

From: Peecook, Keith M. (GRC-QD00) [keith.m.peecook@nasa.gov]
Sent: Wednesday, January 06, 2010 2:12 PM
To: Glenn, Chad
Cc: Thomas, John A. (GRC-QD00)[Science Application International Corp.]; Case, Roderick C. (GRC-QD00)[SAIC]; Kolb, Peter C. (GRC-QS00); Stoner, William G. (GRC-QD00)[SAIC]; Kurian, Varughese; Webb, James; Pinkston, Karen; Guo, Lifeng
Subject: RE: Revised Plum Brook Remediation Approach memo
Attachments: PB correspondance.ppt; 298NaI-Cs137plotRDH3BAP1.xls

Chad,

Thank you for your response to our proposed Remediation Approach for Plum Brook. The suggestion you have given us for providing information that shows the past correlation between instrument readings in the field and results in the lab is easy to respond to as we already have that data. Please see the attached documents for the basis of using 300 cpm on the NaI detectors as our action level (corresponds to 3.5 pCi/gm Cs-137 in soil). A similar, confirmatory effort will be written into the procedure for the lower meander section.

If there are questions or issues with this response we can discuss them at tomorrow's telecon, or at some future date.

Thanks,

Keith

From: Glenn, Chad [mailto:Chad.Glenn@nrc.gov]
Sent: Wednesday, December 23, 2009 9:45 AM
To: Peecook, Keith M. (GRC-QD00)
Cc: Thomas, John A. (GRC-QD00)[Science Application International Corp.]; Case, Roderick C. (GRC-QD00)[SAIC]; Kolb, Peter C. (GRC-QS00); Stoner, William G. (GRC-QD00)[SAIC]; Kurian, Varughese; Webb, James; Pinkston, Karen; Guo, Lifeng
Subject: RE: Revised Plum Brook Remediation Approach memo

Keith,

NASA's revised Plum Brook Remediation Approach appears reasonable. We offer one additional suggestion for your consideration since ALARA is integral to the radiological criteria for unrestricted use.

Based on NASA's proposed approach, this remediation activity will employ the same detectors (Ludlum Model 2350-1 with 44-10 sodium iodide detector, and a gamma-spectrum window set to focus of Cs-137 activity or an equivalent) used during characterization surveys to locate (via know GPS coordinates) and remove elevated spots (spots above 13.34 pCi/g). Also, for the Lower Meander section which was not previously fully characterized, NASA will perform a 100% survey of the bank area, and will mark areas above the Remediation Action Limit. The location of these areas and the preremediation cpm readings will be noted (including GPS coordinates) and marked, and remediation will take place as in other areas.

Suggestion for NASA Consideration:

Since NASA remediation approach relies on detectors from previous characterization (and approach does not discuss new sampling), to identify elevated spots for removal, suggest that NASA consider providing information with the documentation of this activity (e.g., via plot/diagram, other) showing: (1) how past scan data (cpm) correlates with past sampling data (pCi/g), and (2) how scan results in Section 2 (Lower Meander section which was not previously fully characterized) correlate with scan results and sediment sample results from previous characterization. NASA could also choose to take additional samples in Section 2 to further validate this correlation.

Thanks,
Chad

From: Peecook, Keith M. (GRC-QD00) [mailto:keith.m.peecook@nasa.gov]

Sent: Wednesday, December 09, 2009 8:51 AM

To: Glenn, Chad

Cc: Thomas, John A. (GRC-QD00)[Science Application International Corp.]; Case, Roderick C. (GRC-QD00)[SAIC]; Kolb, Peter C. (GRC-QS00); Stoner, William G. (GRC-QD00)[SAIC]

Subject: Revised Plum Brook Remediation Approach memo

Chad,

I discovered one error in the memo I sent yesterday. It had to do with the background level in the area, which appears early in the first paragraph. The rest of the memo is the same, and a copy is attached. Sorry for any confusion.

Thanks,

Keith

E-mail Properties

Mail Envelope Properties (AB4ED7B1474A374AACAB23B38B104A99047748F3D9)

Subject: RE: Revised Plum Brook Remediation Approach memo

Sent Date: 1/6/2010 2:11:59 PM

Received Date: 1/6/2010 2:11:59 PM

From: Peecook, Keith M. (GRC-QD00)

Created By: keith.m.peecook@nasa.gov

Recipients:

Chad.Glenn@nrc.gov (Glenn, Chad)

Tracking Status: None

john.a.thomas@nasa.gov (Thomas, John A. (GRC-QD00)[Science Application International Corp.])

Tracking Status: None

roderick.c.case@nasa.gov (Case, Roderick C. (GRC-QD00)[SAIC])

Tracking Status: None

peter.c.kolb@nasa.gov (Kolb, Peter C. (GRC-QS00))

Tracking Status: None

william.g.stoner@nasa.gov (Stoner, William G. (GRC-QD00)[SAIC])

Tracking Status: None

Varughese.Kurian@nrc.gov (Kurian, Varughese)

Tracking Status: None

James.Webb@nrc.gov (Webb, James)

Tracking Status: None

Karen.Pinkston@nrc.gov (Pinkston, Karen)

Tracking Status: None

Lifeng.Guo@nrc.gov (Guo, Lifeng)

Tracking Status: None

Post Office:

NDJSSCC05.ndc.nasa.gov

Files	Size	Date & Time
MESSAGE	172205	1/6/2010
PB correspondance.ppt	110394	
298NaI-Cs137plotRDH3BAP1.xls	37708	

Options

Expiration Date:

Priority: olImportanceNormal

ReplyRequested: False

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