

Sooner Unit 10-28
Spill #2145522
Foundation Energy Management LLC

Soil adjacent to the damaged flowline was excavated July 18, 2013 at the direction of Foundation Energy Management LLC (Foundation). The excavation measured approximately 10 feet east to west, by 60 feet north to south, and 4.5 feet deep. On July 19, 2013, Tasman Geosciences LLC (Tasman) field staff collected confirmation soil samples from the four sidewalls of the excavation (north, south east and west) at a depth of approximately four foot below ground surface (bgs) and from the excavation base at approximately 5 feet bgs. Soil samples were field screened using a photoionization detector (PID) and standard headspace sampling techniques. The PID provided readings of 0.0 parts per million (ppm) for each sample collected. The sample locations are shown on Figure 2.

The samples were submitted to Summit Scientific Laboratories (Summit) located in Golden, Colorado for laboratory analysis of Colorado Oil and Gas Conservation Commission (COGCC) Table 910-1 constituents. Benzene, toluene, ethylbenzene, total xylenes (BTEX) and total petroleum hydrocarbons (TPH) gasoline range organics (GRO) were analyzed by Environmental Protection Agency (EPA) Method 8260B. TPH diesel range and oil range organics (DRO and ORO) were analyzed by EPA Method 8015. BTEX and TPH values in the soil samples were below the Table 910-1 standard with the exception of the sample collected from the west sidewall (WEST). This sample exceeded the Table 910-1 standard for TPH with a value of 706.1 mg/kg. The excavation was extended to the west by 5 feet on August 14, 2013 and resampled August 15, 2013 to obtain a confirmation soil sample from the western sidewall. BTEX and TPH concentrations in the confirmation sample (WEST02) were below laboratory detection limits, and therefore below the Table 910-1 standard. No groundwater was encountered during excavation activities, and no surface water impacts were observed. The laboratory data is summarized in Table 1, and the laboratory analytical report is attached.

The impacted soil was removed from the spill area and stockpiled on plastic at the tank battery pending removal to the Waste Management disposal facility located in Ault, Colorado. The soil disposal manifest is attached.