

## Young, John, NMENV

**From:** Danny Katzman [katzman@lanl.gov]  
**Sent:** Monday, September 18, 2006 12:13 PM  
**To:** Young, John, NMENV; Cobrain, Dave, NMENV; Shen, Hai, NMENV  
**Subject:** RE: Chromium Field Campaign Update - 9-15

**Attachments:** SCC-2 Cr and Water Profiles.pdf



SCC-2 Cr and  
Water Profiles.pdf...

John-

SCC-4 is currently at about 100 ft. Alluvial water was encountered similar to that in SCC-3. No other perched water has been encountered yet.

Attached is a plot of Cr in the pore water in SCC-2. The results are from the DI leach method at EES-6 lab. The GEL solid-phase results aren't in yet. Note the results are in ug/g which translates to ug of Cr per gram of water (i.e., ppm). So the concentration in pore water in Tshirege unit 1g at 22 ft is 1329 ppb, and so on.

Let me know if you have any questions.  
-d

At 08:40 AM 9/18/2006, Young, John, NMENV wrote:

>Danny,

>

>Thank you for the update. What has been found at SCC-4? Any elevated  
>moisture so far? Have you received any preliminary Cr data from the  
>core holes as of yet?

>

>Let us know.

>

>Hope you had a good weekend.

>

>john

>

>-----Original Message-----

>From: Danny Katzman [mailto:katzman@lanl.gov]

>Sent: Friday, September 15, 2006 5:40 PM

>To: Young, John, NMENV; Cobrain, Dave, NMENV; Shen, Hai, NMENV

>Subject: Chromium Field Campaign Update - 9-15

>

>Joahn, Hai, Dave-

>Here's the latest update on progress on the chromium field campaign for  
>the period September 1 through September 15, 2006.

>Let me know if you have any questions.

>- Danny

>

>1. Alluvial well SCA-3 was installed in middle Sandia Canyon near  
>corehole SCC-3. The PVC well was installed with a pre-packed well  
>screen with screen slots located between the depths of 27.6 to 32 ft.

>

>2. Alluvial well SCA-4 was installed about 1100 ft downstream of SCA-3  
>in  
>middle Sandia Canyon. The PVC well was installed with a pre-packed  
>screen with screen slots located between the depths of 37 to 41.5 ft.

>

>3. Piezometer set SCP-1 was installed in a single borehole next to  
>SCA-4.

>Three 1-in PVC piezometers were nested in the borehole with pre-packed

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TA 05  
Interim Measure for Chromium, Sandia Canyon, TA-3



>screens located at depths of 37.8 to 38.3 ft, 39.4 to 39.9 ft and 41.2  
>to  
>41.7 ft, respectively.  
>  
>4. Piezometer set SCP-2 was installed in two separate boreholes next  
>to  
>  
>SCA-3. Two 1-in PVC piezometers with pre-packed screens were set at  
>depths of 49.5 to 50 ft and 44 to 45.5 ft, respectively.  
>  
>5. Corehole SCC-2, which had reached a total depth of 388.6 ft during  
>the  
>previous report period, was plugged and abandoned after running  
>borehole  
>  
>gamma and induction logs and the collection of water screening samples  
>from a low-producing perched zone per agreement with NMED.  
>  
>6. Corehole SCC-3, located 730 ft east of SCC-2, reached a total depth  
>of  
>344 ft in the top of Cerros del Rio basalt. Core samples were collected  
>at a nominal sample interval of 20 ft for anions, metals, and cations  
>and at an interval of 40 ft for tritium. Screening water samples were  
>collected  
>  
>from a low-producing perched zone located above the Cerros del Rio  
>basalt.  
>SCC-3 was plugged and abandoned after running borehole gamma and  
>induction logs per agreement with NMED.  
>  
>7. Corehole SCC-4, located 150 ft east of SCC-3, is currently at a  
>depth  
>of 103 ft. SCC-4 targets a subsurface zone of elevated electrical  
>conductivity (possibly indicating higher moisture) identified by a  
>surface-based direct-current resistivity survey conducted along the  
>Sandia Canyon stream channel in 2005 (see p. 28 in the Chromium work  
>plan).  
>SCC-4  
>is paired with recently completed corehole SCC-3 that targeted an  
>adjacent zone of low electrical conductivity. Core samples are being  
>collected at  
>  
>intervals of 20 ft for anions, metals, and cations and at intervals of  
>40 ft for tritium. The target depth for SCC-4 is the top of the Cerros  
>del Rio basalt which is expected to occur at a depth of about 325 ft.  
>  
>  
>Danny Katzman  
>Canyons Project Team Leader  
>EES-9/ENV-Remediation Services  
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>5-4747 (fax)  
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Danny Katzman  
Canyons Project Team Leader

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# Total Dissolved Chromium Concentrations in Pore Water and Gravimetric Moisture Content in Core from Corehole SCC-2, Sandia Canyon

