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Results for the First Quarter 2012 Tank 50 WAC Slurry Sample: Tc-99

Technical Reviewer: *M. M. Reigel* 5-1-12
M. M. Reigel, Engineering Process Development Date

Approval: *K. M. Fox* 5-1-12
K. M. Fox, Manager, Engineering Process Development Date

Summary

In this memorandum, partial results from the characterization of the 2012 First Quarter sampling of Tank 50H for the Saltstone Waste Acceptance Criteria (WAC)¹ are presented for the radionuclide Tc-99. The information from this characterization will be used to support the transfer of waste from Tank 50H to the Saltstone Production Facility for treatment and ultimate disposal at the Saltstone Disposal Facility.

The SRR Engineering customer requested expedited transmittal of this result for Tc-99. In this memorandum, the result is presented exactly as it will appear in the final report. Table 1 provides the Tc-99 value determined in the 1Q12 Tank 50H Slurry Sample.

Table 1. Result for the First Quarter 2012 Tank 50H Slurry Sample for Tc-99 as Listed in Attachment 8.3 of the Saltstone WAC, Revision 10.

| Analyte | 1Q12 Result (pCi/mL) [%RSD] |
|---------|-----------------------------|
| Tc-99 | 2.67E+04 [6.9] |

¹ Chiu, C. K., "Waste Acceptance Criteria for Aqueous Waste Sent to the Z-Area Saltstone Production Facility (U)", X-SD-Z-00001, Revision 10, April 2011.

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