



August 17, 2016

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

**RE: Additional Site Investigation, Remediation Activities, and Closure Request
Peterson 1-12 Tank Battery (Facility ID 323590)
Weld County, Colorado
Spill/Release Point ID - 445470**

Dear Mr. Allison:

LT Environmental, Inc. (LTE), under the direction of Synergy Resources Corporation (Synergy), has conducted additional excavation, ex-situ chemical remediation of impacted soil, and groundwater monitoring at the Peterson 1-12 Tank Battery (Site), Facility ID 323590. The Site is located approximately 0.57 miles east of the intersection of Weld County Road 47 and Weld County Road 72 in Eaton, Colorado. The legal site description is the northeast quarter of the northwest quarter of Section 12, Township 6 North, Range 65 West, 6th Principal Meridian. The Site Location Map is provided as Figure 1 and the Site Map is provided as Figure 2. The following report provides a history of previous cleanup efforts and details the additional excavation, ex-situ remediation, and groundwater monitoring activities conducted in July of 2016.

Site History

On April 12, 2016, a Synergy subcontractor observed evidence of historical hydrocarbon impacts to soil and groundwater while removing a partially buried produced water vault as part of plug and abandonment (P&A) activities. The associated well was decommissioned prior to removing the vault, per the Colorado Oil and Gas Conservation Commission (COGCC) regulations. Synergy retained Ram-Co Construction Services (Ram-Co), of Fort Lupton, Colorado, to conduct source removal excavation activities and LTE to oversee remediation activities. LTE, on behalf of Synergy, submitted a Form 19 Spill/Release Report (Initial), COGCC Document Number 401026931, to the COGCC and notified Weld County of the historical release on April 13, 2016, and a Form 19 Spill/Release Report (Supplemental), Document Number 401049845 was submitted to the COGCC on May 18, 2016.

The following is a summary of the excavation and remediation activities that have occurred to date at the Site:

- On April 12 through April 14, 2016, 850 cubic yards of impacted soil was excavated from the site and transported under waste manifest to a licensed disposal facility. The dimensions of the excavation was approximately 50 feet north-south by 50 feet east-west



by 9 feet below ground surface (bgs). Groundwater was observed at approximately 8 feet bgs.

- On April 22 and April 25, 2016, LTE conducted a limited environmental site assessment where 14 soil borings (MW01 through MW14) were advanced to 12 feet bgs and completed as monitoring wells to delineate the extent of the remaining hydrocarbon impact to soil and groundwater at the site. LTE collected one soil sample from each of the soil borings for laboratory analysis. Soil samples were collected from the unsaturated zone at the interval exhibiting the most elevated photo-ionizing detector readings or where evidence of hydrocarbon impacts existed including staining or odor. In the event that no impact was observed, LTE collected a soil sample from within 1 foot above the top of groundwater. Soil analytical results indicated that all soil boring samples were in compliance with applicable COGCC Table 910-1 standards. Soil analytical results are summarized in Table 1 and presented on Figure 3. Soil laboratory analytical reports are provided as an attachment.
- On May 2, 2016, LTE collected groundwater samples from monitoring wells MW01 through MW14 for analysis of benzene, toluene, ethylbenzene, and total xylenes (BTEX). Laboratory analytical results indicated that all groundwater samples collected from the monitoring wells were below the laboratory reporting limits, except for total xylenes in MW08. However, the detection of total xylenes in MW08 was 1.5 µg/L which is below the COGCC Table 910-1 standard of 1,400 µg/L. Groundwater analytical results are summarized in Table 2 and presented on Figure 4. The groundwater laboratory analytical report is attached.
- On May 12, 2016, confirmation soil samples were collected from the sidewalls and one groundwater sample was collected from the open excavation. Confirmation soil samples from the north wall (SS01@4.5') and from the east wall (SS02@4') exceeded the COGCC Table 910-1 standard for total petroleum hydrocarbons (TPH). The groundwater sample (GW01) exceed the COGCC Table 910-1 standard for benzene. Soil analytical results are summarized in Table 1 and presented on Figure 3. The groundwater analytical result is summarized in Table 2 and presented on Figure 4. Soil and groundwater laboratory analytical reports are attached.

Additional Excavation and Ex-Situ Soil Remediation

Elevated concentrations of TPH were observed in confirmation soil samples collected from the northern and eastern sidewalls (SS01@4.5' and SS02@4') of the source removal excavation. However, TPH concentrations of the soil samples collected from soil borings advanced within 10 feet of the northern and eastern sidewalls of the source removal excavation (MW05, MW06, MW07, and MW08) were in compliance with COGCC Table 910-1 applicable standards. Based on this data, the extent of impact was contained to within 10 feet of the northern and eastern limits of the initial source removal excavation. LTE discussed the excavation protocol with Mr. Rick Allison of the COGCC and we collectively determined to continue the source removal excavation



north and east, using the soil samples collected from the northern and eastern perimeter boreholes (MW05, MW06, MW07, and MW08) as point of compliance locations, to confirm the limits of the source removal excavation. Soil analytical results are summarized in Table 1. Soil Laboratory analytical reports are provided as attachments.

On July 19, 2016, Synergy completed additional excavation at the Site to remove the remaining hydrocarbon impacted soil from the northern and eastern sidewalls of the initial excavation. Excavation activities were conducted by Unlimited Construction (Unlimited), of Roosevelt, Utah. An LTE remediation technician was onsite to direct onsite treatment, observe potential hydrocarbon impacts, conduct health and safety monitoring, document site conditions, direct contractors, and manage excavation activities at the Site. The northern and eastern sidewalls of the initial excavation were excavated to approximately 2 feet beyond soil borings MW05, MW06, MW07, and MW08 where soil sample analytical results indicated compliance with all applicable standards. Approximately 600 yards of soil was removed and stockpiled onsite. The final extent of the excavation is illustrated on Figure 2.

Following excavation activities, Unlimited completed ex-situ chemical treatment on 700 cubic yards of impacted soil (100 cubic yards of previously stockpiled material from the initial excavation and 600 cubic yards of material removed on July 19, 2016) with a concentrated hydrogen peroxide mixture based on hydrocarbon concentrations, native oxidant demand, and associated chemical oxidation stoichiometry.

LTE personnel collected one confirmation soil sample per 100 cubic yards of treated material and seven samples (GS01 through GS07) were collected in total. Samples were collected in laboratory provided sample containers which were placed on ice and delivered under chain of custody protocol to eAnalytics Laboratory (eAnalytics) in Loveland, Colorado, for analysis of BTEX and TPH as gasoline range organics (GRO) using United States Environmental Protection Agency (EPA) Method 8260 and TPH as diesel range organics (DRO) using EPA Method 8015. The confirmation soil samples were compared to the COGCC Table 910-1 BTEX and TPH allowable limits to ensure their concentrations are below applicable standards. Treated soil analytical results indicated that all composite soil samples of the treated soils were in compliance with the COGCC Table 910-1 allowable limits for BTEX and TPH. Treated soil analytical results are summarized in Table 3. The laboratory treated soil analytical report is provided as an attachment.

Based on the soil analytical results, the treated soils were used to backfill the excavation on July 20, 2016. Prior to backfilling, an injection gallery was installed in the source removal excavation. Additionally, 300 pounds of BOS 200[®] was mixed with saturated soils at the base of the excavation. BOS 200[®] is a carbon based groundwater amendment used to trap and treat hydrocarbon impacts in groundwater. It is comprised of activated carbon combined with petroleum-degrading microorganisms and electron acceptors such as nitrogen and phosphorous. The infiltration gallery layout is presented on Figure 3 and a construction diagram of the infiltration gallery is provided as an attachment.



Additional Monitoring Well Installation

Monitoring wells MW05, MW06, MW07, MW08, MW09, and MW11 were destroyed during excavation activities. On July 28, 2016, after completion of the source removal excavation, onsite ex-situ soil remediation, infiltration gallery installation, and backfilling, Elite Drilling Services, LLC. (Elite) of Denver, Colorado, under the supervision of LTE, reinstalled six replacement monitoring wells (MW05R, MW06R, MW07R, MW08R, MW09R, and MW11R) at the approximate locations of the destroyed wells to allow for continued groundwater monitoring. Additionally, a groundwater monitoring well (MW15) was installed within the limits of the source area in the approximate location of the initial excavation groundwater sample (GW01) sample point.

The replacement monitoring wells were installed to a total depth of 12 feet bgs, except monitoring well MW09R which was installed with a total depth of 11 feet bgs. The monitoring wells were constructed of 1-inch diameter PVC, schedule 40, flush-threaded well materials with 10 feet of 0.01-inch factory milled slotted screen. The annulus of the soil boring was backfilled with 10/20 filter sand from the bottom of the soil boring to approximately 1 foot above the top of the screened interval. Bentonite chips were placed from the top of the sand to ground surface. The locations of the source monitoring well (MW15) and the replacement monitoring wells are shown on Figure 2. The soil boring/monitoring well diagrams are included as Attachment 2.

Source Well Groundwater Sampling and Results

On August 4, 2016, LTE personnel collected one groundwater sample from source monitoring well MW15. Prior to purging, depth to groundwater and total depth was measured using an electronic water level indicator to calculate a well-specific target purge volume. A peristaltic pump was used to collect the groundwater sample into laboratory-prepared 40-millimeter vials. Following collection, the sample was placed on ice, then submitted, under chain of custody protocol, to eAnalytics for analysis of BTEX.

Groundwater analytical results indicated that MW15 is in compliance with applicable COGCC Table 910-1 standards. The groundwater analytical result is summarized in Table 2 and presented on Figure 4. The groundwater laboratory analytical report is included as an attachment.

Closing and Request for No Further Action

The laboratory analysis of the confirmation soil samples collected from the source removal excavation and surrounding boreholes, composite samples collected from the treated soils, and groundwater samples collected from the groundwater monitoring wells, indicate that the remediation activities conducted at the Site have successfully remediated both soil and groundwater hydrocarbon impacts.

- Impacted soils were excavated and hauled to a licensed disposal facility or treated via ex-situ chemical remediation onsite;



- Confirmation soil samples from the excavation and surrounding soil borings indicated that source removal was achieved;
- Groundwater impacts were observed in the base of the initial excavation at a concentration of 34.9 µg/L. BOS 200® was added to the base of excavation prior to backfilling to treat the low concentrations of benzene observed in the groundwater;
- Analytical results from a groundwater sample collected from the source well (MW15) following backfilling of the excavation were below applicable COGCC Table 910-1 standards for BTEX; and
- BTEX was non-detected above the laboratory reporting limits in groundwater monitoring wells outside the limits of the excavation except for total xylenes in MW08, which was detected at a concentration below the applicable COGCC Table 910-1 standard.

As a result, Synergy and LTE respectfully requests that the COGCC grant a decision of No Further Action for remediation at the Peterson 1-12 Tank Battery.

Please feel free to contact the undersigned at 303-433-9788 if you have any questions or comments regarding this report.

Sincerely,

LT ENVIRONMENTAL, INC.

Jess Alexander
Project Manager

Steve Kahn, P.E.
Vice President

Attachments

Figure 1	Site Location Map
Figure 2	Site Map
Figure 3	Soil Analytical Results
Figure 4	Groundwater Analytical Results
Figure 5	Infiltration Gallery Design
Table 1	Soil Analytical Results
Table 2	Groundwater Analytical Results
Table 3	Treated Soil Analytical Results
Attachment 1	Boring Log/Well Completion Diagrams
Attachment 2	Laboratory Analytical Reports

FIGURES

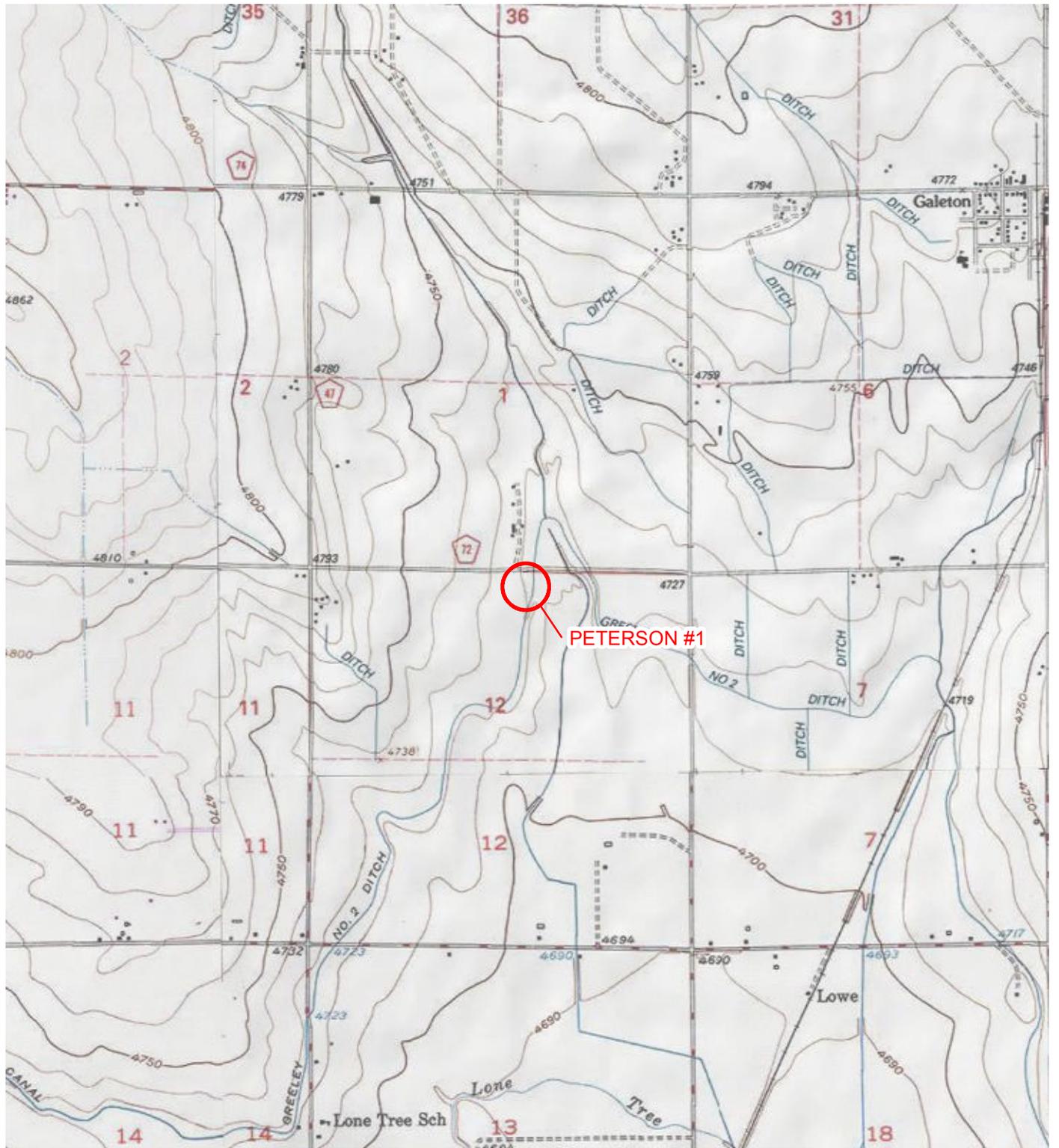


IMAGE COURTESY OF ESRI/USGS

LEGEND

 SITE LOCATION

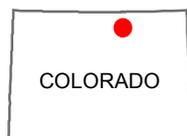
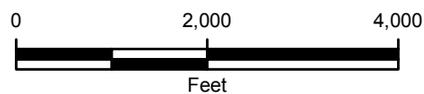


FIGURE 1
SITE LOCATION MAP
PETERSON #1
 NWNE SEC 12-T6N-R65W
 WELD COUNTY, COLORADO
SYNERGY RESOURCES CORPORATION



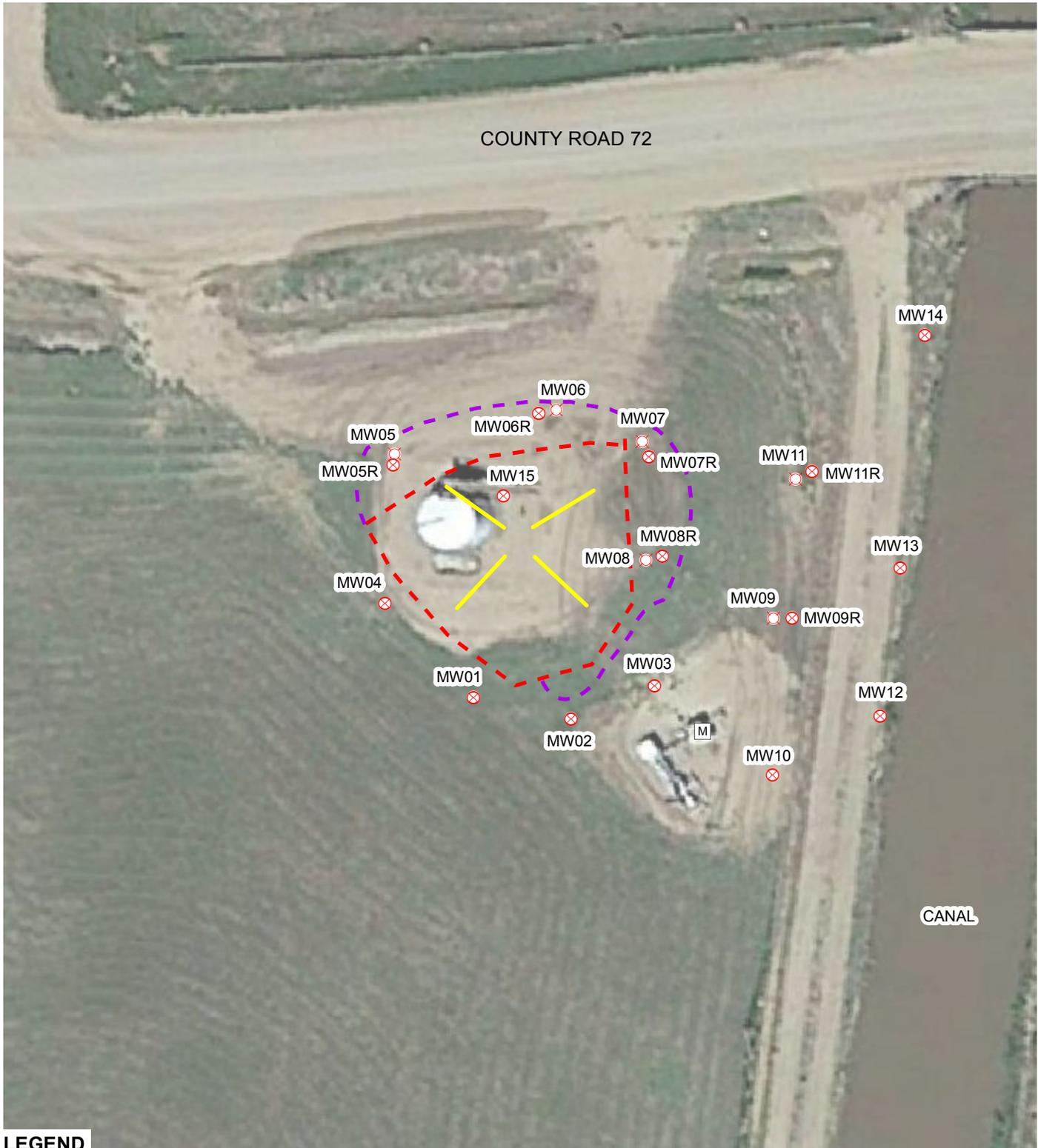


IMAGE COURTESY OF GOOGLE EARTH 2014

LEGEND

- ⊗ MONITORING WELL
- ⊗ DESTROYED MONITORING WELL
- M METER HOUSE
- INFILTRATION GALLERY
- INITIAL EXCAVATION EXTENT
- 7/19/2016 EXCAVATION EXTENT

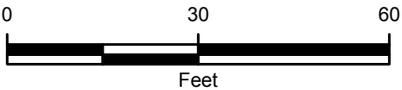
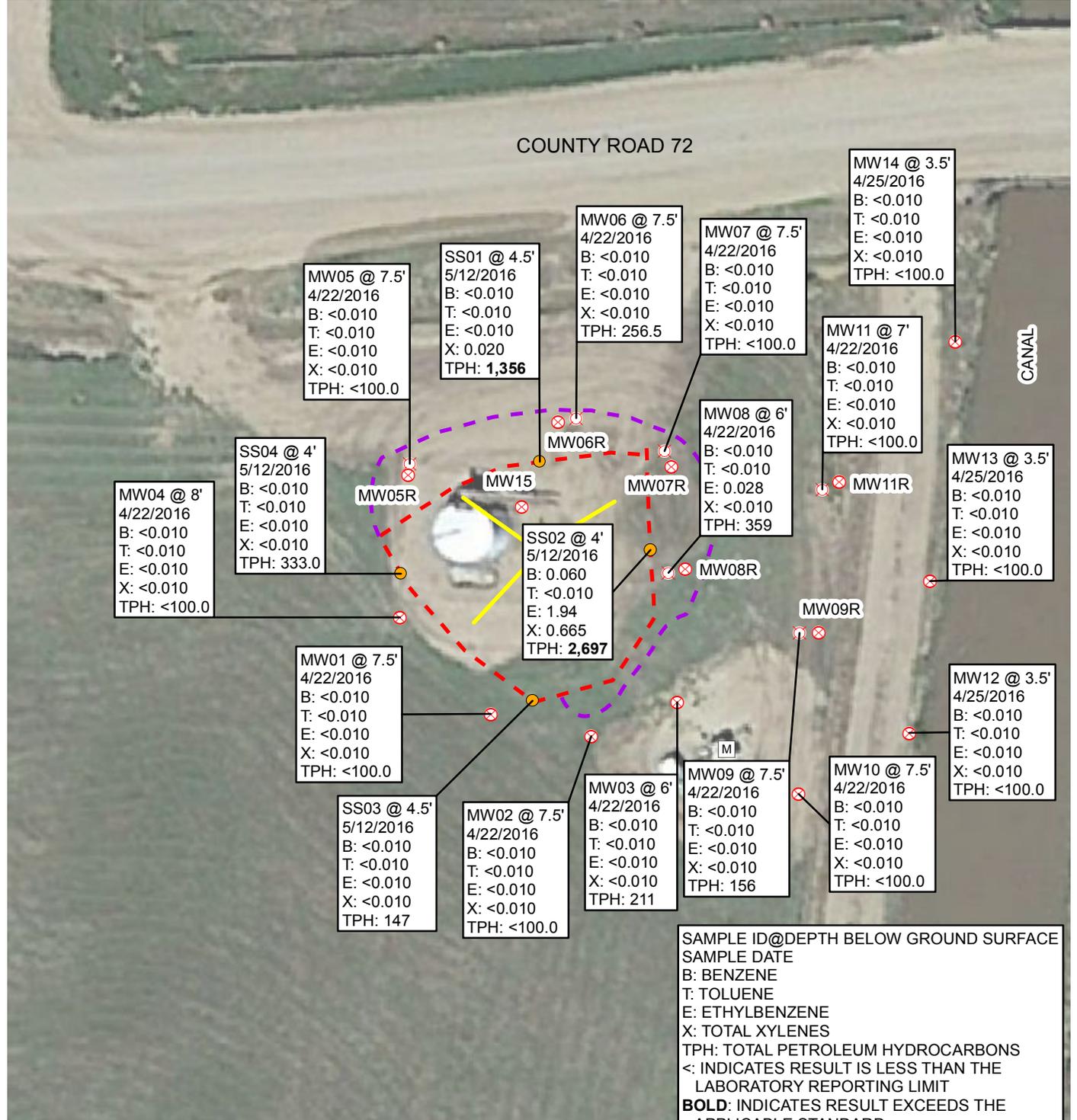


FIGURE 2
SITE MAP
 PETERSON 1-12 TANK BATTERY
 NWNE SEC 12-T6N-R65W
 WELD COUNTY, COLORADO
SYNERGY RESOURCES CORPORATION



COUNTY ROAD 72



LEGEND

- ⊗ MONITORING WELL
- ⊗ DESTROYED MONITORING WELL
- SOIL SAMPLE
- M METER HOUSE
- INFILTRATION GALLERY
- - - EXCAVATION EXTENT
- - - 7/19/2016 EXCAVATION EXTENT

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
BOLD>: INDICATES RESULT EXCEEDS THE APPLICABLE STANDARD
 RESULTS ARE REPORTED IN MILLIGRAMS PER KILOGRAM (mg/kg)

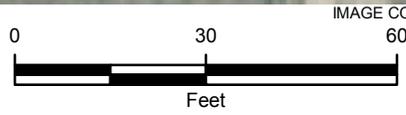
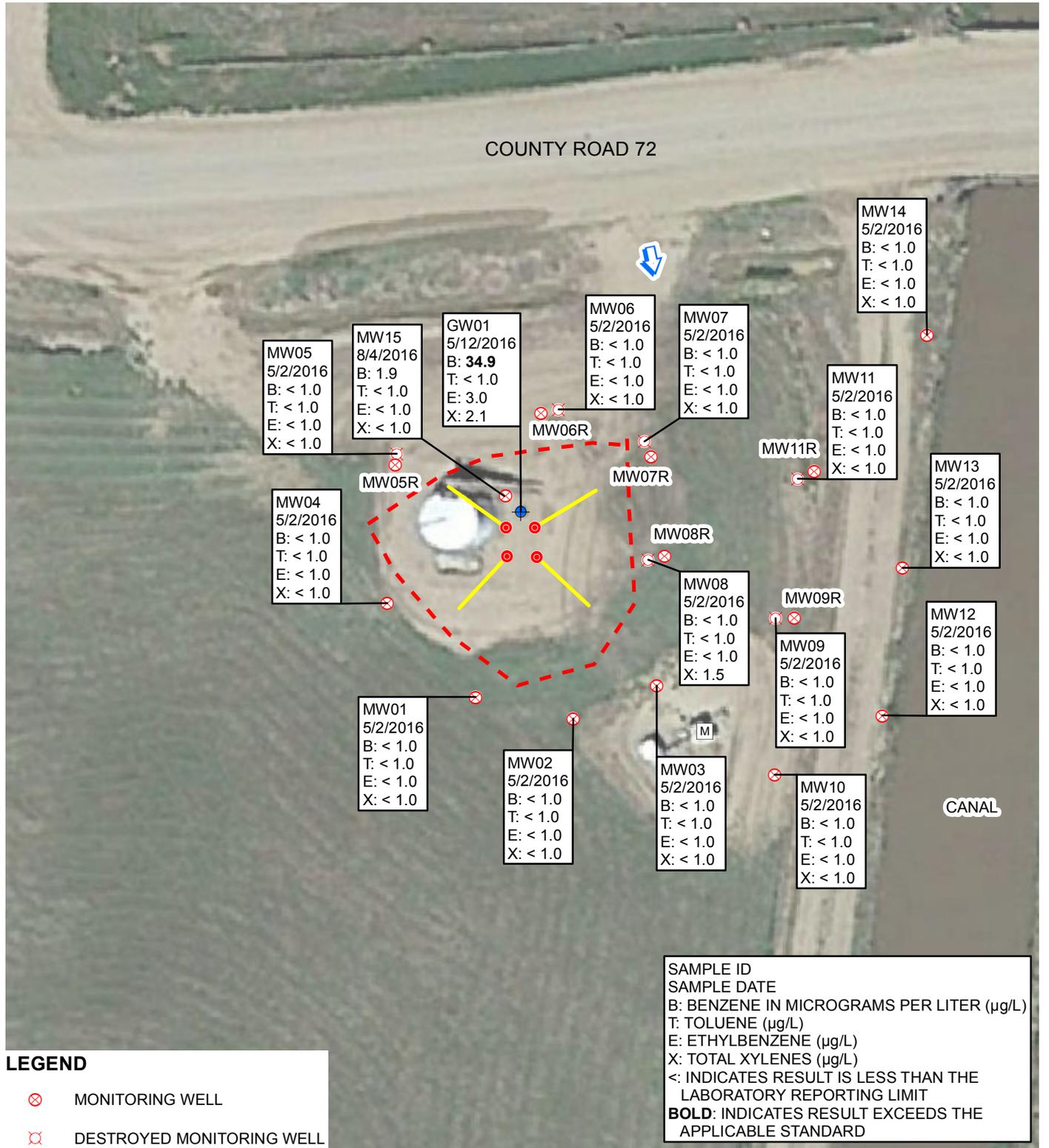


FIGURE 3
 SOIL ANALYTICAL RESULTS AND
 JULY 19, 2016 EXCAVATION LIMITS
 PETERSON 1-12 TANK BATTERY
 NWN SEC 12-T6N-R65W
 WELD COUNTY, COLORADO
SYNERGY RESOURCES CORPORATION



COUNTY ROAD 72



LEGEND

- ⊗ MONITORING WELL
- ⊗ DESTROYED MONITORING WELL
- INFILTRATION GALLERY STICKUP
- ⊕ GROUNDWATER SAMPLE
- M METER HOUSE
- ↑ CALCULATED GROUNDWATER FLOW DIRECTION
- INFILTRATION GALLERY
- - - EXCAVATION EXTENT

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

IMAGE COURTESY OF GOOGLE EARTH 2014

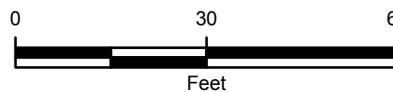
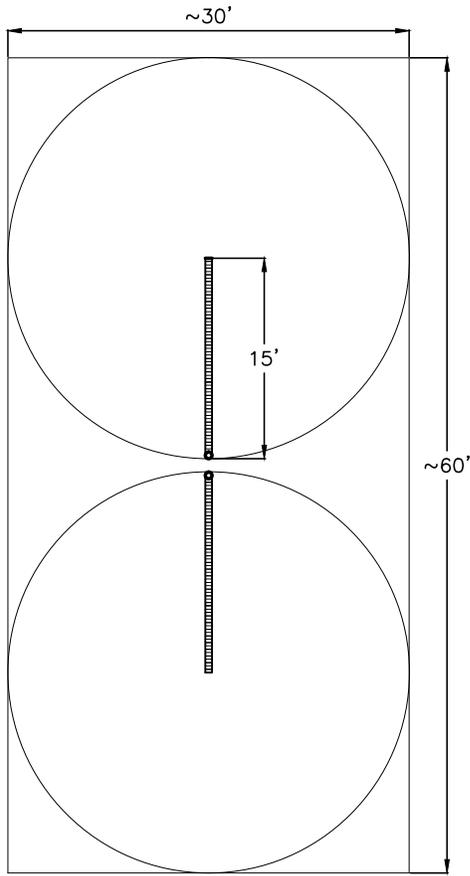


FIGURE 4
 GROUNDWATER ANALYTICAL RESULTS
 PETERSON 1-12 TANK BATTERY
 NWNE SEC 12-T6N-R65W
 WELD COUNTY, COLORADO

SYNERGY RESOURCES CORPORATION



PLAN VIEW:
NOT TO SCALE



SECTION VIEW:
NOT TO SCALE

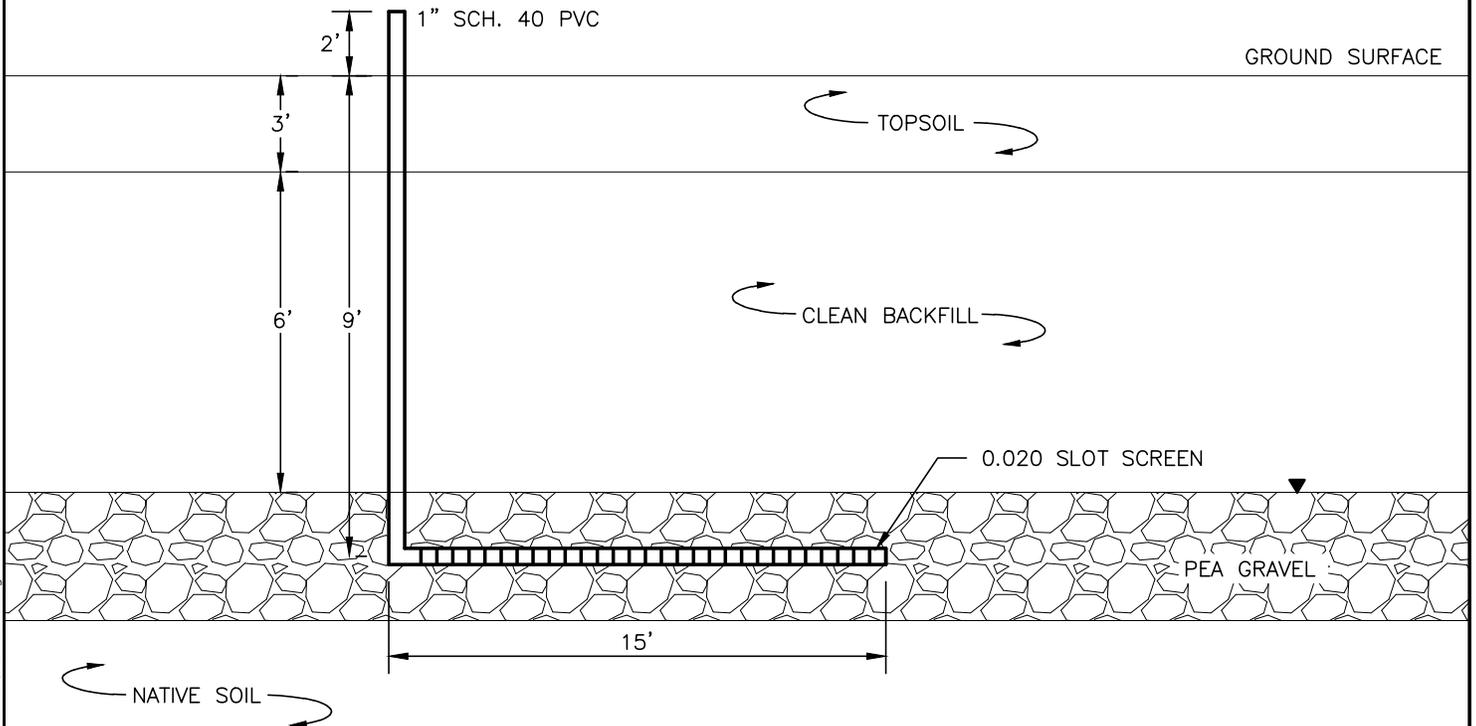


FIGURE 5
INFILTRATION GALLERY DESIGN
PETERSON #1

SYNERGY RESOURCES CORPORATION



TABLES

TABLE 1
SOIL ANALYTICAL RESULTS
PETERSON 1-12 TANK BATTERY
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)
MW01 @ 7.5'	4/22/2016	<0.010	<0.010	<0.010	<0.010	<50.0	<50.0	<100.0
MW02 @ 7.5'	4/22/2016	<0.010	<0.010	<0.010	<0.010	<50.0	<50.0	<100.0
MW03 @ 6'	4/22/2016	<0.010	<0.010	<0.010	<0.010	<50.0	211	211
MW04 @ 8'	4/22/2016	<0.010	<0.010	<0.010	<0.010	<50.0	<50.0	<100.0
MW05 @ 7.5'	4/22/2016	<0.010	<0.010	<0.010	<0.010	<50.0	<50.0	<100.0
MW06 @ 7.5'	4/22/2016	<0.010	<0.010	<0.010	<0.010	58.5	198	256.5
MW07 @ 7.5'	4/22/2016	<0.010	<0.010	<0.010	<0.010	<50.0	<50.0	<100.0
MW08 @ 6'	4/22/2016	<0.010	<0.010	0.028	<0.010	153	206	359
MW09 @ 7.5'	4/22/2016	<0.010	<0.010	<0.010	<0.010	<50.0	156	156
MW10 @ 7.5'	4/22/2016	<0.010	<0.010	<0.010	<0.010	<50.0	<50.0	<100.0
MW11 @ 7'	4/22/2016	<0.010	<0.010	<0.010	<0.010	<50.0	<50.0	<100.0
MW12 @ 3.5'	4/25/2016	<0.010	<0.010	<0.010	<0.010	<50.0	<50.0	<100.0
MW13 @ 3.5'	4/25/2016	<0.010	<0.010	<0.010	<0.010	<50.0	<50.0	<100.0
MW14 @ 3.5'	4/25/2016	<0.010	<0.010	<0.010	<0.010	<50.0	<50.0	<100.0
SS01 @ 4.5'	5/12/2016	<0.010	<0.010	<0.010	0.020	707	649	1,356
SS02 @ 4'	5/12/2016	0.060	<0.010	1.94	0.665	424	2,273	2,697
SS03 @ 4.5'	5/12/2016	<0.010	<0.010	<0.010	<0.010	<50.0	147	147
SS04 @ 4'	5/12/2016	<0.010	<0.010	<0.010	<0.010	62.0	271	333.0
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

GRO - gasoline range organics analyzed by EPA Method 8260B

mg/kg - milligrams per kilogram

TPH - total petroleum hydrocarbons

-- - indicates a standard does not exist

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

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

BOLD indicates result exceeds the applicable standard

TABLE 2
GROUNDWATER ANALYTICAL RESULTS
PETERSON 1-12 TANK BATTERY
WELD COUNTY, COLORADO
SYNERGY RESOURCES CORPORATION

Monitoring Well	Date	Depth to Water (feet btoc)	Groundwater Elevation (feet)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)
MW01	5/2/2016	7.93	90.45	< 1.0	< 1.0	< 1.0	< 1.0
MW02	5/2/2016	7.86	90.39	< 1.0	< 1.0	< 1.0	< 1.0
MW03	5/2/2016	7.59	90.41	< 1.0	< 1.0	< 1.0	< 1.0
MW04	5/2/2016	8.19	89.62	< 1.0	< 1.0	< 1.0	< 1.0
MW05	5/2/2016	8.07	90.51	< 1.0	< 1.0	< 1.0	< 1.0
MW06	5/2/2016	7.71	90.85	< 1.0	< 1.0	< 1.0	< 1.0
MW07	5/2/2016	7.06	90.73	< 1.0	< 1.0	< 1.0	< 1.0
MW08	5/2/2016	7.50	90.54	< 1.0	< 1.0	< 1.0	1.5
MW09	5/2/2016	7.24	90.47	< 1.0	< 1.0	< 1.0	< 1.0
MW10	5/2/2016	7.30	90.37	< 1.0	< 1.0	< 1.0	< 1.0
MW11	5/2/2016	7.92	90.58	< 1.0	< 1.0	< 1.0	< 1.0
MW12	5/2/2016	7.23	90.44	< 1.0	< 1.0	< 1.0	< 1.0
MW13	5/2/2016	6.90	90.43	< 1.0	< 1.0	< 1.0	< 1.0
MW14	5/2/2016	7.43	90.57	< 1.0	< 1.0	< 1.0	< 1.0
MW15	8/4/2016	7.92	90.37	1.9	< 1.0	< 1.0	< 1.0
GW01	5/12/2016	NA	NA	34.9	< 1.0	3.0	2.1
COGCC Table 910-1 Standards				5.0	560	700	1,400

NOTES:

btoc - below top of casing

NA - not applicable

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 8260

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

**TABLE 3
TREATED SOIL ANALYTICAL RESULTS
PETERSON 1-12 TANK BATTERY
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)
GS01	7/19/2016	<0.010	<0.010	0.023	0.023	141	<50.0	141
GS02	7/19/2016	<0.010	<0.010	0.016	0.023	168	55.9	223.9
GS03	7/19/2016	0.035	<0.010	0.105	0.011	95.6	126	221.6
GS04	7/19/2016	<0.010	<0.010	0.072	0.024	294	113	407
GS05	7/19/2016	0.015	<0.010	0.075	0.018	143	77.9	220.9
GS06	7/19/2016	0.026	<0.010	0.073	<0.010	52.1	85.1	137.2
GS07	7/19/2016	<0.010	<0.010	0.024	<0.010	54.2	74.6	128.8
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

GRO - gasoline range organics analyzed by EPA Method 8260B

mg/kg - milligrams per kilogram

TPH - total petroleum hydrocarbons

-- - indicates a standard does not exist

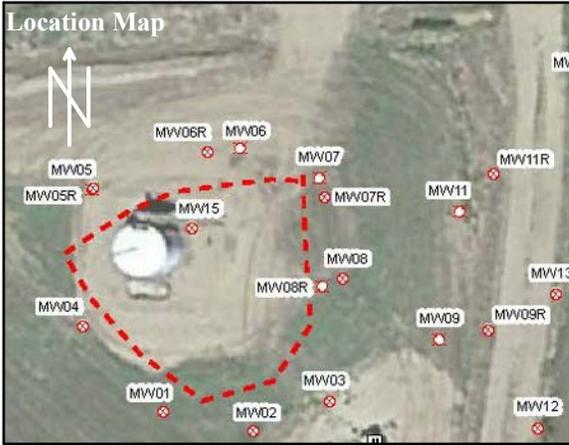
< - indicates result is less than the stated laboratory reporting limit

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

BOLD indicates result exceeds the applicable standard

ATTACHMENT 1
BORING LOG/WELL COMPLETION DIAGRAMS





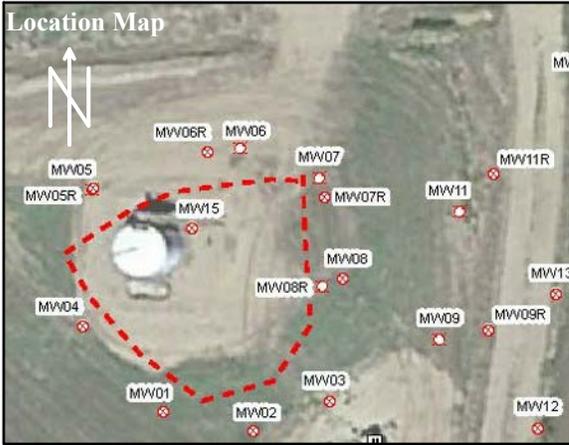
Compliance • Engineering • Remediation
LT Environmental, Inc.
 4600 W. 60th Avenue
 Arvada, Colorado 80003

BORING LOG/MONITORING WELL COMPLETION DIAGRAM

HOLE DIAMETER: 2.25"
WELL DIAMETER: 1"
CASING TYPE: PVC
SCREEN TYPE: PVC

PROJECT NAME: Peterson 1-12 Tank Battery
PROJECT NO: 041716019 **LOGGED BY:** David Stainback
BORING/WELL ID: MW01 **SAMPLE METHOD:** Continuous
COMPLETION DATE: 4/22/2016 **DRILL METHOD:** Direct Push
TD (ft bgs): 12' **DRILLED BY:** Elite Drilling Services
DTW (ft bgs): 7.5' **DETECTOR:** MiniRae3000 PID
SCREEN SLOT: 0.010 **FILTER PACK:** Silica Sand
CASING LENGTH: 2' **ANNULUS SEAL:** Bentonite chips
SCREEN LENGTH: 10' **SURFACE SEAL:** NA

PID (ppm)	Staining	Moisture Content	Sample ID	Recovery (ft/ft)	Depth (ft)	USCS	USCS Graphic	Lithology Description	Well Construction
0.0		Moist			0	ML		ML: SILT - 0'-4' - brown, non-cohesive, non-plastic fines, trace sand, moist, no stain, no odor	
0.0		Wet Dry			3/4				
0.0		Wet	MW01 @ 7.5'		5	SM		SM: SILTY SAND - 4'-12' - brown to light gray, fine-grained, wet at 7.5' bgs, poorly graded, no stain, no odor	
0.0					2.5/4				
0.0					3.5/4				
0.0					10				
Stickup height: 3'									



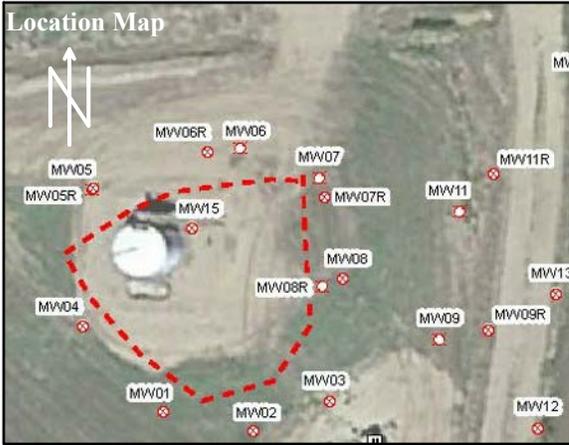
Compliance • Engineering • Remediation
LT Environmental, Inc.
 4600 W. 60th Avenue
 Arvada, Colorado 80003

BORING LOG/MONITORING WELL COMPLETION DIAGRAM

PROJECT NAME: Peterson # 1-12 Tank Battery
PROJECT NO: 041716019 **LOGGED BY:** David Stainback
BORING/WELL ID: MW02 **SAMPLE METHOD:** Continuous
COMPLETION DATE: 4/22/2016 **DRILL METHOD:** Direct Push
TD (ft bgs): 12' **DRILLED BY:** Elite Drilling Services
DTW (ft bgs): 7.5' **DETECTOR:** MiniRae3000 PID
SCREEN SLOT: 0.010 **FILTER PACK:** Silica Sand
CASING LENGTH: 2' **ANNULUS SEAL:** Bentonite chips
SCREEN LENGTH: 10' **SURFACE SEAL:** NA

HOLE DIAMETER: 2.25"
WELL DIAMETER: 1"
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
0.0		Moist		3.5/4	0	ML		ML: SILT - 0'-2' - brown, non-cohesive, non-plastic fines, moist, no stain, no odor	
						CL		CL: CLAY - 2'-4' - brown, lean, medium plasticity, moist, no stain, no odor	
4.9				3.5/4	5	SM		SM: SILTY SAND - 4'-8' - light brown, fine-grained, poorly graded, moist, wet at 7.5' bgs, 6" coarse-grained sand lens with hydrocarbon staining observed from 7.5' to 8' bgs	
0.20	Wet Moist		MW02 @ 7.5'	3.5/4	10	SW		SW: SAND - 8'-12' - light brown, fine to coarse-grained, silty, no stain, no odor	
0.0	Wet							Stickup height: 3'	



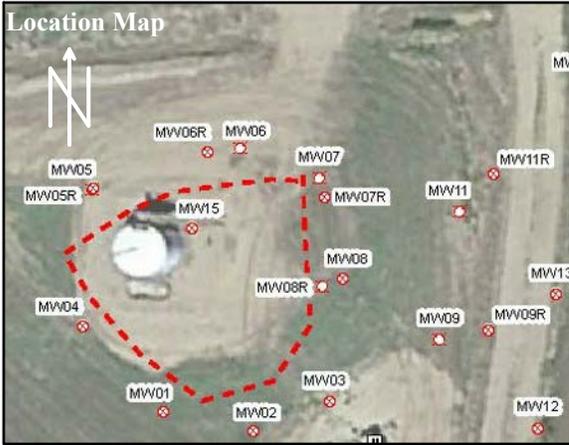
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BORING LOG/MONITORING WELL COMPLETION DIAGRAM

HOLE DIAMETER: 2.25"
WELL DIAMETER: 1"
CASING TYPE: PVC
SCREEN TYPE: PVC

PROJECT NAME: Peterson 1-12 Tank Battery
PROJECT NO: 041716019 **LOGGED BY:** David Stainback
BORING/WELL ID: MW03 **SAMPLE METHOD:** Continuous
COMPLETION DATE: 4/22/2016 **DRILL METHOD:** Direct Push
TD (ft bgs): 12' **DRILLED BY:** Elite Drilling Services
DTW (ft bgs): 6' **DETECTOR:** MiniRae3000 PID
SCREEN SLOT: 0.010 **FILTER PACK:** Silica Sand
CASING LENGTH: 2' **ANNULUS SEAL:** Bentonite chips
SCREEN LENGTH: 10' **SURFACE SEAL:** NA

PID (ppm)	Staining	Moisture Content	Sample ID	Recovery (ft/ft)	Depth (ft)	USCS	USCS Graphic	Lithology Description	Well Construction
0.0		Moist			0	ML		ML: SILT - 0'-4' - stiff brown, low-plasticity, moist, no stain, no odor	
71.9	Wet		MW03 @6'	4/4	5	SM		SM: SILTY SAND - 4'-6' - brown to gray, poorly graded, fine-grained, moist, no stain, no odor	
4.2	Moist				7.5	ML		ML: SANDY SILT - 6'-7.5' - light brown, non-cohesive, moist, hydrocarbon staining observed from 6' to 7' bgs	
34.25	Wet			2.5/4	10	SW		SW: SAND - 7.5'-12' - brown to light gray, well-graded, silty, fine to coarse-grained, moist 7.5' to 10' bgs, wet 10' to 11.5' bgs	
Stickup height: 2.75'									



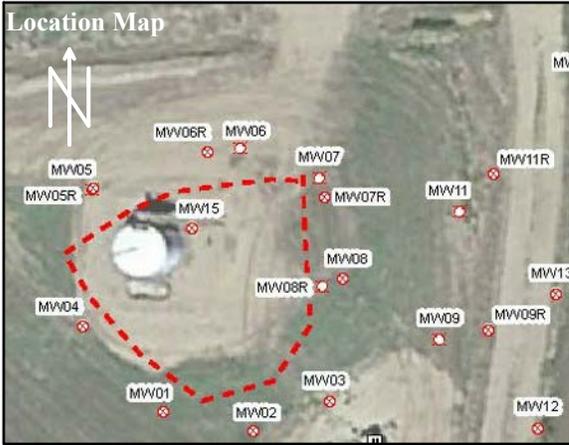
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BORING LOG/MONITORING WELL COMPLETION DIAGRAM

HOLE DIAMETER: 2.25"
WELL DIAMETER: 1"
CASING TYPE: PVC
SCREEN TYPE: PVC

PROJECT NAME: Peterson1-12 Tank Battery
PROJECT NO: 041716019 **LOGGED BY:** David Stainback
BORING/WELL ID: MW04 **SAMPLE METHOD:** Continuous
COMPLETION DATE: 4/22/2016 **DRILL METHOD:** Direct Push
TD (ft bgs): 12' **DRILLED BY:** Elite Drilling Services
DTW (ft bgs): 8.5' **DETECTOR:** MiniRae3000 PID
SCREEN SLOT: 0.010 **FILTER PACK:** Silica Sand
CASING LENGTH: 2' **ANNULUS SEAL:** Bentonite chips
SCREEN LENGTH: 10' **SURFACE SEAL:** NA

PID (ppm)	Staining	Moisture Content	Sample ID	Recovery (ft/ft)	Depth (ft)	USCS	USCS Graphic	Lithology Description	Well Construction
0.0		Moist		3.5/4	0	ML		ML: SILT - 0'-4' - stiff light brown, low plasticity, moist, no stain, no odor	
0.0				2.5/4	5	CL		CL: SANDY CLAY - 4'-8' - light brown, lean, fine sands, moist, medium plasticity, no stain, no odor	
0.0	Wet		MW04 @8'	4/4	10	SW		SM: SILTY SAND - 7.5'-9.5' - light brown, well graded, fine to coarse-grained, silty, wet, no stain, no odor	
		Moist				ML		ML: SANDY SILT - 9.5'-12' - light brown to gray, non-plastic fines, orange oxidation staining, moist, no stain, no odor	
Stickup height: 2.25'									



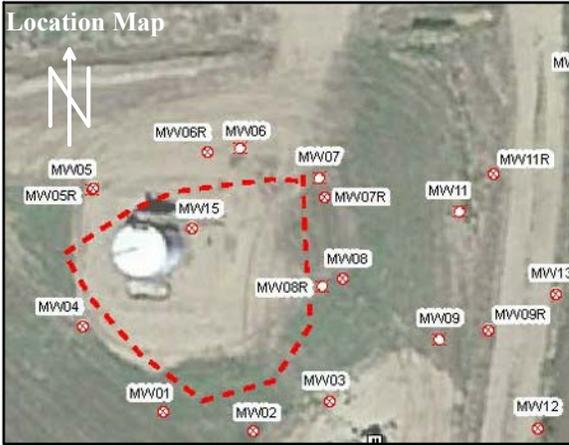
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BORING LOG/MONITORING WELL COMPLETION DIAGRAM

HOLE DIAMETER: 2.25"
WELL DIAMETER: 1"
CASING TYPE: PVC
SCREEN TYPE: PVC

PROJECT NAME: Peterson 1-12 Tank Battery
PROJECT NO: 041716019 **LOGGED BY:** David Stainback
BORING/WELL ID: MW05 **SAMPLE METHOD:** Continuous
COMPLETION DATE: 4/22/2016 **DRILL METHOD:** Direct Push
TD (ft bgs): 12' **DRILLED BY:** Elite Drilling Services
DTW (ft bgs): 7.5' **DETECTOR:** MiniRae3000 PID
SCREEN SLOT: 0.010 **FILTER PACK:** Silica Sand
CASING LENGTH: 2' **ANNULUS SEAL:** Bentonite chips
SCREEN LENGTH: 10' **SURFACE SEAL:** NA

PID (ppm)	Staining	Moisture Content	Sample ID	Recovery (ft/ft)	Depth (ft)	USCS	USCS Graphic	Lithology Description	Well Construction
0.0		Moist		4/4	0	CL		CL: SANDY CLAY - 0'-8' - brown, low to medium plasticity, moist, wet at 7.5' bgs, hydrocarbon staining and odor observed from 7.5' to 8' bgs	
1.75			MW05 @7.5	2.5/4	5	SW		SW: SAND - 8'-8.5' - light brown, fine to coarse, wet, no stain, no odor	
0.0		Wet Moist		4/4	10	ML		ML: SANDY SILT - 8.5'-12' - light brown, non-cohesive, moist, no stain, no odor	
									Stickup height: 2.25'



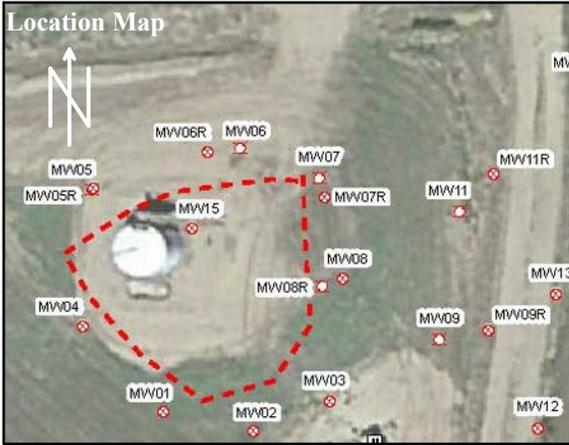
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BORING LOG/MONITORING WELL COMPLETION DIAGRAM

PROJECT NAME: Peterson 1-12 Tank Battery
PROJECT NO: 041716019 **LOGGED BY:** Jeremy Pike
BORING/WELL ID: MW05R **SAMPLE METHOD:** Continuous
COMPLETION DATE: 7/28/2016 **DRILL METHOD:** Direct Push
TD (ft bgs): 12' **DRILLED BY:** Elite Drilling Services
DTW (ft bgs): Not measured **DETECTOR:** NA
SCREEN SLOT: 0.01" **FILTER PACK:** Silica Sand
CASING LENGTH: 2' **ANNULUS SEAL:** Bentonite chips
SCREEN LENGTH: 10' **SURFACE SEAL:** NA

HOLE DIAMETER: 2.25"
WELL DIAMETER: 1"
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			Not sampled	
					5				
					10				



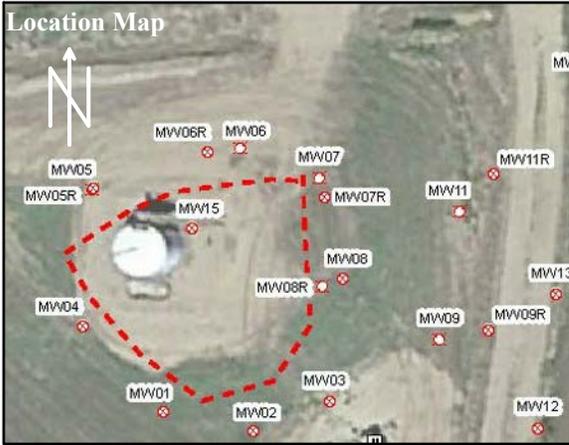
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BORING LOG/MONITORING WELL COMPLETION DIAGRAM

HOLE DIAMETER: 2.25"
WELL DIAMETER: 1"
CASING TYPE: PVC
SCREEN TYPE: PVC

PROJECT NAME: Peterson 1-12 Tank Battery
PROJECT NO: 041716019 **LOGGED BY:** David Stainback
BORING/WELL ID: MW06 **SAMPLE METHOD:** Continuous
COMPLETION DATE: 4/22/2016 **DRILL METHOD:** Direct Push
TD (ft bgs): 12' **DRILLED BY:** Elite Drilling Services
DTW (ft bgs): 7.5' **DETECTOR:** MiniRae3000 PID
SCREEN SLOT: 0.010 **FILTER PACK:** Silica Sand
CASING LENGTH: 2' **ANNULUS SEAL:** Bentonite chips
SCREEN LENGTH: 10' **SURFACE SEAL:** NA

PID (ppm)	Staining	Moisture Content	Sample ID	Recovery (ft/ft)	Depth (ft)	USCS	USCS Graphic	Lithology Description	Well Construction
0.0		Moist			0	CL		CL: SANDY CLAY - 0'-8' - brown, low to medium plasticity, moist, wet at 7.5' bgs, hydrocarbon staining and odor observed from 4.5' to 8' bgs	
17.1				3.5/4					
83.3		Wet	MW06 @ 7.5'	2.5/4	5	SW		SW: SAND - 8'-8.5' - light brown, fine to coarse-grained, wet, hydrocarbon staining and odor from 8' to 8.5' bgs	
6.2		Moist		4/4	10	ML		ML: SANDY SILT - 8.5'-12' - light brown to gray, low plasticity, moist, no stain, no odor	
Stickup height: 3.5'									



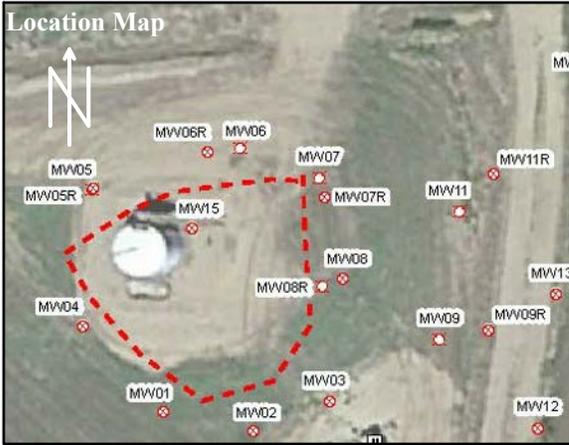
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BORING LOG/MONITORING WELL COMPLETION DIAGRAM

PROJECT NAME: Peterson 1-12 Tank Battery
PROJECT NO: 041716019 **LOGGED BY:** Jeremy Pike
BORING/WELL ID: MW06R **SAMPLE METHOD:** Continuous
COMPLETION DATE: 7/28/2016 **DRILL METHOD:** Direct Push
TD (ft bgs): 12' **DRILLED BY:** Elite Drilling Services
DTW (ft bgs): Not measured **DETECTOR:** NA
SCREEN SLOT: 0.01" **FILTER PACK:** Silica Sand
CASING LENGTH: 2' **ANNULUS SEAL:** Bentonite chips
SCREEN LENGTH: 10' **SURFACE SEAL:** NA

HOLE DIAMETER: 2.25"
WELL DIAMETER: 1"
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			Not sampled	
					5				
					10				



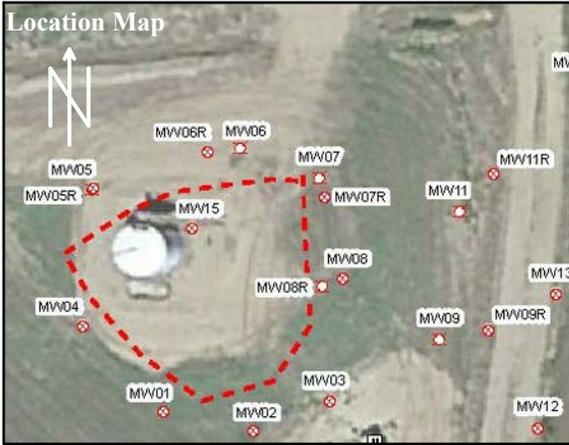
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BORING LOG/MONITORING WELL COMPLETION DIAGRAM

PROJECT NAME: Peterson 1-12 Tank Battery
PROJECT NO: 041716019 **LOGGED BY:** David Stainback
BORING/WELL ID: MW07 **SAMPLE METHOD:** Continuous
COMPLETION DATE: 4/22/2016 **DRILL METHOD:** Direct Push
TD (ft bgs): 12' **DRILLED BY:** Elite Drilling Services
DTW (ft bgs): 7.5' **DETECTOR:** MiniRae3000 PID
SCREEN SLOT: 0.010 **FILTER PACK:** Silica Sand
CASING LENGTH: 2' **ANNULUS SEAL:** Bentonite chips
SCREEN LENGTH: 10' **SURFACE SEAL:** NA

HOLE DIAMETER: 2.25"
WELL DIAMETER: 1"
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
0.0		Dry			0	CL		CL: CLAY - 0'-7.5' - brown to dark gray, medium to high plasticity, moist, hydrocarbon staining and odor observed from 5' to 7.5'	
5.2				4/4					
8.8		Wet	MW07 @ 7.5'	4/4	5	SW		SM: SILTY SAND - 7.5'-8' - light brown, fine to medium-grained, wet,, hydrocarbon staining and odor observed from 7.5' to 8' bgs	
3.6		Moist		3.5/4	10	CL		CL: CLAY - 8'-10' - brown to dark gray, medium to high plasticity, moist, hydrocarbon staining and odor from 9' to 10' bgs	
						SM		SM: SANDY SILT - 10'-12' - light brown, fine-grained, wet, no stain, no odor	
Stickup height: 2.5'									



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BORING LOG/MONITORING WELL COMPLETION DIAGRAM

PROJECT NAME: Peterson 1-12 Tank Battery
PROJECT NO: 041716019 **LOGGED BY:** Jeremy Pike
BORING/WELL ID: MW07R **SAMPLE METHOD:** Continuous
COMPLETION DATE: 7/28/2016 **DRILL METHOD:** Direct Push
TD (ft bgs): 12' **DRILLED BY:** Elite Drilling Services
DTW (ft bgs): Not measured **DETECTOR:** NA
SCREEN SLOT: 0.01" **FILTER PACK:** Silica Sand
CASING LENGTH: 2' **ANNULUS SEAL:** Bentonite chips
SCREEN LENGTH: 10' **SURFACE SEAL:** NA

HOLE DIAMETER: 2.25"
WELL DIAMETER: 1"
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			Not sampled	
					5				
					10				



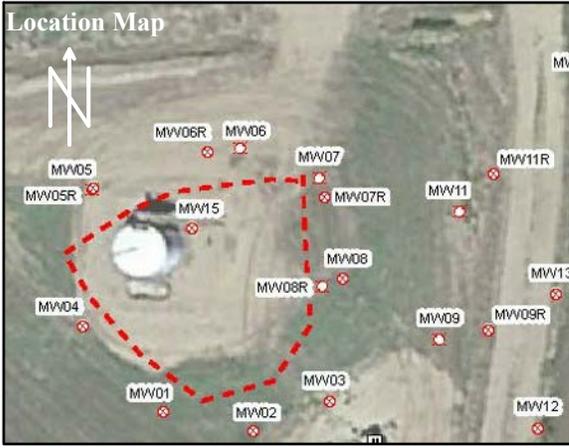
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BORING LOG/MONITORING WELL COMPLETION DIAGRAM

PROJECT NAME: Peterson 1-12 Tank Battery
PROJECT NO.: 041716019 **LOGGED BY:** David Stainback
BORING/WELL ID.: MW08 **SAMPLE MTHD:** Continuous
COMPLETION DATE: 4/22/2016 **DRILL MTHD:** Direct Push
TD (ft bgs): 12' **DRILLED BY:** Elite Drilling Services
DTW (ft bgs): 6' **DETECTOR:** MiniRae3000 PID
SCREEN SLOT: 0.010 **FILTER PACK:** Silica Sand
CASING LENGTH: 2' **ANNULUS SEAL:** Bentonite chips
SCREEN LENGTH: 10' **SURFACE SEAL:** NA

HOLE DIAMETER.: 2.25"
WELL DIAMETER: 1"
CASING TYPE: PVC
SCREEN TYPE: PVC

PID (ppm)	Staining	Moisture Content	Sample ID	Recovery	Depth (ft)	USCS	USCS Graphic	Lithology Description	Well Construction
0.0		Dry		4/4	0	CL		CL: SANDY SILT - 0'-6' - brown, medium to high plasticity, dry, moist at 4' bgs, no stain, no odor	
202.4	Wet	Moist	MW08 @ 6'	4/4	5	SM		SM: SILTY SAND - 6'-8' - light gray, fine-grained, wet at 6' bgs, hydrocarbon staining and odor from 6' to 8' bgs	
34.2				4/4	10	SW		SW: SAND - 8'-12' - light brown to gray, fine to coarse-grained, wet, grain size increases with depth, hydrocarbon staining and odor from 8' to 10' bgs	
118.7				4/4				Stickup height: 2.75	



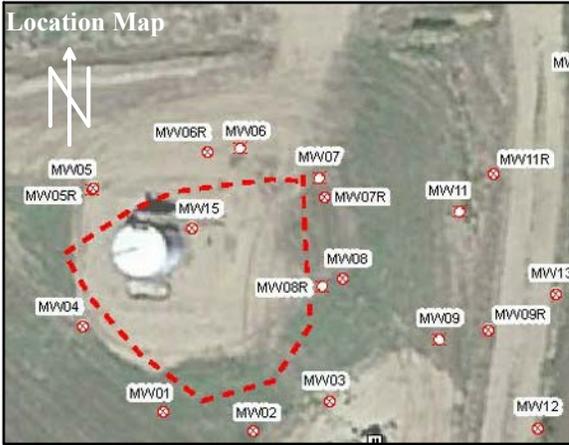
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BORING LOG/MONITORING WELL COMPLETION DIAGRAM

PROJECT NAME: Peterson 1-12 Tank Battery
PROJECT NO: 041716019 **LOGGED BY:** Jeremy Pike
BORING/WELL ID: MW08R **SAMPLE METHOD:** Continuous
COMPLETION DATE: 7/28/2016 **DRILL METHOD:** Direct Push
TD (ft bgs): 12' **DRILLED BY:** Elite Drilling Services
DTW (ft bgs): Not measured **DETECTOR:** NA
SCREEN SLOT: 0.01" **FILTER PACK:** Silica Sand
CASING LENGTH: 2' **ANNULUS SEAL:** Bentonite chips
SCREEN LENGTH: 10' **SURFACE SEAL:** NA

HOLE DIAMETER: 2.25"
WELL DIAMETER: 1"
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			Not sampled	
					5				
					10				



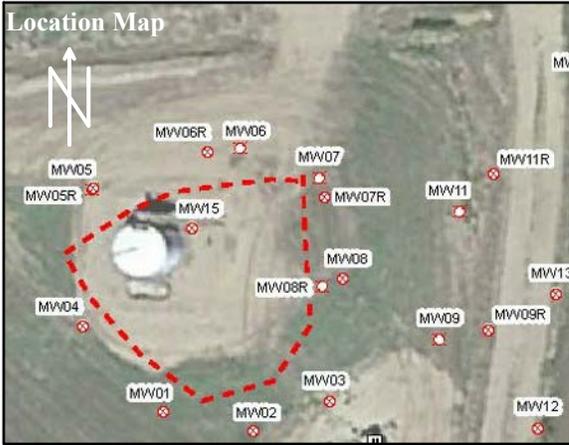
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BORING LOG/MONITORING WELL COMPLETION DIAGRAM

HOLE DIAMETER: 2.25"
WELL DIAMETER: 1"
CASING TYPE: PVC
SCREEN TYPE: PVC

PROJECT NAME: Peterson 1-12 Tank Battery
PROJECT NO: 041716019 **LOGGED BY:** David Stainback
BORING/WELL ID: MW09 **SAMPLE METHOD:** Continuous
COMPLETION DATE: 4/22/2016 **DRILL METHOD:** Direct Push
TD (ft bgs): 12' **DRILLED BY:** Elite Drilling Services
DTW (ft bgs): 7' **DETECTOR:** MiniRae3000 PID
SCREEN SLOT: 0.010 **FILTER PACK:** Silica Sand
CASING LENGTH: 2' **ANNULUS SEAL:** Bentonite chips
SCREEN LENGTH: 10' **SURFACE SEAL:** NA

PID (ppm)	Staining	Moisture Content	Sample ID	Recovery (ft/ft)	Depth (ft)	USCS	USCS Graphic	Lithology Description	Well Construction
0.0		Dry		3/4	0 - 4.4	ML		ML: SANDY SILT - 0'-4' - light to dark brown, non-plastic fines, dry, no stain, no odor	
22.4	Wet		MW09 @7'	3/4	4.4 - 5.0	CL		CL: SANDY CLAY - 4'-7' - brown to gray, medium plasticity, wet at 7' bgs, no stain, no odor	
7.2	Moist			3/4	5.0 - 10.0	SM		SM: SILTY SAND - 7'-12' - light brown to gray, fine to coarse-grained, silty, hydrocarbon staining and odor from 7 to 7.5' bgs and 8'-10' bgs	
Stickup Height: 2.5'									



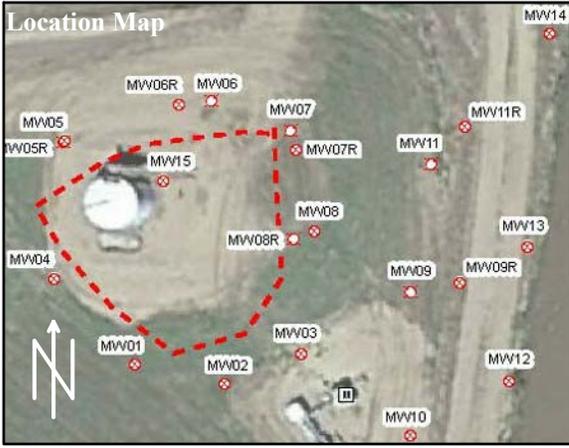
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BORING LOG/MONITORING WELL COMPLETION DIAGRAM

PROJECT NAME: Peterson 1-12 Tank Battery
PROJECT NO: 041716019 **LOGGED BY:** Jeremy Pike
BORING/WELL ID: MW09R **SAMPLE METHOD:** Continuous
COMPLETION DATE: 7/28/2016 **DRILL METHOD:** Direct Push
TD (ft bgs): 11' **DRILLED BY:** Elite Drilling Services
DTW (ft bgs): Not measured **DETECTOR:** NA
SCREEN SLOT: 0.01" **FILTER PACK:** Silica Sand
CASING LENGTH: 2' **ANNULUS SEAL:** Bentonite chips
SCREEN LENGTH: 10' **SURFACE SEAL:** NA

HOLE DIAMETER: 2.25"
WELL DIAMETER: 1"
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			Not sampled	
					5				
					10				



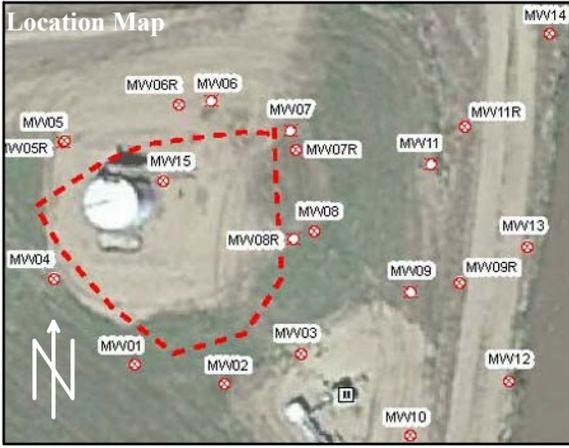
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BORING LOG/MONITORING WELL COMPLETION DIAGRAM

PROJECT NAME: Peterson 1-12 Tank Battery
PROJECT NO: 041716019 **LOGGED BY:** David Stainback
BORING/WELL ID: MW10 **SAMPLE METHOD:** Continuous
COMPLETION DATE: 4/22/2016 **DRILL METHOD:** Direct Push
TD (ft bgs): 12' **DRILLED BY:** Elite Drilling Services
DTW (ft bgs): 7' **DETECTOR:** MiniRae3000 PID
SCREEN SLOT: 0.010 **FILTER PACK:** Silica Sand
CASING LENGTH: 2' **ANNULUS SEAL:** Bentonite chips
SCREEN LENGTH: 10' **SURFACE SEAL:** NA

HOLE DIAMETER: 2.25"
WELL DIAMETER: 1"
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
0.0		Moist		4/4	0	CL		CL: CLAY - 0'-8' - dark brown, medium to high plasticity, moist, wet at 7.5' bgs, 5" fine-grained sand lens at 7.5' bgs, hydrocarbon staining and odor from 7.5' to 8' bgs	
26.3	Wet	Moist	MW10 @7.5'	2/4	5	ML		ML: SANDY SILT - 8'-12' - brown, non-plastic fines, 5" medium-grained sand lens with hydrocarbon staining and odor from 8' to 9.5' bgs, clean 5" medium-grained sand lens at 9' bgs and 5" coarse-grained sand lens from 10.5' to 11' bgs	
3.8		Wet		3/4	10			Stickup height: 2.75	



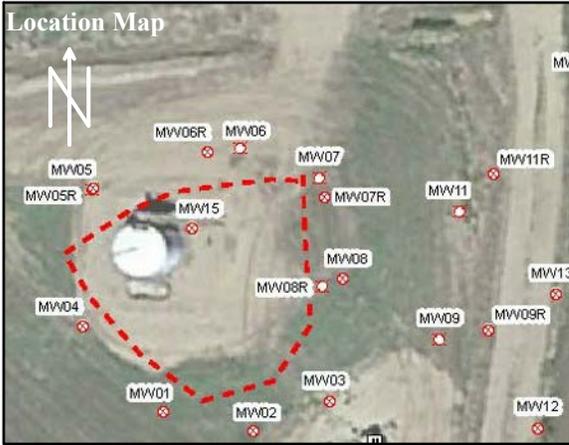
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BORING LOG/MONITORING WELL COMPLETION DIAGRAM

PROJECT NAME: Peterson 1-12 Tank Battery
PROJECT NO: 041716019 **LOGGED BY:** David Stainback
BORING/WELL ID: MW11 **SAMPLE METHOD:** Continuous
COMPLETION DATE: 4/22/2016 **DRILL METHOD:** Direct Push
TD (ft bgs): 12' **DRILLED BY:** Elite Drilling Services
DTW (ft bgs): 8' **DETECTOR:** MiniRae3000 PID
SCREEN SLOT: 0.010 **FILTER PACK:** Silica Sand
CASING LENGTH: 2' **ANNULUS SEAL:** Bentonite chips
SCREEN LENGTH: 10' **SURFACE SEAL:** NA

HOLE DIAMETER: 2.25"
WELL DIAMETER: 1"
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
0.0		Dry		3/4	0	ML		ML: SANDY SILT - 0'-7.5' - brown, non-plastic fines, wet from 6.5' to 7.5' bgs, 6" fine-grained sand lens from 7.5' to 8' bgs, no stain, no odor	
0.0		Moist		3/4	5				
0.0		Wet	MW11 @ 7'						
0.0		Moist							
0.0		Wet				SW		SW: SILTY SAND - 8'-12' - light brown, fine to coarse-grained, wet from 8' to 10' bgs, no stain, no odor	
0.0		Moist		2.5/4	10				
Stickup height: 3'									



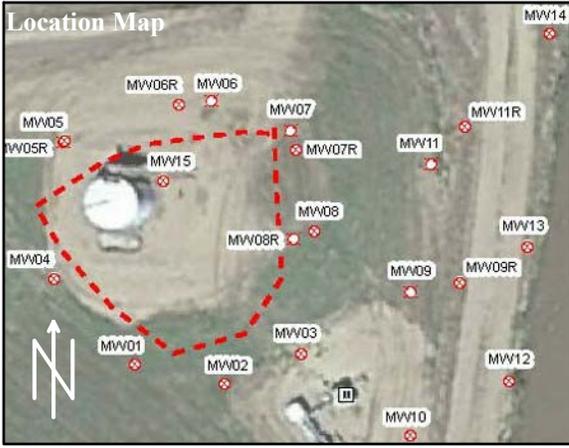
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BORING LOG/MONITORING WELL COMPLETION DIAGRAM

PROJECT NAME: Peterson 1-12 Tank Battery
PROJECT NO: 041716019 **LOGGED BY:** Jeremy Pike
BORING/WELL ID: MW11R **SAMPLE METHOD:** Continuous
COMPLETION DATE: 7/28/2016 **DRILL METHOD:** Direct Push
TD (ft bgs): 12' **DRILLED BY:** Elite Drilling Services
DTW (ft bgs): Not measured **DETECTOR:** NA
SCREEN SLOT: 0.01" **FILTER PACK:** Silica Sand
CASING LENGTH: 2' **ANNULUS SEAL:** Bentonite chips
SCREEN LENGTH: 10' **SURFACE SEAL:** NA

HOLE DIAMETER: 2.25"
WELL DIAMETER: 1"
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			Not sampled	
					5				
					10				



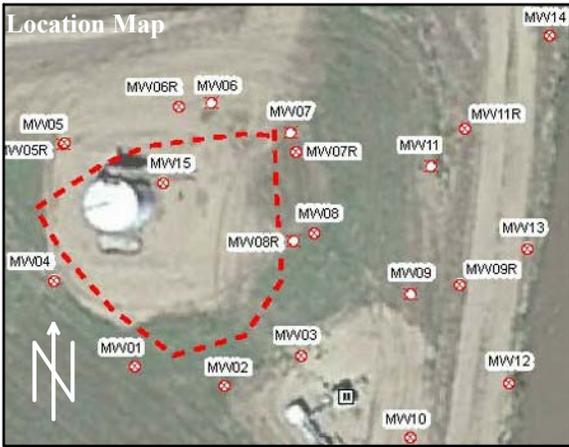
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LT Environmental, Inc.
 4600 W. 60th Avenue
 Arvada, Colorado 80003

BORING LOG/MONITORING WELL COMPLETION DIAGRAM

PROJECT NAME: Peterson 1-12 Tank Battery
PROJECT NO: 041716019 **LOGGED BY:** David Stainback
BORING/WELL ID: MW12 **SAMPLE METHOD:** Continuous
COMPLETION DATE: 4/25/2016 **DRILL METHOD:** Direct Push
TD (ft bgs): 12' **DRILLED BY:** Elite Drilling Services
DTW (ft bgs): 3.5' **DETECTOR:** MiniRae3000 PID
SCREEN SLOT: 0.010 **FILTER PACK:** Silica Sand
CASING LENGTH: 2' **ANNULUS SEAL:** Bentonite chips
SCREEN LENGTH: 10' **SURFACE SEAL:** NA

HOLE DIAMETER: 2.25"
WELL DIAMETER: 1"
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
0.0		Moist			0	CL		CL: SANDY CLAY - 0'-3.5' - brown, medium to high plasticity, moist, no stain, no odor	
0.0		Wet	MW12 @3.5'	3.5/4	3.5/4	SM		SM: SILTY SAND - 3.5'-8' - light brown, fine-grained, wet at 3.5' bgs, 5" medium to coarse-grained sand lens at 6.5' bgs, no stain, no odor	
0.0				3.5/4	5	SW		SW: SILTY SAND - 8'-10.5' - light brown to tan, fine to coarse-grained, wet, no stain, no odor	
0.0		Dry		3/4	10	Sandstone		Sandstone: SANDSTONE - 10.5'-12' - tan, fine-grained, dry, weathered, no stain, no odor	
									Stickup height: 3.5



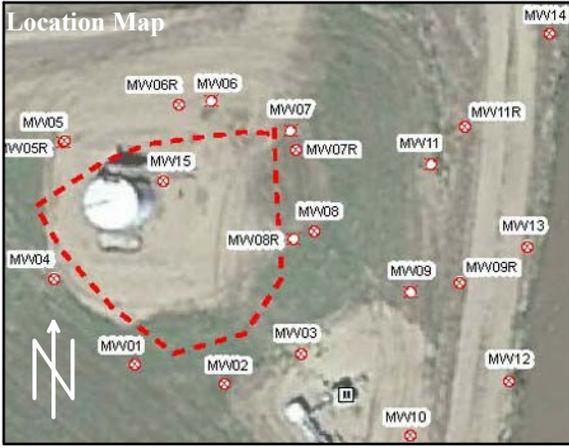
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 4600 W. 60th Avenue
 Arvada, Colorado 80003

BORING LOG/MONITORING WELL COMPLETION DIAGRAM

PROJECT NAME: Peterson 1-12 Tank Battery
PROJECT NO: 041716019 **LOGGED BY:** David Stainback
BORING/WELL ID: MW13 **SAMPLE METHOD:** Continuous
COMPLETION DATE: 4/25/2016 **DRILL METHOD:** Direct Push
TD (ft bgs): 12' **DRILLED BY:** Elite Drilling Services
DTW (ft bgs): 3.5' **DETECTOR:** MiniRae3000 PID
SCREEN SLOT: 0.010 **FILTER PACK:** Silica Sand
CASING LENGTH: 2' **ANNULUS SEAL:** Bentonite chips
SCREEN LENGTH: 10' **SURFACE SEAL:** NA

HOLE DIAMETER: 2.25"
WELL DIAMETER: 1"
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
0.1		Moist			0	CL		CL: CLAY - 0'-4' - brown, medium plasticity, wet at 3.5' bgs, no stain, no odor, 6" medium to coarse-grained sand lens at 3.5' to 4' bgs	
		Wet	MW13 @3.5'		4 1/4'	SM		SM: SILTY SAND - 4'-8' - light brown, fine to medium-grained, wet, no stain, no odor	
0.0					2 1/4'	SW		SW: SAND - 8'-10.5' - light brown to brown, fine to coarse grained, wet, 5" small gravel lens at 10' bgs, no stain, no odor	
0.0		Moist			2.5 1/4'	Sandstone		Sandstone: SANDSTONE - 10.5'-12' - tan, fine-grained, moist, weathered, no stain, no odor	
								Stickup height: 3'	



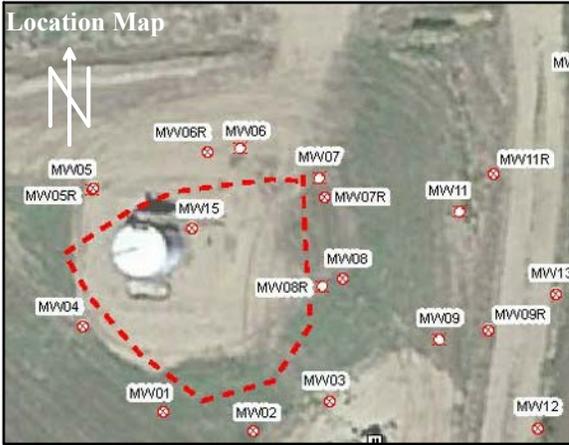
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 4600 W. 60th Avenue
 Arvada, Colorado 80003

BORING LOG/MONITORING WELL COMPLETION DIAGRAM

PROJECT NAME: Peterson 1-12 Tank Battery
PROJECT NO: 041716019 **LOGGED BY:** David Stainback
BORING/WELL ID: MW14 **SAMPLE METHOD:** Continuous
COMPLETION DATE: 4/25/2016 **DRILL METHOD:** Direct Push
TD (ft bgs): 12' **DRILLED BY:** Elite Drilling Services
DTW (ft bgs): 3.5' **DETECTOR:** MiniRae3000 PID
SCREEN SLOT: 0.010 **FILTER PACK:** Silica Sand
CASING LENGTH: 2' **ANNULUS SEAL:** Bentonite chips
SCREEN LENGTH: 10' **SURFACE SEAL:** NA

HOLE DIAMETER: 2.25"
WELL DIAMETER: 1"
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
0.0		Moist			0	CL		CL: CLAY - 0'-3.5' - brown, medium plasticity, moist, no stain, no odor	
0.0		Wet	MW14 @3.5'	2.5/4	3.5	SM		SM: SILTY SAND - 3.5'-9.5' - brown, fine to medium-grained, wet, silty no stain, no odor	
0.0		Dry		1.5/4	10	Sandstone		Sandstone: SANDSTONE - 9.5'-12' - tan, weathered, fine to medium-grained, no stain, no odor, refusal at 12' bgs	
0.0				2.5/4				Stickup height: 3'	



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BORING LOG/MONITORING WELL COMPLETION DIAGRAM

HOLE DIAMETER: 2.25"
WELL DIAMETER: 1"
CASING TYPE: PVC
SCREEN TYPE: PVC

PROJECT NAME: Peterson 1-12 Tank Battery
PROJECT NO: 041716019 **LOGGED BY:** Jeremy Pike
BORING/WELL ID: MW15 **SAMPLE METHOD:** Continuous
COMPLETION DATE: 7/28/2016 **DRILL METHOD:** Direct Push
TD (ft bgs): 12' **DRILLED BY:** Elite Drilling Services
DTW (ft bgs): Not measured **DETECTOR:** NA
SCREEN SLOT: 0.01" **FILTER PACK:** Silica Sand
CASING LENGTH: 2' **ANNULUS SEAL:** Bentonite chips
SCREEN LENGTH: 10' **SURFACE SEAL:** NA

PID (ppm)	Staining	Moisture Content	Sample ID	Recovery (ft/ft)	Depth (ft)	USCS	USCS Graphic	Lithology Description	Well Construction
					0			Not sampled	
					5				
					10				

ATTACHMENT 2
LABORATORY ANALYTICAL REPORTS



Test Report

eANALYTICS LABORATORY

May 16, 2016

Client: LT Environmental

Project: Peterson #1 / 041716019

Lab ID: 5140

Date Samples Received: 5/12/2016

Number of Samples: 4

Sample Condition: Samples arrived intact and in appropriate sample containers

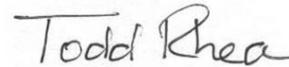
Sample Temperature: Samples arrived within the acceptable temperature range as specified in the test method

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: 5140

Project: Peterson #1 / 041716019

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 @ 4.5'	<0.010	<0.010	<0.010	0.020	707	649	05/12/16	05/12/16	5140 1
SS02 @ 4'	0.060	<0.010	1.94	0.665	424	2273	05/12/16	05/12/16	5140 2
SS03 @ 4.5'	<0.010	<0.010	<0.010	<0.010	<50.0	147	05/12/16	05/12/16	5140 3
SS04 @ 4'	<0.010	<0.010	<0.010	<0.010	62.0	271	05/12/16	05/12/16	5140 4



Client: LT Environmental Lab ID: 5140
 Project: Peterson #1 / 041716019 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 @ 4.5'	98	96	98	96	05/12/16	05/12/16	5140 1
SS02 @ 4'	95	97	98	96	05/12/16	05/12/16	5140 2
SS03 @ 4.5'	104	97	95	89	05/12/16	05/12/16	5140 3
SS04 @ 4'	93	96	96	90	05/12/16	05/12/16	5140 4



Client: LT Environmental Lab ID: 5140

Project: Peterson #1 / 041716019

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%)	100	93	94	106	83	116	05/12/16	LCS 5140 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	05/12/16	MB 5140 1

eAnalytics Laboratory

4130 Clydesdale Parkway Loveland CO 80538

Test Report

eANALYTICS LABORATORY

May 13, 2016

Client: LT Environmental

Project: Peterson #1 / 041716019

Lab ID: 5141

Date Samples Received: 5/12/2016

Number of Samples: 1

Sample Condition: Samples arrived intact and in appropriate sample containers

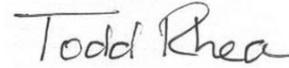
Sample Temperature: Samples arrived within the acceptable temperature range as specified in the test method

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

Chain of Custody

eANALYTICS

LABORATORY

Chain of Custody Form

			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: <u>LT ENVIRONMENTAL</u> Project: <u>PETERSON #1 / 041716019</u> Project Manager: <u>JESSE ALEXANDER</u> Sampler: <u>JEREMY PIKE</u> Phone/Email: <u>303-488-9788 JALEXANDER@LTENV.COM</u> Address: <u>4600 WEST 60th AVE</u> <u>ARVADA CO, 80003</u>			Number of Containers Matrix (S) Soil (W) Water (V) Vapor (O) Other	Other Instructions	
Lab ID Sample Name Sampling Date/Time					
1	GW01	5/12/16 1325	3	W	X
Comments:					
Turnaround Time (Business Days) TAT begins when sample is received by eANALYTICS <input type="radio"/> Normal (5-10 Days) <input checked="" type="radio"/> 3 Day (25%) <input type="radio"/> 2 Day (50%) <input type="radio"/> 1 Day (100%) <input type="radio"/> Same Day (300%)			Record of Custody Relinquished by: _____ Date _____ Company: _____ Time _____ AM/PM Received by: _____ Date _____ Company: _____ Time _____ AM/PM Relinquished by: <u>Jeremy Pike</u> Date <u>5-12-16</u> Company: <u>LT ENVIRONMENTAL</u> Time <u>3:30</u> Received by: <u>[Signature]</u> Date <u>5-12-16</u> Company: <u>eANALYTICS</u> Time <u>3:30</u>		
Colorado OPS Project : _____ Yes / No					
For eANALYTICS Use Samples Received Intact: <u>Yes</u> / No Received Within Temperature Range (2-6°C): <u>Yes</u> / No Sample Preservative: <u>CO</u> / None Acid / Other					

WO# 5141

eANALYTICS: Environmental testing made Easy

Page 1 of 1

eANALYTICS
LABORATORY

Client: LT Environmental Lab ID: 5141
 Project: Peterson #1 / 041716019
 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
GW01	34.9	<1.0	3.0	2.1	05/12/16	05/13/16	5141 1



Client: LT Environmental Lab ID: 5141
 Project: Peterson #1 / 041716019 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
GW01	88	84	103	98	05/12/16	05/13/16	5141 1



Client: LT Environmental Lab ID: 5141
 Project: Peterson #1 / 041716019
 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%)	96	95	97	98	05/13/16	LCS 5141 1
Method Blank	<1.0	<1.0	<1.0	<1.0	05/13/16	MB 5141 1
	ug/L	ug/L	ug/L	ug/L		

Test Report

eANALYTICS LABORATORY

April 28, 2016

Client: LT Environmental

Project: Peterson #1

Lab ID: 5030

Date Samples Received: 4/26/2016

Number of Samples: 14

Sample Condition: Samples arrived intact and in appropriate sample containers

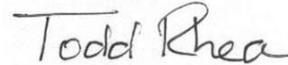
Sample Temperature: Samples arrived within the acceptable temperature range as specified in the test method

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

Chain of Custody

eANALYTICS

LABORATORY

Chain of Custody Form

eANALYTICS LABORATORY			ANALYSIS INFORMATION													
1767 Rocky Mountain Avenue Loveland CO 80538			Phone: (970) 667-6975			Fax: (970) 669-0941			www.eAnalyticsLab.com							
CLIENT INFORMATION			ANALYSIS INFORMATION													
Company: LTE			Matrix (S) Soil (W) Water (V) Vapor (O) Other RTEX (DRG + GRD) TPH (DRG + GRD)													
Project: Peterson #1																
Project Manager: Jess Alexander																
Sampler: D. Stoinback @ Henv.com																
Phone/Email: J Alexander @ Henv.com																
Address: 4600 W 60th ave Arvado, CO 80033																
Lab ID	Sample Name	Sampling Date/Time	Other Instructions													
1	MW01 @ 7.5'	4/22/16/900 AM	1	S	X	X										
2	MW02 @ 7.5'	915 AM														
3	MW03 @ 6'	935 AM														
4	MW04 @ 8'	1000 AM														
5	MW05 @ 7.5'	1030 AM														
6	MW06 @ 7.5'	1100 AM														
7	MW07 @ 7.5'	05:40 AM														
8	MW08 @ 6'	05:45 AM														
9	MW09 @ 7.5'	1307 AM														
10	MW10 @ 7.5'	1315 AM														
11	MW11 @ 7'	1345 AM														
12	MW12 @ 3.5'	4/25/16/840 AM														
13	MW13 @ 3.5'	920 AM														
14	MW14 @ 3.5'	940 AM														

Comments:

Turnaround Time (Business Days) TAT begins when sample is received by eANALYTICS <input checked="" type="checkbox"/> Normal (5-10 Days) <input type="checkbox"/> 3 Day (25%) <input type="checkbox"/> 2 Day (50%) <input type="checkbox"/> 1 Day (100%) <input type="checkbox"/> Same Day (300%) Rush analysis requires an extra charge. If possible please inform eANALYTICS in advance for rush analysis.	Record of Custody Relinquished by: <i>[Signature]</i> Company: LTE Date: 4/26/16 Time: 0910 AM/PM Received by: <i>[Signature]</i> Company: <i>Executive Cour</i> Date: 4/28/16 Time: 0919 AM/PM Relinquished by: <i>[Signature]</i> Company: <i>FA</i> Date: 4/26/16 Time: 1042 AM/PM Received by: <i>[Signature]</i> Company: eANALYTICS Date: 4/26/16 Time: 1042 AM/PM
Colorado OPS Project: Yes / No For eANALYTICS Use Samples Received Intact: Yes / No Received Within Temperature Range (2-6°C): Yes / No Sample Preservative: <input checked="" type="radio"/> Ice / <input type="radio"/> None / <input type="radio"/> Acid / <input type="radio"/> Other	

WO # **5030**

eANALYTICS: Environmental testing made Easy

Page 1 of 1

eAnalytics Laboratory

4130 Clydesdale Parkway Loveland CO 80538



Client: LT Environmental Lab ID: 5030

Project: Peterson #1

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	Date	Lab ID
							Sampled	Analyzed	
MW01 @ 7.5'	<0.010	<0.010	<0.010	<0.010	<50.0	<50.0	04/22/16	04/26/16	5030 1
MW02 @ 7.5'	<0.010	<0.010	<0.010	<0.010	<50.0	<50.0	04/22/16	04/26/16	5030 2
MW-03 @ 6'	<0.010	<0.010	<0.010	<0.010	<50.0	211	04/22/16	04/26/16	5030 3
MW-04 @ 8'	<0.010	<0.010	<0.010	<0.010	<50.0	<50.0	04/22/16	04/26/16	5030 4
MW-05 @ 7.5'	<0.010	<0.010	<0.010	<0.010	<50.0	<50.0	04/22/16	04/26/16	5030 5
MW-06 @ 7.5'	<0.010	<0.010	<0.010	<0.010	58.5	198	04/22/16	04/26/16	5030 6
MW-07 @ 7.5'	<0.010	<0.010	<0.010	<0.010	<50.0	<50.0	04/22/16	04/26/16	5030 7
MW-08 @ 6'	<0.010	<0.010	0.028	<0.010	153	206	04/22/16	04/26/16	5030 8
MW-09 @ 7.5'	<0.010	<0.010	<0.010	<0.010	<50.0	156	04/22/16	04/26/16	5030 9
MW-10 @ 7.5'	<0.010	<0.010	<0.010	<0.010	<50.0	<50.0	04/22/16	04/26/16	5030 10
MW-11 @ 7'	<0.010	<0.010	<0.010	<0.010	<50.0	<50.0	04/22/16	04/26/16	5030 11
MW12 @ 3.5'	<0.010	<0.010	<0.010	<0.010	<50.0	<50.0	04/25/16	04/26/16	5030 12
MW13 @ 3.5'	<0.010	<0.010	<0.010	<0.010	<50.0	<50.0	04/25/16	04/26/16	5030 13
MW14 @ 3.5'	<0.010	<0.010	<0.010	<0.010	<50.0	<50.0	04/25/16	04/26/16	5030 14

eAnalytics Laboratory

4130 Clydesdale Parkway Loveland CO 80538



eANALYTICS
LABORATORY

Client: LT Environmental

Lab ID: 5030

Project: Peterson #1

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
MW01 @ 7.5'	98	102	90	101	04/22/16	04/26/16	5030 1
MW02 @ 7.5'	101	101	98	100	04/22/16	04/26/16	5030 2
MW-03 @ 6'	98	99	102	93	04/22/16	04/26/16	5030 3
MW-04 @ 8'	90	97	92	94	04/22/16	04/26/16	5030 4
MW-05 @ 7.5'	91	95	94	100	04/22/16	04/26/16	5030 5
MW-06 @ 7.5'	90	95	93	102	04/22/16	04/26/16	5030 6
MW-07 @ 7.5'	94	95	93	100	04/22/16	04/26/16	5030 7
MW-08 @ 6'	90	95	91	95	04/22/16	04/26/16	5030 8
MW-09 @ 7.5'	94	103	105	99	04/22/16	04/26/16	5030 9
MW-10 @ 7.5'	95	101	102	91	04/22/16	04/26/16	5030 10
MW-11 @ 7'	91	93	100	93	04/22/16	04/26/16	5030 11
MW12 @ 3.5'	95	95	94	105	04/25/16	04/26/16	5030 12
MW13 @ 3.5'	94	95	101	96	04/25/16	04/26/16	5030 13
MW14 @ 3.5'	93	89	100	98	04/25/16	04/26/16	5030 14

eAnalytics Laboratory

4130 Clydesdale Parkway Loveland CO 80538



Client: LT Environmental Lab ID: 5030

Project: Peterson #1

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%)	98	95	95	101	100	111	04/26/16	LCS 5030 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	04/26/16	MB 5030 1

eAnalytics Laboratory

4130 Clydesdale Parkway Loveland CO 80538

Test Report

eANALYTICS LABORATORY

May 5, 2016

Client: LT Environmental

Project: Peterson #1 04176019

Lab ID: 5076

Date Samples Received: 5/3/2016

Number of Samples: 14

Sample Condition: Samples arrived intact and in appropriate sample containers

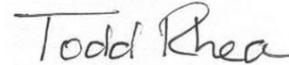
Sample Temperature: Samples arrived within the acceptable temperature range as specified in the test method

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

Chain of Custody

eANALYTICS

LABORATORY

Chain of Custody Form

eANALYTICS LABORATORY			ANALYSIS INFORMATION											
1767 Rocky Mountain Avenue Loveland CO 80538 Phone: (970) 667-6975 Fax: (970) 669-0941 www.eAnalyticsLab.com			(Select analysis by checking box on corresponding sample line)											
CLIENT INFORMATION			ANALYSIS INFORMATION											
Company: <u>LTE</u>			Other Instructions											
Project: <u>Peterson #1 04176019</u>			Matrix (S) Soil (W) Water (V) Vapor (O) Other Number of Containers BTEX											
Project Manager: <u>Jess Alexander</u>														
Sampler: <u>Jayson Evangelista</u>														
Phone/Email: <u>JAlexander@Ltenv.com</u>														
Address: <u>4600 W 60th Ave Arvada CO 80003</u>														
Lab ID	Sample Name	Sampling Date/Time												
1	MW01	5/2/16 1200 AM/PM	X											
2	MW02	1205 AM/PM												
3	MW03	1210 AM/PM												
4	MW04	1215 AM/PM												
5	MW05	1220 AM/PM												
6	MW06	1225 AM/PM												
7	MW07	1230 AM/PM												
8	MW08	1235 AM/PM												
9	MW09	1240 AM/PM												
10	MW10	1245 AM/PM												
11	MW11	1250 AM/PM												
12	MW12	1255 AM/PM												
13	MW13	1300 AM/PM												
14	MW14	1305 AM/PM												
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>Jayson Evangelista</u> Date <u>5/3/16</u> Company: <u>LTE</u> Time <u>0852</u> Received by: <u>Rand McEder</u> Date <u>5/3/16</u> Company: <u>Executive Core</u> Time <u>0852</u> Relinquished by: <u>Rand McEder</u> Date <u>5/3/16</u> Company: <u>LTE</u> Time <u>1050</u> Received by: <u>[Signature]</u> Date <u>5/3/16</u> Company: <u>eANALYTICS</u> Time <u>1050</u>								
Colorado OPS Project: Yes / No 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 checked="" type="radio"/> None / Acid / Other														

WO # 5076

eANALYTICS: Environmental testing made Easy

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eAnalytics Laboratory

4130 Clydesdale Parkway Loveland CO 80538

eANALYTICS
LABORATORY

Client: LT Environmental Lab ID: 5076
 Project: Peterson #1 04176019
 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	<1.0	<1.0	<1.0	<1.0	05/02/16	05/03/16	5076 1
MW02	<1.0	<1.0	<1.0	<1.0	05/02/16	05/03/16	5076 2
MW03	<1.0	<1.0	<1.0	<1.0	05/02/16	05/03/16	5076 3
MW04	<1.0	<1.0	<1.0	<1.0	05/02/16	05/03/16	5076 4
MW05	<1.0	<1.0	<1.0	<1.0	05/02/16	05/03/16	5076 5
MW06	<1.0	<1.0	<1.0	<1.0	05/02/16	05/03/16	5076 6
MW07	<1.0	<1.0	<1.0	<1.0	05/02/16	05/03/16	5076 7
MW08	<1.0	<1.0	<1.0	1.5	05/02/16	05/03/16	5076 8
MW09	<1.0	<1.0	<1.0	<1.0	05/02/16	05/03/16	5076 9
MW10	<1.0	<1.0	<1.0	<1.0	05/02/16	05/03/16	5076 10
MW11	<1.0	<1.0	<1.0	<1.0	05/02/16	05/03/16	5076 11
MW12	<1.0	<1.0	<1.0	<1.0	05/02/16	05/03/16	5076 12
MW13	<1.0	<1.0	<1.0	<1.0	05/02/16	05/03/16	5076 13
MW14	<1.0	<1.0	<1.0	<1.0	05/02/16	05/03/16	5076 14

eAnalytics Laboratory

4130 Clydesdale Parkway Loveland CO 80538



eANALYTICS
LABORATORY

Client: LT Environmental

Lab ID: 5076

Project: Peterson #1 04176019

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
MW01	110	116	98	94	05/02/16	05/03/16	5076 1
MW02	110	118	96	92	05/02/16	05/03/16	5076 2
MW03	110	118	97	98	05/02/16	05/03/16	5076 3
MW04	111	120	98	94	05/02/16	05/03/16	5076 4
MW05	111	116	97	93	05/02/16	05/03/16	5076 5
MW06	112	118	96	97	05/02/16	05/03/16	5076 6
MW07	110	115	96	95	05/02/16	05/03/16	5076 7
MW08	85	92	101	95	05/02/16	05/03/16	5076 8
MW09	87	98	92	89	05/02/16	05/03/16	5076 9
MW10	112	118	96	95	05/02/16	05/03/16	5076 10
MW11	111	118	95	93	05/02/16	05/03/16	5076 11
MW12	112	116	96	93	05/02/16	05/03/16	5076 12
MW13	112	117	95	92	05/02/16	05/03/16	5076 13
MW14	113	116	96	91	05/02/16	05/03/16	5076 14

eAnalytics Laboratory

4130 Clydesdale Parkway Loveland CO 80538



Client: LT Environmental Lab ID: 5076
 Project: Peterson #1 04176019
 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	92	97	99	05/03/16	LCS 5076 1
Method Blank	<1.0	<1.0	<1.0	<1.0	05/03/16	MB 5076 1
	ug/L	ug/L	ug/L	ug/L		

Test Report

eANALYTICS LABORATORY

July 20, 2016

Client: LT Environmental

Project: Peterson #1

Lab ID: 5511

Date Samples Received: 7/19/2016

Number of Samples: 7

Sample Condition: Samples arrived intact and in appropriate sample containers

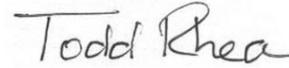
Sample Temperature: Samples arrived within the acceptable temperature range as specified in the test method

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

eANALYTICS
LABORATORY

Client: LT Environmental Lab ID: 5511
 Project: Peterson #1
 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
GS01	<0.010	<0.010	0.023	0.023	141	<50.0	07/19/16	07/19/16	5511 1
GS02	<0.010	<0.010	0.016	0.023	168	55.9	07/19/16	07/19/16	5511 2
GS03	0.035	<0.010	0.105	0.011	95.6	126	07/19/16	07/19/16	5511 3
GS04	<0.010	<0.010	0.072	0.024	294	113	07/19/16	07/19/16	5511 4
GS05	0.015	<0.010	0.075	0.018	143	77.9	07/19/16	07/19/16	5511 5
GS06	0.026	<0.010	0.073	<0.010	52.1	85.1	07/19/16	07/19/16	5511 6
GS07	<0.010	<0.010	0.024	<0.010	54.2	74.6	07/19/16	07/19/16	5511 7



Client: LT Environmental

Lab ID: 5511

Project: Peterson #1

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
GS01	97	94	96	98	07/19/16	07/19/16	5511 1
GS02	97	93	104	95	07/19/16	07/19/16	5511 2
GS03	96	90	99	98	07/19/16	07/19/16	5511 3
GS04	99	98	93	99	07/19/16	07/19/16	5511 4
GS05	96	99	97	100	07/19/16	07/19/16	5511 5
GS06	103	97	91	94	07/19/16	07/19/16	5511 6
GS07	90	96	94	90	07/19/16	07/19/16	5511 7

eAnalytics Laboratory

4130 Clydesdale Parkway Loveland CO 80538



Client: LT Environmental Lab ID: 5511
 Project: Peterson #1
 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%)	108	97	95	95	91	91	07/19/16	LCS 5511 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	07/19/16	MB 5511 1