

Meeting Notes
Future Waste Residual Sampling for Waste Release (Leaching) Tests

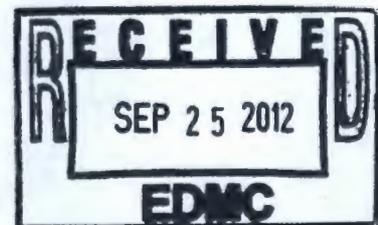
Date: Friday, August 24, 2012
Location: 2440 Stevens, room 2664

Purpose: Discuss future waste residual sampling that may be required to perform waste release studies (also called leaching tests). This meeting was requested during a TPA Project Manager's Meeting.

Attendees: Mike Barnes (Ecology), Chris Kemp (ORP), Mark Triplett (PNNL), Susan Eberlein (Washington River Protection Solutions – WRPS), Duc Nguyen (WRPS)

The following topics were discussed:

- Retrieval of several tanks in 241-C-Farm will be completing in the coming months. If waste release tests on the residuals in any of those tanks are required, appropriate samples must be obtained.
- For purposes of future risk modeling, tanks C-105, C-107 and C-112 residuals may be important, since those tanks are expected to have the highest residual content of mobile risk contributors such as Tc.
- It was recommended that the post-retrieval sampling on all these tanks obtain enough sample material to perform the waste release tests if needed. A decision on which tests to perform was deferred, pending retrieval completion for each tank.
- Duc Nguyen confirmed that the sample and analysis plans that guide post-retrieval sampling request that sufficient material be obtained to support waste release tests if needed.
- Mike Barnes indicated that potential high Pu concentration in the C-104 residual was of interest. Questions have been raised about the potential for organic complexants to combine with Pu to make the Pu more mobile in the soil.
- It was recommended that the C-104 residuals be tested for Pu and organic complexant concentrations. Based on the results of those analyses, a future decision will be made regarding the need for waste release testing.
- Mike Barnes indicated that if any tank still retained a large volume of waste following deployment of 3 retrieval technologies, waste release tests on the residuals may be warranted to better understand future risk for closure. In particular, this question may apply to C-102 and C-111.
- It was recommended that the need for waste release testing for these tanks be revisited as retrieval progresses.
- Waste release tests have already been performed on the samples obtained from C-108 after bulk retrieval, but before hard heel retrieval. It was agreed by all that additional waste release tests on C-108 residuals was not required.



- It was agreed that the group should reconvene to review results of C-104 and/or C-107 sample analysis to make decisions on whether waste release testing was needed for either of those tanks.

Action Items:

- Reactivate the organic complexant analysis method at the 222-S laboratory for application to C-104 residual samples. (Nguyen)
- Request a follow-up meeting when sample analysis results are available for residuals from tanks C-104 and/or C-107. (Kemp)

Concurrence:

CJK 9-25-12

C.J. Kemp, ORP

Date

M.W. Barnes 9-25-12

M.W. Barnes, Ecology

Date