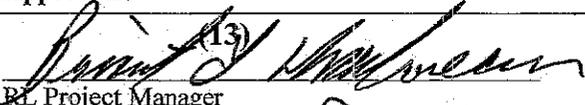
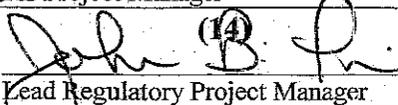




**Change Notice for Modifying Approved Documents/ Workplans
In Accordance with the Tri-Party Agreement Action Plan,
Section 9.0, Documentation and Records**

Change Number	Document Submitted Under Tri-Party Agreement Milestone	Date:	
TPA-CN-166(1)	N/A (2)	06/11/2007	
Document Number and Title: DOE/RL-2006-34 SAMPLING & ANALYSIS PLAN FOR THE 241-U-361 SETTLING TANK (4)		Date Document Last Issued: (5) 08/15/2006	
Originator: (6) Kevin Leary	Phone: (7) (509) 373-7285		
Description of Change:			
<p><u>Briant Charboneau</u> and <u>John Price</u> agree that the proposed change modifies an approved RL (8) Lead Regulatory Agency (9) workplan/document and will be processed in accordance with the Tri-Party Agreement Action Plan, Section 9.0, <i>Documentation and Records</i>, and not Chapter 12.0, <i>Changes to the Agreement</i>.</p> <p align="center">(10)</p> <p>Section 3.1.5, pg. 3-4 will be deleted (Initial alpha analysis),</p> <p>Section 3.1.6, pg. 3-5 will add a sentence that states: Total alpha analysis will be performed on both the liquid and solid composites.</p> <p>Figure 3-1, pg. 3-3 will be updated to delete the total alpha separate pathway.</p>			
Note: Include affected page number (11)			
Justification and Impacts of Change:			
(12)			
See attached write-up			
<div style="border: 2px solid black; padding: 5px; display: inline-block;"> <p align="center">RECEIVED JUN 25 2007 EDMC</p> </div>			
Approvals:			
 RL Project Manager (13)	6/21/07 Date	<input checked="" type="checkbox"/> Approved	<input type="checkbox"/> Disapproved
 Lead Regulatory Project Manager (14)	6/18/07 Date	<input checked="" type="checkbox"/> Approved	<input type="checkbox"/> Disapproved

REQUEST FOR REVISION

Sampling and Analysis Plan for the 241-U-361 Settling Tank within the 200-UW-1 Operable Unit

DESCRIPTION OF THE PROPOSED MODIFICATION

This document proposes a change to the 241-U-361 Sampling and Analysis Plan (DOE/RL-2006-34, Rev 0) to modify the requirement for total alpha samples on each and every stratum found within the tank core samples.

This requirement is clearly a remnant from the 241-Z-361 SAP and, while relevant and appropriate for the Z tank, is of limited use for the U-361 sludge characterization. This issue was raised during recent discussions with the analytical laboratory when it was discovered that the cost of the individual stratum total alpha analyses was estimated at nearly \$150,000 and over 25% of the total analytical cost.

FH proposes to replace the requirement for individual alpha analyses with total alpha analyses on the sludge composite and duplicate composite, and each of the supernate samples. This would accomplish the DQO data analysis requirements (Step 2), Problem Statements, Required Information (Step 3), and Decision Rules (Step 5) in a much more efficient and cost-effective manner.

DOCUMENT REFERENCES

Current 241-U-361 SAP language:

3.1.5 Initial Alpha Analyses

Two subsamples from each stratum will be collected for total alpha analysis. However, if nondestructive analyses are used to identify the horizontal strata that contain transuranic isotopes in concentrations greater than 100nCi/g, only those strata will be samples for total alpha analyses, for confirmation purposes. The total alpha analysis result will be used to verify whether isotopes are present in concentrations greater than 100nCi/g. This information also will be used to guide compositing of the strata for subsequent radiological and nonradiological analyses.

This language is identical to the language in section 7.2.4 *Initial Alpha Analyses* from the *Data Quality Objectives Summary Report for the 241-U-361 Settling Tank (D&D-29702, Rev. 1)*.

This is also very similar to language found in the *241-Z-361 Sludge Characterization Sampling and Analysis Plan, Rev. 1*.

1.9.3 Initial Alpha, Tank Headpace, and Volatile Analyses of Sludge and Supernate

Two subsamples from each stratum established for two cores will be collected for total alpha analysis. The total alpha result will be used to determine whether significant TRU material exists in any given stratum and to answer the USQ (Wagoner 1997). The information will also be used to guide compositing of the visual strata for subsequent additional radiological and non-radiological analyses. For planning purposes, four strata from each segment are assumed, with five segments per core for two cores and two total alpha analyses per stratum, for a total of 80 samples.

JUSTIFICATION FOR THE MODIFICATION

Unlike the Z-361 Tank, the U-361 tank does not need to answer any USQ relative to TRU content, and will not use the total alpha results for compositing. The only value of the total alpha results would be to determine whether significant TRU material exists in any given stratum. This is not a requirement of any data need described in the U-361 DQO data analysis requirements (Step 2), Problem Statements or Required Information (Step 3), or Decision Rules (Step 5). Reduction of stratum-specific total alpha with composite-specific total alpha will satisfy all waste characterization requirements for sludge disposal at ERDF. Furthermore, unlike the Z-361 tank, which was nearly certain to contain large amounts of transuranics, the U-361 tank history argues against any significant transuranic content.

The expenditure of nearly \$150,000 for total alpha analyses on each stratum is not justified by the interest in stratum-level content. The U-361 tank contents will not be removed stratum-by-stratum, nor will they be presented to ERDF for disposal on a stratum-by-stratum basis. Characterization of the material as a composite core provides much more applicable information.