

State of Colorado
Oil and Gas Conservation Commission



FOR OGCC USE ONLY

Received 12/29/2016
Remediation #9950

OGCC Employee:

Spill Complaint
 Inspection NOAV

Tracking No: _____

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

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): Closure of 2 pits

OGCC Operator Number: <u>10311</u> Name of Operator: <u>Synergy Resources Corporation</u> Address: <u>20203 Highway 60</u> City: <u>Platteville</u> State: <u>CO</u> Zip: <u>80651</u>	Contact Name and Telephone: <u>Jerry Brian</u> No: <u>970-518-2062</u> Fax: _____
API Number: <u>05-123-05766</u> County: <u>Weld</u> Facility Name: <u>Toedtli 22-2 Pit</u> Facility Number: <u>258442</u> Well Name: <u>Toedtli</u> Well Number: <u>22-2</u> Location: (QtrQtr, Sec, Twp, Rng, Meridian): <u>NWNE Sec. 22, T10N, R57W, 6th PM</u> Latitude: <u>40.831104</u> Longitude: <u>-103.736561</u>	

TECHNICAL CONDITIONS

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

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.): Rangeland

Soil type, if not previously identified on Form 2A or Federal Surface Use Plan: Poorly graded sand, silty sand, and some siltstone

Potential receptors (water wells within 1/4 mi, surface waters, etc.): Intermittent tributary to Horsetail Creek approximately 1,220 feet southwest

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

Impacted Media (check):	Extent of Impact:	How Determined:
<input checked="" type="checkbox"/> Soils	<u>Elevated EC at surface and SAR at 12' bgs</u>	<u>Site investigation and excavation soil samples</u>
<input type="checkbox"/> Vegetation	_____	_____
<input type="checkbox"/> Groundwater	_____	_____
<input type="checkbox"/> Surface Water	_____	_____

REMEDIALTION WORKPLAN

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

On October 28, 2016, site investigation activities were conducted to assess the potential presence of petroleum hydrocarbon impact associated with two historical evaporation pits and one adjacent tinhorn. Please refer to the LTE Site Investigation and Closure Request, dated December 22, 2016, for additional details.

Describe how source is to be removed:

No organic impacts were encountered during the site investigation. One soil sample collected from the westernmost evaporation pit from within 3 feet below ground surface (bgs) indicated an elevated level of electrical conductivity (EC) and one soil sample collected from 12 feet bgs below the tinhorn location indicated an elevated level of sodium adsorption ratio (SAR). No additional removal activities are planned at this time.

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.:

Elevated levels of EC and SAR will be addressed by pushing the pit berms in and burying all impacted soil greater than 3 feet bgs. The area will then be backfilled using existing material and augmented with clean fill where needed, then covered with topsoil.



Tracking Number: _____
Name of Operator: Synergy Resources Corporation
OGCC Operator No: 10311
Received Date: 12/29/2016
Well Name & No: _____ Toedtli 22-2
Facility Name & No: _____ Toedtli 22-2 Pit 258442

REMEDIATION WORKPLAN (Cont.)

Page 2

If groundwater has been impacted, describe proposed monitoring plan (# of wells or sample points, sampling schedule, analytical methods, etc.):
Groundwater was not encountered during the site investigation activities.

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.
As discussed above, the perimeter berms will be pushed in to fill the pit. Impacted soils (EC, pH, and SAR) from the Toedtli 1-10 Pit will be hauled to the Toedtli 22-2 and used for fill below 3 feet bgs. Prior to transporting impacted soils, Synergy will submit a written Waste Management Plan to the COGCC on a Sundry Notice, Form 4. Clean fill will be brought in as necessary to re-establish the pre-existing grade. Final reclamation will be compliant with COGCC 1004 series rules.

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.):
Not applicable

IMPLEMENTATION SCHEDULE

Date Site Investigation Began: 10/28/2016 Date Site Investigation Completed: 11/1/2016 Date Remediation Plan Submitted: N/A
Remediation Start Date: N/A Anticipated Completion Date: N/A Actual Completion Date: N/A

I hereby certify that the statements made in this form are, to the best of my knowledge, true, correct, and complete.
Print Name: Jerry Brian Signed: [Signature]
Title: Manager of Environmental and Health Date: _____

OGCC Approved: _____ Title: Northeast EPS Date: 1/3/2017

Condition of Approval: Operator shall comply with the Waste Management Plan on approved Sundry Notice Document #401176256. Material with elevated pH, SAR, or EC should be buried under a minimum of three (3) feet of backfill cover and soil that satisfies either the Table 910-1 levels for pH, SAR, and EC or the background levels for such contaminants within three (3) feet of the ground surface at the site. In addition, the soil horizons must be replaced in their original relative position and the location must be reclaimed in accordance with 1000 Series Rules, including the establishment of vegetative cover on non-cropland and successful crop growth on cropland.



December 29, 2016

Mr. Rick Allison, P.G.
Environmental Protection Specialist
Colorado Oil and Gas Conservation Commission
1120 Lincoln Street, Suite 801
Denver, Colorado 80203

**RE: Toedtli 22-2 Pit (Remediation Project #9950)
Site Investigation Supplemental Information
Synergy Resources Corporation
Weld County, Colorado**

Dear Mr. Allison:

LT Environmental, Inc. (LTE) has prepared this report on behalf of Synergy Resources Corporation (Synergy) to provide the Colorado Oil and Gas Conservation Commission (COGCC) with documentation of the site investigation activities conducted at the two Toedtli 22-2 Pits (Site). The Site is identified in the Colorado Oil and Gas Information System by Facility Number 258442, and has been assigned Remediation Project #9950. The Site is located approximately 2.50 miles west of Colorado State Highway 71 and 2.08 miles south of County Road 120 in Weld County, Colorado. The legal site description is the northwest quarter of the northeast quarter of Section 22, Township 10 North, Range 57 West, 6th Principal Meridian. The Site Location Map is provided as Figure 1.

Site Investigation Activities

On October 28, 2016, under the direction of Synergy, LTE personnel conducted a site investigation to assess potential impact associated with the historical evaporation pits. Soil borings were advanced using a hand auger and soil samples were collected and field screened for volatile organic compounds using a photo-ionization detector (PID). Six soil borings (SB01 through SB06) were advanced to depths ranging from 1.5 feet below ground surface (bgs) to 7.5 feet bgs to assess the potential presence of petroleum hydrocarbon impact at the Site. Six soil samples (SB01@0.5', SB02@0.5', SB03@1.5', SB04@2', SB05@0.5', and SB06@0.5') were collected and submitted for laboratory analysis based on the interval that exhibited visible soil staining and/or where the most elevated PID reading was observed. One soil sample (SB02@0'-3') was collected and submitted for laboratory analysis to assess the potential presence of inorganic impact near the surface within the typical vegetative root zone. Groundwater was not encountered during the site investigation activities.

Soil Boring Sampling

Six soil samples (SB01@0.5', SB02@0.5', SB03@1.5', SB04@2', SB05@0.5', and SB06@0.5') were collected, placed on ice, then submitted with a completed chain of custody



form to eAnalytics Laboratory (eAnalytics) of Loveland, Colorado, for 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 8260 and TPH as diesel range organics (DRO) by EPA Method 8015. One soil sample (SB02@0'-3') was submitted for laboratory analysis of pH by EPA Method 9045D, electrical conductivity (EC) by modified United States Department of Agriculture (USDA) Method 60(3), and sodium adsorption ratio (SAR) by modified USDA Method 60(20B).

Soil Boring Analytical Results

The COGCC Table 910-1 standards for BTEX, TPH, pH, EC, and SAR in soil are 0.17 milligrams per kilogram (mg/kg), 85 mg/kg, 100 mg/kg, 175 mg/kg, 500 mg/kg, 6 to 9 standard units, 4 millimhos per centimeter (mmhos/cm), and 12, respectively. Laboratory soil analytical results indicated that all six soil samples were in compliance with applicable COGCC Table 910-1 standards for BTEX, TPH, pH, and SAR, where applicable.

Soil sample SB02@0'-3' exceeded the COGCC Table 910-1 standard for EC at a concentration of 6.72 mmhos/cm.

The site investigation soil analytical results are presented on Figure 2 and summarized in Table 1. The site investigation laboratory analytical report is included as Attachment 1.

Excavation Activities

Under the direction of Synergy, Ram-Co Construction Services, LLC of Fort Lupton, Colorado, removed the tinhorn present at the Site. The total extent of the excavation needed to remove the tinhorn was approximately 8 feet east-west by 8 feet north-south to a total depth of 12 feet bgs. Excavated soil consisted primarily of poorly graded sand and silty sand from ground surface to total depth. No petroleum hydrocarbon staining or odor was observed at the final extent of the excavation. The soil excavated during the removal of the tinhorn was used to backfill the excavated area.

Excavation Soil Sampling

During the tinhorn removal activities on November 1, 2016, four confirmation soil samples (SS01@6.5', SS02@5', SS03@6', and SS04@5') were collected from the excavation sidewalls and one confirmation soil sample (SS05@12') was collected from the excavation floor. All soil samples were collected, placed on ice, then submitted with a completed chain of custody form to eAnalytics for laboratory analysis of BTEX and TPH as GRO by EPA Method 8260 and TPH as DRO by EPA Method 8015. The floor sample (SB05@12') was also submitted for laboratory analysis of pH by EPA Method 9045D, EC by modified USDA Method 60(3), and SAR by modified USDA Method 60(20B).



Excavation Soil Analytical Results

Laboratory analytical results for all five excavation confirmation soil samples indicated compliance with the COGCC Table 910-1 standards for BTEX, TPH, and pH, where applicable. Soil sample SS05@12' exceeded the COGCC Table 910-1 standard for EC and SAR at concentrations of 7.12 mmhos/cm and 22.1, respectively. The excavation soil analytical results are presented on Figure 3 and summarized in Table 2. The excavation laboratory analytical reports are included as Attachment 2.

Remedial Action Plan

The Site is located on an active oil and gas production facility that is set to be plugged and abandoned. To mitigate elevated levels of EC and SAR, the earthen berms surrounding the pits will be pushed in to bury all impacted material at a depth greater than 3 feet bgs. Impacted soils (EC, pH, and SAR) from the Toedtli 1-10 Pit will be hauled to the Toedtli 22-2 and used for fill below 3 feet bgs. Prior to transporting impacted soils, Synergy will submit a written Waste Management Plan to the COGCC on a Sundry Notice, Form 4. Clean backfill will then be imported as needed to bring the former pit area up to the surrounding grade. Once the backfilling is completed, LTE will collect soil samples from beneath the berm to evaluate the presence of any elevated levels of EC and SAR remaining at the Site. If the samples meet COGCC Table 910-1 standards, closure will be requested and final reclamation will be completed in accordance with COGCC Rule 1004.

Please call the undersigned at 303-433-9788 if you have any questions or comments regarding the contents of this report.

Sincerely,

LT ENVIRONMENTAL, INC.

A handwritten signature in blue ink that reads "Allison S. White". The signature is written in a cursive, flowing style.

Allison White, P.E.
Project Engineer

A handwritten signature in black ink that reads "Steve Kahn". The signature is written in a cursive, flowing style.

Steve Kahn, P.E.
Vice President

cc: Mr. Jerry Brian, Manager of Environmental and Health, Synergy Resources Corporation



Attachments

Figure 1	Site Location Map
Figure 2	Site Investigation Soil Analytical Results
Figure 3	Excavation Soil Analytical Results
Table 1	Site Investigation Soil Analytical Results
Table 2	Excavation Soil Analytical Results
Attachment 1	Site Investigation Laboratory Analytical Report
Attachment 2	Excavation Laboratory Analytical Reports

FIGURES

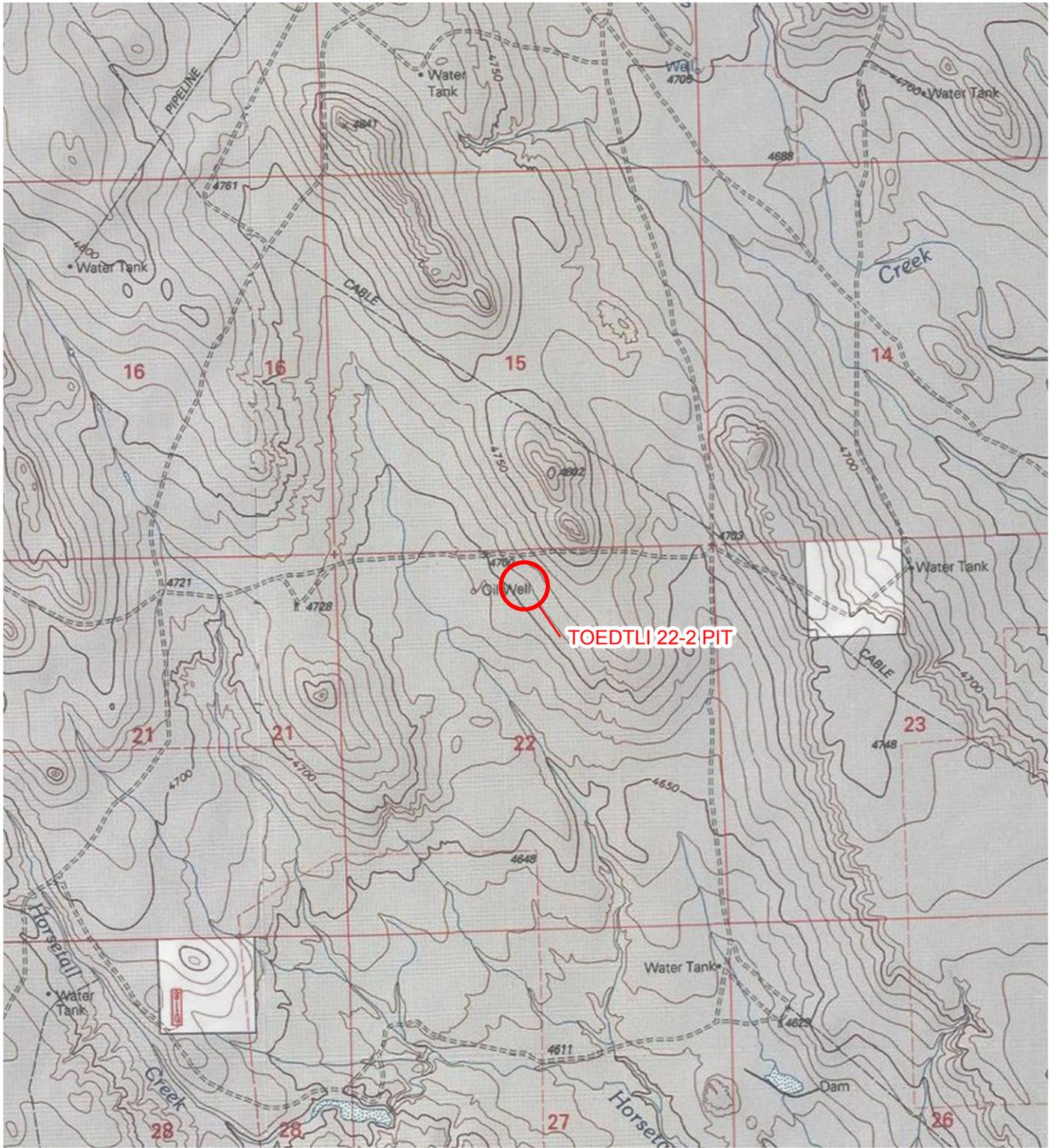


IMAGE COURTESY OF ESRI/USGS

LEGEND

 SITE LOCATION

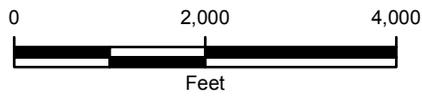


FIGURE 1
SITE LOCATION MAP
TOEDTLI 22-2 PIT
SEC 22-T10N-R57W
WELD COUNTY, COLORADO
SYNERGY RESOURCES CORPORATION



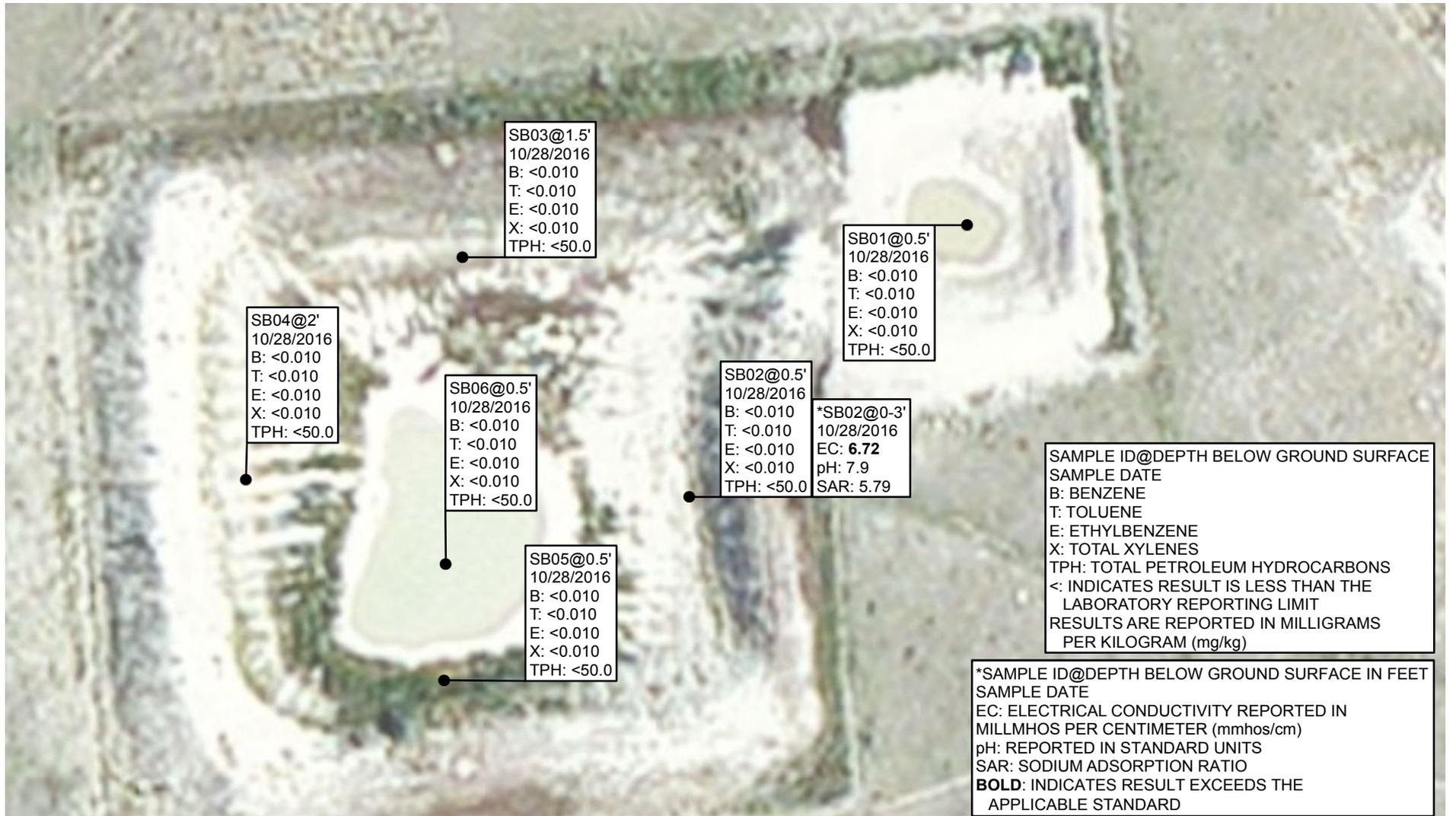


IMAGE COURTESY OF ESRI

LEGEND

● SOIL BORING

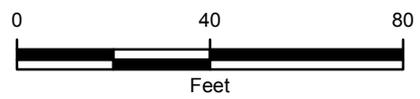


FIGURE 2
SITE INVESTIGATION SOIL ANALYTICAL RESULTS
TOEDTLI 22-2 PIT
SEC 22-T10N-R57W
WELD COUNTY, COLORADO
SYNERGY RESOURCES CORPORATION





SAMPLE ID@DEPTH BELOW GROUND SURFACE
 SAMPLE DATE
 B: BENZENE
 T: TOLUENE
 E: ETHYLBENZENE
 X: TOTAL XYLENES
 TPH: TOTAL PETROLEUM HYDROCARBONS
 <: INDICATES RESULT IS LESS THAN THE LABORATORY REPORTING LIMIT
 RESULTS ARE REPORTED IN MILLIGRAMS PER KILOGRAM (mg/kg)

*SAMPLE ID@DEPTH BELOW GROUND SURFACE IN FEET
 SAMPLE DATE
 EC: ELECTRICAL CONDUCTIVITY REPORTED IN MILLIMHOS PER CENTIMETER (mmhos/cm)
 pH: REPORTED IN STANDARD UNITS
 SAR: SODIUM ADSORPTION RATIO
BOLD: INDICATES RESULT EXCEEDS THE APPLICABLE STANDARD

IMAGE COURTESY OF ESRI

LEGEND

- SOIL SAMPLE
- ▲ BACKGROUND SOIL SAMPLE
- - - EXCAVATION EXTENT

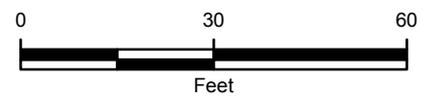


FIGURE 3
 EXCAVATION SOIL ANALYTICAL RESULTS
 TOEDTLI 22-2 PIT
 SEC 22-T10N-R57W
 WELD COUNTY, COLORADO
 SYNERGY RESOURCES CORPORATION



TABLES



TABLE 1
SITE INVESTIGATION SOIL ANALYTICAL RESULTS
TOEDTLI 22-2 PIT
WELD COUNTY, COLORADO
SYNERGY RESOURCES CORPORATION

Soil Sample	Date	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	GRO (mg/kg)	DRO (mg/kg)	TPH (mg/kg)	pH (s.u.)	EC (mmhos/cm)	SAR (unitless)
SB01@0.5'	10/28/2016	<0.010	<0.010	<0.010	<0.010	<50.0	<50.0	<50.0	--	--	--
SB02@0.5'	10/28/2016	<0.010	<0.010	<0.010	<0.010	<50.0	<50.0	<50.0	--	--	--
SB02@0'-3'	10/28/2016	--	--	--	--	--	--	--	7.9	6.72	5.79
SB03@1.5'	10/28/2016	<0.010	<0.010	<0.010	<0.010	<50.0	<50.0	<50.0	--	--	--
SB04@2'	10/28/2016	<0.010	<0.010	<0.010	<0.010	<50.0	<50.0	<50.0	--	--	--
SB05@0.5'	10/28/2016	<0.010	<0.010	<0.010	<0.010	<50.0	<50.0	<50.0	--	--	--
SB06@0.5'	10/28/2016	<0.010	<0.010	<0.010	<0.010	<50.0	<50.0	<50.0	--	--	--
COGCC Table 910-1 Standards		0.17	85	100	175	--	--	500	6-9	4	12

NOTES:

COGCC - Colorado Oil and Gas Conservation Commission

DRO - diesel range organics analyzed by EPA Method 8015

EC - electrical conductivity analyzed by modified USDA Method 60 (3)

GRO - gasoline range organics analyzed by EPA Method 8260

mg/kg - milligrams per kilogram

mmhos/cm - millimhos per centimeter

SAR - soil adsorption ratio analyzed by modified USDA Method 60 (20B)

s.u. - standard units

TPH - total petroleum hydrocarbons is the sum of GRO and DRO

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

-- - indicates there is no regulatory standard or the sample was not analyzed for the parameter

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

pH analyzed by EPA Method 9045D

BOLD indicates result exceeds the applicable standard

TABLE 2
EXCAVATION SOIL ANALYTICAL RESULTS
TOEDTLI 22-2 PIT
WELD COUNTY, COLORADO
SYNERGY RESOURCES CORPORATION

Soil Sample	Date	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	GRO (mg/kg)	DRO (mg/kg)	TPH (mg/kg)	pH (s.u.)	EC (mmhos/cm)	SAR (unitless)
SS01@6.5'	11/1/2016	<0.010	<0.010	<0.010	<0.010	<50.0	<50.0	<50.0	--	--	--
SS02@5'	11/1/2016	<0.010	<0.010	<0.010	<0.010	<50.0	<50.0	<50.0	--	--	--
SS03@6'	11/1/2016	<0.010	<0.010	<0.010	<0.010	<50.0	<50.0	<50.0	--	--	--
SS04@5'	11/1/2016	<0.010	<0.010	<0.010	<0.010	<50.0	<50.0	<50.0	--	--	--
SS05@12'	11/1/2016	<0.010	<0.010	<0.010	<0.010	<50.0	81.7	81.7	8.1	7.12	22.1
COGCC Table 910-1 Standards		0.17	85	100	175	--	--	500	6-9	4	12

NOTES:

COGCC - Colorado Oil and Gas Conservation Commission

DRO - diesel range organics analyzed by EPA Method 8015

EC - electrical conductivity analyzed by modified USDA Method 60 (3)

GRO - gasoline range organics analyzed by EPA Method 8260

mg/kg - milligrams per kilogram

mmhos/cm - millimhos per centimeter

SAR - soil adsorption ratio analyzed by modified USDA Method 60 (20B)

s.u. - standard units

TPH - total petroleum hydrocarbons is the sum of GRO and DRO

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

-- - indicates there is no regulatory standard or the sample was not analyzed for the parameter

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

pH analyzed by EPA Method 9045D

ATTACHMENT 1
SITE INVESTIGATION LABORATORY ANALYTICAL REPORT



Test Report

eANALYTICS LABORATORY

November 7, 2016

Client: LT Environmental

Project: Toedtli 22-2

Lab ID: 6042

Date Samples Received: 10/31/2016

Number of Samples: 7

Sample Condition: Samples arrived intact and in appropriate sample containers

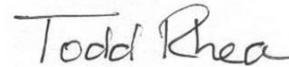
Sample Temperature: Samples arrived within the acceptable temperature range as specified in the test method

Comments:

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



Christopher Dieken
Quality Assurance Manager



Todd Rhea
Laboratory Manager

eAnalytics Laboratory

4130 Clydesdale Parkway Loveland CO 80538



Client: LT Environmental Lab ID: 6042
 Project: Toedtli 22-2
 Analysis: Volatile Organics Method: EPA8260
 TPH-GRO/DRO EPA8260/8015

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
SB01 @ 0.5'	<0.010	<0.010	<0.010	<0.010	<50.0	<50.0	10/28/16	11/01/16	6042 1
SB02 @ 0.5'	<0.010	<0.010	<0.010	<0.010	<50.0	<50.0	10/28/16	11/01/16	6042 3
SB03 @ 1.5'	<0.010	<0.010	<0.010	<0.010	<50.0	<50.0	10/28/16	11/01/16	6042 4
SB04 @ 2'	<0.010	<0.010	<0.010	<0.010	<50.0	<50.0	10/28/16	11/01/16	6042 5
SB05 @ 0.5'	<0.010	<0.010	<0.010	<0.010	<50.0	<50.0	10/28/16	11/01/16	6042 6
SB06 @ 0.5'	<0.010	<0.010	<0.010	<0.010	<50.0	<50.0	10/28/16	11/01/16	6042 7

eANALYTICS
LABORATORY

Client:	LT Environmental	Lab ID:	6042
Project:	Toedtli 22-2		
Analysis:	pH-Soil Electrical Conductivity-Soil SAR	Method:	EPA9045D USDA 60 (3)m USDA 60 (20B)m

Sample Name	pH	EC	SAR	Date	Date	Lab ID
	su	mmhos/cm	ratio	Sampled	Analyzed	
SB02 @ 0'-3'	7.9	6.72	5.79	10/28/16	11/01/16	6042 2



Client: LT Environmental

Lab ID: 6042

Project: Toedtli 22-2

Method: EPA8260

Sample Name	Dibromo- fluoromethane % Recovery	1,2 Dichloro- ethane-D4 % Recovery	Toluene-D8 % Recovery	Bromo- fluorobenzene % Recovery	Date Sampled	Date Analyzed	Lab ID
SB01 @ 0.5'	91	91	99	89	10/28/16	11/01/16	6042 1
SB02 @ 0.5'	92	92	102	92	10/28/16	11/01/16	6042 3
SB03 @ 1.5'	89	89	102	91	10/28/16	11/01/16	6042 4
SB04 @ 2'	91	95	101	91	10/28/16	11/01/16	6042 5
SB05 @ 0.5'	89	94	101	91	10/28/16	11/01/16	6042 6
SB06 @ 0.5'	89	91	102	87	10/28/16	11/01/16	6042 7

eAnalytics Laboratory

4130 Clydesdale Parkway Loveland CO 80538



Client: LT Environmental Lab ID: 6042
 Project: Toedtli 22-2
 Analysis: Volatile Organics Method: EPA8260
 TPH-GRO/DRO EPA8260/8015

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%)	101	92	90	90	86	100	11/01/16	LCS 6042 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	11/01/16	MB 6042 1

ATTACHMENT 2
EXCAVATION LABORATORY ANALYTICAL REPORTS



Test Report

eANALYTICS LABORATORY

November 3, 2016

Client: LT Environmental

Project: Toedtli 22-2

Lab ID: 6051

Date Samples Received: 11/2/2016

Number of Samples: 5

Sample Condition: Samples arrived intact and in appropriate sample containers

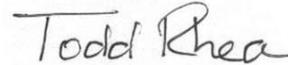
Sample Temperature: Samples arrived within the acceptable temperature range as specified in the test method

Comments:

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



Christopher Dieken
Quality Assurance Manager



Todd Rhea
Laboratory Manager

eAnalytics Laboratory

4130 Clydesdale Parkway Loveland CO 80538



Client: LT Environmental Lab ID: 6051
 Project: Toedtli 22-2
 Analysis: Volatile Organics Method: EPA8260
 TPH-GRO/DRO EPA8260/8015

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
SS01 @ 6.5'	<0.010	<0.010	<0.010	<0.010	<50.0	<50.0	11/01/16	11/02/16	6051 1
SS02 @ 5'	<0.010	<0.010	<0.010	<0.010	<50.0	<50.0	11/01/16	11/02/16	6051 2
SS03 @ 6'	<0.010	<0.010	<0.010	<0.010	<50.0	<50.0	11/01/16	11/02/16	6051 3
SS04 @ 5'	<0.010	<0.010	<0.010	<0.010	<50.0	<50.0	11/01/16	11/02/16	6051 4
SS05 @ 12'	<0.010	<0.010	<0.010	<0.010	<50.0	81.7	11/01/16	11/02/16	6051 5



Client: LT Environmental

Lab ID: 6051

Project: Toedtli 22-2

Method: EPA8260

Sample Name	Dibromo- fluoromethane % Recovery	1,2 Dichloro- ethane-D4 % Recovery	Toluene-D8 % Recovery	Bromo- fluorobenzene % Recovery	Date Sampled	Date Analyzed	Lab ID
SS01 @ 6.5'	88	90	101	86	11/01/16	11/02/16	6051 1
SS02 @ 5'	91	94	101	88	11/01/16	11/02/16	6051 2
SS03 @ 6'	91	91	100	86	11/01/16	11/02/16	6051 3
SS04 @ 5'	92	93	101	88	11/01/16	11/02/16	6051 4
SS05 @ 12'	92	92	111	70	11/01/16	11/02/16	6051 5



Client: LT Environmental Lab ID: 6051
 Project: Toedtli 22-2
 Analysis: Volatile Organics Method: EPA8260
 TPH-GRO/DRO EPA8260/8015

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%)	107	110	106	104	107	93	11/02/16	LCS 6051 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	11/02/16	MB 6051 1

Test Report

eANALYTICS LABORATORY

December 9, 2016

Client: LT Environmental

Project: Toedtli 22-2 (Inorganics)

Lab ID: 6050

Date Samples Received: 11/2/2016

Number of Samples: 2

Sample Condition: Samples arrived intact and in appropriate sample containers

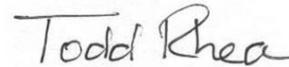
Sample Temperature: Samples arrived within the acceptable temperature range as specified in the test method

Comments:

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



Christopher Dieken
Quality Assurance Manager



Todd Rhea
Laboratory Manager

eAnalytics Laboratory

4130 Clydesdale Parkway Loveland CO 80538



Client:	LT Environmental	Lab ID:	6050
Project:	Toedtli 22-2 (Inorganics)		
Analysis:	pH-Soil Electrical Conductivity-Soil SAR	Method:	EPA9045D USDA 60 (3)m USDA 60 (20B)m

Sample Name	pH	EC	SAR	Date	Date	Lab ID
	su	mmhos/cm	ratio	Sampled	Analyzed	
SS05 @ 12'	8.1	7.12	22.1	11/01/16	11/03/16	6050 1