.16	ug/L			10/03/18 17:42	1
Ethylbenzene	ND		1.0	0.16	ug/L			10/03/18 17:42	1
Toluene	0.24	J	1.0	0.17	ug/L			10/03/18 17:42	1
m-Xylene & p-Xylene	ND		2.0	0.34	ug/L			10/03/18 17:42	1
o-Xylene	0.42	J	1.0	0.19	ug/L			10/03/18 17:42	1
Xylenes, Total	0.42	J	2.0	0.19	ug/L			10/03/18 17:42	1
Methyl tert-butyl ether	ND		5.0	0.25	ug/L			10/03/18 17:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105		70 - 127		10/03/18 17:42	1
Toluene-d8 (Surr)	93		80 - 125		10/03/18 17:42	1
4-Bromofluorobenzene (Surr)	87		78 - 120		10/03/18 17:42	1
Dibromofluoromethane (Surr)	106		77 - 120		10/03/18 17:42	1

Client Sample ID: TW-1-092118

Date Collected: 09/21/18 09:40

Date Received: 09/21/18 15:46

Lab Sample ID: 280-114658-6

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	0.16	ug/L			10/03/18 18:03	1
Ethylbenzene	ND		1.0	0.16	ug/L			10/03/18 18:03	1
Toluene	ND		1.0	0.17	ug/L			10/03/18 18:03	1
m-Xylene & p-Xylene	ND		2.0	0.34	ug/L			10/03/18 18:03	1
o-Xylene	ND		1.0	0.19	ug/L			10/03/18 18:03	1
Xylenes, Total	ND		2.0	0.19	ug/L			10/03/18 18:03	1
Methyl tert-butyl ether	ND		5.0	0.25	ug/L			10/03/18 18:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	104		70 - 127		10/03/18 18:03	1
Toluene-d8 (Surr)	92		80 - 125		10/03/18 18:03	1
4-Bromofluorobenzene (Surr)	84		78 - 120		10/03/18 18:03	1
Dibromofluoromethane (Surr)	105		77 - 120		10/03/18 18:03	1

TestAmerica Denver

# Client Sample Results

Client: Stantec Consulting Corp.  
Project/Site: Chevron Rangely, CO CS-47

TestAmerica Job ID: 280-114658-1

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

Client Sample ID: DUP-1-092118

Date Collected: 09/21/18 10:25

Date Received: 09/21/18 15:46

Lab Sample ID: 280-114658-7

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	0.16	ug/L			10/03/18 18:24	1
Ethylbenzene	ND		1.0	0.16	ug/L			10/03/18 18:24	1
Toluene	ND		1.0	0.17	ug/L			10/03/18 18:24	1
m-Xylene & p-Xylene	ND		2.0	0.34	ug/L			10/03/18 18:24	1
<b>o-Xylene</b>	<b>0.42</b>	<b>J</b>	1.0	0.19	ug/L			10/03/18 18:24	1
<b>Xylenes, Total</b>	<b>0.42</b>	<b>J</b>	2.0	0.19	ug/L			10/03/18 18:24	1
Methyl tert-butyl ether	ND		5.0	0.25	ug/L			10/03/18 18:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	97		70 - 127		10/03/18 18:24	1
Toluene-d8 (Surr)	93		80 - 125		10/03/18 18:24	1
4-Bromofluorobenzene (Surr)	85		78 - 120		10/03/18 18:24	1
Dibromofluoromethane (Surr)	105		77 - 120		10/03/18 18:24	1

Client Sample ID: TRIP BLANK

Date Collected: 09/21/18 07:00

Date Received: 09/21/18 15:46

Lab Sample ID: 280-114658-8

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	0.16	ug/L			10/03/18 18:45	1
Ethylbenzene	ND		1.0	0.16	ug/L			10/03/18 18:45	1
Toluene	ND		1.0	0.17	ug/L			10/03/18 18:45	1
m-Xylene & p-Xylene	ND		2.0	0.34	ug/L			10/03/18 18:45	1
<b>o-Xylene</b>	<b>0.41</b>	<b>J</b>	1.0	0.19	ug/L			10/03/18 18:45	1
<b>Xylenes, Total</b>	<b>0.41</b>	<b>J</b>	2.0	0.19	ug/L			10/03/18 18:45	1
Methyl tert-butyl ether	ND		5.0	0.25	ug/L			10/03/18 18:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		70 - 127		10/03/18 18:45	1
Toluene-d8 (Surr)	95		80 - 125		10/03/18 18:45	1
4-Bromofluorobenzene (Surr)	85		78 - 120		10/03/18 18:45	1
Dibromofluoromethane (Surr)	106		77 - 120		10/03/18 18:45	1

## Method: 8015D - Gasoline Range Organics (GRO) (GC)

Client Sample ID: MW-2-092118

Date Collected: 09/21/18 10:20

Date Received: 09/21/18 15:46

Lab Sample ID: 280-114658-1

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)	ND		25	10	ug/L			09/24/18 22:42	1
-C6-C10									

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	102		82 - 110		09/24/18 22:42	1

Client Sample ID: MW-3-092118

Date Collected: 09/21/18 07:40

Date Received: 09/21/18 15:46

Lab Sample ID: 280-114658-2

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)	ND		25	10	ug/L			09/24/18 23:06	1
-C6-C10									

TestAmerica Denver

# Client Sample Results

Client: Stantec Consulting Corp.  
Project/Site: Chevron Rangely, CO CS-47

TestAmerica Job ID: 280-114658-1

## Method: 8015D - Gasoline Range Organics (GRO) (GC) (Continued)

Surrogate

a,a,a-Trifluorotoluene

%Recovery

102

Qualifier

Limits

82 - 110

Prepared

Analyzed

Dil Fac

09/24/18 23:06

1

Client Sample ID: MW-4-092118

Date Collected: 09/21/18 08:20

Date Received: 09/21/18 15:46

Lab Sample ID: 280-114658-3

Matrix: Water

Analyte

Gasoline Range Organics (GRO)  
-C6-C10

Result

10

Qualifier

J

RL

25

MDL

10

Unit

ug/L

D

-

Prepared

Analyzed

Dil Fac

09/24/18 23:31

1

Surrogate

a,a,a-Trifluorotoluene

%Recovery

89

Qualifier

Limits

82 - 110

Prepared

Analyzed

Dil Fac

09/24/18 23:31

1

Client Sample ID: MW-5-092118

Date Collected: 09/21/18 09:00

Date Received: 09/21/18 15:46

Lab Sample ID: 280-114658-4

Matrix: Water

Analyte

Gasoline Range Organics (GRO)  
-C6-C10

Result

ND

Qualifier

RL

25

MDL

10

Unit

ug/L

D

-

Prepared

Analyzed

Dil Fac

09/24/18 23:55

1

Surrogate

a,a,a-Trifluorotoluene

%Recovery

99

Qualifier

Limits

82 - 110

Prepared

Analyzed

Dil Fac

09/24/18 23:55

1

Client Sample ID: MW-6-092118

Date Collected: 09/21/18 07:00

Date Received: 09/21/18 15:46

Lab Sample ID: 280-114658-5

Matrix: Water

Analyte

Gasoline Range Organics (GRO)  
-C6-C10

Result

ND

Qualifier

RL

25

MDL

10

Unit

ug/L

D

-

Prepared

Analyzed

Dil Fac

09/25/18 00:19

1

Surrogate

a,a,a-Trifluorotoluene

%Recovery

103

Qualifier

Limits

82 - 110

Prepared

Analyzed

Dil Fac

09/25/18 00:19

1

Client Sample ID: TW-1-092118

Date Collected: 09/21/18 09:40

Date Received: 09/21/18 15:46

Lab Sample ID: 280-114658-6

Matrix: Water

Analyte

Gasoline Range Organics (GRO)  
-C6-C10

Result

17

Qualifier

J

RL

25

MDL

10

Unit

ug/L

D

-

Prepared

Analyzed

Dil Fac

09/25/18 00:42

1

Surrogate

a,a,a-Trifluorotoluene

%Recovery

100

Qualifier

Limits

82 - 110

Prepared

Analyzed

Dil Fac

09/25/18 00:42

1

Client Sample ID: DUP-1-092118

Date Collected: 09/21/18 10:25

Date Received: 09/21/18 15:46

Lab Sample ID: 280-114658-7

Matrix: Water

Analyte

Gasoline Range Organics (GRO)  
-C6-C10

Result

11

Qualifier

J

RL

25

MDL

10

Unit

ug/L

D

-

Prepared

Analyzed

Dil Fac

09/25/18 01:07

1

Surrogate

a,a,a-Trifluorotoluene

%Recovery

98

Qualifier

Limits

82 - 110

Prepared

Analyzed

Dil Fac

09/25/18 01:07

1

TestAmerica Denver



# Client Sample Results

Client: Stantec Consulting Corp.  
Project/Site: Chevron Rangely, CO CS-47

TestAmerica Job ID: 280-114658-1

## Method: 8015B - Diesel Range Organics (DRO) (GC)

Client Sample ID: MW-2-092118

Date Collected: 09/21/18 10:20

Date Received: 09/21/18 15:46

Lab Sample ID: 280-114658-1

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	0.46		0.25	0.032	mg/L	—	09/24/18 11:45	09/26/18 12:09	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	91		50 - 115				09/24/18 11:45	09/26/18 12:09	1

Client Sample ID: MW-3-092118

Date Collected: 09/21/18 07:40

Date Received: 09/21/18 15:46

Lab Sample ID: 280-114658-2

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	0.42		0.28	0.037	mg/L	—	09/24/18 11:45	09/26/18 12:30	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	87		50 - 115				09/24/18 11:45	09/26/18 12:30	1

Client Sample ID: MW-4-092118

Date Collected: 09/21/18 08:20

Date Received: 09/21/18 15:46

Lab Sample ID: 280-114658-3

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	0.27	J	0.31	0.040	mg/L	—	09/24/18 11:45	09/26/18 12:52	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	93		50 - 115				09/24/18 11:45	09/26/18 12:52	1

Client Sample ID: MW-5-092118

Date Collected: 09/21/18 09:00

Date Received: 09/21/18 15:46

Lab Sample ID: 280-114658-4

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	0.20	J	0.25	0.033	mg/L	—	09/24/18 11:45	09/26/18 13:14	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	89		50 - 115				09/24/18 11:45	09/26/18 13:14	1

Client Sample ID: MW-6-092118

Date Collected: 09/21/18 07:00

Date Received: 09/21/18 15:46

Lab Sample ID: 280-114658-5

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	0.25		0.25	0.033	mg/L	—	09/24/18 11:45	09/26/18 13:35	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	87		50 - 115				09/24/18 11:45	09/26/18 13:35	1

Client Sample ID: TW-1-092118

Date Collected: 09/21/18 09:40

Date Received: 09/21/18 15:46

Lab Sample ID: 280-114658-6

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	0.37		0.29	0.038	mg/L	—	09/24/18 11:45	09/26/18 13:57	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	86		50 - 115				09/24/18 11:45	09/26/18 13:57	1

TestAmerica Denver

# Client Sample Results

Client: Stantec Consulting Corp.  
Project/Site: Chevron Rangely, CO CS-47

TestAmerica Job ID: 280-114658-1

## Method: 8015B - Diesel Range Organics (DRO) (GC)

Client Sample ID: DUP-1-092118

Date Collected: 09/21/18 10:25

Date Received: 09/21/18 15:46

Lab Sample ID: 280-114658-7

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	0.38		0.24	0.032	mg/L		09/24/18 11:45	09/26/18 14:19	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	84		50 - 115				09/24/18 11:45	09/26/18 14:19	1

## General Chemistry

Client Sample ID: MW-2-092118

Date Collected: 09/21/18 10:20

Date Received: 09/21/18 15:46

Lab Sample ID: 280-114658-1

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	450		150	13	mg/L			09/27/18 17:44	50
Sulfate	1600		250	12	mg/L			09/27/18 17:44	50

Client Sample ID: MW-3-092118

Date Collected: 09/21/18 07:40

Date Received: 09/21/18 15:46

Lab Sample ID: 280-114658-2

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	530		150	13	mg/L			09/27/18 18:21	50
Sulfate	1600		250	12	mg/L			09/27/18 18:21	50

Client Sample ID: MW-4-092118

Date Collected: 09/21/18 08:20

Date Received: 09/21/18 15:46

Lab Sample ID: 280-114658-3

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	550		150	13	mg/L			09/27/18 18:59	50
Sulfate	1600		250	12	mg/L			09/27/18 18:59	50

Client Sample ID: MW-5-092118

Date Collected: 09/21/18 09:00

Date Received: 09/21/18 15:46

Lab Sample ID: 280-114658-4

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	730		15	1.3	mg/L			09/27/18 20:13	5
Sulfate	1600		250	12	mg/L			09/27/18 19:17	50

Client Sample ID: MW-6-092118

Date Collected: 09/21/18 07:00

Date Received: 09/21/18 15:46

Lab Sample ID: 280-114658-5

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	850		15	1.3	mg/L			09/27/18 20:32	5
Sulfate	2100		250	12	mg/L			09/27/18 20:51	50

Client Sample ID: TW-1-092118

Date Collected: 09/21/18 09:40

Date Received: 09/21/18 15:46

Lab Sample ID: 280-114658-6

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	320		6.0	0.51	mg/L			09/27/18 21:10	2
Sulfate	1200		100	4.6	mg/L			09/27/18 21:28	20

TestAmerica Denver

# Client Sample Results

Client: Stantec Consulting Corp.  
Project/Site: Chevron Rangely, CO CS-47

TestAmerica Job ID: 280-114658-1

## General Chemistry

Client Sample ID: DUP-1-092118

Date Collected: 09/21/18 10:25

Date Received: 09/21/18 15:46

Lab Sample ID: 280-114658-7

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	450		150	13	mg/L			09/27/18 22:06	50
Sulfate	1600		250	12	mg/L			09/27/18 22:06	50



# Surrogate Summary

Client: Stantec Consulting Corp.  
Project/Site: Chevron Rangely, CO CS-47

TestAmerica Job ID: 280-114658-1

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

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		DCA (70-127)	TOL (80-125)	BFB (78-120)	DBFM (77-120)
280-114658-1	MW-2-092118	110	95	89	110
280-114658-2	MW-3-092118	104	94	88	106
280-114658-3	MW-4-092118	106	95	90	105
280-114658-4	MW-5-092118	106	94	89	108
280-114658-5	MW-6-092118	105	93	87	106
280-114658-6	TW-1-092118	104	92	84	105
280-114658-7	DUP-1-092118	97	93	85	105
280-114658-8	TRIP BLANK	101	95	85	106
LCS 280-431867/4	Lab Control Sample	90	104	95	97
LCSD 280-431867/5	Lab Control Sample Dup	92	105	97	95
MB 280-431867/6	Method Blank	105	91	87	104

### Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)

TOL = Toluene-d8 (Surr)

BFB = 4-Bromofluorobenzene (Surr)

DBFM = Dibromofluoromethane (Surr)

## Method: 8015D - Gasoline Range Organics (GRO) (GC)

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		TFT1 (82-110)			
280-114658-1	MW-2-092118	102			
280-114658-2	MW-3-092118	102			
280-114658-3	MW-4-092118	89			
280-114658-4	MW-5-092118	99			
280-114658-5	MW-6-092118	103			
280-114658-6	TW-1-092118	100			
280-114658-7	DUP-1-092118	98			
LCS 280-430716/9	Lab Control Sample	106			
LCSD 280-430716/10	Lab Control Sample Dup	107			
MB 280-430716/5	Method Blank	89			

### Surrogate Legend

TFT = a,a,a-Trifluorotoluene

## Method: 8015B - Diesel Range Organics (DRO) (GC)

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		OTPH1 (50-115)			
280-114658-1	MW-2-092118	91			
280-114658-2	MW-3-092118	87			
280-114658-3	MW-4-092118	93			
280-114658-4	MW-5-092118	89			
280-114658-5	MW-6-092118	87			
280-114658-6	TW-1-092118	86			

TestAmerica Denver

# Surrogate Summary

Client: Stantec Consulting Corp.  
Project/Site: Chevron Rangely, CO CS-47

TestAmerica Job ID: 280-114658-1

## Method: 8015B - Diesel Range Organics (DRO) (GC) (Continued)

Matrix: Water

Prep Type: Total/NA

### Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	OTPH1 (50-115)
280-114658-7	DUP-1-092118	84
LCS 280-430729/2-A	Lab Control Sample	90
LCSD 280-430729/3-A	Lab Control Sample Dup	89
MB 280-430729/1-A	Method Blank	87

#### Surrogate Legend

OTPH = o-Terphenyl

# QC Sample Results

Client: Stantec Consulting Corp.  
Project/Site: Chevron Rangely, CO CS-47

TestAmerica Job ID: 280-114658-1

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

Lab Sample ID: MB 280-431867/6

Matrix: Water

Analysis Batch: 431867

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	0.16	ug/L			10/03/18 11:45	1
Ethylbenzene	ND		1.0	0.16	ug/L			10/03/18 11:45	1
Toluene	ND		1.0	0.17	ug/L			10/03/18 11:45	1
m-Xylene & p-Xylene	ND		2.0	0.34	ug/L			10/03/18 11:45	1
o-Xylene	ND		1.0	0.19	ug/L			10/03/18 11:45	1
Xylenes, Total	ND		2.0	0.19	ug/L			10/03/18 11:45	1
Methyl tert-butyl ether	ND		5.0	0.25	ug/L			10/03/18 11:45	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105		70 - 127		10/03/18 11:45	1
Toluene-d8 (Surr)	91		80 - 125		10/03/18 11:45	1
4-Bromofluorobenzene (Surr)	87		78 - 120		10/03/18 11:45	1
Dibromofluoromethane (Surr)	104		77 - 120		10/03/18 11:45	1

Lab Sample ID: LCS 280-431867/4

Matrix: Water

Analysis Batch: 431867

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	5.00	4.74		ug/L		95	65 - 135
Ethylbenzene	5.00	4.84		ug/L		97	65 - 135
Toluene	5.00	5.19		ug/L		104	65 - 135
m-Xylene & p-Xylene	5.00	4.95		ug/L		99	65 - 135
o-Xylene	5.00	4.56		ug/L		91	65 - 135
Xylenes, Total	10.0	9.51		ug/L		95	65 - 135
Methyl tert-butyl ether	5.00	4.43	J	ug/L		89	54 - 135

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	90		70 - 127
Toluene-d8 (Surr)	104		80 - 125
4-Bromofluorobenzene (Surr)	95		78 - 120
Dibromofluoromethane (Surr)	97		77 - 120

Lab Sample ID: LCSD 280-431867/5

Matrix: Water

Analysis Batch: 431867

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	5.00	4.96		ug/L		99	65 - 135	5	20
Ethylbenzene	5.00	5.11		ug/L		102	65 - 135	5	20
Toluene	5.00	5.37		ug/L		107	65 - 135	3	20
m-Xylene & p-Xylene	5.00	5.30		ug/L		106	65 - 135	7	20
o-Xylene	5.00	4.93		ug/L		99	65 - 135	8	20
Xylenes, Total	10.0	10.2		ug/L		102	65 - 135	7	20
Methyl tert-butyl ether	5.00	4.65	J	ug/L		93	54 - 135	5	21

TestAmerica Denver



# QC Sample Results

Client: Stantec Consulting Corp.  
Project/Site: Chevron Rangely, CO CS-47

TestAmerica Job ID: 280-114658-1

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

Lab Sample ID: LCSD 280-431867/5

Matrix: Water

Analysis Batch: 431867

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	92		70 - 127
Toluene-d8 (Surr)	105		80 - 125
4-Bromofluorobenzene (Surr)	97		78 - 120
Dibromofluoromethane (Surr)	95		77 - 120

## Method: 8015D - Gasoline Range Organics (GRO) (GC)

Lab Sample ID: MB 280-430716/5

Matrix: Water

Analysis Batch: 430716

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C6-C10	ND		25	10	ug/L	-		09/24/18 12:05	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	89		82 - 110		09/24/18 12:05	1

Lab Sample ID: LCS 280-430716/9

Matrix: Water

Analysis Batch: 430716

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO) -C6-C10	101	91.5		ug/L	-	91	79 - 149

Surrogate	LCS %Recovery	LCS Qualifier	Limits
a,a,a-Trifluorotoluene	106		82 - 110

Lab Sample ID: LCSD 280-430716/10

Matrix: Water

Analysis Batch: 430716

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO) -C6-C10	101	96.5		ug/L	-	96	79 - 149	5	27

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
a,a,a-Trifluorotoluene	107		82 - 110

TestAmerica Denver

# QC Sample Results

Client: Stantec Consulting Corp.  
Project/Site: Chevron Rangely, CO CS-47

TestAmerica Job ID: 280-114658-1

## Method: 8015B - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 280-430729/1-A

Matrix: Water

Analysis Batch: 431013

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 430729

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		250	33	mg/L		09/24/18 11:45	09/26/18 10:42	1
Surrogate	%Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	87		50 - 115				09/24/18 11:45	09/26/18 10:42	1

Lab Sample ID: LCS 280-430729/2-A

Matrix: Water

Analysis Batch: 431013

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 430729

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Diesel Range Organics [C10-C28]	2000	1790		mg/L		89	54 - 115		
Surrogate	%Recovery	LCS Qualifier	Limits						
<i>o</i> -Terphenyl	90		50 - 115						

Lab Sample ID: LCSD 280-430729/3-A

Matrix: Water

Analysis Batch: 431013

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 430729

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]	2000	1760		mg/L		88	54 - 115	1	31
Surrogate	%Recovery	LCSD Qualifier	Limits						
<i>o</i> -Terphenyl	89		50 - 115						

## Method: 9056A - Anions, Ion Chromatography

Lab Sample ID: MB 280-431036/6

Matrix: Water

Analysis Batch: 431036

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		3.0	0.25	mg/L			09/26/18 15:44	1
Sulfate	ND		5.0	0.23	mg/L			09/26/18 15:44	1

Lab Sample ID: LCS 280-431036/4

Matrix: Water

Analysis Batch: 431036

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride	100	97.6		mg/L		98	90 - 110		
Sulfate	100	103		mg/L		103	90 - 110		

TestAmerica Denver

# QC Sample Results

Client: Stantec Consulting Corp.  
Project/Site: Chevron Rangely, CO CS-47

TestAmerica Job ID: 280-114658-1

## Method: 9056A - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCSD 280-431036/5

Matrix: Water

Analysis Batch: 431036

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	100	97.7		mg/L		98	90 - 110	0	10
Sulfate	100	103		mg/L		103	90 - 110	0	10

Lab Sample ID: MRL 280-431036/3

Matrix: Water

Analysis Batch: 431036

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride	2.50	2.60	J	mg/L		104	50 - 150		
Sulfate	2.50	2.60	J	mg/L		104	50 - 150		



# QC Association Summary

Client: Stantec Consulting Corp.  
Project/Site: Chevron Rangely, CO CS-47

TestAmerica Job ID: 280-114658-1

## GC/MS VOA

### Analysis Batch: 431867

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-114658-1	MW-2-092118	Total/NA	Water	8260B	
280-114658-2	MW-3-092118	Total/NA	Water	8260B	
280-114658-3	MW-4-092118	Total/NA	Water	8260B	
280-114658-4	MW-5-092118	Total/NA	Water	8260B	
280-114658-5	MW-6-092118	Total/NA	Water	8260B	
280-114658-6	TW-1-092118	Total/NA	Water	8260B	
280-114658-7	DUP-1-092118	Total/NA	Water	8260B	
280-114658-8	TRIP BLANK	Total/NA	Water	8260B	
MB 280-431867/6	Method Blank	Total/NA	Water	8260B	
LCS 280-431867/4	Lab Control Sample	Total/NA	Water	8260B	
LCSD 280-431867/5	Lab Control Sample Dup	Total/NA	Water	8260B	

## GC VOA

### Analysis Batch: 430716

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-114658-1	MW-2-092118	Total/NA	Water	8015D	
280-114658-2	MW-3-092118	Total/NA	Water	8015D	
280-114658-3	MW-4-092118	Total/NA	Water	8015D	
280-114658-4	MW-5-092118	Total/NA	Water	8015D	
280-114658-5	MW-6-092118	Total/NA	Water	8015D	
280-114658-6	TW-1-092118	Total/NA	Water	8015D	
280-114658-7	DUP-1-092118	Total/NA	Water	8015D	
MB 280-430716/5	Method Blank	Total/NA	Water	8015D	
LCS 280-430716/9	Lab Control Sample	Total/NA	Water	8015D	
LCSD 280-430716/10	Lab Control Sample Dup	Total/NA	Water	8015D	

## GC Semi VOA

### Prep Batch: 430729

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-114658-1	MW-2-092118	Total/NA	Water	3510C	
280-114658-2	MW-3-092118	Total/NA	Water	3510C	
280-114658-3	MW-4-092118	Total/NA	Water	3510C	
280-114658-4	MW-5-092118	Total/NA	Water	3510C	
280-114658-5	MW-6-092118	Total/NA	Water	3510C	
280-114658-6	TW-1-092118	Total/NA	Water	3510C	
280-114658-7	DUP-1-092118	Total/NA	Water	3510C	
MB 280-430729/1-A	Method Blank	Total/NA	Water	3510C	
LCS 280-430729/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 280-430729/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	

### Analysis Batch: 431013

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-114658-1	MW-2-092118	Total/NA	Water	8015B	430729
280-114658-2	MW-3-092118	Total/NA	Water	8015B	430729
280-114658-3	MW-4-092118	Total/NA	Water	8015B	430729
280-114658-4	MW-5-092118	Total/NA	Water	8015B	430729
280-114658-5	MW-6-092118	Total/NA	Water	8015B	430729
280-114658-6	TW-1-092118	Total/NA	Water	8015B	430729

TestAmerica Denver

## QC Association Summary

Client: Stantec Consulting Corp.  
Project/Site: Chevron Rangely, CO CS-47

TestAmerica Job ID: 280-114658-1

### GC Semi VOA (Continued)

#### Analysis Batch: 431013 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-114658-7	DUP-1-092118	Total/NA	Water	8015B	430729
MB 280-430729/1-A	Method Blank	Total/NA	Water	8015B	430729
LCS 280-430729/2-A	Lab Control Sample	Total/NA	Water	8015B	430729
LCSD 280-430729/3-A	Lab Control Sample Dup	Total/NA	Water	8015B	430729

### General Chemistry

#### Analysis Batch: 431036

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-114658-1	MW-2-092118	Total/NA	Water	9056A	
280-114658-2	MW-3-092118	Total/NA	Water	9056A	
280-114658-3	MW-4-092118	Total/NA	Water	9056A	
280-114658-4	MW-5-092118	Total/NA	Water	9056A	
280-114658-4	MW-5-092118	Total/NA	Water	9056A	
280-114658-5	MW-6-092118	Total/NA	Water	9056A	
280-114658-5	MW-6-092118	Total/NA	Water	9056A	
280-114658-6	TW-1-092118	Total/NA	Water	9056A	
280-114658-6	TW-1-092118	Total/NA	Water	9056A	
280-114658-7	DUP-1-092118	Total/NA	Water	9056A	
MB 280-431036/6	Method Blank	Total/NA	Water	9056A	
LCS 280-431036/4	Lab Control Sample	Total/NA	Water	9056A	
LCSD 280-431036/5	Lab Control Sample Dup	Total/NA	Water	9056A	
MRL 280-431036/3	Lab Control Sample	Total/NA	Water	9056A	

# Lab Chronicle

Client: Stantec Consulting Corp.  
Project/Site: Chevron Rangely, CO CS-47

TestAmerica Job ID: 280-114658-1

**Client Sample ID: MW-2-092118**

**Date Collected: 09/21/18 10:20**

**Date Received: 09/21/18 15:46**

**Lab Sample ID: 280-114658-1**

**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	20 mL	20 mL	431867	10/03/18 16:18	DPI	TAL DEN
Total/NA	Analysis	8015D		1	5 mL	5 mL	430716	09/24/18 22:42	CAS	TAL DEN
Total/NA	Prep	3510C			1011.7 mL	1 mL	430729	09/24/18 11:45	AAG	TAL DEN
Total/NA	Analysis	8015B		1			431013	09/26/18 12:09	CSM	TAL DEN
Total/NA	Analysis	9056A		50	5 mL	5 mL	431036	09/27/18 17:44	A1D	TAL DEN

**Client Sample ID: MW-3-092118**

**Date Collected: 09/21/18 07:40**

**Date Received: 09/21/18 15:46**

**Lab Sample ID: 280-114658-2**

**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	20 mL	20 mL	431867	10/03/18 16:39	DPI	TAL DEN
Total/NA	Analysis	8015D		1	5 mL	5 mL	430716	09/24/18 23:06	CAS	TAL DEN
Total/NA	Prep	3510C			887.5 mL	1 mL	430729	09/24/18 11:45	AAG	TAL DEN
Total/NA	Analysis	8015B		1			431013	09/26/18 12:30	CSM	TAL DEN
Total/NA	Analysis	9056A		50	5 mL	5 mL	431036	09/27/18 18:21	A1D	TAL DEN

**Client Sample ID: MW-4-092118**

**Date Collected: 09/21/18 08:20**

**Date Received: 09/21/18 15:46**

**Lab Sample ID: 280-114658-3**

**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	20 mL	20 mL	431867	10/03/18 17:00	DPI	TAL DEN
Total/NA	Analysis	8015D		1	5 mL	5 mL	430716	09/24/18 23:31	CAS	TAL DEN
Total/NA	Prep	3510C			818.8 mL	1 mL	430729	09/24/18 11:45	AAG	TAL DEN
Total/NA	Analysis	8015B		1			431013	09/26/18 12:52	CSM	TAL DEN
Total/NA	Analysis	9056A		50	5 mL	5 mL	431036	09/27/18 18:59	A1D	TAL DEN

**Client Sample ID: MW-5-092118**

**Date Collected: 09/21/18 09:00**

**Date Received: 09/21/18 15:46**

**Lab Sample ID: 280-114658-4**

**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	20 mL	20 mL	431867	10/03/18 17:21	DPI	TAL DEN
Total/NA	Analysis	8015D		1	5 mL	5 mL	430716	09/24/18 23:55	CAS	TAL DEN
Total/NA	Prep	3510C			995.6 mL	1 mL	430729	09/24/18 11:45	AAG	TAL DEN
Total/NA	Analysis	8015B		1			431013	09/26/18 13:14	CSM	TAL DEN
Total/NA	Analysis	9056A		50	5 mL	5 mL	431036	09/27/18 19:17	A1D	TAL DEN
Total/NA	Analysis	9056A		5	5 mL	5 mL	431036	09/27/18 20:13	A1D	TAL DEN

TestAmerica Denver



# Lab Chronicle

Client: Stantec Consulting Corp.  
Project/Site: Chevron Rangely, CO CS-47

TestAmerica Job ID: 280-114658-1

**Client Sample ID: MW-6-092118**

**Lab Sample ID: 280-114658-5**

**Date Collected: 09/21/18 07:00**

**Matrix: Water**

**Date Received: 09/21/18 15:46**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	20 mL	20 mL	431867	10/03/18 17:42	DPI	TAL DEN
Total/NA	Analysis	8015D		1	5 mL	5 mL	430716	09/25/18 00:19	CAS	TAL DEN
Total/NA	Prep	3510C			996.2 mL	1 mL	430729	09/24/18 11:45	AAG	TAL DEN
Total/NA	Analysis	8015B		1			431013	09/26/18 13:35	CSM	TAL DEN
Total/NA	Analysis	9056A		5	5 mL	5 mL	431036	09/27/18 20:32	A1D	TAL DEN
Total/NA	Analysis	9056A		50	5 mL	5 mL	431036	09/27/18 20:51	A1D	TAL DEN

**Client Sample ID: TW-1-092118**

**Lab Sample ID: 280-114658-6**

**Date Collected: 09/21/18 09:40**

**Matrix: Water**

**Date Received: 09/21/18 15:46**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	20 mL	20 mL	431867	10/03/18 18:03	DPI	TAL DEN
Total/NA	Analysis	8015D		1	5 mL	5 mL	430716	09/25/18 00:42	CAS	TAL DEN
Total/NA	Prep	3510C			858.1 mL	1 mL	430729	09/24/18 11:45	AAG	TAL DEN
Total/NA	Analysis	8015B		1			431013	09/26/18 13:57	CSM	TAL DEN
Total/NA	Analysis	9056A		2	5 mL	5 mL	431036	09/27/18 21:10	A1D	TAL DEN
Total/NA	Analysis	9056A		20	5 mL	5 mL	431036	09/27/18 21:28	A1D	TAL DEN

**Client Sample ID: DUP-1-092118**

**Lab Sample ID: 280-114658-7**

**Date Collected: 09/21/18 10:25**

**Matrix: Water**

**Date Received: 09/21/18 15:46**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	20 mL	20 mL	431867	10/03/18 18:24	DPI	TAL DEN
Total/NA	Analysis	8015D		1	5 mL	5 mL	430716	09/25/18 01:07	CAS	TAL DEN
Total/NA	Prep	3510C			1024.3 mL	1 mL	430729	09/24/18 11:45	AAG	TAL DEN
Total/NA	Analysis	8015B		1			431013	09/26/18 14:19	CSM	TAL DEN
Total/NA	Analysis	9056A		50	5 mL	5 mL	431036	09/27/18 22:06	A1D	TAL DEN

**Client Sample ID: TRIP BLANK**

**Lab Sample ID: 280-114658-8**

**Date Collected: 09/21/18 07:00**

**Matrix: Water**

**Date Received: 09/21/18 15:46**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	20 mL	20 mL	431867	10/03/18 18:45	DPI	TAL DEN

## Laboratory References:

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

TestAmerica Denver

# Accreditation/Certification Summary

Client: Stantec Consulting Corp.  
Project/Site: Chevron Rangely, CO CS-47

TestAmerica Job ID: 280-114658-1

## Laboratory: TestAmerica Denver

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

Authority	Program	EPA Region	Identification Number	Expiration Date
A2LA	DoD ELAP		2907.01	10-31-19
A2LA	ISO/IEC 17025		2907.01	10-31-19
Alabama	State Program	4	40730	09-30-12 *
Alaska (UST)	State Program	10	UST-30	01-08-19
Arizona	State Program	9	AZ0713	12-20-19
Arkansas DEQ	State Program	6	88-0687	06-01-19
California	State Program	9	2513	01-18-19
Connecticut	State Program	1	PH-0686	09-30-20
Florida	NELAP	4	E87667	06-30-19
Georgia	State Program	4	N/A	01-08-19 *
Illinois	NELAP	5	200017	04-30-19
Iowa	State Program	7	370	12-01-18 *
Kansas	NELAP	7	E-10166	04-30-19
Louisiana	NELAP	6	02096	06-30-19
Maine	State Program	1	CO0002	03-03-19
Minnesota	NELAP	5	8-999-405	12-31-19
Nevada	State Program	9	CO0026	07-31-19
New Hampshire	NELAP	1	205310	04-28-19
New Jersey	NELAP	2	CO004	06-30-19
New York	NELAP	2	11964	04-01-19
North Carolina (WW/SW)	State Program	4	358	12-31-19
North Dakota	State Program	8	R-034	01-08-19
Oklahoma	State Program	6	8614	08-31-19
Oregon	NELAP	10	4025	01-08-19
Pennsylvania	NELAP	3	68-00664	07-31-19
South Carolina	State Program	4	72002001	01-08-19
Texas	NELAP	6	T104704183-18-15	09-30-19
US Fish & Wildlife	Federal			07-31-19
USDA	Federal			03-26-21
Utah	NELAP	8	CO00026	07-31-19
Virginia	NELAP	3	460232	06-14-19
Washington	State Program	10	C583	08-03-19
West Virginia DEP	State Program	3	354	01-31-19
Wisconsin	State Program	5	999615430	08-31-19 *
Wyoming (UST)	A2LA	8	2907.01	10-31-19

\* Accreditation/Certification renewal pending - accreditation/certification considered valid.

TestAmerica Denver

## Chain of Custody Record

<b>Client Information</b> Client Contact: Chris Beall Company: Stantec Consulting Corp. Address: 2000 South Colorado Blvd Suite 2-300 City: Denver State, Zip: CO, 80222 Phone: 720 233-1409 Email: Christopher.beall@stantec.com Project #: 28016570 Site:		Lab PM: Jamie Ide, 303-736-0126 E-Mail: jamie.ide@testamericainc.com Carrier Tracking No(s):	COC No: Page: 1 of 1 Job #:
<b>Analysis Requested</b> Due Date Requested: TAT Requested (days): PO #: WO #: Project #: SSOW#:		Preservation Codes: A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Other: M - Hexane N - None O - AshSO2 P - Na2O4S Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - NCA W - pH 4-5 Z - other (specify)	
<b>Sample Identification</b> MW-2-092118 MW-3-092118 MW-4-092118 MW-5-092118 MW-6-092118 TW-1-092118 DUP-1-092118 Trip blank		Total Number of containers 300.0 - Chlorides/Sulfates 8015D - DRO 8015D - GRO 8260B - BTEX Perform MS/MSD (Yes or No) Field Filtered Sample (Yes or No) Matrix (W=water, S=solid, O=oil, T=tissue, A=air) Sample Type (C=Comp, G=grab) Sample Time Sample Date Preservation Code: W	
Possible Hazard Identification <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological Deliverable Requested: I, II, III, IV, Other (specify)		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months Special Instructions/QC Requirements:	
Empty Kit Relinquished by: B. Beall Relinquished by:		Method of Shipment:	
Date/Time: 9/21/18 1546 Date/Time:		Date/Time: 9/21/18 1546 Date/Time:	
Date/Time:		Date/Time:	
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks:	



## Login Sample Receipt Checklist

Client: Stantec Consulting Corp.

Job Number: 280-114658-1

**Login Number: 114658**

**List Source: TestAmerica Denver**

**List Number: 1**

**Creator: Staack, KiAundra A**

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

## ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Denver

4955 Yarrow Street

Arvada, CO 80002

Tel: (303)736-0100

TestAmerica Job ID: 280-117430-1

Client Project/Site: Chevron Rangely, CO CS-47

Revision: 1

For:

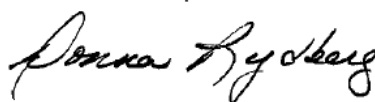
Stantec Consulting Corp.

2000 South Colorado Blvd

Suite 2-300

Denver, Colorado 80222

Attn: Christopher Beall



Authorized for release by:

1/4/2019 12:46:01 PM

Donna Rydberg, Senior Project Manager

(303)736-0192

[donna.rydberg@testamericainc.com](mailto:donna.rydberg@testamericainc.com)

Designee for

Jamie Ide, Project Manager I

(303)736-0126

[jamie.ide@testamericainc.com](mailto:jamie.ide@testamericainc.com)

### LINKS

Review your project  
results through

TotalAccess

Have a Question?



Visit us at:

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

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

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

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



# Table of Contents

Cover Page . . . . .	1
Table of Contents . . . . .	2
Definitions . . . . .	3
Case Narrative . . . . .	4
Detection Summary . . . . .	6
Method Summary . . . . .	8
Sample Summary . . . . .	9
Client Sample Results . . . . .	10
Surrogate Summary . . . . .	17
QC Sample Results . . . . .	19
QC Association . . . . .	25
Chronicle . . . . .	27
Certification Summary . . . . .	30
Chain of Custody . . . . .	32
Receipt Checklists . . . . .	35



## Definitions/Glossary

Client: Stantec Consulting Corp.  
Project/Site: Chevron Rangely, CO CS-47

TestAmerica Job ID: 280-117430-1

### Qualifiers

#### GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

#### GC Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

#### General Chemistry

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

### Glossary

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

# Case Narrative

Client: Stantec Consulting Corp.  
Project/Site: Chevron Rangely, CO CS-47

TestAmerica Job ID: 280-117430-1

**Job ID: 280-117430-1**

**Laboratory: TestAmerica Denver**

## Narrative

### CASE NARRATIVE

**Client: Stantec Consulting Corp.**

**Project: Chevron Rangely, CO CS-47**

**Report Number: 280-117430-1**

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

#### **REVISED REPORT - 1/4/18**

The client contacted the laboratory and requested a change to how the DRO data was reported. Originally the data was reported using the extended range Diesel Range Organics (C10-C36). The client would like the data reported as Diesel Range Organics (C10-C28). The lab went back and reprocessed the data. No other changes were made.

#### **RECEIPT**

The samples were received on 11/28/2018 4:40 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 3 coolers at receipt time were 1.8° C, 4.8° C and 5.0° C.

#### **Receipt Exceptions**

The requested 8260B BTEX and 8015D GRO analysis will be performed by TestAmerica's Nashville laboratory. The client was notified on 11/29/18.

1 of 2 x 1L unpreserved amber glass containers submitted for sample MW-4-112818 (280-117430-4) was received ~3/4 full of volume. It can be noted that sufficient volume remains for analysis. The client was notified on 11/29/18.

1 of 2 x 1L unpreserved amber glass containers submitted for sample MW-6-112818 (280-117430-6) did not list a sample collection time on the container label, while the COC lists "11:40". The sample was logged per the collection time listed on the COC. The client was notified on 11/29/18.

#### **VOLATILE ORGANIC COMPOUNDS (GC-MS)**

Samples MW-1R-112818 (280-117430-1), MW-2-112818 (280-117430-2), MW-3-112818 (280-117430-3), MW-4-112818 (280-117430-4), MW-5-112818 (280-117430-5), MW-6-112818 (280-117430-6), TW-1-112818 (280-117430-7), DUP-1-112818 (280-117430-8) and TRIP BLANK (280-117430-9) were analyzed for volatile organic compounds (GC-MS) in accordance with EPA SW-846 Method 8260B. The samples were analyzed on 11/30/2018 and 12/04/2018.

The following sample(s) were collected in properly preserved vials for analysis of volatile organic compounds (VOCs). However, the pH was outside the required criteria when verified by the laboratory, and corrective action was not possible: MW-2-112818 (280-117430-2), MW-4-112818 (280-117430-4) and MW-6-112818 (280-117430-6).

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

# Case Narrative

Client: Stantec Consulting Corp.  
Project/Site: Chevron Rangely, CO CS-47

TestAmerica Job ID: 280-117430-1

## Job ID: 280-117430-1 (Continued)

### Laboratory: TestAmerica Denver (Continued)

#### GASOLINE RANGE ORGANICS (GRO)

Samples MW-1R-112818 (280-117430-1), MW-2-112818 (280-117430-2), MW-3-112818 (280-117430-3), MW-4-112818 (280-117430-4), MW-5-112818 (280-117430-5), MW-6-112818 (280-117430-6), TW-1-112818 (280-117430-7) and DUP-1-112818 (280-117430-8) were analyzed for Gasoline Range Organics (GRO) in accordance with 8015D GRO. The samples were analyzed on 12/05/2018 and 12/06/2018.

The following sample(s) were collected in properly preserved vials for analysis of volatile organic compounds (VOCs). However, the pH was outside the required criteria when verified by the laboratory, and corrective action was not possible: MW-2-112818 (280-117430-2) and MW-4-112818 (280-117430-4). Ph was 5.

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

#### DIESEL RANGE ORGANICS

Samples MW-1R-112818 (280-117430-1), MW-2-112818 (280-117430-2), MW-3-112818 (280-117430-3), MW-4-112818 (280-117430-4), MW-5-112818 (280-117430-5), MW-6-112818 (280-117430-6), TW-1-112818 (280-117430-7) and DUP-1-112818 (280-117430-8) were analyzed for Diesel Range Organics in accordance with EPA SW-846 Method 8015B - DRO. The samples were prepared on 11/29/2018 and analyzed on 12/07/2018.

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

#### ANIONS (28 DAYS)

Samples MW-1R-112818 (280-117430-1), MW-2-112818 (280-117430-2), MW-3-112818 (280-117430-3), MW-4-112818 (280-117430-4), MW-5-112818 (280-117430-5), MW-6-112818 (280-117430-6), TW-1-112818 (280-117430-7) and DUP-1-112818 (280-117430-8) were analyzed for anions (28 days) in accordance with EPA SW-846 Method 9056A. The samples were analyzed on 12/05/2018 and 12/06/2018.

Samples MW-1R-112818 (280-117430-1)[100X], MW-1R-112818 (280-117430-1)[5X], MW-2-112818 (280-117430-2)[20X], MW-3-112818 (280-117430-3)[50X], MW-4-112818 (280-117430-4)[50X], MW-5-112818 (280-117430-5)[50X], MW-6-112818 (280-117430-6)[50X], TW-1-112818 (280-117430-7)[2X], TW-1-112818 (280-117430-7)[50X], DUP-1-112818 (280-117430-8)[100X] and DUP-1-112818 (280-117430-8)[5X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

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



# Detection Summary

Client: Stantec Consulting Corp.  
Project/Site: Chevron Rangely, CO CS-47

TestAmerica Job ID: 280-117430-1

## Client Sample ID: MW-1R-112818

## Lab Sample ID: 280-117430-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	1.1		0.25	0.033	mg/L	1		8015B	Total/NA
Chloride	490		15	1.3	mg/L	5		9056A	Total/NA
Sulfate	1300		500	23	mg/L	100		9056A	Total/NA

## Client Sample ID: MW-2-112818

## Lab Sample ID: 280-117430-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	0.66		0.27	0.035	mg/L	1		8015B	Total/NA
Chloride	260		60	5.1	mg/L	20		9056A	Total/NA
Sulfate	1200		100	4.6	mg/L	20		9056A	Total/NA

## Client Sample ID: MW-3-112818

## Lab Sample ID: 280-117430-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	0.13	J	0.27	0.035	mg/L	1		8015B	Total/NA
Chloride	750		150	13	mg/L	50		9056A	Total/NA
Sulfate	1500		250	12	mg/L	50		9056A	Total/NA

## Client Sample ID: MW-4-112818

## Lab Sample ID: 280-117430-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	0.20	J	1.0	0.20	ug/L	1		8260B	Total/NA
Diesel Range Organics [C10-C28]	0.23	J	0.28	0.037	mg/L	1		8015B	Total/NA
Chloride	510		150	13	mg/L	50		9056A	Total/NA
Sulfate	1600		250	12	mg/L	50		9056A	Total/NA

## Client Sample ID: MW-5-112818

## Lab Sample ID: 280-117430-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	0.16	J	0.26	0.034	mg/L	1		8015B	Total/NA
Chloride	540		150	13	mg/L	50		9056A	Total/NA
Sulfate	1500		250	12	mg/L	50		9056A	Total/NA

## Client Sample ID: MW-6-112818

## Lab Sample ID: 280-117430-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	0.16	J	0.26	0.034	mg/L	1		8015B	Total/NA
Chloride	820		150	13	mg/L	50		9056A	Total/NA
Sulfate	2200		250	12	mg/L	50		9056A	Total/NA

## Client Sample ID: TW-1-112818

## Lab Sample ID: 280-117430-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	0.16	J	0.30	0.040	mg/L	1		8015B	Total/NA
Chloride	340		6.0	0.51	mg/L	2		9056A	Total/NA
Sulfate	1300		250	12	mg/L	50		9056A	Total/NA

## Client Sample ID: DUP-1-112818

## Lab Sample ID: 280-117430-8

This Detection Summary does not include radiochemical test results.

TestAmerica Denver

## Detection Summary

Client: Stantec Consulting Corp.  
Project/Site: Chevron Rangely, CO CS-47

TestAmerica Job ID: 280-117430-1

### Client Sample ID: DUP-1-112818 (Continued)

### Lab Sample ID: 280-117430-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	1.1		0.25	0.032	mg/L	1		8015B	Total/NA
Chloride	490		15	1.3	mg/L	5		9056A	Total/NA
Sulfate	1300		500	23	mg/L	100		9056A	Total/NA

### Client Sample ID: TRIP BLANK

### Lab Sample ID: 280-117430-9

No Detections.

This Detection Summary does not include radiochemical test results.

TestAmerica Denver

## Method Summary

Client: Stantec Consulting Corp.  
Project/Site: Chevron Rangely, CO CS-47

TestAmerica Job ID: 280-117430-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL NSH
8015D	Gasoline Range Organics (GRO) (GC)	SW846	TAL NSH
8015B	Diesel Range Organics (DRO) (GC)	SW846	TAL DEN
9056A	Anions, Ion Chromatography	SW846	TAL DEN
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	TAL DEN
5030B	Purge and Trap	SW846	TAL NSH
5030C	Purge and Trap	SW846	TAL NSH

### Protocol References:

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

### Laboratory References:

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

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



# Sample Summary

Client: Stantec Consulting Corp.  
Project/Site: Chevron Rangely, CO CS-47

TestAmerica Job ID: 280-117430-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
280-117430-1	MW-1R-112818	Water	11/28/18 08:10	11/28/18 16:40
280-117430-2	MW-2-112818	Water	11/28/18 08:50	11/28/18 16:40
280-117430-3	MW-3-112818	Water	11/28/18 09:30	11/28/18 16:40
280-117430-4	MW-4-112818	Water	11/28/18 10:10	11/28/18 16:40
280-117430-5	MW-5-112818	Water	11/28/18 10:40	11/28/18 16:40
280-117430-6	MW-6-112818	Water	11/28/18 11:40	11/28/18 16:40
280-117430-7	TW-1-112818	Water	11/28/18 07:30	11/28/18 16:40
280-117430-8	DUP-1-112818	Water	11/28/18 08:20	11/28/18 16:40
280-117430-9	TRIP BLANK	Water	11/28/18 07:30	11/28/18 16:40

# Client Sample Results

Client: Stantec Consulting Corp.  
Project/Site: Chevron Rangely, CO CS-47

TestAmerica Job ID: 280-117430-1

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

Client Sample ID: MW-1R-112818

Date Collected: 11/28/18 08:10

Date Received: 11/28/18 16:40

Lab Sample ID: 280-117430-1

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	0.20	ug/L			11/30/18 19:08	1
Ethylbenzene	ND		1.0	0.19	ug/L			11/30/18 19:08	1
m,p-Xylene	ND		2.0	0.38	ug/L			11/30/18 19:08	1
o-Xylene	ND		1.0	0.20	ug/L			11/30/18 19:08	1
Toluene	ND		1.0	0.17	ug/L			11/30/18 19:08	1
Xylenes, Total	ND		3.0	0.58	ug/L			11/30/18 19:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		70 - 130		11/30/18 19:08	1
4-Bromofluorobenzene (Surr)	94		70 - 130		11/30/18 19:08	1
Dibromofluoromethane (Surr)	101		70 - 130		11/30/18 19:08	1
Toluene-d8 (Surr)	100		70 - 130		11/30/18 19:08	1

Client Sample ID: MW-2-112818

Date Collected: 11/28/18 08:50

Date Received: 11/28/18 16:40

Lab Sample ID: 280-117430-2

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	0.20	ug/L			11/30/18 19:36	1
Ethylbenzene	ND		1.0	0.19	ug/L			11/30/18 19:36	1
m,p-Xylene	ND		2.0	0.38	ug/L			11/30/18 19:36	1
o-Xylene	ND		1.0	0.20	ug/L			11/30/18 19:36	1
Toluene	ND		1.0	0.17	ug/L			11/30/18 19:36	1
Xylenes, Total	ND		3.0	0.58	ug/L			11/30/18 19:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		70 - 130		11/30/18 19:36	1
4-Bromofluorobenzene (Surr)	95		70 - 130		11/30/18 19:36	1
Dibromofluoromethane (Surr)	99		70 - 130		11/30/18 19:36	1
Toluene-d8 (Surr)	101		70 - 130		11/30/18 19:36	1

Client Sample ID: MW-3-112818

Date Collected: 11/28/18 09:30

Date Received: 11/28/18 16:40

Lab Sample ID: 280-117430-3

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	0.20	ug/L			11/30/18 17:19	1
Ethylbenzene	ND		1.0	0.19	ug/L			11/30/18 17:19	1
m,p-Xylene	ND		2.0	0.38	ug/L			11/30/18 17:19	1
o-Xylene	ND		1.0	0.20	ug/L			11/30/18 17:19	1
Toluene	ND		1.0	0.17	ug/L			11/30/18 17:19	1
Xylenes, Total	ND		3.0	0.58	ug/L			11/30/18 17:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	97		70 - 130		11/30/18 17:19	1
4-Bromofluorobenzene (Surr)	95		70 - 130		11/30/18 17:19	1
Dibromofluoromethane (Surr)	108		70 - 130		11/30/18 17:19	1
Toluene-d8 (Surr)	102		70 - 130		11/30/18 17:19	1

TestAmerica Denver

# Client Sample Results

Client: Stantec Consulting Corp.  
Project/Site: Chevron Rangely, CO CS-47

TestAmerica Job ID: 280-117430-1

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

Client Sample ID: MW-4-112818

Date Collected: 11/28/18 10:10

Date Received: 11/28/18 16:40

Lab Sample ID: 280-117430-4

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.20	J	1.0	0.20	ug/L			11/30/18 20:30	1
Ethylbenzene	ND		1.0	0.19	ug/L			11/30/18 20:30	1
m,p-Xylene	ND		2.0	0.38	ug/L			11/30/18 20:30	1
o-Xylene	ND		1.0	0.20	ug/L			11/30/18 20:30	1
Toluene	ND		1.0	0.17	ug/L			11/30/18 20:30	1
Xylenes, Total	ND		3.0	0.58	ug/L			11/30/18 20:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		70 - 130		11/30/18 20:30	1
4-Bromofluorobenzene (Surr)	94		70 - 130		11/30/18 20:30	1
Dibromofluoromethane (Surr)	100		70 - 130		11/30/18 20:30	1
Toluene-d8 (Surr)	101		70 - 130		11/30/18 20:30	1

Client Sample ID: MW-5-112818

Date Collected: 11/28/18 10:40

Date Received: 11/28/18 16:40

Lab Sample ID: 280-117430-5

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	0.20	ug/L			11/30/18 18:13	1
Ethylbenzene	ND		1.0	0.19	ug/L			11/30/18 18:13	1
m,p-Xylene	ND		2.0	0.38	ug/L			11/30/18 18:13	1
o-Xylene	ND		1.0	0.20	ug/L			11/30/18 18:13	1
Toluene	ND		1.0	0.17	ug/L			11/30/18 18:13	1
Xylenes, Total	ND		3.0	0.58	ug/L			11/30/18 18:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	98		70 - 130		11/30/18 18:13	1
4-Bromofluorobenzene (Surr)	96		70 - 130		11/30/18 18:13	1
Dibromofluoromethane (Surr)	100		70 - 130		11/30/18 18:13	1
Toluene-d8 (Surr)	100		70 - 130		11/30/18 18:13	1

Client Sample ID: MW-6-112818

Date Collected: 11/28/18 11:40

Date Received: 11/28/18 16:40

Lab Sample ID: 280-117430-6

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	0.20	ug/L			11/30/18 20:03	1
Ethylbenzene	ND		1.0	0.19	ug/L			11/30/18 20:03	1
m,p-Xylene	ND		2.0	0.38	ug/L			11/30/18 20:03	1
o-Xylene	ND		1.0	0.20	ug/L			11/30/18 20:03	1
Toluene	ND		1.0	0.17	ug/L			11/30/18 20:03	1
Xylenes, Total	ND		3.0	0.58	ug/L			11/30/18 20:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		70 - 130		11/30/18 20:03	1
4-Bromofluorobenzene (Surr)	95		70 - 130		11/30/18 20:03	1
Dibromofluoromethane (Surr)	99		70 - 130		11/30/18 20:03	1
Toluene-d8 (Surr)	101		70 - 130		11/30/18 20:03	1

TestAmerica Denver



# Client Sample Results

Client: Stantec Consulting Corp.  
Project/Site: Chevron Rangely, CO CS-47

TestAmerica Job ID: 280-117430-1

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

Client Sample ID: TW-1-112818

Date Collected: 11/28/18 07:30

Date Received: 11/28/18 16:40

Lab Sample ID: 280-117430-7

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	0.20	ug/L			11/30/18 18:41	1
Ethylbenzene	ND		1.0	0.19	ug/L			11/30/18 18:41	1
m,p-Xylene	ND		2.0	0.38	ug/L			11/30/18 18:41	1
o-Xylene	ND		1.0	0.20	ug/L			11/30/18 18:41	1
Toluene	ND		1.0	0.17	ug/L			11/30/18 18:41	1
Xylenes, Total	ND		3.0	0.58	ug/L			11/30/18 18:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		70 - 130		11/30/18 18:41	1
4-Bromofluorobenzene (Surr)	95		70 - 130		11/30/18 18:41	1
Dibromofluoromethane (Surr)	99		70 - 130		11/30/18 18:41	1
Toluene-d8 (Surr)	101		70 - 130		11/30/18 18:41	1

Client Sample ID: DUP-1-112818

Date Collected: 11/28/18 08:20

Date Received: 11/28/18 16:40

Lab Sample ID: 280-117430-8

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	0.20	ug/L			11/30/18 17:46	1
Ethylbenzene	ND		1.0	0.19	ug/L			11/30/18 17:46	1
m,p-Xylene	ND		2.0	0.38	ug/L			11/30/18 17:46	1
o-Xylene	ND		1.0	0.20	ug/L			11/30/18 17:46	1
Toluene	ND		1.0	0.17	ug/L			11/30/18 17:46	1
Xylenes, Total	ND		3.0	0.58	ug/L			11/30/18 17:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		70 - 130		11/30/18 17:46	1
4-Bromofluorobenzene (Surr)	96		70 - 130		11/30/18 17:46	1
Dibromofluoromethane (Surr)	100		70 - 130		11/30/18 17:46	1
Toluene-d8 (Surr)	100		70 - 130		11/30/18 17:46	1

Client Sample ID: TRIP BLANK

Date Collected: 11/28/18 07:30

Date Received: 11/28/18 16:40

Lab Sample ID: 280-117430-9

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	0.20	ug/L			12/04/18 18:01	1
Ethylbenzene	ND		1.0	0.19	ug/L			12/04/18 18:01	1
m,p-Xylene	ND		2.0	0.38	ug/L			12/04/18 18:01	1
o-Xylene	ND		1.0	0.20	ug/L			12/04/18 18:01	1
Toluene	ND		1.0	0.17	ug/L			12/04/18 18:01	1
Xylenes, Total	ND		3.0	0.58	ug/L			12/04/18 18:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	118		70 - 130		12/04/18 18:01	1
4-Bromofluorobenzene (Surr)	94		70 - 130		12/04/18 18:01	1
Dibromofluoromethane (Surr)	114		70 - 130		12/04/18 18:01	1
Toluene-d8 (Surr)	99		70 - 130		12/04/18 18:01	1

TestAmerica Denver

# Client Sample Results

Client: Stantec Consulting Corp.  
Project/Site: Chevron Rangely, CO CS-47

TestAmerica Job ID: 280-117430-1

## Method: 8015D - Gasoline Range Organics (GRO) (GC)

Client Sample ID: MW-1R-112818

Date Collected: 11/28/18 08:10

Date Received: 11/28/18 16:40

Lab Sample ID: 280-117430-1

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)	ND		100	50	ug/L	-		12/05/18 19:04	1
-C6-C10									
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	100		50 - 150					12/05/18 19:04	1

Client Sample ID: MW-2-112818

Date Collected: 11/28/18 08:50

Date Received: 11/28/18 16:40

Lab Sample ID: 280-117430-2

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)	ND		100	50	ug/L	-		12/05/18 21:24	1
-C6-C10									
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	87		50 - 150					12/05/18 21:24	1

Client Sample ID: MW-3-112818

Date Collected: 11/28/18 09:30

Date Received: 11/28/18 16:40

Lab Sample ID: 280-117430-3

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)	ND		100	50	ug/L	-		12/05/18 21:59	1
-C6-C10									
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	87		50 - 150					12/05/18 21:59	1

Client Sample ID: MW-4-112818

Date Collected: 11/28/18 10:10

Date Received: 11/28/18 16:40

Lab Sample ID: 280-117430-4

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)	ND		100	50	ug/L	-		12/05/18 22:33	1
-C6-C10									
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	87		50 - 150					12/05/18 22:33	1

Client Sample ID: MW-5-112818

Date Collected: 11/28/18 10:40

Date Received: 11/28/18 16:40

Lab Sample ID: 280-117430-5

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)	ND		100	50	ug/L	-		12/05/18 23:08	1
-C6-C10									
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	89		50 - 150					12/05/18 23:08	1

Client Sample ID: MW-6-112818

Date Collected: 11/28/18 11:40

Date Received: 11/28/18 16:40

Lab Sample ID: 280-117430-6

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)	ND		100	50	ug/L	-		12/05/18 23:43	1
-C6-C10									

TestAmerica Denver

# Client Sample Results

Client: Stantec Consulting Corp.  
Project/Site: Chevron Rangely, CO CS-47

TestAmerica Job ID: 280-117430-1

## Method: 8015D - Gasoline Range Organics (GRO) (GC) (Continued)

Surrogate	%Recovery	Qualifier	Limits							Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	88		50 - 150								12/05/18 23:43	1

Client Sample ID: TW-1-112818  
Date Collected: 11/28/18 07:30  
Date Received: 11/28/18 16:40

Lab Sample ID: 280-117430-7  
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C6-C10	ND		100	50	ug/L	-		12/06/18 00:17	1

Surrogate	%Recovery	Qualifier	Limits							Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	90		50 - 150								12/06/18 00:17	1

Client Sample ID: DUP-1-112818  
Date Collected: 11/28/18 08:20  
Date Received: 11/28/18 16:40

Lab Sample ID: 280-117430-8  
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO) -C6-C10	ND		100	50	ug/L	-		12/06/18 00:52	1

Surrogate	%Recovery	Qualifier	Limits							Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	92		50 - 150								12/06/18 00:52	1

## Method: 8015B - Diesel Range Organics (DRO) (GC)

Client Sample ID: MW-1R-112818

Date Collected: 11/28/18 08:10

Date Received: 11/28/18 16:40

Lab Sample ID: 280-117430-1

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	1.1		0.25	0.033	mg/L	-	11/29/18 17:11	12/07/18 02:18	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	92		50 - 115				11/29/18 17:11	12/07/18 02:18	1

Client Sample ID: MW-2-112818

Date Collected: 11/28/18 08:50

Date Received: 11/28/18 16:40

Lab Sample ID: 280-117430-2

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	0.66		0.27	0.035	mg/L	-	11/29/18 17:11	12/07/18 02:39	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	70		50 - 115				11/29/18 17:11	12/07/18 02:39	1

Client Sample ID: MW-3-112818

Date Collected: 11/28/18 09:30

Date Received: 11/28/18 16:40

Lab Sample ID: 280-117430-3

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	0.13	J	0.27	0.035	mg/L	-	11/29/18 17:11	12/07/18 03:01	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	78		50 - 115				11/29/18 17:11	12/07/18 03:01	1

TestAmerica Denver



# Client Sample Results

Client: Stantec Consulting Corp.  
Project/Site: Chevron Rangely, CO CS-47

TestAmerica Job ID: 280-117430-1

## Method: 8015B - Diesel Range Organics (DRO) (GC)

Client Sample ID: MW-4-112818

Date Collected: 11/28/18 10:10

Date Received: 11/28/18 16:40

Lab Sample ID: 280-117430-4

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	0.23	J	0.28	0.037	mg/L	—	11/29/18 17:11	12/07/18 03:23	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	78		50 - 115				11/29/18 17:11	12/07/18 03:23	1

Client Sample ID: MW-5-112818

Date Collected: 11/28/18 10:40

Date Received: 11/28/18 16:40

Lab Sample ID: 280-117430-5

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	0.16	J	0.26	0.034	mg/L	—	11/29/18 17:11	12/07/18 03:45	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	76		50 - 115				11/29/18 17:11	12/07/18 03:45	1

Client Sample ID: MW-6-112818

Date Collected: 11/28/18 11:40

Date Received: 11/28/18 16:40

Lab Sample ID: 280-117430-6

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	0.16	J	0.26	0.034	mg/L	—	11/29/18 17:11	12/07/18 04:06	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	76		50 - 115				11/29/18 17:11	12/07/18 04:06	1

Client Sample ID: TW-1-112818

Date Collected: 11/28/18 07:30

Date Received: 11/28/18 16:40

Lab Sample ID: 280-117430-7

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	0.16	J	0.30	0.040	mg/L	—	11/29/18 17:11	12/07/18 05:33	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	75		50 - 115				11/29/18 17:11	12/07/18 05:33	1

Client Sample ID: DUP-1-112818

Date Collected: 11/28/18 08:20

Date Received: 11/28/18 16:40

Lab Sample ID: 280-117430-8

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	1.1		0.25	0.032	mg/L	—	11/29/18 17:11	12/07/18 05:55	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	72		50 - 115				11/29/18 17:11	12/07/18 05:55	1

## General Chemistry

Client Sample ID: MW-1R-112818

Date Collected: 11/28/18 08:10

Date Received: 11/28/18 16:40

Lab Sample ID: 280-117430-1

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	490		15	1.3	mg/L	—		12/05/18 23:13	5
Sulfate	1300		500	23	mg/L	—		12/05/18 23:31	100

TestAmerica Denver

# Client Sample Results

Client: Stantec Consulting Corp.  
Project/Site: Chevron Rangely, CO CS-47

TestAmerica Job ID: 280-117430-1

## General Chemistry

Client Sample ID: MW-2-112818

Date Collected: 11/28/18 08:50

Date Received: 11/28/18 16:40

Lab Sample ID: 280-117430-2

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	260		60	5.1	mg/L			12/06/18 00:46	20
Sulfate	1200		100	4.6	mg/L			12/06/18 00:46	20

Client Sample ID: MW-3-112818

Date Collected: 11/28/18 09:30

Date Received: 11/28/18 16:40

Lab Sample ID: 280-117430-3

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	750		150	13	mg/L			12/06/18 01:24	50
Sulfate	1500		250	12	mg/L			12/06/18 01:24	50

Client Sample ID: MW-4-112818

Date Collected: 11/28/18 10:10

Date Received: 11/28/18 16:40

Lab Sample ID: 280-117430-4

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	510		150	13	mg/L			12/06/18 02:01	50
Sulfate	1600		250	12	mg/L			12/06/18 02:01	50

Client Sample ID: MW-5-112818

Date Collected: 11/28/18 10:40

Date Received: 11/28/18 16:40

Lab Sample ID: 280-117430-5

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	540		150	13	mg/L			12/06/18 02:38	50
Sulfate	1500		250	12	mg/L			12/06/18 02:38	50

Client Sample ID: MW-6-112818

Date Collected: 11/28/18 11:40

Date Received: 11/28/18 16:40

Lab Sample ID: 280-117430-6

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	820		150	13	mg/L			12/06/18 03:16	50
Sulfate	2200		250	12	mg/L			12/06/18 03:16	50

Client Sample ID: TW-1-112818

Date Collected: 11/28/18 07:30

Date Received: 11/28/18 16:40

Lab Sample ID: 280-117430-7

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	340		6.0	0.51	mg/L			12/06/18 04:12	2
Sulfate	1300		250	12	mg/L			12/06/18 04:31	50

Client Sample ID: DUP-1-112818

Date Collected: 11/28/18 08:20

Date Received: 11/28/18 16:40

Lab Sample ID: 280-117430-8

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	490		15	1.3	mg/L			12/06/18 04:50	5
Sulfate	1300		500	23	mg/L			12/06/18 05:08	100

TestAmerica Denver

# Surrogate Summary

Client: Stantec Consulting Corp.  
Project/Site: Chevron Rangely, CO CS-47

TestAmerica Job ID: 280-117430-1

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

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		DCA (70-130)	BFB (70-130)	DBFM (70-130)	TOL (70-130)
280-117430-1	MW-1R-112818	102	94	101	100
280-117430-2	MW-2-112818	100	95	99	101
280-117430-3	MW-3-112818	97	95	108	102
280-117430-3 MS	MW-3-112818	98	97	98	103
280-117430-3 MSD	MW-3-112818	114	97	107	102
280-117430-4	MW-4-112818	103	94	100	101
280-117430-5	MW-5-112818	98	96	100	100
280-117430-6	MW-6-112818	101	95	99	101
280-117430-7	TW-1-112818	103	95	99	101
280-117430-8	DUP-1-112818	101	96	100	100
280-117430-9	TRIP BLANK	118	94	114	99
LCS 490-560747/3	Lab Control Sample	111	98	102	105
LCS 490-561359/3	Lab Control Sample	120	97	109	102
LCSD 490-560747/4	Lab Control Sample Dup	97	99	96	103
LCSD 490-561359/4	Lab Control Sample Dup	111	95	109	100
MB 490-560747/6	Method Blank	101	94	101	102
MB 490-561359/9	Method Blank	119	92	114	98

### Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)  
BFB = 4-Bromofluorobenzene (Surr)  
DBFM = Dibromofluoromethane (Surr)  
TOL = Toluene-d8 (Surr)

## Method: 8015D - Gasoline Range Organics (GRO) (GC)

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		TFT2 (50-150)	
280-117430-1	MW-1R-112818	100	
280-117430-1 MS	MW-1R-112818	92	
280-117430-1 MSD	MW-1R-112818	91	
280-117430-2	MW-2-112818	87	
280-117430-3	MW-3-112818	87	
280-117430-4	MW-4-112818	87	
280-117430-5	MW-5-112818	89	
280-117430-6	MW-6-112818	88	
280-117430-7	TW-1-112818	90	
280-117430-8	DUP-1-112818	92	
LCS 490-561473/5	Lab Control Sample	77	
LCSD 490-561473/6	Lab Control Sample Dup	76	
MB 490-561473/7	Method Blank	86	

### Surrogate Legend

TFT = a,a,a-Trifluorotoluene

TestAmerica Denver



# Surrogate Summary

Client: Stantec Consulting Corp.  
Project/Site: Chevron Rangely, CO CS-47

TestAmerica Job ID: 280-117430-1

**Method: 8015B - Diesel Range Organics (DRO) (GC)**

**Matrix: Water**

**Prep Type: Total/NA**

## Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	OTPH1 (50-115)
280-117430-1	MW-1R-112818	92
280-117430-2	MW-2-112818	70
280-117430-3	MW-3-112818	78
280-117430-4	MW-4-112818	78
280-117430-5	MW-5-112818	76
280-117430-6	MW-6-112818	76
280-117430-7	TW-1-112818	75
280-117430-8	DUP-1-112818	72
LCS 280-439312/2-A	Lab Control Sample	75
LCSD 280-439312/3-A	Lab Control Sample Dup	78
MB 280-439312/1-A	Method Blank	74

### Surrogate Legend

OTPH = o-Terphenyl

# QC Sample Results

Client: Stantec Consulting Corp.  
Project/Site: Chevron Rangely, CO CS-47

TestAmerica Job ID: 280-117430-1

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

Lab Sample ID: MB 490-560747/6

Matrix: Water

Analysis Batch: 560747

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	0.20	ug/L			11/30/18 15:51	1
Ethylbenzene	ND		1.0	0.19	ug/L			11/30/18 15:51	1
m,p-Xylene	ND		2.0	0.38	ug/L			11/30/18 15:51	1
o-Xylene	ND		1.0	0.20	ug/L			11/30/18 15:51	1
Toluene	ND		1.0	0.17	ug/L			11/30/18 15:51	1
Xylenes, Total	ND		3.0	0.58	ug/L			11/30/18 15:51	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		70 - 130		11/30/18 15:51	1
4-Bromofluorobenzene (Surr)	94		70 - 130		11/30/18 15:51	1
Dibromofluoromethane (Surr)	101		70 - 130		11/30/18 15:51	1
Toluene-d8 (Surr)	102		70 - 130		11/30/18 15:51	1

Lab Sample ID: LCS 490-560747/3

Matrix: Water

Analysis Batch: 560747

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	20.0	21.0		ug/L		105	70 - 130
Ethylbenzene	20.0	21.5		ug/L		108	70 - 130
m,p-Xylene	20.0	21.6		ug/L		108	70 - 130
o-Xylene	20.0	21.4		ug/L		107	70 - 130
Toluene	20.0	21.7		ug/L		109	70 - 130
Xylenes, Total	40.0	43.0		ug/L		108	70 - 132

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	111		70 - 130
4-Bromofluorobenzene (Surr)	98		70 - 130
Dibromofluoromethane (Surr)	102		70 - 130
Toluene-d8 (Surr)	105		70 - 130

Lab Sample ID: LCSD 490-560747/4

Matrix: Water

Analysis Batch: 560747

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	20.0	20.7		ug/L		104	70 - 130	1	12
Ethylbenzene	20.0	21.3		ug/L		107	70 - 130	1	12
m,p-Xylene	20.0	21.4		ug/L		107	70 - 130	1	12
o-Xylene	20.0	21.5		ug/L		108	70 - 130	0	11
Toluene	20.0	21.4		ug/L		107	70 - 130	2	13
Xylenes, Total	40.0	42.9		ug/L		107	70 - 132	0	11

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	97		70 - 130
4-Bromofluorobenzene (Surr)	99		70 - 130
Dibromofluoromethane (Surr)	96		70 - 130

TestAmerica Denver

# QC Sample Results

Client: Stantec Consulting Corp.  
Project/Site: Chevron Rangely, CO CS-47

TestAmerica Job ID: 280-117430-1

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

Lab Sample ID: LCSD 490-560747/4

Matrix: Water

Analysis Batch: 560747

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
Toluene-d8 (Surr)	103		70 - 130

Lab Sample ID: 280-117430-3 MS

Matrix: Water

Analysis Batch: 560747

Client Sample ID: MW-3-112818

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	ND		20.0	19.4		ug/L		97	55 - 147
Ethylbenzene	ND		20.0	19.7		ug/L		99	65 - 139
m,p-Xylene	ND		20.0	19.4		ug/L		97	70 - 130
o-Xylene	ND		20.0	19.7		ug/L		98	70 - 131
Toluene	ND		20.0	19.9		ug/L		100	64 - 136
Xylenes, Total	ND		40.0	39.1		ug/L		98	69 - 132

Surrogate	MS %Recovery	MS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	98		70 - 130
4-Bromofluorobenzene (Surr)	97		70 - 130
Dibromofluoromethane (Surr)	98		70 - 130
Toluene-d8 (Surr)	103		70 - 130

Lab Sample ID: 280-117430-3 MSD

Matrix: Water

Analysis Batch: 560747

Client Sample ID: MW-3-112818

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	ND		20.0	22.5		ug/L		112	55 - 147	14	22
Ethylbenzene	ND		20.0	22.4		ug/L		112	65 - 139	13	18
m,p-Xylene	ND		20.0	22.5		ug/L		112	70 - 130	15	17
o-Xylene	ND		20.0	22.9		ug/L		115	70 - 131	15	17
Toluene	ND		20.0	22.5		ug/L		113	64 - 136	12	18
Xylenes, Total	ND		40.0	45.4		ug/L		114	69 - 132	15	17

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	114		70 - 130
4-Bromofluorobenzene (Surr)	97		70 - 130
Dibromofluoromethane (Surr)	107		70 - 130
Toluene-d8 (Surr)	102		70 - 130

Lab Sample ID: MB 490-561359/9

Matrix: Water

Analysis Batch: 561359

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	0.20	ug/L			12/04/18 17:33	1
Ethylbenzene	ND		1.0	0.19	ug/L			12/04/18 17:33	1
m,p-Xylene	ND		2.0	0.38	ug/L			12/04/18 17:33	1
o-Xylene	ND		1.0	0.20	ug/L			12/04/18 17:33	1

TestAmerica Denver



# QC Sample Results

Client: Stantec Consulting Corp.  
Project/Site: Chevron Rangely, CO CS-47

TestAmerica Job ID: 280-117430-1

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

Lab Sample ID: MB 490-561359/9

Matrix: Water

Analysis Batch: 561359

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	ND		1.0	0.17	ug/L			12/04/18 17:33	1
Xylenes, Total	ND		3.0	0.58	ug/L			12/04/18 17:33	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	119		70 - 130					12/04/18 17:33	1
4-Bromofluorobenzene (Surr)	92		70 - 130					12/04/18 17:33	1
Dibromofluoromethane (Surr)	114		70 - 130					12/04/18 17:33	1
Toluene-d8 (Surr)	98		70 - 130					12/04/18 17:33	1

Lab Sample ID: LCS 490-561359/3

Matrix: Water

Analysis Batch: 561359

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	20.0	20.2		ug/L		101	70 - 130
Ethylbenzene	20.0	20.5		ug/L		103	70 - 130
m,p-Xylene	20.0	20.6		ug/L		103	70 - 130
o-Xylene	20.0	20.8		ug/L		104	70 - 130
Toluene	20.0	20.5		ug/L		102	70 - 130
Xylenes, Total	40.0	41.4		ug/L		104	70 - 132
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
1,2-Dichloroethane-d4 (Surr)	120		70 - 130				
4-Bromofluorobenzene (Surr)	97		70 - 130				
Dibromofluoromethane (Surr)	109		70 - 130				
Toluene-d8 (Surr)	102		70 - 130				

Lab Sample ID: LCSD 490-561359/4

Matrix: Water

Analysis Batch: 561359

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	20.0	20.7		ug/L		103	70 - 130	2	12
Ethylbenzene	20.0	20.7		ug/L		104	70 - 130	1	12
m,p-Xylene	20.0	21.0		ug/L		105	70 - 130	2	12
o-Xylene	20.0	21.2		ug/L		106	70 - 130	2	11
Toluene	20.0	20.4		ug/L		102	70 - 130	1	13
Xylenes, Total	40.0	42.2		ug/L		106	70 - 132	2	11
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
1,2-Dichloroethane-d4 (Surr)	111		70 - 130						
4-Bromofluorobenzene (Surr)	95		70 - 130						
Dibromofluoromethane (Surr)	109		70 - 130						
Toluene-d8 (Surr)	100		70 - 130						

TestAmerica Denver

# QC Sample Results

Client: Stantec Consulting Corp.  
Project/Site: Chevron Rangely, CO CS-47

TestAmerica Job ID: 280-117430-1

## Method: 8015D - Gasoline Range Organics (GRO) (GC)

Lab Sample ID: MB 490-561473/7

Matrix: Water

Analysis Batch: 561473

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)	ND		100	50	ug/L	-		12/05/18 12:36	1
-C6-C10									
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	86		50 - 150					12/05/18 12:36	1

Lab Sample ID: LCS 490-561473/5

Matrix: Water

Analysis Batch: 561473

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte		Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits	
Gasoline Range Organics (GRO)		1000	968		ug/L	-	97	66 - 140	
-C6-C10									
Surrogate	LCS %Recovery	LCS Qualifier	Limits						
a,a,a-Trifluorotoluene	77		50 - 150						

Lab Sample ID: LCSD 490-561473/6

Matrix: Water

Analysis Batch: 561473

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte		Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)		1000	941		ug/L	-	94	66 - 140	3	42
-C6-C10										
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits							
a,a,a-Trifluorotoluene	76		50 - 150							

Lab Sample ID: 280-117430-1 MS

Matrix: Water

Analysis Batch: 561473

Client Sample ID: MW-1R-112818

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits	
Gasoline Range Organics (GRO)	ND		1000	730		ug/L	-	73	33 - 175	
-C6-C10										
Surrogate	MS %Recovery	MS Qualifier	Limits							
a,a,a-Trifluorotoluene	92		50 - 150							

Lab Sample ID: 280-117430-1 MSD

Matrix: Water

Analysis Batch: 561473

Client Sample ID: MW-1R-112818

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)	ND		1000	898		ug/L	-	90	33 - 175	21	42
-C6-C10											

TestAmerica Denver

# QC Sample Results

Client: Stantec Consulting Corp.  
Project/Site: Chevron Rangely, CO CS-47

TestAmerica Job ID: 280-117430-1

## Method: 8015D - Gasoline Range Organics (GRO) (GC) (Continued)

Lab Sample ID: 280-117430-1 MSD

Matrix: Water

Analysis Batch: 561473

Client Sample ID: MW-1R-112818

Prep Type: Total/NA

Surrogate	MSD %Recovery	MSD Qualifier	Limits
a,a,a-Trifluorotoluene	91		50 - 150

## Method: 8015B - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 280-439312/1-A

Matrix: Water

Analysis Batch: 440110

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 439312

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		0.25	0.033	mg/L		11/29/18 17:11	12/06/18 21:57	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	74		50 - 115				11/29/18 17:11	12/06/18 21:57	1

Lab Sample ID: LCS 280-439312/2-A

Matrix: Water

Analysis Batch: 440110

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 439312

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Diesel Range Organics [C10-C28]	2.00	1.60		mg/L		80	54 - 115
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
o-Terphenyl	75		50 - 115				

Lab Sample ID: LCSD 280-439312/3-A

Matrix: Water

Analysis Batch: 440110

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 439312

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]	2.00	1.73		mg/L		87	54 - 115	8	31
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
o-Terphenyl	78		50 - 115						

## Method: 9056A - Anions, Ion Chromatography

Lab Sample ID: MB 280-439958/6

Matrix: Water

Analysis Batch: 439958

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		3.0	0.25	mg/L			12/05/18 14:17	1
Sulfate	ND		5.0	0.23	mg/L			12/05/18 14:17	1

TestAmerica Denver



# QC Sample Results

Client: Stantec Consulting Corp.  
Project/Site: Chevron Rangely, CO CS-47

TestAmerica Job ID: 280-117430-1

## Method: 9056A - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 280-439958/4

Matrix: Water

Analysis Batch: 439958

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	100	100		mg/L		100	90 - 110
Sulfate	100	101		mg/L		101	90 - 110

Lab Sample ID: LCSD 280-439958/5

Matrix: Water

Analysis Batch: 439958

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	100	100		mg/L		100	90 - 110	0	10
Sulfate	100	106		mg/L		106	90 - 110	5	10

Lab Sample ID: MRL 280-439958/3

Matrix: Water

Analysis Batch: 439958

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	2.50	2.51	J	mg/L		100	50 - 150
Sulfate	2.50	2.40	J	mg/L		96	50 - 150

# QC Association Summary

Client: Stantec Consulting Corp.  
Project/Site: Chevron Rangely, CO CS-47

TestAmerica Job ID: 280-117430-1

## GC/MS VOA

### Analysis Batch: 560747

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-117430-1	MW-1R-112818	Total/NA	Water	8260B	
280-117430-2	MW-2-112818	Total/NA	Water	8260B	
280-117430-3	MW-3-112818	Total/NA	Water	8260B	
280-117430-4	MW-4-112818	Total/NA	Water	8260B	
280-117430-5	MW-5-112818	Total/NA	Water	8260B	
280-117430-6	MW-6-112818	Total/NA	Water	8260B	
280-117430-7	TW-1-112818	Total/NA	Water	8260B	
280-117430-8	DUP-1-112818	Total/NA	Water	8260B	
MB 490-560747/6	Method Blank	Total/NA	Water	8260B	
LCS 490-560747/3	Lab Control Sample	Total/NA	Water	8260B	
LCSD 490-560747/4	Lab Control Sample Dup	Total/NA	Water	8260B	
280-117430-3 MS	MW-3-112818	Total/NA	Water	8260B	
280-117430-3 MSD	MW-3-112818	Total/NA	Water	8260B	

### Analysis Batch: 561359

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-117430-9	TRIP BLANK	Total/NA	Water	8260B	
MB 490-561359/9	Method Blank	Total/NA	Water	8260B	
LCS 490-561359/3	Lab Control Sample	Total/NA	Water	8260B	
LCSD 490-561359/4	Lab Control Sample Dup	Total/NA	Water	8260B	

## GC VOA

### Analysis Batch: 561473

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-117430-1	MW-1R-112818	Total/NA	Water	8015D	
280-117430-2	MW-2-112818	Total/NA	Water	8015D	
280-117430-3	MW-3-112818	Total/NA	Water	8015D	
280-117430-4	MW-4-112818	Total/NA	Water	8015D	
280-117430-5	MW-5-112818	Total/NA	Water	8015D	
280-117430-6	MW-6-112818	Total/NA	Water	8015D	
280-117430-7	TW-1-112818	Total/NA	Water	8015D	
280-117430-8	DUP-1-112818	Total/NA	Water	8015D	
MB 490-561473/7	Method Blank	Total/NA	Water	8015D	
LCS 490-561473/5	Lab Control Sample	Total/NA	Water	8015D	
LCSD 490-561473/6	Lab Control Sample Dup	Total/NA	Water	8015D	
280-117430-1 MS	MW-1R-112818	Total/NA	Water	8015D	
280-117430-1 MSD	MW-1R-112818	Total/NA	Water	8015D	

## GC Semi VOA

### Prep Batch: 439312

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-117430-1	MW-1R-112818	Total/NA	Water	3510C	
280-117430-2	MW-2-112818	Total/NA	Water	3510C	
280-117430-3	MW-3-112818	Total/NA	Water	3510C	
280-117430-4	MW-4-112818	Total/NA	Water	3510C	
280-117430-5	MW-5-112818	Total/NA	Water	3510C	
280-117430-6	MW-6-112818	Total/NA	Water	3510C	
280-117430-7	TW-1-112818	Total/NA	Water	3510C	

TestAmerica Denver

## QC Association Summary

Client: Stantec Consulting Corp.  
Project/Site: Chevron Rangely, CO CS-47

TestAmerica Job ID: 280-117430-1

### GC Semi VOA (Continued)

#### Prep Batch: 439312 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-117430-8	DUP-1-112818	Total/NA	Water	3510C	
MB 280-439312/1-A	Method Blank	Total/NA	Water	3510C	
LCS 280-439312/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 280-439312/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	

#### Analysis Batch: 440110

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-117430-1	MW-1R-112818	Total/NA	Water	8015B	439312
280-117430-2	MW-2-112818	Total/NA	Water	8015B	439312
280-117430-3	MW-3-112818	Total/NA	Water	8015B	439312
280-117430-4	MW-4-112818	Total/NA	Water	8015B	439312
280-117430-5	MW-5-112818	Total/NA	Water	8015B	439312
280-117430-6	MW-6-112818	Total/NA	Water	8015B	439312
280-117430-7	TW-1-112818	Total/NA	Water	8015B	439312
280-117430-8	DUP-1-112818	Total/NA	Water	8015B	439312
MB 280-439312/1-A	Method Blank	Total/NA	Water	8015B	439312
LCS 280-439312/2-A	Lab Control Sample	Total/NA	Water	8015B	439312
LCSD 280-439312/3-A	Lab Control Sample Dup	Total/NA	Water	8015B	439312

### General Chemistry

#### Analysis Batch: 439958

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-117430-1	MW-1R-112818	Total/NA	Water	9056A	
280-117430-1	MW-1R-112818	Total/NA	Water	9056A	
280-117430-2	MW-2-112818	Total/NA	Water	9056A	
280-117430-3	MW-3-112818	Total/NA	Water	9056A	
280-117430-4	MW-4-112818	Total/NA	Water	9056A	
280-117430-5	MW-5-112818	Total/NA	Water	9056A	
280-117430-6	MW-6-112818	Total/NA	Water	9056A	
280-117430-7	TW-1-112818	Total/NA	Water	9056A	
280-117430-7	TW-1-112818	Total/NA	Water	9056A	
280-117430-8	DUP-1-112818	Total/NA	Water	9056A	
280-117430-8	DUP-1-112818	Total/NA	Water	9056A	
MB 280-439958/6	Method Blank	Total/NA	Water	9056A	
LCS 280-439958/4	Lab Control Sample	Total/NA	Water	9056A	
LCSD 280-439958/5	Lab Control Sample Dup	Total/NA	Water	9056A	
MRL 280-439958/3	Lab Control Sample	Total/NA	Water	9056A	

TestAmerica Denver



# Lab Chronicle

Client: Stantec Consulting Corp.  
Project/Site: Chevron Rangely, CO CS-47

TestAmerica Job ID: 280-117430-1

**Client Sample ID: MW-1R-112818**

**Date Collected: 11/28/18 08:10**

**Date Received: 11/28/18 16:40**

**Lab Sample ID: 280-117430-1**

**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	10 mL	10 mL	560747	11/30/18 19:08	S1S	TAL NSH
Total/NA	Analysis	8015D		1	5 mL	5 mL	561473	12/05/18 19:04	S1S	TAL NSH
Total/NA	Prep	3510C			1001.1 mL	1 mL	439312	11/29/18 17:11	AJE	TAL DEN
Total/NA	Analysis	8015B		1			440110	12/07/18 02:18	CSM	TAL DEN
Total/NA	Analysis	9056A		5	5 mL	5 mL	439958	12/05/18 23:13	A1D	TAL DEN
Total/NA	Analysis	9056A		100	5 mL	5 mL	439958	12/05/18 23:31	A1D	TAL DEN

**Client Sample ID: MW-2-112818**

**Date Collected: 11/28/18 08:50**

**Date Received: 11/28/18 16:40**

**Lab Sample ID: 280-117430-2**

**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	10 mL	10 mL	560747	11/30/18 19:36	S1S	TAL NSH
Total/NA	Analysis	8015D		1	5 mL	5 mL	561473	12/05/18 21:24	S1S	TAL NSH
Total/NA	Prep	3510C			934.3 mL	1 mL	439312	11/29/18 17:11	AJE	TAL DEN
Total/NA	Analysis	8015B		1			440110	12/07/18 02:39	CSM	TAL DEN
Total/NA	Analysis	9056A		20	5 mL	5 mL	439958	12/06/18 00:46	A1D	TAL DEN

**Client Sample ID: MW-3-112818**

**Date Collected: 11/28/18 09:30**

**Date Received: 11/28/18 16:40**

**Lab Sample ID: 280-117430-3**

**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	10 mL	10 mL	560747	11/30/18 17:19	S1S	TAL NSH
Total/NA	Analysis	8015D		1	5 mL	5 mL	561473	12/05/18 21:59	S1S	TAL NSH
Total/NA	Prep	3510C			930.1 mL	1 mL	439312	11/29/18 17:11	AJE	TAL DEN
Total/NA	Analysis	8015B		1			440110	12/07/18 03:01	CSM	TAL DEN
Total/NA	Analysis	9056A		50	5 mL	5 mL	439958	12/06/18 01:24	A1D	TAL DEN

**Client Sample ID: MW-4-112818**

**Date Collected: 11/28/18 10:10**

**Date Received: 11/28/18 16:40**

**Lab Sample ID: 280-117430-4**

**Matrix: Water**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	10 mL	10 mL	560747	11/30/18 20:30	S1S	TAL NSH
Total/NA	Analysis	8015D		1	5 mL	5 mL	561473	12/05/18 22:33	S1S	TAL NSH
Total/NA	Prep	3510C			884.6 mL	1 mL	439312	11/29/18 17:11	AJE	TAL DEN
Total/NA	Analysis	8015B		1			440110	12/07/18 03:23	CSM	TAL DEN
Total/NA	Analysis	9056A		50	5 mL	5 mL	439958	12/06/18 02:01	A1D	TAL DEN

TestAmerica Denver

# Lab Chronicle

Client: Stantec Consulting Corp.  
Project/Site: Chevron Rangely, CO CS-47

TestAmerica Job ID: 280-117430-1

**Client Sample ID: MW-5-112818**

**Lab Sample ID: 280-117430-5**

**Date Collected: 11/28/18 10:40**

**Matrix: Water**

**Date Received: 11/28/18 16:40**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	10 mL	10 mL	560747	11/30/18 18:13	S1S	TAL NSH
Total/NA	Analysis	8015D		1	5 mL	5 mL	561473	12/05/18 23:08	S1S	TAL NSH
Total/NA	Prep	3510C			969.9 mL	1 mL	439312	11/29/18 17:11	AJE	TAL DEN
Total/NA	Analysis	8015B		1			440110	12/07/18 03:45	CSM	TAL DEN
Total/NA	Analysis	9056A		50	5 mL	5 mL	439958	12/06/18 02:38	A1D	TAL DEN

**Client Sample ID: MW-6-112818**

**Lab Sample ID: 280-117430-6**

**Date Collected: 11/28/18 11:40**

**Matrix: Water**

**Date Received: 11/28/18 16:40**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	10 mL	10 mL	560747	11/30/18 20:03	S1S	TAL NSH
Total/NA	Analysis	8015D		1	5 mL	5 mL	561473	12/05/18 23:43	S1S	TAL NSH
Total/NA	Prep	3510C			958.8 mL	1 mL	439312	11/29/18 17:11	AJE	TAL DEN
Total/NA	Analysis	8015B		1			440110	12/07/18 04:06	CSM	TAL DEN
Total/NA	Analysis	9056A		50	5 mL	5 mL	439958	12/06/18 03:16	A1D	TAL DEN

**Client Sample ID: TW-1-112818**

**Lab Sample ID: 280-117430-7**

**Date Collected: 11/28/18 07:30**

**Matrix: Water**

**Date Received: 11/28/18 16:40**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	10 mL	10 mL	560747	11/30/18 18:41	S1S	TAL NSH
Total/NA	Analysis	8015D		1	5 mL	5 mL	561473	12/06/18 00:17	S1S	TAL NSH
Total/NA	Prep	3510C			820.7 mL	1 mL	439312	11/29/18 17:11	AJE	TAL DEN
Total/NA	Analysis	8015B		1			440110	12/07/18 05:33	CSM	TAL DEN
Total/NA	Analysis	9056A		2	5 mL	5 mL	439958	12/06/18 04:12	A1D	TAL DEN
Total/NA	Analysis	9056A		50	5 mL	5 mL	439958	12/06/18 04:31	A1D	TAL DEN

**Client Sample ID: DUP-1-112818**

**Lab Sample ID: 280-117430-8**

**Date Collected: 11/28/18 08:20**

**Matrix: Water**

**Date Received: 11/28/18 16:40**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	10 mL	10 mL	560747	11/30/18 17:46	S1S	TAL NSH
Total/NA	Analysis	8015D		1	5 mL	5 mL	561473	12/06/18 00:52	S1S	TAL NSH
Total/NA	Prep	3510C			1010 mL	1 mL	439312	11/29/18 17:11	AJE	TAL DEN
Total/NA	Analysis	8015B		1			440110	12/07/18 05:55	CSM	TAL DEN
Total/NA	Analysis	9056A		5	5 mL	5 mL	439958	12/06/18 04:50	A1D	TAL DEN
Total/NA	Analysis	9056A		100	5 mL	5 mL	439958	12/06/18 05:08	A1D	TAL DEN

TestAmerica Denver

# Lab Chronicle

Client: Stantec Consulting Corp.  
Project/Site: Chevron Rangely, CO CS-47

TestAmerica Job ID: 280-117430-1

**Client Sample ID: TRIP BLANK**

**Lab Sample ID: 280-117430-9**

**Date Collected: 11/28/18 07:30**

**Matrix: Water**

**Date Received: 11/28/18 16:40**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	10 mL	10 mL	561359	12/04/18 18:01	RP	TAL NSH

## Laboratory References:

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

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



# Accreditation/Certification Summary

Client: Stantec Consulting Corp.  
Project/Site: Chevron Rangely, CO CS-47

TestAmerica Job ID: 280-117430-1

## Laboratory: TestAmerica Denver

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

Authority	Program	EPA Region	Identification Number	Expiration Date
A2LA	DoD ELAP		2907.01	10-31-19
A2LA	ISO/IEC 17025		2907.01	10-31-19
Alabama	State Program	4	40730	09-30-12 *
Alaska (UST)	State Program	10	UST-30	01-08-19
Arizona	State Program	9	AZ0713	12-20-19
Arkansas DEQ	State Program	6	88-0687	06-01-19
California	State Program	9	2513	01-18-19
Connecticut	State Program	1	PH-0686	09-30-20
Florida	NELAP	4	E87667	06-30-19
Georgia	State Program	4	N/A	01-08-19 *
Illinois	NELAP	5	200017	04-30-19
Iowa	State Program	7	370	12-01-18 *
Kansas	NELAP	7	E-10166	04-30-19
Louisiana	NELAP	6	02096	06-30-19
Maine	State Program	1	CO0002	03-03-19
Minnesota	NELAP	5	8-999-405	12-31-19
Nevada	State Program	9	CO0026	07-31-19
New Hampshire	NELAP	1	205310	04-28-19
New Jersey	NELAP	2	CO004	06-30-19
New York	NELAP	2	11964	04-01-19
North Carolina (WW/SW)	State Program	4	358	12-31-19
North Dakota	State Program	8	R-034	01-08-19
Oklahoma	State Program	6	8614	08-31-19
Oregon	NELAP	10	4025	01-08-19
Pennsylvania	NELAP	3	68-00664	07-31-19
South Carolina	State Program	4	72002001	01-08-19
Texas	NELAP	6	T104704183-18-15	09-30-19
US Fish & Wildlife	Federal			07-31-19
USDA	Federal			03-26-21
Utah	NELAP	8	CO00026	07-31-19
Virginia	NELAP	3	460232	06-14-19
Washington	State Program	10	C583	08-03-19
West Virginia DEP	State Program	3	354	01-31-19
Wisconsin	State Program	5	999615430	08-31-19 *
Wyoming (UST)	A2LA	8	2907.01	10-31-19

## Laboratory: TestAmerica Nashville

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

Authority	Program	EPA Region	Identification Number	Expiration Date
A2LA	ISO/IEC 17025		0453.07	12-31-19
Alaska (UST)	State Program	10	UST-087	06-30-19
Arizona	State Program	9	AZ0473	05-05-19
Arkansas DEQ	State Program	6	88-0737	04-25-19
California	State Program	9	2938	10-31-18 *
Connecticut	State Program	1	PH-0220	12-31-19
Florida	NELAP	4	E87358	06-30-19
Georgia	State Program	4	NA: NELAP & A2LA	12-31-19
Illinois	NELAP	5	200010	12-09-18 *
Iowa	State Program	7	131	04-01-20

\* Accreditation/Certification renewal pending - accreditation/certification considered valid.

TestAmerica Denver

# Accreditation/Certification Summary

Client: Stantec Consulting Corp.  
Project/Site: Chevron Rangely, CO CS-47

TestAmerica Job ID: 280-117430-1

## Laboratory: TestAmerica Nashville (Continued)

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

Authority	Program	EPA Region	Identification Number	Expiration Date
Kansas	NELAP	7	E-10229	10-31-19
Kentucky (UST)	State Program	4	19	06-30-19
Kentucky (WW)	State Program	4	90038	12-31-19
Louisiana	NELAP	6	30613	06-30-19
Maine	State Program	1	TN00032	11-03-19
Maryland	State Program	3	316	03-31-19
Massachusetts	State Program	1	M-TN032	06-30-19
Minnesota	NELAP	5	047-999-345	12-31-19
Mississippi	State Program	4	N/A	06-30-19
Montana (UST)	State Program	8	NA	02-24-20
Nevada	State Program	9	TN00032	07-31-19
New Hampshire	NELAP	1	2963	10-09-19
New Jersey	NELAP	2	TN965	06-30-19
New York	NELAP	2	11342	03-31-19
North Carolina (WW/SW)	State Program	4	387	12-31-19
North Dakota	State Program	8	R-146	06-30-19
Ohio VAP	State Program	5	CL0033	07-06-19
Oklahoma	State Program	6	9412	08-31-19
Oregon	NELAP	10	TN200001	04-26-19
Pennsylvania	NELAP	3	68-00585	07-31-19
Rhode Island	State Program	1	LAO00268	12-30-19
South Carolina	State Program	4	84009 (001)	02-28-19
Tennessee	State Program	4	2008	02-23-20
Texas	NELAP	6	T104704077	08-31-19
USDA	Federal		P330-13-00306	12-01-19
Utah	NELAP	8	TN00032	07-31-19
Virginia	NELAP	3	460152	06-14-19
Washington	State Program	10	C789	07-19-19
West Virginia DEP	State Program	3	219	02-28-19
Wisconsin	State Program	5	998020430	08-31-19
Wyoming (UST)	A2LA	8	453.07	12-31-19

**TestAmerica Denver**  
4955 Yarrow Street  
Arvada, CO 80002  
Phone (303) 736-0100 Fax (303) 431-7171

## Chain of Custody Record

<b>Client Information</b> Client Contact: Chris Beall Company: Stantec Consulting Corp. Address: 2000 South Colorado Blvd Suite 2-300 City: Denver State, Zip: CO, 80222 Phone: _____ Email: Christopher.beall@stantec.com		Lab PM: Jamie Ide, 303-736-0126 Phone: 720 233-1409 E-Mail: jamie.ide@testamericainc.com		Carrier Tracking No(s): _____ COC No: _____ Page: _____ of _____ Job #: _____																																																																																																															
<b>Analysis Requested</b>																																																																																																																			
Due Date Requested: _____ TAT Requested (days): _____ PO #: _____ WIO #: _____ Project #: 28016570 SSOW #: _____		Preservation Codes: A - HCL      M - Hexane B - NaOH      N - None C - Zn Acetate      O - AsNaO2 D - Nitric Acid      P - Na2O4S E - NaHSO4      Q - Na2SO3 F - MeOH      R - Na2S2O3 G - Amchlor      S - H2SO4 H - Ascorbic Acid      T - TSP Dodecahydrate I - Ice      U - Acetone J - DI Water      V - MCAA K - EDTA      W - pH 4-5 L - EDA      Z - other (specify) _____ Other: _____																																																																																																																	
<b>Sample Identification</b> MW-1R-112818 MW-2-112818 MW-3-112818 MW-4-112818 MW-5-112818 MW-6-112818 TW-1-112818 DUP-1-112818 Trip Blank		<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th>Sample Date</th> <th>Sample Time</th> <th>Sample Type (C=Comp, G=grab)</th> <th>Matrix (W=water, S=solid, O=organic, A=air)</th> <th>Field Filtered Sample (Yes or No)</th> <th>Perform MS/MSD (Yes or No)</th> <th>8260B - BTEX</th> <th>8015D - GRO</th> <th>8015D - DRO</th> <th>300.0 - Chlorides/Sulfates</th> <th>Special Instructions/Note:</th> </tr> <tr> <td>11/28/18</td> <td>810</td> <td>G</td> <td>W</td> <td>N</td> <td>N</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td></td> </tr> <tr> <td></td> <td>850</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td>930</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td>1010</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td>1040</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td>1140</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td>730</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td>820</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>11/28/18</td> <td>730</td> <td></td> <td></td> <td></td> <td></td> <td>X</td> <td></td> <td></td> <td></td> <td>280-117430 Chain of Custody</td> </tr> </table>				Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=organic, A=air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260B - BTEX	8015D - GRO	8015D - DRO	300.0 - Chlorides/Sulfates	Special Instructions/Note:	11/28/18	810	G	W	N	N	X	X	X	X			850											930											1010											1040											1140											730											820										11/28/18	730					X				280-117430 Chain of Custody
Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=organic, A=air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260B - BTEX	8015D - GRO	8015D - DRO	300.0 - Chlorides/Sulfates	Special Instructions/Note:																																																																																																									
11/28/18	810	G	W	N	N	X	X	X	X																																																																																																										
	850																																																																																																																		
	930																																																																																																																		
	1010																																																																																																																		
	1040																																																																																																																		
	1140																																																																																																																		
	730																																																																																																																		
	820																																																																																																																		
11/28/18	730					X				280-117430 Chain of Custody																																																																																																									
<b>Possible Hazard Identification</b> <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological Deliverable Requested: I, II, III, IV, Other (specify) _____																																																																																																																			
<b>Sample Disposal</b> (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months Special Instructions/OC Requirements: _____																																																																																																																			
<b>Empty Kit Relinquished by:</b> _____ Relinquished by: <i>3/2/18</i> Relinquished by: _____ Relinquished by: _____																																																																																																																			
<b>Custody Seal No.:</b> _____ Custody Seal Intact: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No																																																																																																																			





THE LEADER IN ENVIRONMENTAL TESTING  
Nashville, TN

## COOLER RECEIPT FORM



280-117430 Chain of Custody

Cooler Received/Opened On 11/30/2018 @ 0955

Time Samples Removed From Cooler 1500 Time Samples Placed In Storage 1524 (2 Hour Window)

1. Tracking # 2901 (last 4 digits, FedEx) Courier: FedEx  
IR Gun ID 17610176 pH Strip Lot ✓ Chlorine Strip Lot ✓
2. Temperature of rep. sample or temp blank when opened: 2.7 Degrees Celsius
3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen? YES NO NA
4. Were custody seals on outside of cooler? 1 (Front)  
If yes, how many and where: 1 (Front)
5. Were the seals intact, signed, and dated correctly? YES ✓ NO NA
6. Were custody papers inside cooler? YES ✓ NO NA
- I certify that I opened the cooler and answered questions 1-6 (Initial) 2-2
7. Were custody seals on containers: YES NO and Intact YES...NO...NA  
Were these signed and dated correctly? YES...NO...NA
8. Packing mat'l used? Bubblewrap Plastic bag Peanuts Vermiculite Foam Insert Paper Other None
9. Cooling process: Ice Ice-pack Ice (direct contact) Dry Ice Other None
10. Did all containers arrive in good condition (unbroken)? YES ✓ NO...NA
11. Were all container labels complete (#, date, signed, pres., etc)? YES ✓ NO...NA
12. Did all container labels and tags agree with custody papers? YES ✓ NO...NA
- 13a. Were VOA vials received? YES ✓ NO...NA
- b. Was there any observable headspace present in any VOA vial? YES NO...NA



➔ Larger than this.

14. Was there a Trip Blank in this cooler? YES NO...NA If multiple coolers, sequence # TR-11/30/18
- I certify that I unloaded the cooler and answered questions 7-14 (Initial) TR
- 15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? YES...NO...NA
- b. Did the bottle labels indicate that the correct preservatives were used? YES...NO...NA
16. Was residual chlorine present? YES...NO...NA
- I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (Initial) TR
17. Were custody papers properly filled out (ink, signed, etc)? YES ✓ NO...NA
18. Did you sign the custody papers in the appropriate place? YES ✓ NO...NA
19. Were correct containers used for the analysis requested? YES ✓ NO...NA
20. Was sufficient amount of sample sent in each container? YES ✓ NO...NA
- I certify that I entered this project into LIMS and answered questions 17-20 (Initial) TR
- I certify that I attached a label with the unique LIMS number to each container (Initial) TR
21. Were there Non-Conformance issues at login? YES NO Was a NCM generated? YES NO...# ✓

TestAmerica Denver  
4955 Yarrow Street  
Avada, CO 80002  
Phone (303) 736-0100 Fax (303) 431-7171

## Chain of Custody Record

Loc: 280

117430

TestAmerica

THE EASIEST WAY TO ENSURE ACCURATE TESTING

Client Information (Sub Contract Lab)				Lab PM:		Lab No:				
Shipping/Receiving				Ide, Jamie N		280-464185.1				
Company:				E-Mail:		Page:				
TestAmerica Laboratories, Inc				jamie.ide@testamericainc.com		Page 1 of 1				
Address:				State of Origin:		Job #:				
2860 Foster Creighton Drive,				Colorado		280-117430-1				
City:				Accreditations Required (See note):		Preservation Codes:				
Nashville						A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2SO4 S - H2SO4 T - TSP Dodecalhydrate U - Acetone V - MCAA W - pH 4-5 Z - other (specify)				
State, Zip:				Due Date Requested:		Analysis Requested				
TN, 37204				12/1/2018						
Phone:				TAT Requested (days):						
615-726-0177(Tel) 615-726-3404(Fax)				0						
Email:				PO #:						
				WO #:						
Project Name:				Project #:						
Chevron Rangely, CO CS-47				28016570						
Site:				SSOW#:						
Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix (V=Water, S=Soil, O=Other)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260B/5030B BTEX	8015D_GRO/5030C GRO, C6-C10	Total Number of Containers	Special Instructions/Note:
MW-1R-112818 (280-117430-1)	11/28/18	08:10	Mountain	Water	X	X	X	X	2	
MW-2-112818 (280-117430-2)	11/28/18	08:50	Mountain	Water	X	X	X	X	6	
MW-3-112818 (280-117430-3)	11/28/18	09:30	Mountain	Water	X	X	X	X	6	
MW-4-112818 (280-117430-4)	11/28/18	10:10	Mountain	Water	X	X	X	X	5	11-29-2018 CB
MW-5-112818 (280-117430-5)	11/28/18	10:40	Mountain	Water	X	X	X	X	6	
MW-6-112818 (280-117430-6)	11/28/18	11:40	Mountain	Water	X	X	X	X	6	
TW-1-112818 (280-117430-7)	11/28/18	07:30	Mountain	Water	X	X	X	X	6	
DUP-1-112818 (280-117430-8)	11/28/18	08:20	Mountain	Water	X	X	X	X	6	
TRIP BLANK (280-117430-9)	11/28/18	07:30	Mountain	Water	X	X	X	X	3	

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/test/matrix being analyzed, the samples must be shipped back to the TestAmerica Laboratory or other instructions will be provided. Any changes to accreditation status should be brought to TestAmerica Laboratories, Inc. attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to TestAmerica Laboratories, Inc.

**Possible Hazard Identification**

Unconfirmed Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)  
☐ Return To Client ☐ Disposal By Lab ☐ Archive For Months

Special Instructions/QC Requirements:

Empty Kit Relinquished by: Date: Time: Method of Shipment:

Relinquished by: Date/Time: Received by: Date/Time: Company:

Relinquished by: Date/Time: Received by: Date/Time: Company:

Relinquished by: Date/Time: Received by: Date/Time: Company:

Custody Seals Intact: Custody Seal No.:  
Δ Yes Δ No

Cooler Temperature(s) °C and Other Remarks: 955 11/28/18 TA-WAS

Ver: 09/20/2016

## Login Sample Receipt Checklist

Client: Stantec Consulting Corp.

Job Number: 280-117430-1

**Login Number: 117430**

**List Source: TestAmerica Denver**

**List Number: 1**

**Creator: Quint, Jessica A**

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