



Field Form – Observations and Sampling

RATIONALE

Collect clearance/characterization soil samples to support vault removal.

GENERAL INFORMATION

Facility name: Grant Brothers 32-26	Lat/Long: 40.116484, -104.967713
Date: 4/23/2020	Time onsite: 10:56 am
Apex staff onsite: Sage Maher	PLSS:
Client personnel onsite: Dan Holcombe	Facility/Location ID: 333136
Subcontractor(s) onsite: NG	RC #:
Equipment being decommissioned, replaced, or no changes? Decommissioned	Weather: 60's and sunny
<i>Additional Information:</i> Landowner's environmental representative was also present on site (Tom G.)	

RELEASE CHARACTERIZATION

Has a release been identified? No	In containment?
Historic or recent release?	Release date:
Discovery date:	Equipment type:
Material released:	Amount released:
Cause of release:	Impacted Media:
How was release discovered?	
Is there evidence that material has discharged from the facility's boundaries?	
Is there evidence that the released material has reached State waters?	
<i>Additional Information:</i>	

LAND-USE CHARACTERISTICS

Land use: Idle Field	Predominant soil type: Olney Fine Sandy Loam
Depth to groundwater (feet BGS): ~30	Number of water wells within ½ mile radius: 7
Nearest surface water feature, distance & direction (feet): Unnamed stream; 400' W	
If less than 1 mile, distance to nearest:	
Water Well: 960' N	Surface Water: 400' W
Livestock: none	Springs: none
Wetland: 400' W	
Occupied Building: 430' NE	
<i>Additional Information:</i>	

RECOVERY DETAILS

Soil

Amount Removed:	Disposal Facility:
-----------------	--------------------

Groundwater

Amount Removed: None	Disposal Facility:
----------------------	--------------------

Slurry

Amount Removed: None	Disposal Facility:
----------------------	--------------------

Additional Information:

No soil has been removed from the site related to the produced-water vessel removal.

SOIL SAMPLE COLLECTION INFORMATION

PID Calibration	Date:	Time:	Gas: 100 ppm isobutylene					
Sample ID	Time	PID (ppm)	Staining?	Odor?	GBTEX8260C, DRO - 8015C	EC, pH, SAR	Hold	Other
B01@4.5	1105	3.0	No	No	X			
N01@2.5	1107	1.5	No	No	X			
E01@2.5	1110	1.8	No	No	X	X		
E02@4	1112	0.8	No	No			X	
S01@2.5	1114	0.9	No	No	X			
W01@2.5	1120	1.3	No	No	X			
C01	1122	1.3	No	No			X	

Additional Information:
PID was bump tested before use - 106.3

GENERAL NOTES

This was the first site visit to the Grant Brothers 32-26 Battery. No staining or odor were noted in the excavation. One base sample was collected at 4.5' bgs, four sidewall samples were collected at 2.5' bgs, one additional sidewall sample was collected at 4' bgs, and one composite sample was collected from the stockpile.

The base sample and all four sidewall samples collected at 2.5' bgs were submitted to Summit for standard-turn analysis of GBTEX + TPH-DRO. The highest PID sidewall sample (E01@2.5) was also submitted for inorganics analysis. The composite stockpile sample and the 4' bgs sidewall sample were submitted on hold.

SAMPLING CERTIFICATION

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Environmental Sampler (*Name and Company*)**SIGNATURE**

Date:

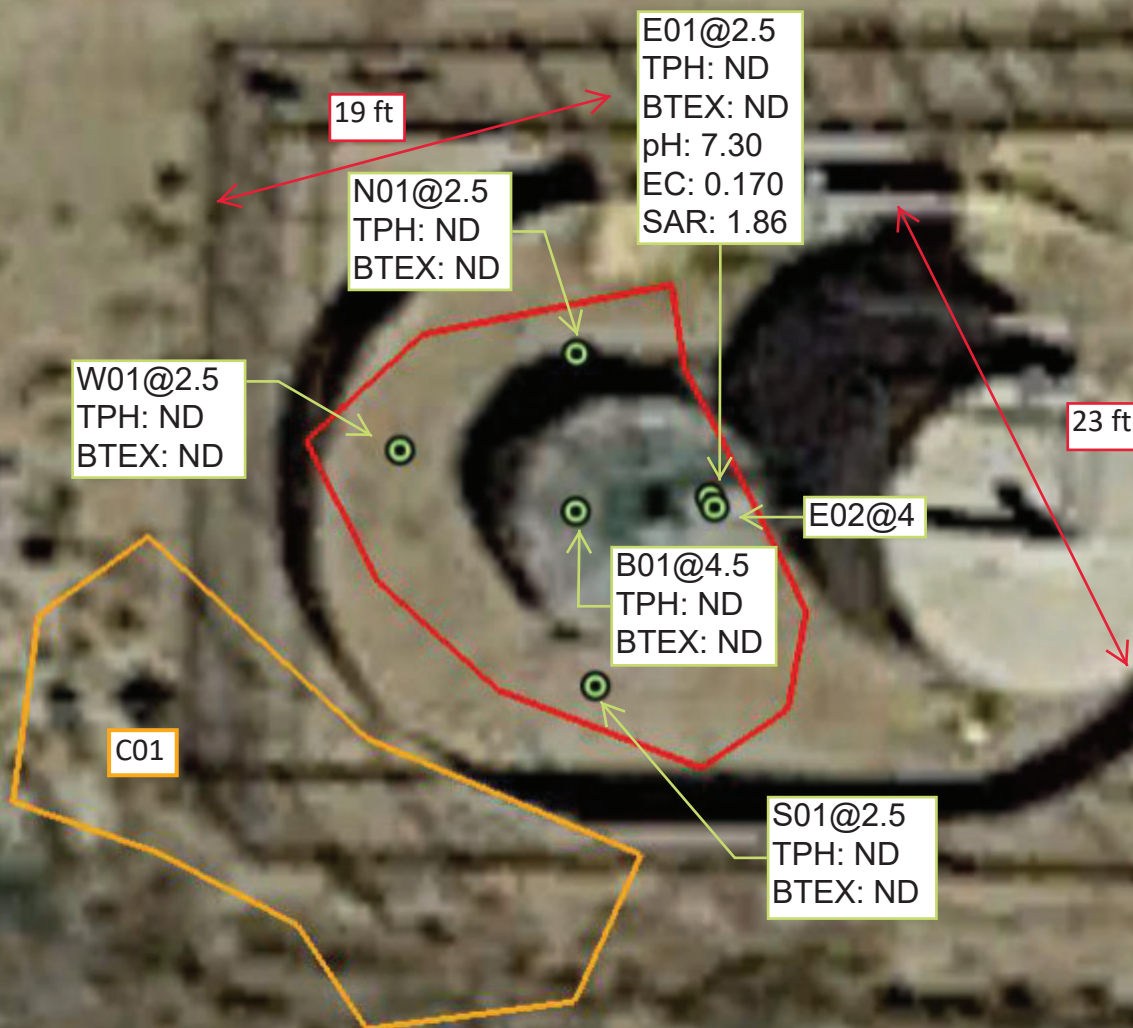
Sage Maher, APEX Companies LLC.



4/23/2020



GRANT-62N68W 26SWNE
(Location ID: 333136)
"Grant Brothers 32-26"



Summit Scientific

4653 Table Mountain Drive ♦ Golden, Colorado 80403
303-277-9310 ♦ 303-374-5933 Fax

Client: APEX Companies, LLC

Address: 1746 Cole Blvd. Suite 250

City/State/Zip: Lakewood, Colorado 80101

Phone: 720-501-5065

Sampler Name: Sage Maher

Page 1 of 1

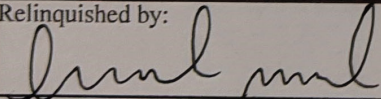
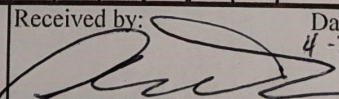
Project Manager: Maggie Graham 720-501-5065; 907-538-7699c MaggieGraham@ApexCos.com

E-Mail: DenverRemediation@ApexCos.com schuyler.hamilton@CrestonePR.com

Project Name: Grant Brothers 32-26 christopher.riec@CrestonePR.com

Project Number: 125.2001.01-333136

Sample Description	Date Sampled	Time Sampled	Number of Containers	Preservative				Matrix		Analyze For:							Special Instructions	
				HCl	HNO ₃	None	Other (Specify)	Groundwater	Soil	Air - Canister Serial #	Other (Specify)	GBTEX	TPH-DRO	pH	EC	SAR		HOW
B01@4.5	4/23/20	1105	1			X			X									
N01@2.5		1107							X									
E01@2.5		1110							X									
E02@4		1112							X									
S01@2.5		1114							X								X	
W01@2.5		1120							X									
C01		1122															X	

Relinquished by: 	Date/Time: 4/23/20 1334	Received by: 	Date/Time: 4-23-2020 1334	Turn Around Time (Check) Same Day <input type="checkbox"/> 24 Hours <input type="checkbox"/> 48 Hours <input type="checkbox"/> 72 Hours <input type="checkbox"/> Standard <input checked="" type="checkbox"/>	Notes Circle applicable regulatory agency: COGCC CDPHE Client Name: CPR
Relinquished by:	Date/Time:	Received by:	Date/Time:	Sample Integrity: Temperature Upon Receipt: 7.5° Intact: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
Relinquished by:	Date/Time:	Received in Lab by:	Date/Time:		



Description:

North sidewall and base



Description:

West sidewall



Description:

South sidewall



Description:

East sidewall



Description:

Stockpile



Laboratory Results Summary Table - Soil Grant Brothers 32-26

			Organics (mg/kg)					(mmhos/cm)	Units	(pH Units)
COGCC Allowable Concentration (Soil) -->			500	0.17	85	100	175	4	12	(6-9)
Location	Sample Date	Sample ID	TPH (total volatile and extractable petroleum hydrocarbons) (TPH-GRO + TPH-DRO)	Benzene	Toluene	Ethylbenzene	Xylenes - total	EC (Specific Conductance) (<4 mmhos/cm or 2x background)	SAR (Sodium Adsorption Ratio) (calculation)	pH
Grant Brothers 32-26	4/23/20	B01@4.5	<50	<0.0020	<0.0050	<0.0050	<0.010	NA	NA	NA
Grant Brothers 32-26	4/23/20	N01@2.5	<50	<0.0020	<0.0050	<0.0050	<0.010	NA	NA	NA
Grant Brothers 32-26	4/23/20	E01@2.5	<50	<0.0020	<0.0050	<0.0050	<0.010	0.170	1.86	7.30
Grant Brothers 32-26	4/23/20	S01@2.5	<50	<0.0020	<0.0050	<0.0050	<0.010	NA	NA	NA
Grant Brothers 32-26	4/23/20	W01@2.5	<50	<0.0020	<0.0050	<0.0050	<0.010	NA	NA	NA