HLWYM HEmails

From: Miriam Juckett
Sent: Friday, June 30, 2006 4:51 PM
To: Zell Peterman/YM/RWDOE
Subject: RE: USGS dust sample request

Thanks so much! This is quite helpful. I likely will request some of those samples you mentioned. I attempted to gather some atmospheric samples last year and it conveniently rained during my trip, rather cleanly removing all dust from the air. Such is science, I suppose.

I am currently looking at the geochemistry of some of the soluble fractions of samples you sent, and also hope to present results at the MRS conference. Will look forward to seeing you there!

Cheers, and happy 4th of July weekend!

Miriam

Miriam Juckett, Research Scientist
Southwest Research Institute
Center for Nuclear Waste Regulatory Analyses 6220 Culebra Road, San Antonio, TX 78238
Email: mjuckett@swri.org
Office: (210)522-3266

-----Original Message-----
From: Zell Peterman/YM/RWDOE [mailto:Zell_Peterman@ymp.gov]
Sent: Friday, June 30, 2006 3:42 PM
To: mjuckett@cnwra.swri.edu
Subject: RE: USGS dust sample request

Hi Miriam: Nice to hear from you again. The numbers are the locations given in an engineering notation of distance along the tunnel. In this designation, the first number indicates hundreds of meters and the second indicates meters less than a hundred meters. So the designation 8+61 indicates a location 861 meters along the tunnel from a reference point at the north portal. Virtually all of our samples from the tunnel (dust, rock, fractures minerals) are located using this designation.

BSC has a cyclone running at the south portal to collect dust samples (usually less than a gram per month). We have analyzed the soluble components from a couple so far, and they contain much more salts than the surface samples that we sent you. If you are interested in doing analyses of any of these, I'm sure that you could request samples through the proper channels.

I had prepared a report on the geochemistry of natural materials in the near field environment for the International High-Level Radioactive Waste Symposium, but it did not receive approval by the DOE in time for the presentation in April. I've attached a copy as it summarizes the geochemistry of the various dust collections. I hope to present it at the Materials Research Symposium in Boston in November.

(See attached file: Peterman_2006 IHLRWM _DOE Review Draft_03-29-06.doc)

Miriam Juckett <mjuckett@cnwra.swri.edu> on 06/30/2006 11:22:16 AM

Please respond to mjuckett@cnwra.swri.edu

To: "'Zell Peterman/YM/RWDOE'" <Zell_Peterman@ymp.gov>
cc:
Subject: RE: USGS dust sample request
LSN: Not Relevant - Not Privileged
User Filed as: Excl/AdminMgmt-14-4/QA:N/A

Hi Zell-

This is Miriam from the CNWRA. It's been a while since you sent me these samples, but I am still doing work on them. I was wondering if you could clarify what the numbers listed below by the ESF samples indicate (8+61 to
8+62.7) etc.

Hope all is well with you. Thanks for your time!

Miriam Juckett, Research Scientist
Southwest Research Institute
Center for Nuclear Waste Regulatory Analyses 6220 Culebra Road, San Antonio, TX 78238
Email: mjuckett@swri.org
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-----Original Message-----
From: Zell Peterman/YM/RWDOE [mailto:Zell_Peterman@ymp.gov]
Sent: Friday, December 17, 2004 4:32 PM
To: mjuckett@cnwra.swri.edu
Cc: Carol Hanlon/YD/RWDOE; Cliff Howard/YM/RWDOE
Subject: RE: USGS dust sample request

Hi Miriam: We just completed analyses of some of our surface dust samples and was very surprised to see that the soluble salt contents are unusually low. The two surface samples that we sent you have soluble salt contents (wt percent) of 0.024 and 0.026 percent, respectively. The estimated salt contents that I mentioned to you were based on reported values for dust from pan collectors that also collect precipitation. We can only conclude that when the dust accumulates on rock surfaces or soil, the soluble salts are leached out. BSC will be installing units that will collect only dryfall so we will then be able to measure the actual soluble salt contents excuding rainwater salts. If you need more subsurface samples, just let us know.
---------- Forwarded by Zell Peterman/YM/RWDOE on 12/17/2004
03:23 PM ----------

Miriam Juckett <mjuckett@cnwra.swri.edu> on 12/02/2004 01:21:16 PM

Please respond to mjuckett@cnwra.swri.edu

To: "'Connie Sorell/YM/RWDOE'" <Connie_Sorell@notes.ymp.gov>
cc: "'Carol Hanlon/YD/RWDOE'" <Carol_Hanlon@notes.ymp.gov>, "'Zell Peterman/YM/RWDOE'" <Zell_Peterman@ymp.gov>
Subject: RE: USGS dust sample request
User Filed as: Not Categorized in ERMS

I received the samples today.
Thank you very much.

Miriam Juckett, Scientist
Southwest Research Institute
Center for Nuclear Waste Regulatory Analyses 6220 Culebra Road, San Antonio, TX 78238
Email: mjuckett@swri.org
Office: (210)522-3266

-----Original Message-----
From: Connie Sorell/YM/RWDOE [mailto:Connie_Sorell@notes.ymp.gov]
Sent: Wednesday, December 01, 2004 3:26 PM
To: miriam.juckett@swri.org
Cc: Carol Hanlon/YD/RWDOE; Zell Peterman/YM/RWDOE
Subject: USGS dust sample request

Dear Ms. Juckett,
Per Zell Peterman's request, 4 bulk dust samples were shipped to you via FedEx.

Samples sent on 12/01/2004:

SPC00574982	10.5 grams, unsized, ESF 8+61 to 8+62.7
SPC00574983	10.5 grams, unsized, ESF 12+63.2 to 12.65A
SPC01030803	11.0 grams, unsized, surface sample
SPC01030805	10.3 grams, unsized, surface sample

No bulk dust samples are available from the Cross Drift.

Please acknowledge receipt of these samples upon delivery.

Regards,
Connie Sorell
PST, Environmental Science Team
EST/USGS

Hearing Identifier: HLW_YuccaMountain_Hold_EX
Email Number: 957

Mail Envelope Properties (mjuckett@cnwra.swri.edu20060630165000)

Subject: RE: USGS dust sample request
Sent Date: 6/30/2006 4:50:31 PM
Received Date: 6/30/2006 4:50:00 PM
From: Miriam Juckett

Created By: mjuckett@cnwra.swri.edu

Recipients:
"Zell Peterman/YM/RWDOE" <Zell_Peterman@ymp.gov>
Tracking Status: None

Post Office:

Files	**Size**	**Date & Time**
MESSAGE	5805	6/30/2006 4:50:00 PM

Options
Priority: Standard
Return Notification: No
Reply Requested: No
Sensitivity: Normal
Expiration Date:
Recipients Received: