

STATE OF
COLORADO

This message has been automatically
translated: Unknown Language -> English.

Neidel - DNR, Kris
<kris.neidel@state.co.us>

RE: Fe - Durham Flowline #4 - Remediation Number 4990

Rob Fishburn <rfishburn@ltenv.com>

Thu, Jun 11, 2015 at 3:16 PM

To: "Neidel - DNR, Kris" <kris.neidel@state.co.us>

Cc: Rob Fishburn <rfishburn@ltenv.com>

Kris,

Pursuant to your request, I have provided the following explanation to the observed increase in dissolved iron observed in select monitoring wells at the Durham #4 Flowline (Remediation No. 4990) project.

Each well installed the above-referenced location is protected by a steal lockable stick-up riser. These risers were installed by hand to an approximate depth of one to two feet below ground surface without a concrete base. The groundwater at this site fluctuates between 0.5 and 6.5 feet below ground surface. Over the years the stick-ups have rusted as they encounter the groundwater on occasion, rainwater runoff, and flooding irrigation. On most occasions the groundwater table is sufficiently low as to not transport dissolved iron from just below the surface through to the static groundwater table. However, on a few occasions the groundwater table in communication with the rusted stickups may have transported higher concentrations of dissolved iron to the static groundwater table. The groundwater monitoring activities occurring on 9.19.2012 were most likely subsequent to a shallow groundwater table encounter with these rusted stick-ups or subsequent to a heavy rain event or subsequent to an agricultural irrigation flooding event. These actions would explain the observed spike on 9.19.2012 and observed fluctuations of dissolved iron concentrations in groundwater analytical results.

Please call if you would like to discuss in more detail or have additional questions.

Rob Fishburn, P.G.

LT Environmental, Inc.

West Slope Manager / Senior Hydrogeologist

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From: Neidel - DNR, Kris [mailto:kris.neidel@state.co.us]

Sent: Thursday, June 11, 2015 12:08 PM

To: Rob Fishburn

Subject: Fe

Rob,

Could you email me a description on the Iron jump (that you explained at our meeting) on 3/30/2015 sample event, on Remediation Project 4990 and I will issue the NFA letter.

a email is acceptable.

Thanks,

Kris Neidel

Environmental Protection Specialist Northwest Area

Colorado Oil and Gas Conservation Commission

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