



April 30, 2015

Mr. Kyle Waggoner
Whiting Oil and Gas Corporation
208 Racquette Drive
Fort Collins, Colorado 80524

**RE: Soil Remediation
Razor 27J Well Pad
Weld County, Colorado
Project # 701530.032.01**

Mr. Waggoner:

On March 25, 2015, Talon/LPE utilized a Royer Model 364 soil shredding machine to remediate forty-two (42) cubic yards of hydrocarbon impacted soil at the Razor 27J Well Pad in Weld County, Colorado. The Royer Model 364 soil shredding machine pulverized the impacted soil which increased the surface area of the soil and allowed maximum volatilization of the hydrocarbons. Additionally, while shredding the impacted soils, Talon/LPE applied a 5% hydrogen peroxide solution to chemically oxidize the hydrocarbons.

After remediating the impacted soils, Talon/LPE collected a confirmation sample on April 9, 2015, to confirm all hydrocarbons had been removed to the extent required by the Colorado Oil and Gas Conservation Commission (COGCC). The collected sample was analyzed for Total Petroleum Hydrocarbons (TPH) via Gasoline Range Organics (GRO) and Diesel Range Organics (DRO) method SW8015 and for Benzene, Toluene, Ethyl-benzene, and Xylenes (BTEX) via method SW8260 at ALS Laboratories in Fort Collins, Colorado. The sample was reported to exhibit a non detectable GRO concentration, a DRO concentration of 140 mg/kg, and a non detectable BTEX concentration which are below COGCC Table 910-1 concentration levels.

Based upon the actions conducted, Talon/LPE believes that the hydrocarbon impacted soils have been remediated to the maximum practical extent and no further corrective action is necessary. If you have any questions or comments, please do not hesitate to call me at (979) 574-8371.

Respectfully Submitted,

Colby Sterling
Project Manager
Talon/LPE

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