



Re: Kern 43-33 Pit, NESE 33 12N 62W, API #05-123-10268, Pit Facility #117951, Remediation Project #7391

Eckman - DNR, Annie <annie.eckman@state.co.us>

Mon, Dec 9, 2013 at 12:47 PM

To: James Hix <jhix@olssonassociates.com>

Cc: Rick Allison - DNR <rick.allison@state.co.us>, "EnviroScan, OGCC" <OGCC.EnviroScan@state.co.us>

Kern 43-33 Pit, NESE 33 12N 62W, API #05-123-10268, Pit Facility #117951, Remediation Project #7391

James,

COGCC has reviewed the assessment report submitted by Olsson on behalf of Whiting Petroleum for the above referenced location. Based on a review of the data presented, it appears that no further action is necessary related to the pit closure and tin horn impacts, aside from surface restoration. According to the report provided, impacted soils from this location have been co-mingled for land farming (land treatment) with soils from:

- **Terrace Compressor Station Pit, NWNW18 10N 58W, Facility #100035, Remediation Project #7392**
- **Terrace Gas Plant Pit, NWNE 18 10N 58W, Facility #100036, Remediation Project #7393**

*Please note for future reference: in cases where land treatment is proposed, a (separate) Form 27 should be submitted for approval by the Director. In lieu of the separate Form 27 for land treatment, the Remediation Project #7391 will be left open until completion of the land treatment of the impacted soils has been approved by COGCC staff. Given this, the following **additional Conditions of Approval for Remediation #7391, #7392, and #7393** apply:*

- **Land treatment shall be performed in strict accordance with COGCC Rule 907.e. (2);**
- **Perform routine maintenance to prevent contamination of stormwater runoff;**
- **Land treatment shall be documented semi-annual status reports due each year on January 31st and June 30th, beginning with an initial report due no later than June 30, 2013;**
- **The status reports shall include the following information: Type and volume of microbes, nutrients or other amendments added, dates the material was aerated, moisturized, maintained, etc; and**
- **Note that a minimum of one soil sample per each 2,500 cubic yards is required.**

Please note that Whiting will need to request both the closure of pit *and* NFA determination for the remediation project when land treatment has been completed. **Please reference both the pit number #117951 and the Remediation Remediation Project #7391 number on any future correspondence.**

Please contact me or Rick Allison if you have any questions.

Thank you,

Ann Clements Eckman, P.G., for

Rick Allison, P.G.

Environmental Protection Specialist - Northeast Colorado



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Cc: Please upload attached doc to Rem #7391, and upload email to Rem numbers 7391, 7291, and 7393 as "Additional COAs"

On Tue, Oct 22, 2013 at 11:31 AM, James Hix <jhix@olssonassociates.com> wrote:

John and Rick,

Attached is the Whiting Kern Produced Water Pit Closure Report for COGCC Pit #117951. Please let me know if you need hard copies of this report.

James

James W. Hix, PG | **Olsson Associates**

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