

## Hamre, John G.

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**From:** Fahn, Patrick J.  
**Sent:** Monday, August 10, 2009 8:13 AM  
**To:** Hamre, John G.  
**Subject:** FW: PSC Project PU-06-421  
**Attachments:** North Spread Report 8-6-09 .pdf; Photo August 6, 2009 100\_1891.jpg; Photo August 6, 2009 100\_1902.jpg; Photo August 6, 2009 100\_1905.jpg; Photo August 6, 2009 100\_1915.jpg; Photo August 6, 2009 100\_1919.jpg; Photo August 6, 2009 Belanus Property 100\_1910.jpg

John - please docket in 06-421 from KLJ and then forward to Commissioners, PUD and Legal

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-----Original Message-----

From: Mark Anderson [mailto:[mark.anderson@kljeng.com](mailto:mark.anderson@kljeng.com)]  
Sent: Monday, August 10, 2009 7:39 AM  
To: Fahn, Patrick J.  
Subject: PSC Project PU-06-421

Patrick:

Attached is Dennis' report for the week of August 3, 2009. Also attached are several pictures from his site visit showing the remediation work on the sink hole areas and also a picture of the restoration work on the Belanus property. Please let me know if you have any comments or questions. Thank you.

Mark Anderson, PE

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PSC CASE NUMBER: PU-06-421

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Jackson  
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DAILY REPORT

1/4

Job Site: North SPREAD

Date: Aug 6, 2009

Location and  
Operations Observed:

Mi. 1	No activity
Mi. 4	" "
Mi. 6-7	Back fill, Mulching, Topping
Mi. 20	No Activity
Mi. 24	No Activity
Mi. 25	Seeded mulched
Mi. 26	No activity

General Notes:

Today I spent a majority of my time on Mi. 6 & 7. Although there is ample evidence of restoration elsewhere, the majority of workers have converged on Mi. 6 & 7 and are working to complete activities over the sinkholes that developed during last years boring activity. I spoke at length with Mike Waldenburg, Foreman for Michels Pipeline Construction concerning their involvement of the Sinkhole Remediation effort at Pembina Gorge. Michels began their work Aug 3, 2009. Removed trees from sinkholes. Suitable material meeting soil type (SP-SM) specifications (page 2 of TransCanada Draft report) was hauled from adjacent farmland North west of the site. Mr. Waldenburg said

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DAILY REPORT (Cont.)

Date Aug 6, 2009Page 2 of 4

The material was placed with a 65' boom excavator. Quantity placed .... approx 9250 cu. yds according to Mike Waldenburg. A layer of geo grid was placed near the top of the leveling layer. Topsoil was then placed on top of that material & was mounded approximately 2 feet higher than adjacent ground to allow for settlement & subsidence. The area was then seeded & mulched with silt fence being placed around the outer perimeter of the work area to control any potential soil erosion. A monument was installed near the center of each mounded sinkhole to assist inspectors in monitoring the settlement of material over these areas. The perimeter is also enclosed with orange security fence & warning signs to alert the public to the potential hazard within bounded area.

Mi. 1 I observed no activity. Wood matting remains to be picked up & topsoiling, pipe connection to Canada remains as well as land leveling.

Mi. 4 - Belanus land looks good.

Mi. 6 - Hentels / M<sup>c</sup>Coy was busy deep tiling R/W & leveling subsoil. A second crew was begins to spread topsoil back over



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DAILY REPORT (Cont.)

Date Aug. 6 2009

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The following deviations from the finding of facts were found:

- None -

Signature: Dennis Markusen

Print Name: Dennis Markusen









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10/10/00

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