



July 18, 2018

Mr. Robert Chesson
Department of Natural Resources
Colorado Oil and Gas Conservation Commission
1120 Lincoln Street, Suite 801
Denver, Colorado 80203-2136

RE: 2017 Annual Report
lone 4 Tank Battery
Remediation #5130
API # 05-123-07455
NENE 2-T2N-R66W 6PM
Weld County, Colorado

Dear Mr. Chesson:

This report summarizes activities conducted in 2017 to address petroleum hydrocarbon impacts at the lone 4 Tank Battery (site). The site is located approximately 2.5 miles northeast of the intersection of County Road (CR) 22 and CR 31, Weld County, Colorado. A location map (Figure 1), a site map (Figure 2) and analytical result (Table 1) are attached.

BACKGROUND

A site investigation was completed on September 29, 2011. Three borings were completed and temporary one-inch monitoring wells were installed. Soil samples were collected from each location. The soil sample from SB-02 was reported above the COGCC Table 910 allowable limit for total petroleum hydrocarbons (TPH) at 880 mg/kg. Benzene was reported above the allowable limit for groundwater in sample SB-02 during the fourth quarter 2011 and first quarter 2012 monitoring events.

An excavation was completed the week of March 23, 2012, in the vicinity of SB-02. The excavation was approximately 40 feet east to west, 40 feet north to south and averaged 17 feet in depth. Monitoring well SB-02 was destroyed during excavation activities. Five sidewall samples and one floor sample were collected from the excavation area. All samples were reported below the COGCC Table 910 allowable limits for benzene, toluene, ethylbenzene, and xylenes (BTEX) and TPH. A fourth soil boring, SB-04, was completed on May 8, 2012 as a temporary monitoring well.

Five permanent monitoring wells, MW-01 through MW-05 were installed to replace the temporary wells.

Based on dissolved phase petroleum hydrocarbon impacts beneath the site, quarterly groundwater monitoring is being conducted.



2015 Monitoring Results

Groundwater samples were collected from each well and analyzed throughout the year for BTEX. Groundwater monitoring was conducted for MW-01 through MW-05 on 3/2/2015, 5/22/2015, 8/26/2015 and 11/18/2015.

Monitoring wells MW-01, MW-03, MW-04 and MW-05 reported below the COGCC Table 910-1 allowable limit throughout the year during 2015.

MW-02 had Benzene concentrations over the COGCC limits during the first three quarters. Toluene, Ethylbenzene and Xylene concentrations were below table 910-1 limits throughout the year.

2016 Monitoring Results

Groundwater samples were collected from each well and analyzed throughout the year for BTEX. Groundwater monitoring was conducted 3/30/2016, 9/29/2016 and 12/20/2016. No sampling was conducted during the second quarter of 2016.

Monitoring wells MW-01, MW-03, MW-04 and MW-05 reported below the COGCC Table 910-1 allowable limit throughout the year during 2016.

MW-02 had Benzene concentrations over the COGCC limits during all sampled quarters. Toluene, Ethylbenzene and Xylene concentrations were below table 910-1 limits throughout the year.

2017 Monitoring Results

Groundwater samples were collected from each well and analyzed throughout the year for BTEX. Groundwater monitoring was conducted 3/21/2017, 6/30/2017, 9/27/2017 and 12/18/2017.

Monitoring wells MW-01, MW-04 and MW-05 reported below the COGCC Table 910-1 allowable limit throughout the year during 2017.

MW-02 had Benzene concentrations over the COGCC limits during the first, third and fourth quarters. Toluene, Ethylbenzene and Xylene concentrations were below table 910-1 limits throughout the year.

MW-03 had Xylene concentrations over the COGCC limits during the fourth quarter. Benzene, Toluene and Ethylbenzene were below table 910-1 limits throughout the year.



Please contact me if you have any questions or require additional information.

Sincerely,

David Tewkesbury
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Attachments:

Table 1 – Groundwater Analytical Results Ione 4 2017

Figure 1 – Location Map

Figure 2 – Site Map

Figure 3 – Groundwater Flow Map

2017 Q1 Analytical Ione 4

2017 Q2 Analytical Ione 4

2017 Q3 Analytical Ione 4

2017 Q4 Analytical Ione 4