

ADEQ

7th Avenue and Bethany Home Road WQARF Site Update

October 16th, 2019



RECENT SITE ACTIVITIES

2018 Injection Event – In-situ groundwater injections were conducted at the Bayless Property between October 25 and November 16, 2018. Emulsified vegetable oil (EVO) mixed with water was injected into 16 injection wells. The injection volume per injection well included approximately 450 gallons of EVO, 2.5 gallons of DHC bacteria and nutrients, and 19,400 gallons of water.

Performance Groundwater Monitoring – Groundwater samples were collected prior to the 2018 injection event and 30-, 60-, 90-, 120-, and 150-days after the injection event.

UPCOMING SITE ACTIVITIES

Performance Groundwater Monitoring – Collect groundwater samples in early December 2019 and May 2020 to continue monitoring the effectiveness of the 2018 Injection Event at Bayless Property.

PRELIMINARY RESULTS

Contaminant of Concern – Tetrachloroethene (PCE) concentrations in down-gradient performance monitoring wells have decreased (MW-4 from 1,700 parts per billion [ppb] to 19 ppb and MW-22S from 72 ppb to non-detect).

Total Organic Carbon – Total Organic Carbon (TOC) results indicate EVO is still present in the subsurface 150 days after injection at sufficient concentrations for continued remediation of the groundwater beneath the Bayless Property.

Reducing Environment – Dissolved Oxygen (DO) and Oxidation-Reduction Potential (ORP) measurements indicate the groundwater environment beneath the Bayless Property is conducive for continued groundwater remediation.

DHC Bacteria – The DHC bacteria is present in the groundwater but not at robust levels due to low pH levels. The pH levels have rebounded and ADEQ is currently evaluating the need to inject additional DHC bacteria into the groundwater for continued groundwater remediation.

SUMMARY

The performance groundwater data indicate that the EVO injections conducted in 2018 is remediating the groundwater contamination beneath the Bayless Property.

For questions, please contact:

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