

August 6, 2018

Mr. Bill Lloyd  
Chief Operating Officer  
PetroShare Corporation  
9635 Maroon Circle, Suite 400  
Englewood, CO 80112

**RE: Proposed Confirmation Sampling Plan  
Former State of Colorado AB 1 Tank Battery  
SWNE S16 T2S R66W**

Dear Mr. Lloyd:

Tasman Geosciences, Inc. (Tasman) has prepared this proposed confirmation sampling plan for the former State of Colorado AB 1 tank battery (Site). Per the direction of the Colorado Oil and Gas Conservation Commission (COGCC), additional soil sampling is required adjacent to the historic release below the former separator.

Between March 2 and June 11, 2018, soil samples were collected from the excavation area below the former separator at depth ranging between 4 feet and 9 feet below ground surface (bgs). Soil samples were submitted to Summit Scientific Laboratories (Summit) for analysis of benzene, toluene, ethylbenzene, total xylenes (BTEX), naphthalene, total volatile petroleum hydrocarbons (TVPH) – gasoline range organics (GRO) by United States Environmental Protection Agency (USEPA) Method 8260B, and total extractable petroleum hydrocarbons (TEPH) – diesel range organics (DRO) by USEPA Method 8015. Analytical results indicated organic compound concentrations were below COGCC Table 910-1 soil standards in all samples collected from the final excavation extent.

Per the direction of the COGCC, additional confirmation soil samples will be collected within the former excavation area, as illustrated on Figure 1A. Discrete soil samples will be collected from the sidewalls and base of the former excavation at 8 feet and 9 feet bgs, respectively. Soil samples will be submitted to Summit for analysis of TVPH – GRO by USEPA Method 8260B, and TEPH – DRO and TEPH – oil range organics (ORO) by USEPA Method 8015.

On March 6, 2018, four (4) 4-point composite soil samples were collected from approximately 400 cubic yards of clean excavation material stockpiled for future backfilling. Soil samples were submitted to Summit for analysis of BTEX, naphthalene, TVPH – GRO by USEPA Method 8260B, and TEPH – DRO by USEPA Method 8015. Analytical results indicated organic compound concentrations were below COGCC Table 910-1 standards.

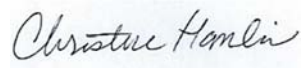
Per the direction of the COGCC, additional confirmation soil samples will be collected from this backfilled material using a hand auger. Four (4) discrete soil samples will be collected for every 100 cubic yards of backfilled material. Soil will be homogenized as one composite soil sample. Soil samples will be submitted to Summit for analysis of TVPH – GRO by USEPA Method 8260B, and TEPH – DRO and ORO by USEPA Method 8015.

Results of confirmation soil sampling activities will be submitted to the COGCC with a request for final project closure.

Please contact me at (720) 409-8791 if you have questions regarding this report.

Sincerely,

Tasman Geosciences, Inc.



Christine Hamlin  
Program Manager

**Enclosures:**

Figure 1A – Proposed Sample Location Map



**Legend**

- — Excavation Extent  
(Collected via Trimble GPS)
- + Proposed Confirmation Soil Sample  
(Collected via Trimble GPS)
- X Point of Release

**Notes**

All locations are approximate unless otherwise noted.

Surface drainage direction is estimated based on topography and is not related to regional topography.

GPS – Global Positioning System

0 ft. 10 ft. 20 ft.

Image Source: Google Earth; 2016 Google  
Projection: WGS 84 UTM Zone 13 North

DATE:	August 1, 2018
DESIGNED BY:	C. Hamlin
DRAWN BY:	C. Hamlin



**TASMAN**  
GEOSCIENCES

**Tasman Geosciences, Inc.**  
6899 Pecos Street – Unit C  
Denver, CO 80221

**PetroShare Corporation**  
**Former State of Colorado AB1 Tank Battery**  
SWNE, Section 16, Township 2 South, Range 66 West  
Adams County, Colorado

**PROPOSED SAMPLE  
LOCATION MAP**

**FIGURE  
1A**