

State of Colorado
Oil and Gas Conservation Commission



1120 Lincoln Street, Suite 801, Denver, Colorado 80203 (303)894-2100 Fax:(303)894-2109

FOR OGCC USE ONLY	
OGCC Employee:	
Spill Inspection	Complaint NOAV
Tracking No:	

SITE INVESTIGATION AND REMEDIATION WORKPLAN

This form shall be submitted to the Director for approval prior to the initiation of site investigation and remediation activities. Form 27 is intended to be used whenever possible. Additional documentation will be required when large volumes of soil and groundwater have been impacted or involve large facilities with multiple source areas. See Rule 910. Attach as many pages as needed to fully describe the proposed work.

CAUSE OF CONDITION BEING INVESTIGATED AND REMEDIATED

Spill or Release Plug & Abandon Central Facility Closure Site/Facility Closure Other (describe): _____

OGCC Operator Number: _____	Contact Name and Telephone: _____
Name of Operator: _____	_____
Address: _____	No: _____
City: _____ State: _____ Zip: _____	Fax: _____

API Number: _____	County: _____
Facility Name: _____	Facility Number: _____
Well Name: _____	Well Number: _____
Location: (QtrQtr, Sec, Twp, Rng, Meridian): _____	Latitude: _____ Longitude: _____

TECHNICAL CONDITIONS

Type of Waste Causing Impact (crude oil, condensate, produced water, etc): _____

Site Conditions: Is location within a sensitive area (according to Rule 901e)? Y N If yes, attach evaluation.

Adjacent land use (cultivated, irrigated, dry land farming, industrial, residential, etc.): _____

Soil type, if not previously identified on Form 2A or Federal Surface Use Plan: _____

Potential receptors (water wells within 1/4 mi, surface waters, etc.): _____

Description of Impact (if previously provided, refer to that form or document):

Impacted Media (check):	Extent of Impact:	How Determined:
Soils	_____	_____
Vegetation	_____	_____
Groundwater	_____	_____
Surface Water	_____	_____

REMEDIALTION WORKPLAN

Describe initial action taken (if previously provided, refer to that form or document):

Describe how source is to be removed:

Describe how remediation of existing impacts is to be accomplished, including removal and disposal at an injection well or licensed facility, land treatment on site, removal of impacted groundwater, insitu bioremediation, burning of oily vegetation, etc.:



Tracking Number: _____
Name of Operator: _____
OGCC Operator No: _____
Received Date: _____
Well Name & No: _____
Facility Name & No: _____

REMEDIATION WORKPLAN (Cont.)

If groundwater has been impacted, describe proposed monitoring plan (# of wells or sample points, sampling schedule, analytical methods, etc.):

Describe reclamation plan. Discuss existing and new grade recontouring; method and testing of compaction alleviation; and reseeding program, including location of new seed, seed mix and noxious weed prevention. Attach diagram or drawing. Use additional sheet for description if required.

Attach samples and analytical results taken to verify remediation of impacts. Show locations of samples on an onsite schematic or drawing.

Is further site investigation required? Y N If yes, describe:

Final disposition of E&P waste (landtreated and disposed onsite, name of licensed disposal facility, recycling, reuse, etc.):

IMPLEMENTATION SCHEDULE

Date Site Investigation Began: _____ Date Site Investigation Completed: _____ Date Remediation Plan Submitted: _____
Remediation Start Date: _____ Anticipated Completion Date: _____ Actual Completion Date: _____

I hereby certify that the statements made in this form are, to the best of my knowledge, true, correct, and complete.

Print Name: _____ Signed: *David Pennington*
Title: _____ Date: _____

OGCC Approved: _____ Title: _____ Date: _____



January 5, 2016

Mr. Chris Canfield
Environmental Protection Specialist
1120 Lincoln Street, Suite 801
Denver, Colorado 80203

**RE: Excavation and Site Delineation Report and Proposed Remediation Strategy
Stroh 35-2 Tank Battery (436964)
Weld County, Colorado
Spill/Release Point #443097**

Dear Mr. Canfield:

LT Environmental, Inc. (LTE), under the direction of Synergy Resources Corporation (Synergy) conducted source removal environmental remediation and confirmation soil sampling following the identification of petroleum hydrocarbon impacted soil at the Stroh 35-2 Tank Battery (Site). Following remediation activities, LTE, under the direction of Synergy, performed a limited site investigation (LSI) to delineated the extent of petroleum impacts to soil and groundwater at the Site. This report describes the remediation activities and LSI performed at the Site, provides soil and groundwater analytical results, and includes a proposed remediation strategy based on the LSI findings.

The Site is located south of County Road 52 approximately 0.73 miles east of the intersection of County Road 52 and County Road 21 in Weld County, Colorado. The legal site description is the northwest quarter of the northeast quarter of Section 35, Township 5 North, Range 67 West, 6th Principal Meridian. The Colorado Oil and Gas Conservation Commission (COGCC) Spill/Release Point # is 443097. The Site Location Map is provided as Figure 1.

Site History and Excavation

Prior to Synergy acquiring the Site, the COGCC observed benzene concentrations that exceeded water quality standards established by the Water Quality Control Commission in a monitoring well located south of the tank battery. As a result the COGCC issued a Notice of Alleged Violation (NOAV) for the former operator, Cannon Resources Inc. (Document Number 12313886), for the Site on March 13, 2000. The Corrective Actions listed in the NOAV included repairing or replacing the buried or partially buried concrete produced water vault and submitting a Form 27 Site Investigation and Remediation Workplan.

Ram-Co Construction Services (Ram-Co) of Fort Lupton, Colorado, under the direction of Synergy, removed the partially buried produced water vault on September 1, 2015. During water vault removal activities, impacted soil was encountered. As a result, source removal activities were conducted on September 1 through November 30, 2015. LTE personnel were on site during the source removal to direct excavation activities, field screen the excavated soil using a photo-



ionization detector (PID), collect confirmation soil and groundwater samples, install a groundwater amendment to the source area, install an infiltration gallery to allow for further source treatment, provide health and safety oversight, and document site conditions and work conducted.

The source removal excavation was located within the vicinity of the above ground production tank, the partially buried produced water vault, and the separator. These structures were moved to accommodate the excavation. The total extent of the excavation was approximately 70 feet east-west by 80 feet north-south to a total depth of 8 to 10 feet below ground surface (bgs). The limits of the excavation are provided in Figure 2. Excavated soil consisted primarily of clayey sand from ground surface to total depth with increasing clay content with depth. Groundwater was encountered at approximately 6 feet bgs. A total of approximately 2,100 cubic yards of soil were removed from the Site and transported under waste manifest protocol to Waste Management North Weld Landfill in Ault, Colorado, for final disposal.

Confirmation Soil Sampling and Analytical Results

Between September 4, 2015 and November 30, 2015, under the direction of Synergy, LTE personnel collected 15 discrete confirmation soil samples from the source removal excavation sidewalls. The soil samples were collected from zones with the highest PID readings or where there was evidence of hydrocarbon impacts including soil staining or hydrocarbon odors. The location of the confirmation soil samples are provided on Figure 2. All soil samples were collected, placed on ice, then submitted with a completed chain of custody form to eAnalytics Laboratory (eAnalytics) of Loveland, Colorado, for laboratory analysis of benzene, toluene, ethylbenzene, and total xylenes (BTEX) and total petroleum hydrocarbons (TPH) as gasoline range organics (GRO) by United States Environmental Protection Agency (EPA) Method 8260B, and TPH as diesel range organics (DRO) by EPA Method 8015.

The Colorado Oil and Gas Conservation Commission (COGCC) Table 910-1 standards for BTEX and TPH in soil are 0.17 milligrams per kilogram (mg/kg), 85 mg/kg, 100 mg/kg, 175 mg/kg, and 500 mg/kg, respectively. Excavation soil analytical results indicated soil samples SS06@6', SS07@6', SS08@6', and SE01@8' exceeded the COGCC Table 910-1 standard for TPH at concentrations of 3,554 mg/kg, 2,107 mg/kg, 1,382 mg/kg, and 2,661 mg/kg respectively. All other excavation soil analytical results were in compliance with applicable COGCC Table 910-1 standards. The excavation soil analytical results are provided on Figure 3 and summarized in Table 1. The laboratory analytical reports are included at Attachment 1.

LTE, under the direction of Synergy, continued source removal excavation of the areas where the confirmation soil samples exceeded the COGCC Table 910-1 standards for TPH and collected additional confirmation soil samples upon completion of the additional source removal from these areas. This process was continued until representative confirmation soil samples were below applicable standards.



Excavation Groundwater Sampling

Groundwater was encountered at approximately 6 feet bgs in the excavation. Visible product was observed on the surface of the groundwater. Groundwater was removed from the excavation using a vacuum truck and transported, under manifest, to a licensed injection facility for disposal.

On September 4, 2015, under the direction of Synergy, LTE collected groundwater sample GW01 from the floor of the excavation. The groundwater sample was collected, placed on ice, then submitted with a completed chain of custody form to eAnalytics for laboratory analysis of BTEX by EPA method 8260B.

The COGCC Table 910-1 standards for BTEX in groundwater is 5 micrograms per liter ($\mu\text{g/L}$), 560 $\mu\text{g/L}$, 700 $\mu\text{g/L}$, and 1,400 $\mu\text{g/L}$, respectively. The excavation groundwater analytical results indicated groundwater sample GW01 exceeded the COGCC Table 910-1 standard for benzene at a concentration of 8.3 $\mu\text{g/L}$. All other laboratory groundwater analytical results were in compliance with applicable COGCC Table 910-1 standards. The laboratory groundwater analytical results are presented on Figure 4 and summarized in Table 2. The laboratory analytical reports are included as Attachment 1.

Infiltration Gallery Installation and Excavation Backfill

LTE, under the direction of Synergy, oversaw the installation of an infiltration gallery in the open excavation prior to backfilling. The infiltration gallery was installed to allow for future treatment of the source area without requiring excessive surface disturbance and subcontractor efforts. The infiltration gallery is comprised of 2-inch diameter, schedule 40, polyvinyl chloride (PVC) pipes with 0.01-inch milled slots (screened zone). The screened zone was installed, laterally, along the bottom of the excavation approximately 2 feet below the top of the groundwater. Pea gravel comprised of ¼-inch minus gravel with less than 10% fines was used for bedding and backfill. Riser pipes connect the screened zone to the surface. The excavation was backfilled with pea gravel from the base of the excavation to approximately 5 feet bgs. Native soil material was placed on top of the pea gravel to ground surface. Figure 5 illustrates the approximate location of the infiltration gallery and construction specifications.

Soil Boring Advancement

From September 14, 2015 through September 25, 2015, under the direction of Synergy, LTE advanced a total of 10 soil borings (SB12 through SB21) to delineate the extent of dissolved-phase petroleum hydrocarbon impact. The soil borings were advanced using a direct-push drill rig operated by Elite Drilling Services, LLC (Elite) of Aurora, Colorado. The soil borings were completed as temporary monitoring wells to allow for future groundwater monitoring.

The soil borings were logged by an LTE geologist, and the soil was characterized by visual inspection of the collected soil samples. The total depth of each soil boring was between 14 and 15 feet bgs. The soil borings were continuously logged from ground surface to the total depth. The estimated depth to groundwater observed in the soil borings ranged from approximately 5 to 8 feet bgs.



The soil identified at the Site was predominantly silty clay and clayey sand from ground surface to between approximately 8 to 14 feet bgs, and silt to total depth. Elevated PID readings (greater than 10 parts per million) were observed in soil borings SB01, SB03, SB04, and SB05. Petroleum hydrocarbon staining was observed in soil borings SB15, SB16, SB17, and SB19. The soil boring and groundwater monitoring well completion logs are provided as Attachment 3.

Soil Sampling and Analytical Results

Soil borings were advanced using direct-push methods and sampled using a continuous sampler. During soil boring advancement, soil samples were collected for laboratory analysis based on the sample interval that exhibited evidence of hydrocarbon impacts such as staining and/or odor, or where the highest PID reading was observed above the groundwater saturated zone. A total of 10 soil samples were collected, placed on ice, then submitted with a completed chain of custody form to eAnalytics, for analysis of BTEX, and TPH as GRO by EPA Method 8260B and TPH as DRO by EPA Method 8015.

The COGCC Table 910-1 standards for BTEX and TPH in soil are 0.17 mg/kg, 85 mg/kg, 100 mg/kg, 175 mg/kg, and 500 mg/kg, respectively. Soil analytical results indicated all soil samples were in compliance with applicable COGCC Table 910-1 standards. The soil analytical results are presented on Figure 3 and summarized in Table 1. The soil boring laboratory analytical report is included as Attachment 2.

Groundwater Monitoring Well Installation

The soil borings were completed as temporary groundwater monitoring wells to delineate the potential extent of dissolved-phase petroleum hydrocarbon impact. The monitoring wells were constructed of 1-inch diameter polyvinyl chloride (PVC) casing extending from surface stickups to depths of 14 to 15 feet bgs. The lower 10 feet of each monitoring well consists of 0.010-inch factory-slotted PVC well screen. Silica sand was placed from the bottom of each soil boring to one foot above the screened interval to act as filter pack for the monitoring well. Bentonite chips were placed from the top of the silica sand to the ground surface and hydrated to provide a seal against surface contamination and precipitation infiltration. The Well Completion Diagrams are included as Attachment 3.

Groundwater Sampling

On October 1, 2015, under the direction of Synergy, LTE personnel collected groundwater samples from 11 groundwater monitoring wells (MW01A2 and SB12 through SB21). Prior to sampling, depth to groundwater was measured and recorded for calculating well-specific target purge volumes and relative groundwater elevations. Groundwater was purged from the wells and samples were collected, placed on ice, then submitted with a completed chain of custody form to eAnalytics, for analysis of BTEX by EPA Method 8260C.



Hydrogeology

Prior to well development, depth to groundwater was measured and recorded to calculate groundwater elevations. During the October 2015 monitoring event, depth to groundwater ranged from 5.60 feet bgs in monitoring well SB20 to 8.25 feet bgs in monitoring well SB21. Groundwater was calculated to flow southeast with an average hydraulic gradient of 0.027 feet per foot. Relative groundwater elevations are presented in Figure 6 and summarized in Table 2.

Groundwater Analytical Results

The WQCC Reg 41 standards for BTEX are 5.0 micrograms per liter ($\mu\text{g/L}$), 560 $\mu\text{g/L}$, 700 $\mu\text{g/L}$, and 1,400 $\mu\text{g/L}$, respectively. Laboratory analytical results indicated that the groundwater sample collected from groundwater monitoring well SB17 exceeded the WQCC Reg 41 standard for benzene with a concentration of 313 $\mu\text{g/L}$. All other groundwater sample analytical results were in compliance with applicable WQCC Reg 41 standards. Groundwater laboratory analytical results are presented on Figure 4 and summarized in Table 2. The laboratory groundwater analytical report is included as Attachment 2.

Proposed Remediation

As the confirmation soil samples demonstrate, the source removal activities conducted at the Site have successfully removed impacted soils. Based on the analytical results of the confirmations soil samples, LTE and Synergy respectfully request the COGCC grant a decision of no further action on soil remediation at the Site.

The groundwater samples collected from the base of the excavation (GW01) and from soil boring SB17 had benzene concentrations that exceeded the COGCC Table 910-1 limits. The limits of the benzene groundwater plume are within the excavation and extending with groundwater flow direction to the south. Based on these observations, LTE oversaw the installation of an infiltration gallery in the open excavation prior to backfilling. The infiltration gallery was installed to allow for future treatment of the source area groundwater without requiring additional surface disturbance and subcontractor efforts.

Trap & Treat[®] BOS 200[®] (BOS 200) is a groundwater amendment used for *in-situ* hydrocarbon remediation. It is comprised of activated carbon combined with petroleum-degrading microorganisms and electron acceptors such as nitrogen and phosphorous. The purpose of adding the BOS 200 product to groundwater is to promote biologically dedicated benzene oxidation reactions in the impacted groundwater. In order to remediate the dissolved phase impact, LTE proposes to perform batch injections of the BOS 200 slurry into the infiltration galleries. LTE, on behalf of Synergy, will continue to perform quarterly groundwater monitoring at the Site until 4 quarters of groundwater samples are below applicable COGCC standards.

Schedule

LTE, under the direction of Synergy, will perform BOS 200 groundwater amendment batch injections during the 4th Quarter of 2015. LTE, under the direction of Synergy, will continue to



perform groundwater monitoring at the Site until four consecutive quarters of groundwater compliance is achieved.

LTE appreciates the opportunity to provide environmental services to Synergy. Please call us at 303-433-9788 if you have any questions or comments regarding this report.

Sincerely,

LT ENVIRONMENTAL, INC.

A handwritten signature in blue ink that reads "Jess Alexander".

Jess Alexander
Project Manager

A handwritten signature in blue ink that reads "Steve Kahn".

Steve Kahn, P.E.
Principal

Attachments

- Figure 1 Site Location Map
- Figure 2 Site Map
- Figure 3 Soil Analytical Results
- Figure 4 Groundwater Analytical Results
- Figure 5 Infiltration Gallery Map
- Figure 6 Relative Groundwater Elevation Map
- Table 1 Soil Analytical Results
- Table 2 Groundwater Analytical Results
- Attachment 1 Soil Laboratory Analytical Reports
- Attachment 2 Groundwater Laboratory Analytical Reports
- Attachment 3 Soil Borehole and Well Completion Diagrams

FIGURES

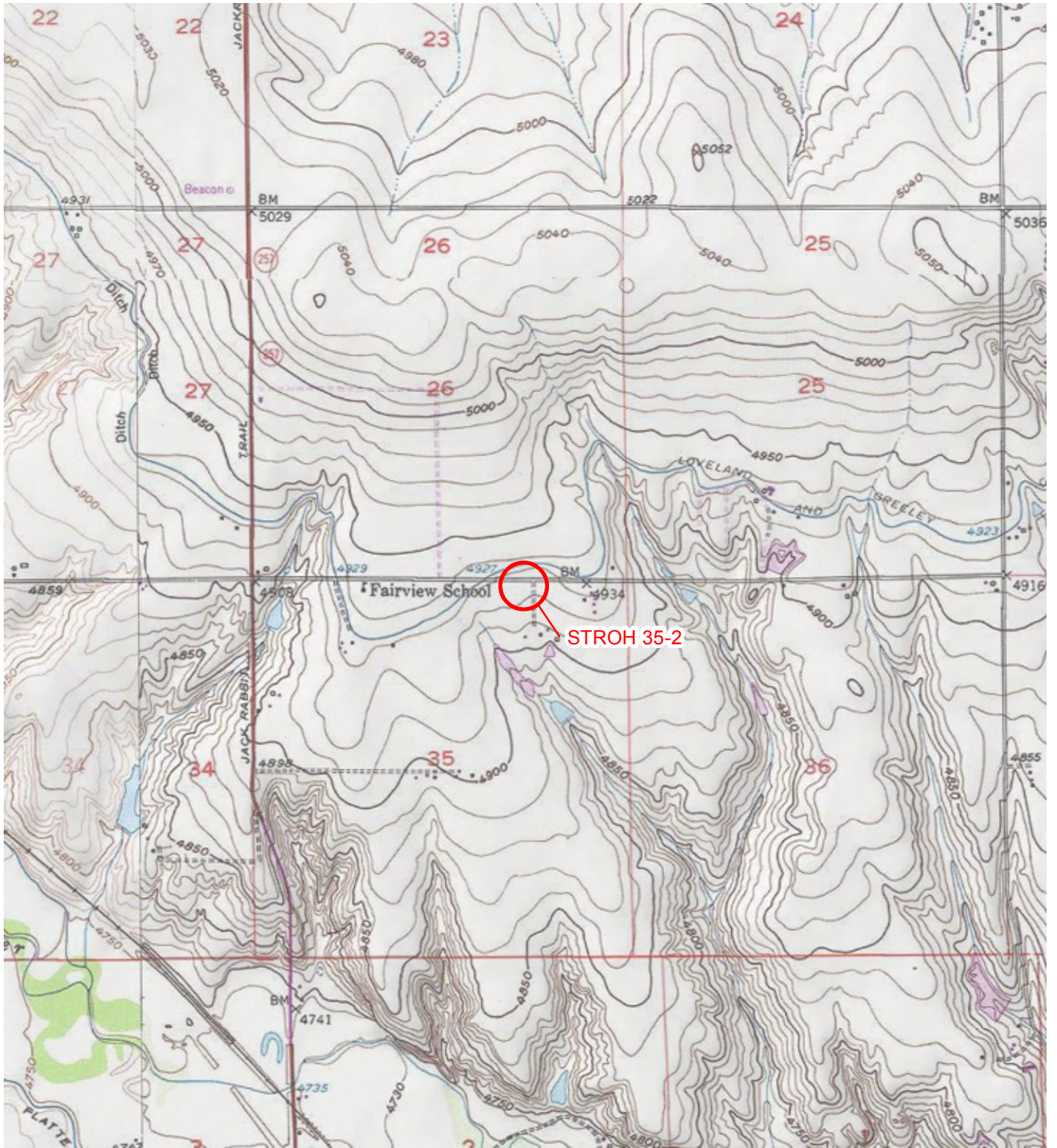


IMAGE COURTESY OF ESRI/USGS

LEGEND

 SITE LOCATION

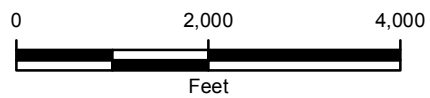


FIGURE 1
SITE LOCATION MAP
STROH 35-2
WELD COUNTY, COLORADO

SYNERGY RESOURCES CORPORATION






WELD COUNTY ROAD 52



IMAGE COURTESY OF GOOGLE EARTH 2014

LEGEND

-  SOIL SAMPLE
-  MONITORING WELL
-  EXCAVATION EXTENT

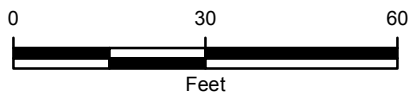
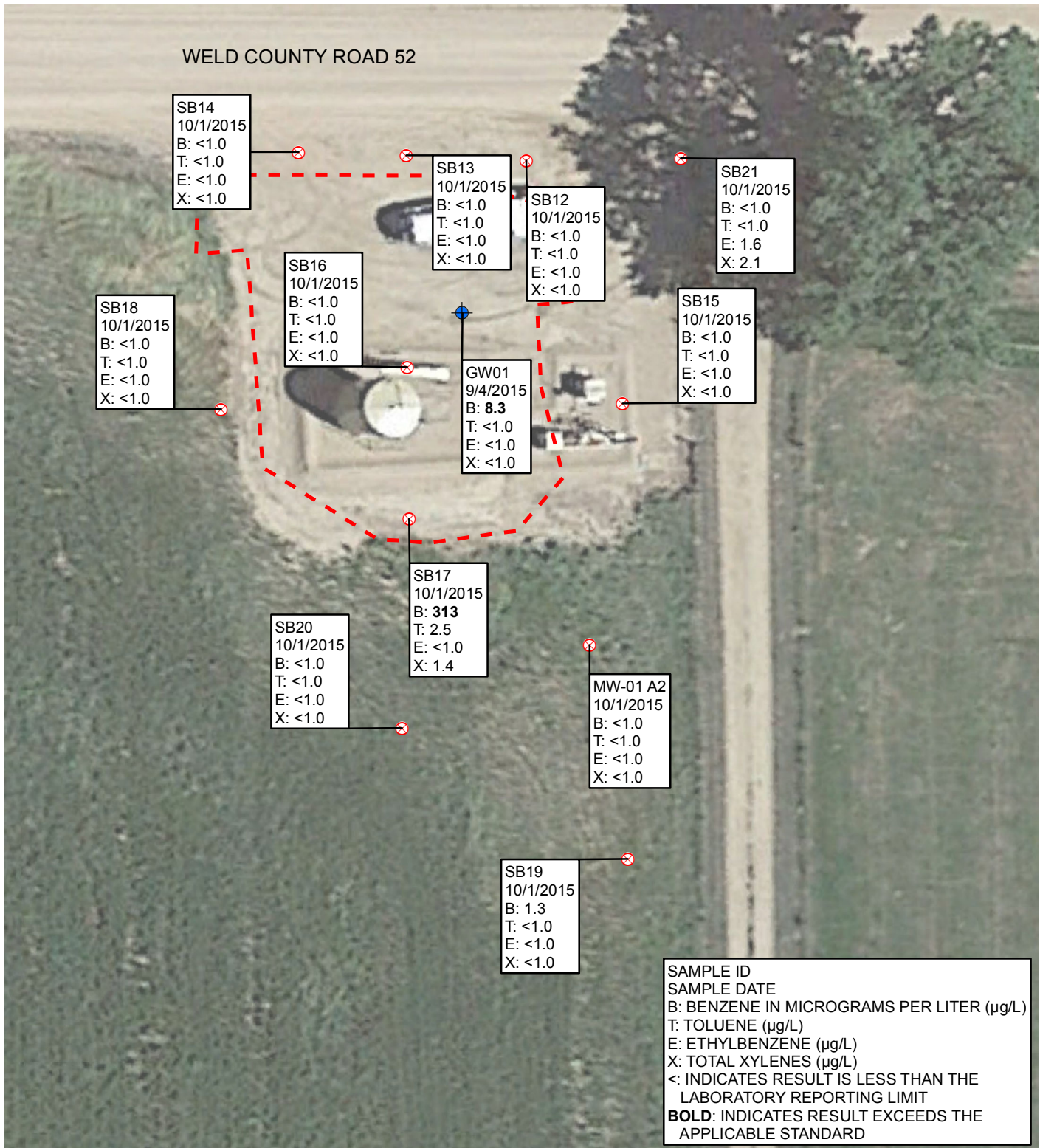


FIGURE 2
SITE MAP
STROH 35-2
WELD COUNTY, COLORADO
SYNERGY RESOURCES CORPORATION



WELD COUNTY ROAD 52



SAMPLE ID
 SAMPLE DATE
 B: BENZENE IN MICROGRAMS PER LITER (µg/L)
 T: TOLUENE (µg/L)
 E: ETHYLBENZENE (µg/L)
 X: TOTAL XYLENES (µg/L)
 <: INDICATES RESULT IS LESS THAN THE LABORATORY REPORTING LIMIT
BOLD: INDICATES RESULT EXCEEDS THE APPLICABLE STANDARD

LEGEND

- MONITORING WELL
- GROUNDWATER SAMPLE
- EXCAVATION EXTENT

IMAGE COURTESY OF GOOGLE EARTH 2014

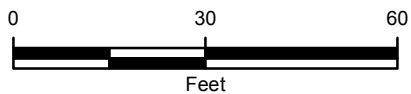


FIGURE 4
 GROUNDWATER ANALYTICAL RESULTS
 STROH 35-2
 WELD COUNTY, COLORADO

SYNERGY RESOURCES CORPORATION



WELD COUNTY ROAD 52

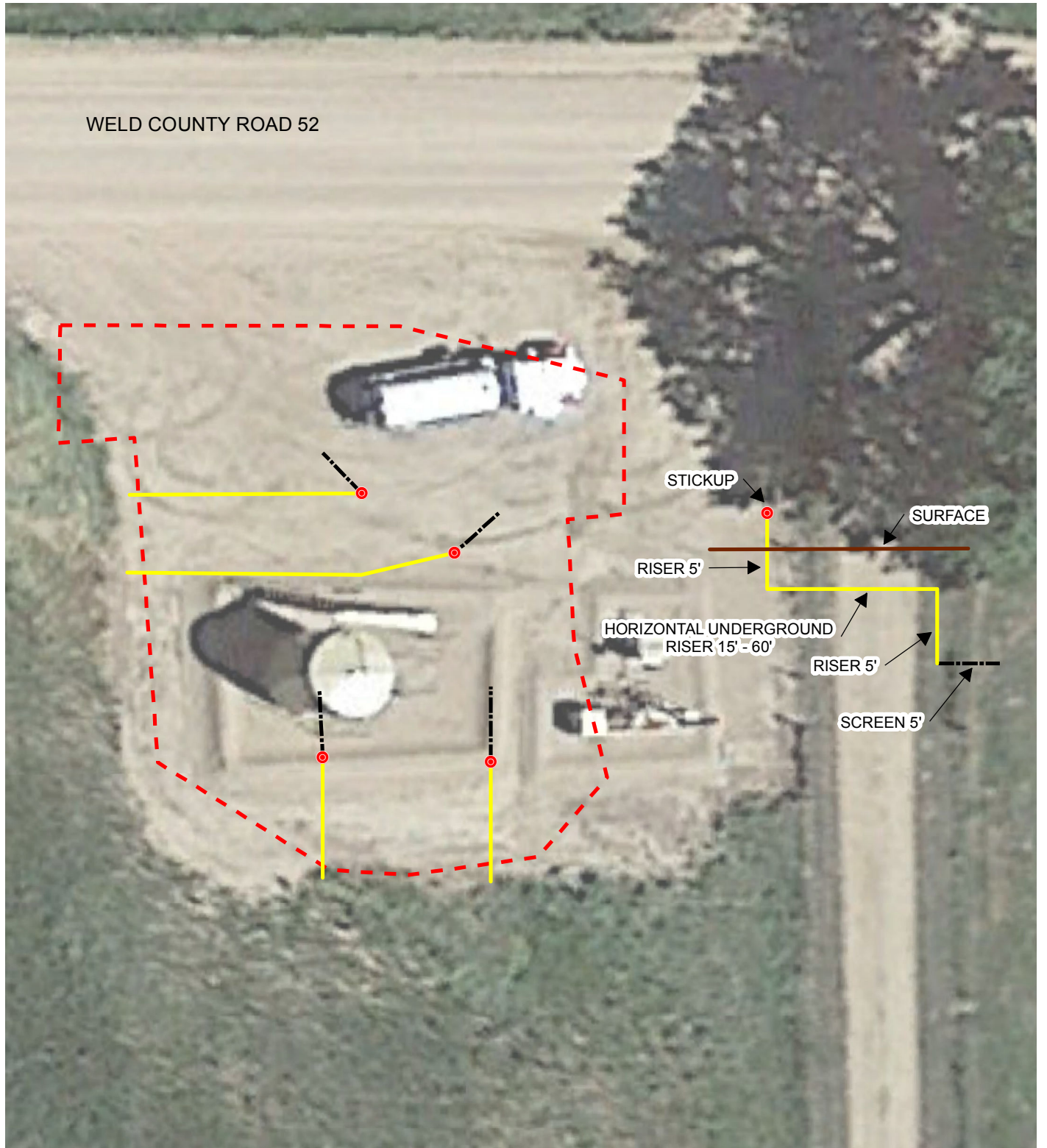






IMAGE COURTESY OF GOOGLE EARTH 2014

LEGEND

-  IG05
-  INFILTRATION GALLERY SCREEN
-  INFILTRATION GALLERY RISER
-  EXCAVATION EXTENT

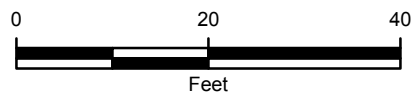


FIGURE 5
INFILTRATION GALLERY
STROH 35-2
WELD COUNTY, COLORADO

SYNERGY RESOURCES CORPORATION



WELD COUNTY ROAD 52

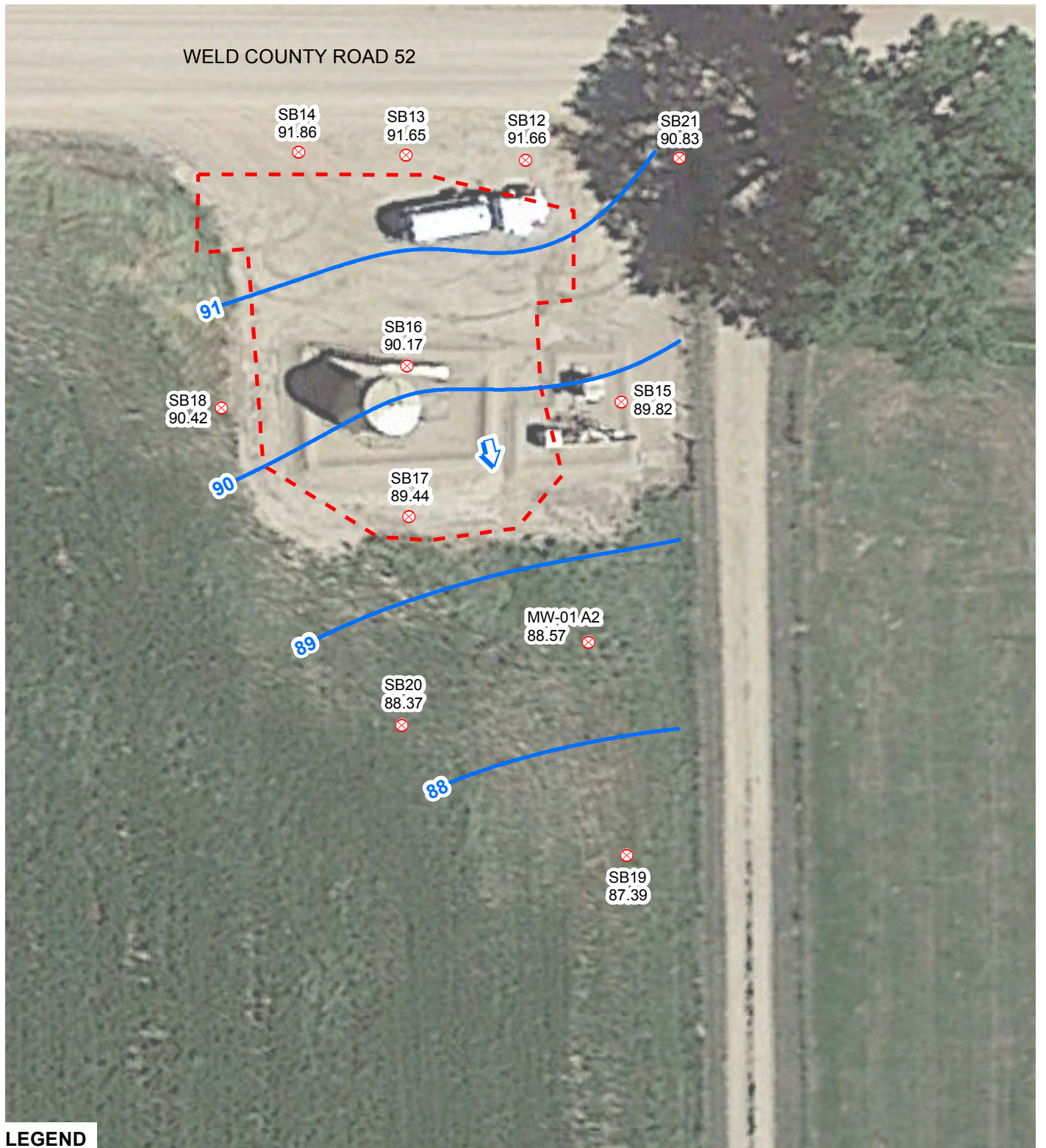






IMAGE COURTESY OF GOOGLE EARTH 2014

LEGEND

-  MONITORING WELL
-  CALCULATED GROUNDWATER FLOW DIRECTION
-  RELATIVE GROUNDWATER ELEVATION CONTOUR
CONTOUR INTERVAL = 1 FOOT
GRADIENT = 0.027 FEET/FOOT
-  EXCAVATION EXTENT

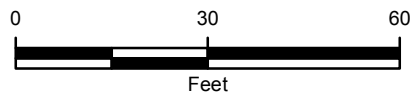


FIGURE 6
RELATIVE GROUNDWATER ELEVATION MAP
STROH 35-2
WELD COUNTY, COLORADO

SYNERGY RESOURCES CORPORATION



TABLES



TABLE 1
SOIL ANALYTICAL RESULTS
STROH 35-2 TANK BATTERY
WELD COUNTY, COLORADO
SYNERGY RESOURCES CORPORATION

Soil Sample	Date	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	TPH-GRO (mg/kg)	TPH-DRO (mg/kg)	TPH (mg/kg)
Excavation Confirmation Soil Samples								
SS01@6'	9/4/2015	<0.01	<0.01	<0.01	<0.01	<50	<50	<50
SS02@6'	9/4/2015	<0.01	<0.01	<0.01	<0.01	<50	<50	<50
SS03@6'	9/4/2015	<0.01	<0.01	<0.01	<0.01	<50	<50	<50
SS04@6'	9/4/2015	<0.01	<0.01	<0.01	<0.01	<50	<50	<50
SS05@6'	9/4/2015	<0.01	<0.01	<0.01	<0.01	118	64.5	182.5
SS06@6'	9/4/2015	0.168	0.028	0.261	<0.01	2,886	669	3,555
SS07@6'	9/4/2015	<0.01	0.017	0.774	<0.01	1,459	648	2,107
SS08@6'	9/4/2015	<0.01	<0.01	<0.01	<0.01	1,175	207	1,382
SW01@8'	11/25/15	<0.01	<0.01	<0.01	<0.01	<50	<50	<100
W01@8'	11/25/15	<0.01	<0.01	<0.01	<0.01	<50	<50	<100
NW01@8'	11/25/15	<0.01	<0.01	<0.01	<0.01	<50	<50	<100
NE01@8'	11/25/15	<0.01	<0.01	<0.01	<0.01	<50	<50	<100
SE01@8'	11/25/15	0.033	0.017	2.4	0.17	1,583	1,078	2,661
W02@8.5'	11/30/15	<0.01	<0.01	<0.01	<0.01	<50	<50	<100
SE02@8.5'	11/30/15	<0.01	<0.01	<0.01	<0.01	<50	<50	<100
Soil Borehole Soil samples								
SB12@8'	9/14/2015	<0.010	<0.010	<0.010	<0.010	<50.0	<50.0	<100
SB13@7'	9/14/2015	<0.010	<0.010	<0.010	<0.010	<50.0	<50.0	<100
SB14@5'	9/24/2015	<0.010	<0.010	<0.010	<0.010	<50	<50	<100
SB15@15'	9/24/2015	<0.010	<0.010	<0.010	<0.010	<50	<50	<100
SB16@8'	9/24/2015	<0.010	<0.010	<0.010	<0.010	<50	<50	<100
SB17@5'	9/24/2015	<0.010	<0.010	<0.010	<0.010	<50	<50	<100
SB18@5'	9/24/2015	<0.010	<0.010	<0.010	<0.010	<50	<50	<100
SB19@5'	9/25/2015	<0.010	<0.010	<0.010	<0.010	<50	<50	<100
SB20@5'	9/25/2015	<0.010	<0.010	<0.010	<0.010	<50	<50	<100
SB21@5'	9/25/2015	<0.010	<0.010	<0.010	<0.010	<50.0	<50.0	<100
COGCC Table 910-1 Standards		0.17	85	100	175	--	--	500

NOTES:

COGCC - Colorado Oil and Gas Conservation Commission

DRO - diesel range organics analyzed by EPA Method 8015 or 8015C

GRO - gasoline range organics analyzed by EPA Method 8260B or 8260C

mg/kg - milligrams per kilogram

TPH - total petroleum hydrocarbons

TPH is the sum of GRO and DRO

< - indicates result is less than the stated laboratory reporting limit

Benzene, toluene, ethylbenzene, total xylenes, and naphthalene analyzed by EPA Method 8260B or 8260C

BOLD indicates result exceeds the applicable standard

TABLE 2

**GROUNDWATER ANALYTICAL RESULTS
STROH 35-2 TANK BATTERY
WELD COUNTY, COLORADO
SYNERGY RESOURCES CORPORATION**

Monitoring Well	Date	Depth to Water (feet btoc)	Relative Groundwater Elevation (feet)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)
GW01	9/4/2015	NM	NM	8.3	<1.0	<1.0	<1.0
MW01 A2	10/1/2015	8.89	88.57	<1.0	<1.0	<1.0	<1.0
SB12	10/1/2015	7.18	91.66	<1.0	<1.0	<1.0	<1.0
SB13	10/1/2015	7.16	91.65	<1.0	<1.0	<1.0	<1.0
SB14	10/1/2015	7.18	91.86	<1.0	<1.0	<1.0	<1.0
SB15	10/1/2015	8.55	89.82	<1.0	<1.0	<1.0	<1.0
SB16	10/1/2015	8.98	90.17	<1.0	<1.0	<1.0	<1.0
SB17	10/1/2015	8.23	89.44	313	2.5	<1.0	1.4
SB18	10/1/2015	8.43	90.42	<1.0	<1.0	<1.0	<1.0
SB19	10/1/2015	8.57	87.39	1.3	<1.0	<1.0	<1.0
SB20	10/1/2015	8.08	88.37	<1.0	<1.0	<1.0	<1.0
SB21	10/1/2015	10.70	90.83	<1.0	<1.0	1.6	2.1
COGCC Table 910-1 Standards				5.0	560	700	1,400

NOTES:

btoc - below top of casing

µg/L - micrograms per liter

< - indicates result is less than the stated laboratory reporting limit

Groundwater elevations are relative to a 100-foot benchmark

BOLD indicates result exceeds the applicable standard

Benzene, toluene, ethylbenzene, and total xylenes analyzed by EPA Method 8260C

COGCC Table 910-1 Standards - Colorado Oil and Gas Conservation Commission Allowable Concentrations in Ground Water

ATTACHMENT 1
EXCAVATION LABORATORY ANALYTICAL REPORTS



Test Report

eANALYTICS LABORATORY

September 6, 2015

Client: LT Environmental

Project: Stroh 34-2

Lab ID: 3860

Date Samples Received: 9/4/2015

Number of Samples: 9

Sample Condition: Samples arrived intact and in appropriate sample containers

Sample Temperature: Within acceptable range of 2-6° C, or as specified in EPA Method

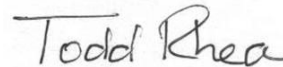
The quality control procedures associated with the requested analyses were satisfactorily passed before the samples were run.

Thank you for allowing eAnalytics Laboratory to provide laboratory services for you.

Sincerely,



Christopher Dieken
Quality Assurance Manager



Todd Rhea
Laboratory Manager

eAnalytics Laboratory
4130 Clydesdale Parkway Loveland CO 80538

Chain of Custody

eANALYTICS

LABORATORY

Chain of Custody Form

eANALYTICS LABORATORY			4130 Clydesdale Parkway Loveland CO 80538 Phone: (970) 667-6975 Fax: (970) 669-0941 www.eAnalyticsLab.com																			
CLIENT INFORMATION <small>(*New Clients please fill out completely)</small>			ANALYSIS INFORMATION <small>(Select analysis by checking box on corresponding sample line)</small>																			
Company: <u>LTE</u>			Number of Containers	Matrix: (S) Soil (W) Water (A) Air (O) Other	BTEX / MTBE / TVPH (EPA8260)	BTEX / TVPH (EPA8260)	TEPH (EPA8015)	Volatiles - Full List (EPA8270)	Semi-Volatiles Full List (EPA8270)	PAHs (EPA8270)	Oil & Grease (EPA9071B/1664)	TRPH (EPA418.1)	Total RCRA-8 Metals (EPA9132/9131)	TCLP RCRA-8 Metals (EPA9131/9132/9133)	Vapor-Soil Vapor BTEX (EPA TO-14)	Vapor-Emissions BTEX / TVPH (TO-14)	pH/TSS/TDS	BTEX GRO	ORO	BTEX		
Project: <u>Stroh 34-2</u>																						
Send Report To: <u>jalexander@ltenv.com, skam@ltenv.com</u>																						
Send Invoice To:																						
Phone/Email: <u>303-433-9788</u>																						
Address: <u>4600 W. 60th Ave</u>																						
Lab ID	Sample Name	Sampling Date																				
1	SS01@6'	9/4/15	1	S														X	X			
2	SS02@6'	↓	1																			
3	SS03@6'		1																			
4	SS04@6'		1																			
5	SS05@6'		1																			
6	SS06@6'		1																			
7	SS07@6'		1																			
8	SS08@6'		1																			
9	Gwol		↓	3																		X
Comments: Analysis by Monday Tuesday 9/8/15 0800																						
Turnaround Time (Business Days) <small>TAT begins when sample is received by eANALYTICS</small> <input type="radio"/> Normal (5-10 Days) <input type="radio"/> 3 Day (25%) Rush analysis requires an extra charge. <input type="radio"/> 2 Day (50%) If possible please inform eANALYTICS in advance for rush analysis. <input type="radio"/> 1 Day (100%) <input checked="" type="radio"/> Same Day (300%)										Record of Custody Relinquished by: <u>[Signature]</u> Date: <u>9/4/15</u> Company: <u>LTE</u> Time: <u>1630</u> AM Received by: _____ Date: _____ Company: _____ Time: _____ AM/PM												
Colorado OPS Project: _____ Yes / No										Relinquished by: _____ Date: _____ Company: _____ Time: _____ Received by: <u>[Signature]</u> Date: <u>9/4/15</u> Company: <u>eANALYTICS</u> Time: <u>1630</u> AM/PM												
For eANALYTICS Use Samples Received Intact: <input checked="" type="radio"/> Yes / No Received Within Temperature Range (2-6°C): <input checked="" type="radio"/> Yes / No Sample Preservative: <input type="radio"/> Ice / Acid / Other <input type="radio"/> None																						
Lab ID # <u>3860</u>			eAnalytics Laboratory 4130 Clydesdale Parkway Loveland CO 80538 (970) 667-6975													Page 1 of 1						



Client: LT Environmental Lab ID: 3860

Project: Stroh 34-2

Analysis: Volatile Organics Method: EPA8260
TPH EPA8260/8015

Sample Name	Benzene mg/kg	Toluene mg/kg	Ethyl- benzene mg/kg	Total Xylenes mg/kg	TVPH mg/kg	TEPH mg/kg	Date	Date	Lab ID
							Sampled	Analyzed	
SS01 @ 6'	< 0.01	< 0.01	< 0.01	< 0.01	< 50	< 50	09/04/15	09/06/15	3860 1
SS02 @ 6'	< 0.01	< 0.01	< 0.01	< 0.01	< 50	< 50	09/04/15	09/06/15	3860 2
SS03 @ 6'	< 0.01	< 0.01	< 0.01	< 0.01	< 50	< 50	09/04/15	09/06/15	3860 3
SS04 @ 6'	< 0.01	< 0.01	< 0.01	< 0.01	< 50	< 50	09/04/15	09/06/15	3860 4
SS05 @ 6'	< 0.01	< 0.01	< 0.01	< 0.01	118	64.5	09/04/15	09/06/15	3860 5
SS06 @ 6'	0.168	0.028	0.261	< 0.01	2885	669	09/04/15	09/06/15	3860 6
SS07 @ 6'	< 0.01	0.017	0.774	< 0.01	1459	648	09/04/15	09/06/15	3860 7
SS08 @ 6'	< 0.01	< 0.01	< 0.01	< 0.01	1175	207	09/04/15	09/06/15	3860 8

eAnalytics Laboratory

4130 Clydesdale Parkway Loveland CO 80538



Client: LT Environmental

Lab ID: 3860

Project: Stroh 34-2

Method: EPA8260

Sample Name	Dibromo-fluoromethane % Recovery	1,2 Dichloro-ethane-D4 % Recovery	Toluene-D8 % Recovery	4-Bromo-fluorobenzene % Recovery	Date Sampled	Date Analyzed	Lab ID
SS01 @ 6'	87	90	91	92	09/04/15	09/06/15	3860 1
SS02 @ 6'	104	92	99	109	09/04/15	09/06/15	3860 2
SS03 @ 6'	110	96	101	95	09/04/15	09/06/15	3860 3
SS04 @ 6'	105	105	107	101	09/04/15	09/06/15	3860 4
SS05 @ 6'	100	111	90	90	09/04/15	09/06/15	3860 5
SS06 @ 6'	102	86	91	105	09/04/15	09/06/15	3860 6
SS07 @ 6'	92	98	98	97	09/04/15	09/06/15	3860 7
SS08 @ 6'	98	110	91	87	09/04/15	09/06/15	3860 8



Client: LT Environmental Lab ID: 3860
 Project: Stroh 34-2 Method: EPA8260

Sample Name	Dibromo-fluoromethane % Recovery	1,2 Dichloro-ethane-D4 % Recovery	Toluene-D8 % Recovery	4-Bromo-fluorobenzene % Recovery	Date Sampled	Date Analyzed	Lab ID
GW01	104	96	91	103	09/04/15	09/06/15	3860 9



Client: LT Environmental Lab ID: 3860
 Project: Stroh 34-2
 Analysis: Volatile Organics Method: EPA8260
 TPH EPA8260/8015

Sample Name	Benzene % Rec	Toluene % Rec	Ethyl- benzene % Rec	Total Xylenes % Rec	TVPH % Rec	TEPH % Rec	Date Analyzed	Lab ID
Laboratory Control Sample (70-130%)	102	103	94	96	98	95	09/06/15	LCS 3860 1
Method Blank	< 0.01 mg/kg	< 0.01 mg/kg	< 0.01 mg/kg	< 0.01 mg/kg	< 50 mg/kg	< 50 mg/kg	09/06/15	MB 3860 1



Client: LT Environmental Lab ID: 3860
 Project: Stroh 34-2
 Analysis: Volatile Organics Method: EPA8260

Sample Name	Benzene % Rec	Toluene % Rec	Ethyl- benzene % Rec	Total Xylenes % Rec	Date Analyzed	Lab ID
Laboratory Control Sample (70-130%)	98	91	100	98	09/06/15	LCS 3860 1
Method Blank	< 1.0	< 1.0	< 1.0	< 1.0	09/06/15	MB 3860 1
	ug/L	ug/L	ug/L	ug/L		

Test Report

eANALYTICS LABORATORY

November 27, 2015

Client: LT Environmental

Project: Stroh 35-2

Lab ID: 4249

Date Samples Received: 11/25/2015

Number of Samples: 5

Sample Condition: Samples arrived intact and in appropriate sample containers

Sample Temperature: Within acceptable range of 2-6° C, or as specified in EPA Method

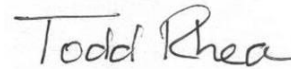
The quality control procedures associated with the requested analyses were satisfactorily passed before the samples were run.

Thank you for allowing eAnalytics Laboratory to provide laboratory services for you.

Sincerely,



Christopher Dieken
Quality Assurance Manager



Todd Rhea
Laboratory Manager

eAnalytics Laboratory

4130 Clydesdale Parkway Loveland CO 80538



Client: LT Environmental Lab ID: 4249
 Project: Stroh 35-2
 Analysis: Volatile Organics / TPH-GRO Method: EPA8260
 TPH- DRO EPA8015

Sample Name	Benzene mg/kg	Toluene mg/kg	Ethyl- benzene mg/kg	Total Xylenes mg/kg	TPH- GRO mg/kg	TPH- DRO mg/kg	Date Sampled	Date Analyzed	Lab ID
SW01 @ 8'	< 0.010	< 0.010	< 0.010	< 0.010	< 50	< 50	11/25/15	11/25/15	4249 1
W01 @ 8'	< 0.010	< 0.010	< 0.010	< 0.010	< 50	< 50	11/25/15	11/25/15	4249 2
NW01 @ 8'	< 0.010	< 0.010	< 0.010	< 0.010	< 50	< 50	11/25/15	11/25/15	4249 3
NE01 @ 8'	< 0.010	< 0.010	< 0.010	< 0.010	< 50	< 50	11/25/15	11/25/15	4249 4
SE01 @ 8'	0.033	0.017	2.40	0.170	1583	1078	11/25/15	11/25/15	4249 5



Client: LT Environmental

Lab ID: 4249

Project: Stroh 35-2

Method: EPA8260

Sample Name	Dibromo- fluoromethane % Recovery	1,2 Dichloro- ethane-D4 % Recovery	Toluene-D8 % Recovery	4-Bromo- fluorobenzene % Recovery	Date Sampled	Date Analyzed	Lab ID
SW01 @ 8'	99	100	103	94	11/25/15	11/25/15	4249 1
W01 @ 8'	96	105	94	92	11/25/15	11/25/15	4249 2
NW01 @ 8'	99	97	100	105	11/25/15	11/25/15	4249 3
NE01 @ 8'	98	92	97	100	11/25/15	11/25/15	4249 4
SE01 @ 8'	93	101	91	99	11/25/15	11/25/15	4249 5

eAnalytics Laboratory

4130 Clydesdale Parkway Loveland CO 80538



Client: LT Environmental Lab ID: 4249
 Project: Stroh 35-2
 Analysis: Volatile Organics / TPH-GRO Method: EPA8260
 TPH- DRO EPA8015

Sample Name	Benzene % Rec	Toluene % Rec	Ethyl- benzene % Rec	Total Xylenes % Rec	TPH- GRO % Rec	TPH- DRO % Rec	Date Analyzed	Lab ID
Laboratory Control Sample (70-130%)	104	92	89	103	90	92	11/25/15	LCS 4249 1
Method Blank	< 0.010 mg/kg	< 0.010 mg/kg	< 0.010 mg/kg	< 0.010 mg/kg	< 50 mg/kg	< 50 mg/kg	11/25/15	MB 4249 1

Test Report



December 1, 2015

Client: LT Environmental
Project: Stroh 35-2
Lab ID: 4256
Date Samples Received: 11/30/2015
Number of Samples: 2
Sample Condition: Samples arrived intact and in appropriate sample containers
Sample Temperature: Within acceptable range of 2-6° C, or as specified in EPA Method

The quality control procedures associated with the requested analyses were satisfactorily passed before the samples were run.

Thank you for allowing eAnalytics Laboratory to provide laboratory services for you.

Sincerely,

A handwritten signature in black ink that reads "Chris Dieken".

Christopher Dieken
Quality Assurance Manager

A handwritten signature in black ink that reads "Todd Rhea".

Todd Rhea
Laboratory Manager

eAnalytics Laboratory

4130 Clydesdale Parkway Loveland CO 80538



Client: LT Environmental Lab ID: 4256
 Project: Stroh 35-2
 Analysis: Volatile Organics / TPH-GRO Method: EPA8260
 TPH- DRO EPA8015

Sample Name	Benzene mg/kg	Toluene mg/kg	Ethyl- benzene mg/kg	Total Xylenes mg/kg	TPH- GRO mg/kg	TPH- DRO mg/kg	Date Sampled	Date Analyzed	Lab ID
W02 @ 8.5	< 0.010	< 0.010	< 0.010	< 0.010	< 50	< 50	11/30/15	11/30/15	4256 1
SE02 @ 8.5	< 0.010	< 0.010	< 0.010	< 0.010	< 50	< 50	11/30/15	11/30/15	4256 2



Client: LT Environmental

Lab ID: 4256

Project: Stroh 35-2

Method: EPA8260

Sample Name	Dibromo-fluoromethane % Recovery	1,2 Dichloro-ethane-D4 % Recovery	Toluene-D8 % Recovery	4-Bromo-fluorobenzene % Recovery	Date Sampled	Date Analyzed	Lab ID
W02 @ 8.5	96	99	103	92	11/30/15	11/30/15	4256 1
SE02 @ 8.5	102	97	103	98	11/30/15	11/30/15	4256 2



Client: LT Environmental Lab ID: 4256
 Project: Stroh 35-2
 Analysis: Volatile Organics / TPH-GRO Method: EPA8260
 TPH- DRO EPA8015

Sample Name	Benzene % Rec	Toluene % Rec	Ethyl- benzene % Rec	Total Xylenes % Rec	TPH- GRO % Rec	TPH- DRO % Rec	Date Analyzed	Lab ID
Laboratory Control Sample (70-130%)	90	99	102	100	92	95	11/30/15	LCS 4256 1
Method Blank	< 0.010 mg/kg	< 0.010 mg/kg	< 0.010 mg/kg	< 0.010 mg/kg	< 50 mg/kg	< 50 mg/kg	11/30/15	MB 4256 1

ATTACHMENT 2
WELL COMPLETION DIAGRAMS





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 Arvada, Colorado 80003

BORING LOG/MONITORING WELL COMPLETION DIAGRAM

HOLE DIAMETER.: 2.25"
WELL DIAMETER: 1.0"
CASING TYPE: PVC
SCREEN TYPE: PVC

PROJECT NAME: Stroh 35-2
PROJECT NO.: 041715013
BORING/WELL ID.: SB12
COMPLETION DATE: 09/14/2015 - 09:28
TD (ft bgs): 15' **DTW (ft bgs):** 8.0'
SCREEN SLOT: 0.01"
CASING LENGTH: 5.0'
SCREEN LENGTH: 10.0'

LOGGED BY: Dan Hosler
SAMPLE MTHD: Continuous
DRILL MTHD: Direct Push
DRILLED BY: Elite Drilling
DETECTOR: UltraRae 3000
FILTER PACK: 10-20 silica sand
ANNULUS SEAL: Bentonite chips
SURFACE SEAL: Concrete

PID (ppm)	Staining	Moisture Content	Sample ID	Recovery (ft/ft)	Depth (ft)	USCS	USCS Graphic	Lithology Description	Well Construction
		Dry			0	CL		CL: CLAY - 0.0' - 4.0' - silty, brown, dry to moist, no odor, no staining, silt content increases with depth, moist at 2' bgs	
0.00							4.0' - 8.0' - No recovery		
0.00		Wet	SB12 @ 8.0'		5	ML		ML: SILT - 8.0' - 15.0' - sandy, brown, little clay, wet, no odor, no staining, clay content increases with depth	
0.00					10				
0.00					15				



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BORING LOG/MONITORING WELL COMPLETION DIAGRAM

PROJECT NAME: Stroh 35-2 **LOGGED BY:** Dan Hosler
PROJECT NO.: 041715013 **SAMPLE MTHD:** Continuous
BORING/WELL ID.: SB13 **DRILL MTHD:** Direct Push
COMPLETION DATE: 09/14/2015 - 09:28 **DRILLED BY:** Elite Drilling
TD (ft bgs): 15' **DTW (ft bgs):** 7.0' **DETECTOR:** UltraRae 3000
SCREEN SLOT: 0.01" **FILTER PACK:** 10-20 silica sand
CASING LENGTH: 5.0' **ANNULUS SEAL:** Bentonite chips
SCREEN LENGTH: 10.0' **SURFACE SEAL:** Concrete

HOLE DIAMETER.: 2.25"
WELL DIAMETER: 1.0"
CASING TYPE: PVC
SCREEN TYPE: PVC

PID (ppm)	Staining	Moisture Content	Sample ID	Recovery (ft/ft)	Depth (ft)	USCS	USCS Graphic	Lithology Description	Well Construction
		Dry			0	Road Base		Road Base: 0.0' - 1.0' - road base	
0.00						CL		CL: CLAY - 1.0' - 7.0' - silty, brown, dry to moist, no odor, no staining, clay content increases with depth, moist at 2' bgs	
0.00					5				
0.00		Wet	SB13 @ 7.0'			ML		ML: SILT - 7.0' - 15.0' - sandy, brown, some clay, wet, no odor, no staining, clay content varies with depth	
0.00					10				
0.00					15				



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BORING LOG/MONITORING WELL COMPLETION DIAGRAM

HOLE DIAMETER.: 2.25"
WELL DIAMETER: 1.0"
CASING TYPE: PVC
SCREEN TYPE: PVC

TD (ft bgs): 14' **DTW (ft bgs):** 5.0'
SCREEN SLOT: 0.01"
CASING LENGTH: 4.0'
SCREEN LENGTH: 10.0'

LOGGED BY: Dan Hosler
SAMPLE MTHD: Continuous
DRILL MTHD: Direct Push
DRILLED BY: Elite Drilling
DETECTOR: UltraRae 3000
FILTER PACK: 10-20 silica sand
ANNULUS SEAL: Bentonite chips
SURFACE SEAL: Concrete

PID (ppm)	Staining	Moisture Content	Sample ID	Recovery (ft/ft)	Depth (ft)	USCS	USCS Graphic	Lithology Description	Well Construction
		Dry			0	CL		CL: CLAY - 0.0' - 5.0' - silty, brown, dry to moist, no odor, no staining, clay content increases with depth, moist at 2' bgs	
		Wet	SB14 @ 5.0'		5	ML		ML: SILT - 5.0' - 14.5' - sandy, brown, little clay, wet, no odor, no staining, clay content varies with depth	
		Wet			15	CL		CL: CLAY - 14.5' - 15.0' - silty, brown, wet, no odor, no staining	



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BORING LOG/MONITORING WELL COMPLETION DIAGRAM

PROJECT NAME: Stroh 35-2 **LOGGED BY:** Dan Hosler
PROJECT NO.: 041715013.002 **SAMPLE MTHD:** Continuous
BORING/WELL ID.: SB15 **DRILL MTHD:** Direct Push
COMPLETION DATE: 09/24/2015 - 13:59 **DRILLED BY:** Elite Drilling
TD (ft bgs): 14.0' **DTW (ft bgs):** 5.0' **DETECTOR:** UltraRae 3000
SCREEN SLOT: 0.01" **FILTER PACK:** 10-20 silica sand
CASING LENGTH: 4.0' **ANNULUS SEAL:** Bentonite chips
SCREEN LENGTH: 10.0' **SURFACE SEAL:** NA

HOLE DIAMETER.: 2.25"
WELL DIAMETER: 1.0"
CASING TYPE: PVC
SCREEN TYPE: PVC

PID (ppm)	Staining	Moisture Content	Sample ID	Recovery (ft/ft)	Depth (ft)	USCS	USCS Graphic	Lithology Description	Well Construction
0.00		Dry			0	SC		SC: SAND - 0.0' - 12.0' - fine grained, clayey, brown, dry to moist, no odor, no staining, Wet at 5' bgs, decrease in clay content with depth	
4.60		Wet	SB15 @ 5.0'		5				
0.00					10	ML		ML: SILT - 12.0' - 14.0' - sandy, olive gray, little clay, wet, no odor, hydrocarbon staining	



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BORING LOG/MONITORING WELL COMPLETION DIAGRAM

PROJECT NAME: Stroh 35-2 **LOGGED BY:** Dan Hosler
PROJECT NO.: 041715013.002 **SAMPLE MTHD:** Continuous
BORING/WELL ID.: SB18 **DRILL MTHD:** Direct Push
COMPLETION DATE: 09/24/2015 - 13:59 **DRILLED BY:** Elite Drilling
TD (ft bgs): 14.0' **DTW (ft bgs):** 5.0' **DETECTOR:** UltraRae 3000
SCREEN SLOT: 0.01" **FILTER PACK:** 10-20 silica sand
CASING LENGTH: 4.0' **ANNULUS SEAL:** Bentonite chips
SCREEN LENGTH: 10.0' **SURFACE SEAL:** NA

HOLE DIAMETER.: 2.25"
WELL DIAMETER: 1.0"
CASING TYPE: PVC
SCREEN TYPE: PVC

PID (ppm)	Staining	Moisture Content	Sample ID	Recovery (ft/ft)	Depth (ft)	USCS	USCS Graphic	Lithology Description	Well Construction
		Dry			0	SC		SC: SAND - 0.0' - 11.0' - fine grained, clayey, brown, dry to moist, no odor, no staining, wet at 5' bgs, decrease in clay content with depth, little recovery 2" fine to coarse grained sand lense at 5' bgs	
		Wet	SB18 @ 5.0'		5				
					10	ML		ML: SILT - 11.0' - 14.0' - sandy, olive gray, little clay, wet, no odor, no staining	



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BORING LOG/MONITORING WELL COMPLETION DIAGRAM

PROJECT NAME: Stroh 35-2 **LOGGED BY:** Dan Hosler
PROJECT NO.: 041715013.002 **SAMPLE MTHD:** Continuous
BORING/WELL ID.: SB19 **DRILL MTHD:** Direct Push
COMPLETION DATE: 09/24/2015 - 13:59 **DRILLED BY:** Elite Drilling
TD (ft bgs): 14.0' **DTW (ft bgs):** 5.0' **DETECTOR:** UltraRae 3000
SCREEN SLOT: 0.01" **FILTER PACK:** 10-20 silica sand
CASING LENGTH: 4.0' **ANNULUS SEAL:** Bentonite chips
SCREEN LENGTH: 10.0' **SURFACE SEAL:** NA

HOLE DIAMETER.: 2.25"
WELL DIAMETER: 1.0"
CASING TYPE: PVC
SCREEN TYPE: PVC

PID (ppm)	Staining	Moisture Content	Sample ID	Recovery (ft/ft)	Depth (ft)	USCS	USCS Graphic	Lithology Description	Well Construction
0.00		Dry			0	SC		SC: SAND - 0.0' - 11.0' - fine grained, clayey, brown, dry to moist, no odor, no staining, wet at 5' bgs, decrease in clay content with depth	
0.00		Wet	SB19 @ 5.0'		5				
29.10					10				
984.40						ML		ML: SILT - 11.0' - 13.0' - sandy, brown, little clay, wet, no odor, no staining, slight stain and odor at 11'-12' bgs	
0.00		Wet				SC		SC: SAND - 13.0' - 14.0' - fine grained, clayey, brown, wet, no odor, no staining	



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BORING LOG/MONITORING WELL COMPLETION DIAGRAM

HOLE DIAMETER.: 2.25"
WELL DIAMETER: 1.0"
CASING TYPE: PVC
SCREEN TYPE: PVC

PROJECT NAME: Stroh 35-2
PROJECT NO.: 041715013.002
BORING/WELL ID.: SB20
COMPLETION DATE: 09/24/2015 - 13:59
TD (ft bgs): 14.0' **DTW (ft bgs):** 5.0'
SCREEN SLOT: 0.01"
CASING LENGTH: 4.0'
SCREEN LENGTH: 10.0'

LOGGED BY: Dan Hosler
SAMPLE MTHD: Continuous
DRILL MTHD: Direct Push
DRILLED BY: Elite Drilling
DETECTOR: UltraRae 3000
FILTER PACK: 10-20 silica sand
ANNULUS SEAL: Bentonite chips
SURFACE SEAL: NA

PID (ppm)	Staining	Moisture Content	Sample ID	Recovery (ft/ft)	Depth (ft)	USCS	USCS Graphic	Lithology Description	Well Construction
		Dry			0	SC		SC: SAND - 0.0' - 11.0' - fine grained, clayey, brown, dry to moist, no odor, no staining, wet at 5' bgs, decrease in clay content with depth	
17.00									
119.10		Wet	SB20 @ 5.0'		5				
0.00									
0.00									
0.00					10				
13.40						ML		ML: SILT - 11.0' - 13.0' - sandy, olive gray, little clay, wet, no odor, no staining	
894.00		Wet							
78.6						SC		SC: SAND - 13.0' - 14.0' - fine grained, clayey, brown, wet, no odor, no staining	



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BORING LOG/MONITORING WELL COMPLETION DIAGRAM

HOLE DIAMETER.: 2.25"
WELL DIAMETER: 1.0"
CASING TYPE: PVC
SCREEN TYPE: PVC

PROJECT NAME: Stroh 35-2
PROJECT NO.: 041715013.002
BORING/WELL ID.: SB21
COMPLETION DATE: 09/24/2015 - 13:59
TD (ft bgs): 14.0' **DTW (ft bgs):** 5.0'
SCREEN SLOT: 0.01"
CASING LENGTH: 4.0'
SCREEN LENGTH: 10.0'

LOGGED BY: Dan Hosler
SAMPLE MTHD: Continuous
DRILL MTHD: Direct Push
DRILLED BY: Elite Drilling
DETECTOR: UltraRae 3000
FILTER PACK: 10-20 silica sand
ANNULUS SEAL: Bentonite chips
SURFACE SEAL: NA

PID (ppm)	Staining	Moisture Content	Sample ID	Recovery (ft/ft)	Depth (ft)	USCS	USCS Graphic	Lithology Description	Well Construction
		Dry			0	SC		SC: SAND - 0.0' - 13.0' - fine grained, clayey, brown, dry to moist, no odor, no staining, wet at 5' bgs, decrease in clay content with depth	
		Wet	SB21 @ 5.0'		5				
					10	ML		ML: SILT - 13.0' - 14.0' - sandy, brown, little clay, wet, no odor, no staining	

ATTACHMENT 3
SOIL BORING ANALYTICAL REPORT



Test Report

eANALYTICS LABORATORY

September 23, 2015

Client: LT Environmental

Project: Stroh 35-2

Lab ID: 3895

Date Samples Received: 9/15/2015

Number of Samples: 3

Sample Condition: Samples arrived intact and in appropriate sample containers

Sample Temperature: Within acceptable range of 2-6° C, or as specified in EPA Method

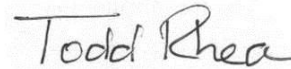
The quality control procedures associated with the requested analyses were satisfactorily passed before the samples were run.

Thank you for allowing eAnalytics Laboratory to provide laboratory services for you.

Sincerely,



Christopher Dieken
Quality Assurance Manager



Todd Rhea
Laboratory Manager

eAnalytics Laboratory

4130 Clydesdale Parkway Loveland CO 80538



Client: LT Environmental Lab ID: 3895
 Project: Stroh 35-2
 Analysis: BTEX / TPH-GRO Method: EPA8260
 TPH-DRO EPA8015

Sample Name	Benzene mg/kg	Toluene mg/kg	Ethyl- benzene mg/kg	Total Xylenes mg/kg	TPH- GRO mg/kg	TPH- DRO mg/kg	Date Sampled	Date Analyzed	Lab ID
SB12 @ 8'	<0.010	<0.010	<0.010	<0.010	<50.0	<50.0	09/14/15	09/16/15	3895 1
SB13 @ 7'	<0.010	<0.010	<0.010	<0.010	<50.0	<50.0	09/14/15	09/16/15	3895 2
SB14 @ 5'	<0.010	<0.010	<0.010	<0.010	<50.0	<50.0	09/14/15	09/16/15	3895 3



Client: LT Environmental

Lab ID: 3895

Project: Stroh 35-2

Method: EPA8260

Sample Name	Dibromo- fluoromethane % Recovery	1,2 Dichloro- ethane-D4 % Recovery	Toluene-D8 % Recovery	4-Bromo- fluorobenzene % Recovery	Date Sampled	Date Analyzed	Lab ID
SB12 @ 8'	93	96	100	92	09/14/15	09/16/15	3895 1
SB13 @ 7'	94	91	97	93	09/14/15	09/16/15	3895 2
SB14 @ 5'	101	91	89	98	09/14/15	09/16/15	3895 3

eAnalytics Laboratory

4130 Clydesdale Parkway Loveland CO 80538



Client: LT Environmental Lab ID: 3895
 Project: Stroh 35-2
 Analysis: BTEX / TPH-GRO Method: EPA8260
 TPH-DRO EPA8015

Sample Name	Benzene % Rec	Toluene % Rec	Ethyl- benzene % Rec	Total Xylenes % Rec	TPH- GRO % Rec	TPH- DRO % Rec	Date Analyzed	Lab ID
Laboratory Control Sample (70-130%)	91	101	107	95	89	108	09/16/15	LCS 3895 1
Method Blank	< 0.010 mg/kg	< 0.010 mg/kg	< 0.010 mg/kg	< 0.010 mg/kg	< 50.0 mg/kg	< 50.0 mg/kg	09/16/15	MB 3895 1

Test Report



October 1, 2015

Client: LT Environmental
Project: Stroh 35-2 041715013
Lab ID: 3954
Date Samples Received: 9/25/2015
Number of Samples: 6
Sample Condition: Samples arrived intact and in appropriate sample containers
Sample Temperature: Within acceptable range of 2-6° C, or as specified in EPA Method

The quality control procedures associated with the requested analyses were satisfactorily passed before the samples were run.

Thank you for allowing eAnalytics Laboratory to provide laboratory services for you.

Sincerely,

A handwritten signature in black ink that reads "Chris Dieken".

Christopher Dieken
Quality Assurance Manager

A handwritten signature in black ink that reads "Todd Rhea".

Todd Rhea
Laboratory Manager

eAnalytics Laboratory

4130 Clydesdale Parkway Loveland CO 80538

Chain of Custody

eANALYTICS

LABORATORY

Chain of Custody Form

			4130 Clydesdale Parkway Loveland CO 80538 Phone: (970) 667-6975 Fax: (970) 669-0941 www.eAnalyticsLab.com																																
CLIENT INFORMATION <small>(*New Clients please fill out completely)</small>			ANALYSIS INFORMATION <small>(Select analysis by checking box on corresponding sample line)</small>																																
Company: LTE Project: St04 35-2 041715013 Send Report To: Jess Alexander, Steve Kahn Send Invoice To: Phone/Email: 303-433-9788 Address: 4600 W. 60th Ave			<table border="1" style="width:100%; border-collapse: collapse; font-size: 8px;"> <tr> <th style="width: 5%;">Number of Containers</th> <th style="width: 10%;">Matrix (S) Soil (W) Water (A) Air (O) Other</th> <th style="width: 10%;">BTEX / MTBE / TVPH (EPA8260)</th> <th style="width: 10%;">BTEX / TVPH (EPA8260)</th> <th style="width: 10%;">TEPH (EPA8015)</th> <th style="width: 10%;">Volatiles - Full List (EPA8260)</th> <th style="width: 10%;">Semi-Volatiles Full List (EPA8270)</th> <th style="width: 10%;">PAHs (EPA8270)</th> <th style="width: 10%;">Oil & Grease (EPA9071B/1664)</th> <th style="width: 10%;">TRPH (EPA418.1)</th> <th style="width: 10%;">Total RCRA-8 Metals (EPA606/730/747)</th> <th style="width: 10%;">TCLP RCRA-8 Metals (EPA131/606/730/747)</th> <th style="width: 10%;">Vapor-Soil Vapor/BTEX (EPA TO-14)</th> <th style="width: 10%;">Vapor-Emissions BTEX / TVPH (TO-14)</th> <th style="width: 10%;">pH/TSS/TDS</th> </tr> <tr> <td style="text-align: center;">5</td> <td></td> <td style="text-align: center;">X X</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </table>			Number of Containers	Matrix (S) Soil (W) Water (A) Air (O) Other	BTEX / MTBE / TVPH (EPA8260)	BTEX / TVPH (EPA8260)	TEPH (EPA8015)	Volatiles - Full List (EPA8260)	Semi-Volatiles Full List (EPA8270)	PAHs (EPA8270)	Oil & Grease (EPA9071B/1664)	TRPH (EPA418.1)	Total RCRA-8 Metals (EPA606/730/747)	TCLP RCRA-8 Metals (EPA131/606/730/747)	Vapor-Soil Vapor/BTEX (EPA TO-14)	Vapor-Emissions BTEX / TVPH (TO-14)	pH/TSS/TDS	5		X X												
Number of Containers	Matrix (S) Soil (W) Water (A) Air (O) Other	BTEX / MTBE / TVPH (EPA8260)	BTEX / TVPH (EPA8260)	TEPH (EPA8015)	Volatiles - Full List (EPA8260)	Semi-Volatiles Full List (EPA8270)	PAHs (EPA8270)	Oil & Grease (EPA9071B/1664)	TRPH (EPA418.1)	Total RCRA-8 Metals (EPA606/730/747)	TCLP RCRA-8 Metals (EPA131/606/730/747)	Vapor-Soil Vapor/BTEX (EPA TO-14)	Vapor-Emissions BTEX / TVPH (TO-14)	pH/TSS/TDS																					
5		X X																																	
Lab ID	Sample Name	Sampling Date																																	
1	SB15@15'	9/24/15																																	
2	SB16@5'	↓																																	
3	SB17@5'	↓																																	
4	SB18@5'	↓																																	
5	SB19@5'	9/25/15																																	
6	SB20@5'	↓																																	
Comments:																																			
Turnaround Time (Business Days) <small>TAT begins when sample is received by eANALYTICS</small> <input checked="" type="radio"/> Normal (5-10 Days) <input type="radio"/> 3 Day (25%) Rush analysis requires an extra charge. <input type="radio"/> 2 Day (50%) If possible please inform eANALYTICS in advance for rush analysis. <input type="radio"/> 1 Day (100%) <input type="radio"/> Same Day (300%)					Record of Custody Relinquished by: <i>[Signature]</i> Company: LTE Received by: Company:					Date: 9/25/15 Time: 1050 AM/PM Date: Time:																									
Colorado OPS Project: Yes / No					Relinquished by: Company:					Date: Time:																									
For eANALYTICS Use Samples Received Intact: <input checked="" type="radio"/> Yes / <input type="radio"/> No Received Within Temperature Range (2-6°C): <input checked="" type="radio"/> Yes / <input type="radio"/> No Sample Preservative: <input checked="" type="radio"/> ICS / <input type="radio"/> None <input type="radio"/> Acid / <input type="radio"/> Other					Relinquished by: Company:					Date: 9/25/15 Time: 1050 AM/PM																									

Lab ID # **3954**

eAnalytics Laboratory
 4130 Clydesdale Parkway Loveland CO 80538
 (970) 667-6975

Page 1 of 1



Client: LT Environmental Lab ID: 3954
 Project: Stroh 35-2 041715013
 Analysis: BTEX / TPH-GRO Method: EPA8260
 TPH-DRO EPA8015

Sample Name	Benzene mg/kg	Toluene mg/kg	Ethyl- benzene mg/kg	Total Xylenes mg/kg	TPH- GRO mg/kg	TPH- DRO mg/kg	Date Sampled	Date Analyzed	Lab ID
SB15 @ 15'	<0.010	<0.010	<0.010	<0.010	<50	<50	09/24/15	09/25/15	3954 1
SB16 @ 8'	<0.010	<0.010	<0.010	<0.010	<50	<50	09/24/15	09/25/15	3954 2
SB17 @ 5'	<0.010	<0.010	<0.010	<0.010	<50	<50	09/24/15	09/25/15	3954 3
SB18 @ 5'	<0.010	<0.010	<0.010	<0.010	<50	<50	09/24/15	09/25/15	3954 4
SB19 @ 5'	<0.010	<0.010	<0.010	<0.010	<50	<50	09/25/15	09/25/15	3954 5
SB20 @ 5'	<0.010	<0.010	<0.010	<0.010	<50	<50	09/25/15	09/25/15	3954 6



Client: LT Environmental Lab ID: 3954
 Project: Stroh 35-2 041715013 Method: EPA8260

Sample Name	Dibromo-fluoromethane % Recovery	1,2 Dichloro-ethane-D4 % Recovery	Toluene-D8 % Recovery	4-Bromo-fluorobenzene % Recovery	Date Sampled	Date Analyzed	Lab ID
SB15 @ 15'	109	88	109	87	09/24/15	09/25/15	3954 1
SB16 @ 8'	106	92	109	92	09/24/15	09/25/15	3954 2
SB17 @ 5'	109	95	106	81	09/24/15	09/25/15	3954 3
SB18 @ 5'	101	87	117	102	09/24/15	09/25/15	3954 4
SB19 @ 5'	110	94	102	71	09/25/15	09/25/15	3954 5
SB20 @ 5'	109	93	105	79	09/25/15	09/25/15	3954 6



Client: LT Environmental Lab ID: 3954
 Project: Stroh 35-2 041715013
 Analysis: BTEX / TPH-GRO Method: EPA8260
 TPH-DRO EPA8015

Sample Name	Benzene % Rec	Toluene % Rec	Ethyl- benzene % Rec	Total Xylenes % Rec	TPH- GRO % Rec	TPH- DRO % Rec	Date Analyzed	Lab ID
Laboratory Control Sample (70-130%)	104	107	93	106	99	88	09/25/15	LCS 3954 1
Method Blank	< 0.010 mg/kg	< 0.010 mg/kg	< 0.010 mg/kg	< 0.010 mg/kg	< 50 mg/kg	< 50 mg/kg	09/25/15	MB 3954 1

Test Report



September 28, 2015

Client: LT Environmental
Project: Stroh 35-2 041715013
Lab ID: 3955
Date Samples Received: 9/25/2015
Number of Samples: 1
Sample Condition: Samples arrived intact and in appropriate sample containers
Sample Temperature: Within acceptable range of 2-6° C, or as specified in EPA Method

The quality control procedures associated with the requested analyses were satisfactorily passed before the samples were run.

Thank you for allowing eAnalytics Laboratory to provide laboratory services for you.

Sincerely,

A handwritten signature in black ink that reads "Chris Dieken".

Christopher Dieken
Quality Assurance Manager

A handwritten signature in black ink that reads "Todd Rhea".

Todd Rhea
Laboratory Manager

eAnalytics Laboratory


4130 Clydesdale Parkway Loveland CO 80538

Chain of Custody

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Chain of Custody Form

			4130 Clydesdale Parkway Loveland CO 80538 Phone: (970) 667-6975 Fax: (970) 669-0941 www.eAnalyticsLab.com		
CLIENT INFORMATION (*New Clients please fill out completely)			ANALYSIS INFORMATION (Select analysis by checking box on corresponding sample line)		
Company: <u>LTE</u> Project: <u>Stroh 35-2 041715013</u> Send Report To: <u>Jess Alexander, Steve Kohn</u> Send Invoice To: Phone/Email: <u>303-433-9788</u> Address: <u>4600 W. 60th Ave</u>			Matrix: (S) Soil (W) Water (A) Air (O) Other BTEX / MTBE / TVPH (EPA8260) BTEX / TVPH (EPA8260) TEPH (EPA8015) Volatiles - Full List (EPA8260) Semi-Volatiles Full List (EPA8270) PAHs (EPA8270) Oil & Grease (EPA9071B/1664) TRPH (EPA118.1) Total RCRA-8 Metals (EPA601/707/71) TCLP/RCRA-8 Metals (EPA111/101/207/21) Vapor-Soil Vapor/BTEX (EPA TO-14) Vapor-Emissions BTEX / TVPH (TO-14) pH/TSS/TDS		
Lab ID	Sample Name	Sampling Date	Number of Containers		
	SB21@5'	9/25/15	5	X	X
Comments:					
Turnaround Time (Business Days) TAT begins when sample is received by eANALYTICS <input checked="" type="radio"/> Normal (5-10 Days) <input type="radio"/> 3 Day (25%) <input type="radio"/> 2 Day (50%) <input type="radio"/> 1 Day (100%) <input type="radio"/> Same Day (300%) Rush analysis requires an extra charge. If possible please inform eANALYTICS in advance for rush analysis.			Record of Custody Relinquished by: <u>[Signature]</u> Date: <u>9/25/15</u> Company: <u>LTE</u> Time: <u>10:50 PM</u> Received by: Company:		
Colorado OPS Project: Yes / No			Relinquished by: Date:		
For eANALYTICS Use Samples Received Intact: Yes / No Received Within Temperature Range (2-6°C): Yes / No Sample Preservative: <u>Ice</u> / None / Acid / Other			Company: Time: AM / PM Received by: <u>[Signature]</u> Date: <u>9/25/15</u> Company: <u>eANALYTICS</u> Time: <u>10:50 PM</u>		
Lab ID # <u>3955</u>			eAnalytics Laboratory 4130 Clydesdale Parkway Loveland CO 80538 (970) 667-6975		
			Page <u>1</u> of <u>1</u>		



Client: LT Environmental Lab ID: 3955
 Project: Stroh 35-2 041715013
 Analysis: BTEX / TPH-GRO Method: EPA8260
 TPH-DRO EPA8015

Sample Name	Benzene mg/kg	Toluene mg/kg	Ethyl- benzene mg/kg	Total Xylenes mg/kg	TPH- GRO mg/kg	TPH- DRO mg/kg	Date Sampled	Date Analyzed	Lab ID
SB21 @ 5'	<0.010	<0.010	<0.010	<0.010	< 50.0	< 50.0	09/25/15	09/25/15	3955 1



Client: LT Environmental Lab ID: 3955
 Project: Stroh 35-2 041715013 Method: EPA8260

Sample Name	Dibromo-fluoromethane % Recovery	1,2 Dichloro-ethane-D4 % Recovery	Toluene-D8 % Recovery	4-Bromo-fluorobenzene % Recovery	Date Sampled	Date Analyzed	Lab ID
SB21 @ 5'	97	83	104	99	09/25/15	09/25/15	3955 1



Client: LT Environmental Lab ID: 3955
 Project: Stroh 35-2 041715013
 Analysis: BTEX / TPH-GRO Method: EPA8260
 TPH-DRO EPA8015

Sample Name	Benzene % Rec	Toluene % Rec	Ethyl- benzene % Rec	Total Xylenes % Rec	TPH- GRO % Rec	TPH- DRO % Rec	Date Analyzed	Lab ID
Laboratory Control Sample (70-130%)	104	107	93	106	99	88	09/25/15	LCS 3955 1
Method Blank	< 0.010 mg/kg	< 0.010 mg/kg	< 0.010 mg/kg	< 0.010 mg/kg	< 50.0 mg/kg	< 50.0 mg/kg	09/25/15	MB 3955 1

ATTACHMENT 4
GROUNDWATER ANALYTICAL REPORT



Test Report



October 6, 2015

Client: LT Environmental, Inc.
Project: Stroh 35-2
Lab ID: 4009
Date Samples Received: 10/1/2015
Number of Samples: 10
Sample Condition: Samples arrived intact and in appropriate sample containers
Sample Temperature: Within acceptable range of 2-6° C, or as specified in EPA Method

The quality control procedures associated with the requested analyses were satisfactorily passed before the samples were run.

Thank you for allowing eAnalytics Laboratory to provide laboratory services for you.

Sincerely,

A handwritten signature in black ink, appearing to read "Chris Dieken".

Christopher Dieken
Quality Assurance Manager

A handwritten signature in black ink, appearing to read "Todd Rhea".

Todd Rhea
Laboratory Manager

eAnalytics Laboratory
4130 Clydesdale Parkway Loveland CO 80538

Chain of Custody

eANALYTICS

LABORATORY

CHAIN OF CUSTODY FORM

eANALYTICS LABORATORY

1767 Rocky Mountain Avenue Loveland CO 80538 | Phone: (970) 667-6975 | Fax: (970) 669-0941 | www.eAnalyticsLab.com

CLIENT INFORMATION <small>(*New Clients please fill out completely)</small>			ANALYSIS INFORMATION <small>(Select analysis by checking box on corresponding sample line)</small>																						
Company: LT Environmental, Inc.			Number of Containers	Matrix: (S) Soil (W) Water (V) Vapor (O) Other	BTEX (8260)										LAB FILTER	Other Instructions									
Project: Stroh 35-2																									
Project Manager: Jess Alexander																									
Sampler: <i>GLENN THOMPSON</i>																									
Phone/Email:																									
Address: 4600 West 60th Ave. Arvada, CO 80003																									
Lab ID	Sample Name	Sampling Date/Time																							
1	MW01 A2	10/1/15 1300 AM	3	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>																				
2	SB12	1140 AM																							
3	SB13	1127 AM																							
4	SB14	1115 AM																							
5	SB15	1205 AM																							
6	SB16	1226 AM																							
7	SB17	1246 AM																							
8	SB18	1400 AM																							
9	SB19	1310 AM																							
10	SB20	1325 AM																							

Comments:

<p>Turnaround Time (Business Days) TAT begins when sample is received by eANALYTICS</p> <p><input checked="" type="radio"/> Normal (5-10 Days) <input type="radio"/> 3 Day (25%) <input type="radio"/> 2 Day (50%) <input type="radio"/> 1 Day (100%) <input type="radio"/> Same Day (300%)</p> <p>Rush analysis requires an extra charge. If possible please inform eANALYTICS in advance for rush analysis.</p> <p>Colorado OPS Project : Yes / No</p> <p>For eANALYTICS Use</p> <p>Samples Received Intact: <input checked="" type="radio"/> Yes / <input type="radio"/> No Received Within Temperature Range (2-6°C): <input checked="" type="radio"/> Yes / <input type="radio"/> No Sample Preservative: Ice / Acid / Other</p>	<p>Record of Custody</p> <p>Relinquished by: <i>[Signature]</i> Date: 10/1/15 Company: LTE Time: 1510 AM / PM</p> <p>Received by: _____ Date: _____ Company: _____ Time: _____ AM / PM</p> <p>Relinquished by: _____ Date: _____ Company: _____ Time: _____ AM / PM</p> <p>Received by: <i>[Signature]</i> Date: 10/1/15 Company: eANALYTICS Time: 7515 AM / PM</p>
--	--

WO # 4009 eANALYTICS: Environmental testing made Easy Page 1 of 1



Client: LT Environmental, Inc. Lab ID: 4009
 Project: Stroh 35-2
 Analysis: Volatile Organics Method: EPA8260

Sample Name	Benzene ug/L	Toluene ug/L	Ethyl- benzene ug/L	Total Xylenes ug/L	Date Sampled	Date Analyzed	Lab ID
MW01 A2	<1.0	<1.0	<1.0	<1.0	10/01/15	10/03/15	4009 1
SB12	<1.0	<1.0	<1.0	<1.0	10/01/15	10/03/15	4009 2
SB13	<1.0	<1.0	<1.0	<1.0	10/01/15	10/03/15	4009 3
SB14	<1.0	<1.0	<1.0	<1.0	10/01/15	10/03/15	4009 4
SB15	<1.0	<1.0	<1.0	<1.0	10/01/15	10/03/15	4009 5
SB16	<1.0	<1.0	<1.0	<1.0	10/01/15	10/03/15	4009 6
SB17	313	2.5	<1.0	1.4	10/01/15	10/03/15	4009 7
SB18	<1.0	<1.0	<1.0	<1.0	10/01/15	10/03/15	4009 8
SB19	1.3	<1.0	<1.0	<1.0	10/01/15	10/03/15	4009 9
SB20	<1.0	<1.0	1.6	2.1	10/01/15	10/03/15	4009 10



Client: LT Environmental, Inc.

Lab ID: 4009

Project: Stroh 35-2

Method: EPA8260

Sample Name	Dibromo-fluoromethane % Recovery	1,2 Dichloro-ethane-D4 % Recovery	Toluene-D8 % Recovery	4-Bromo-fluorobenzene % Recovery	Date Sampled	Date Analyzed	Lab ID
MW01 A2	101	89	88	92	10/01/15	10/03/15	4009 1
SB12	101	92	90	89	10/01/15	10/03/15	4009 2
SB13	100	94	88	89	10/01/15	10/03/15	4009 3
SB14	105	91	86	86	10/01/15	10/03/15	4009 4
SB15	102	92	88	95	10/01/15	10/03/15	4009 5
SB16	100	86	91	89	10/01/15	10/03/15	4009 6
SB17	90	83	89	95	10/01/15	10/03/15	4009 7
SB18	104	94	89	91	10/01/15	10/03/15	4009 8
SB19	89	84	90	103	10/01/15	10/03/15	4009 9
SB20	89	88	112	92	10/01/15	10/03/15	4009 10



Client: LT Environmental, Inc. Lab ID: 4009
 Project: Stroh 35-2
 Analysis: Volatile Organics Method: EPA8260

Sample Name	Benzene % Rec	Toluene % Rec	Ethyl- benzene % Rec	Total Xylenes % Rec	Date Analyzed	Lab ID
Laboratory Control Sample (70-130%)	99	102	107	99	10/03/15	LCS 4009 1
Method Blank	<1.0	<1.0	<1.0	<1.0	10/03/15	MB 4009 1
	ug/L	ug/L	ug/L	ug/L		

Test Report



October 5, 2015

Client: LT Environmental, Inc.
Project: Stroh 35-2
Lab ID: 4010
Date Samples Received: 10/1/2015
Number of Samples: 1
Sample Condition: Samples arrived intact and in appropriate sample containers
Sample Temperature: Within acceptable range of 2-6° C, or as specified in EPA Method

The quality control procedures associated with the requested analyses were satisfactorily passed before the samples were run.

Thank you for allowing eAnalytics Laboratory to provide laboratory services for you.

Sincerely,

A handwritten signature in black ink, appearing to read "Chris Dieken".

Christopher Dieken
Quality Assurance Manager

A handwritten signature in black ink, appearing to read "Todd Rhea".

Todd Rhea
Laboratory Manager

eAnalytics Laboratory

4130 Clydesdale Parkway Loveland CO 80538

eANALYTICS
LABORATORY

Client: LT Environmental, Inc. Lab ID: 4010
 Project: Stroh 35-2
 Analysis: Volatile Organics Method: EPA8260

Sample Name	Benzene ug/L	Toluene ug/L	Ethyl- benzene ug/L	Total Xylenes ug/L	Date Sampled	Date Analyzed	Lab ID
SB21	<1.0	<1.0	<1.0	<1.0	10/01/15	10/03/15	4010 1

eANALYTICS
LABORATORY

Client: LT Environmental, Inc. Lab ID: 4010
Project: Stroh 35-2 Method: EPA8260

Sample Name	Dibromo-fluoromethane % Recovery	1,2 Dichloro-ethane-D4 % Recovery	Toluene-D8 % Recovery	4-Bromo-fluorobenzene % Recovery	Date Sampled	Date Analyzed	Lab ID
SB21	100	88	89	90	10/01/15	10/03/15	4010 1



Client: LT Environmental, Inc. Lab ID: 4010
 Project: Stroh 35-2
 Analysis: Volatile Organics Method: EPA8260

Sample Name	Benzene % Rec	Toluene % Rec	Ethyl- benzene % Rec	Total Xylenes % Rec	Date Analyzed	Lab ID
Laboratory Control Sample (70-130%)	99	102	107	99	10/03/15	LCS 4010 1
Method Blank	<1.0	<1.0	<1.0	<1.0	10/03/15	MB 4010 1
	ug/L	ug/L	ug/L	ug/L		