



STATE OF COLORADO

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EnviroScan - DNR, OGCC <dnr_ogcc.enviroscan@state.co.us>

Fwd: Gamma State Form 27 Update

1 message

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

Thu, Jan 14, 2016 at 11:30 AM

To: OGCC EnviroScan - DNR <dnr_ogcc.enviroscan@state.co.us>

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From: **Neidel - DNR, Kris** <kris.neidel@state.co.us>
Date: Thu, Jan 14, 2016 at 11:27 AM
Subject: Re: Gamma State Form 27 Update
To: Brian Bohm <Brian_Bohm@swn.com>
Cc: Alex Fischer - DNR <alex.fischer@state.co.us>

Brian,

Thanks for the update.

It will be interesting to see if the additional time added to the effectiveness of the treatment.

Please recall my original COA of "Operator should provide notice to Environmental staff Kris Neidel (kris.neidel@state.co.us) or 970-819-9609 72hrs prior to mobilization at begin of work." I would also like notice of sample collection, in the event that your consultant collects what they anticipate to be final confirmation samples.

This email will be uploaded to the project file, Remediation Project 9024.

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On Mon, Jan 11, 2016 at 9:23 AM, Brian Bohm <Brian_Bohm@swn.com> wrote:

Kris,

I have a draft revision to the Gamma State Form 27 updating work to date and was prepared to submit it, but we have had some additional analytical results come in that indicate the previous oxidant testing may have been more effective and it has just taken time to see the resultant change in soils.

To summarize, a Location identified as SS07 was one of the highest pre-treatment soils that had 7,000 – 8,000 mg/kg DRO.

1. Post initial peroxide treatment the soil analysis showed 3,950 mg/kg DRO (ALS analytical labs).

2. After a second treatment the soil analysis showed 4,050 mg/kg DRO (ALS analytical labs). This prompted SWN to request LTE to perform bench testing of enhanced oxidants before any further treatment.
3. Pre-bench testing soil samples were analyzed just before Christmas showed highly reduced DRO concentrations between 300 ppm and 800 ppm DRO (e-analytics, different lab from the initial treatment results). Which may indicate the previously oxidant treatments were more effective than initially thought so resampling to confirm these results and collect fresh soil for oxidant testing was requested.
4. LTE resampled the soil stock piles early last week and sent new soil samples to the oxidant testing facility. Analytical samples were also sent for confirmation of these lower DRO results pre-bench scale testing.
5. The initial re-sample results have come back for SS07 area soils at 717 mg/kg. A split sample was sent to ALS analytics for confirmation and comparison to the initial sample results.

I have delayed submittal of the updated Form 27 while I wait for confirmation of these most recent results. If the ALS analytics results come back in a similar range, SWN will still have the bench scale testing performed, but may wait until the thaw and conduct additional confirmation sampling before additional treatment.

Let me know if you have any questions.

Brian Bohm

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