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Sent: Monday, January 16, 2023 8:04 AM
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Subject: Effective Solubility Data Collection

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Hi Wes,

As we recently discussed, NW Natural plans to collect supplemental groundwater samples and DNAPL samples at several wells across the Gasco OU. At each well, a groundwater sample will be collected first, followed by a DNAPL sample. Consistent with the procedures that were used to collect porewater samples in sediment containing DNAPL, each groundwater sample will be pumped through a porous ceramic filter to avoid including DNAPL or sheen in the groundwater sample. These data will characterize DNAPL composition and the empirical effective solubility of DNAPL components, and will support modeling to estimate the time required to reach groundwater cleanup levels for various remedial options in the FS. Wells that will be sampled currently contain DNAPL with a range of compositions as indicated by TarGOST waveform data, and are distributed in the Fill, Upper Alluvium, and Lower Alluvium WBZs. They include: MW-50F, MW-11-32, MW-8-29, PW-3-85, MW-38U, MW-PW2L, MW-10-25, PW-11U, MW-18-30, MW-15-50, and MW-8-56. The analytical parameters for groundwater and DNAPL samples will include: VOCs, PAHs, and TPH.

If you concur with this supplemental data collection, we will commence the work as soon as

practicable. Please let me know if you have any questions.

Thanks,

-Rob

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