From: Warfel, Michael (ECY)
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Cc: Megan Richard; Melton, Wade E
Subject: VCP NW3308, West Seattle ARCO/BP Service Station 11060
Date: Thursday, December 1, 2022 9:04:46 PM
Attachments: As vs pH.jpg

Hello All:

Ecology received and reviewed the "Workplan for PetroFix™ Amendment Pilot Study" dated October 7, 2022, regarding planned interim action at this Site. Ecology understands that the objective of the pilot study is to evaluated the effectiveness of activated-carbon fluid injections in reducing concentrations of petroleum hydrocarbons in groundwater to below MTCA Method A cleanup levels.

Ecology concurs with the pilot study, with one caveat. At a cleanup site in Seattle, we observed a significant increase in dissolved arsenic in groundwater (two orders of magnitude) following PetroFix™ injections, apparently due to the high pH of the injectate (8 to 10, according to the spec sheet) causing liberation of natural arsenic from the glacial soils (see attached graph). Ecology requests including dissolved arsenic in the baseline and post-injection groundwater sampling program, and confirmation of this addition to the workplan.

Mike

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