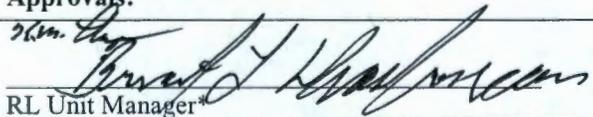
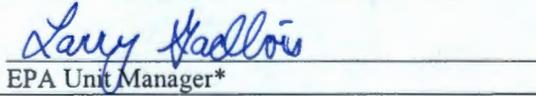




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In Accordance with the Tri-Party Agreement Action Plan,
Section 9.0, Documentation and Records**

Change Number	Document Submitted Under Tri-Party Agreement Milestone	Date:		
TPA-CN-352	NA	May 3, 2010		
Document Number and Title: DOE/RL-2009-45, Rev. 0: 300 Area Remedial Investigation/Feasibility Study Sampling and Analysis Plan for the 300-FF-1, 300-FF-2, and 300-FF-5 Operable Units		Date Document Last Issued: April 8, 2010		
Originator: Richard P. Wells		Phone: 372-9495		
Description of Change: See individual changes below.				
Justification and Impacts of Change: Clarifies 300 Area RIFS Sampling Approach to minimize negative impacts in the field.				
Approvals:				
 RL Unit Manager*	5-19-10 Date	<input checked="" type="checkbox"/> Approved	<input type="checkbox"/> Disapproved	
 EPA Unit Manager*	5-19-2010 Date	<input checked="" type="checkbox"/> Approved	<input type="checkbox"/> Disapproved	
NA Ecology Unit Manager*	_____ Date	<input type="checkbox"/> Approved	<input type="checkbox"/> Disapproved	

RECEIVED
MAY 21 2010
EDMC

Thompson, K M (Mike)

From: Gadbois.Larry@epamail.epa.gov
Sent: Wednesday, May 19, 2010 7:26 AM
To: Thompson, K M (Mike)
Cc: Charboneau, Briant L
Subject: Re: TPA CN with comment addressed

Looks good Mike. Thanks.

--Larry--

From: "Thompson, K M (Mike)" <K_M_Mike_Thompson@RL.gov>
To: Larry Gadbois/R10/USEPA/US@EPA
Date: 05/19/2010 07:20 AM
Subject: TPA CN with comment addressed

Larry, Attached is the TPA change request we discussed at the last 300 Area meeting as altered to incorporate your requested change. See list item 5, end of the listing where the contractor added text that prioritizes VOCs at the three boreholes where VOCs are potentially present. That's the only change made to the draft you reviewed.

Please let me know if other changes are recommended. In the interim I am searching-out the project director for signature.

[attachment "TPA CHANGE FORM 05-03-2010_rpw (2).doc" deleted by Larry Gadbois/R10/USEPA/US]



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Originator: Richard P. Wells		Phone: 372-9495
Description of Change: See individual changes below.		
<p>1. To clarify wells listed in Table 1-1 with locations shown on Figure 1-1, number the well locations as follows:</p> <ul style="list-style-type: none"> 1 – C7657 (399-1-58) 2 – C7658 (399-6-3) 3 – C7659 (399-1-59) 4 – C7661 (399-6-4) 5 – C7662 (399-4-15) 6 – C7656 (399-1-57) 7 – C7663 (399-3-33) 8 – C7653 (399-1-54) 9 – C7654 (399-1-55) 10 – C7655 (399-1-56) 11 – C7660 (399-2-32) <p>2. Page 2-9, Table 2-2. Add analytical performance requirements for pH and field screening (gross alpha, gross beta, and gross gamma). Chloride, fluoride, nitrate, nitrite, total carbon, inorganic, carbon, and calcium carbonate equivalent analyses shall be considered laboratory measurements rather than physical properties.</p> <p><u>Performance Requirements for Field Measurements</u></p> <p>Gross gamma Quantitation Limit = 10 pCi/g PRGs – N/A Analytical Method – portable sodium iodide detector Precision Requirement – ≤50%</p> <p>Gross alpha Quantitation Limit = 100 dpm/100 cm² PRGs – N/A Analytical Method – portable contamination detector Precision Requirement – ≤50%</p> <p>Gross beta Quantitation Limit = 5,000 dpm/100 cm² PRGs – N/A Analytical Method – portable contamination detector Precision Requirement – ≤50%</p> <p><u>Performance Requirements for Laboratory Measurements (nonradiological)</u></p> <p>pH CAS – N/A Quantitation Limit = 0.5 pH unit PRGs – N/A Analytical Method – EPA 9045 or 160.1 Precision Requirement – ≤30%</p>		



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Originator: Richard P. Wells		Phone: 372-9495
Description of Change: See individual changes below.		
<p>3. Section 3.5.1, Page 3-4, 2nd full paragraph on page, Change as follows:</p> <p>The scope of vadose zone characterization efforts includes field screening, collecting and analyzing soil samples from the vadose zone, collecting and analyzing aquifer sediment, performing groundwater sampling and analysis, and performing geophysical logging. The sampling frequency will be continuous from 3.1 m (10 ft) above and below the predicted historically high vadose zone-groundwater interface and at 2.5 ft intervals thereafter. Soil/aquifer sediment, and water samples will be collected based on observations made in the field. The estimated depth from ground surface to the historically high vadose zone-groundwater interface for the wells are as follows:</p> <ul style="list-style-type: none"> • C7657 – 38.9 ft • C7658 – 35.7 ft • C7659 – To be determined • C7661 – 35.7 ft • C7662 – 42.5 ft • C7656 – 20.8 ft • C7663 – 33.1 ft • C7653 – 20.0 ft • C7654 – 20.1 ft • C7655 – 20.7 ft • C7660 – 23.4 ft <p>4. Throughout Table 3-2:</p> <ul style="list-style-type: none"> • Insert collection of moisture content samples is not required for sediments collected in the saturated zone. • Change collection of samples in major formation and lithology changes shall be by split spoon rather than grab. • Add note to sample intervals that the sampling intervals are approximate and actual intervals will be based on continuous sampling as defined in Section 3.5.1. <p>5. Section 3.6, Page 3-21, Sentence 2, and Bullet 1. Revise to read: Vadose zone samples shall be collected according to the following priority:</p> <ul style="list-style-type: none"> • PNNL sequential leach test • Isotopic uranium, isotopic plutonium, and tritium • Special extraction ASTM D3987 (WCH batch leach test) • Metals and mercury (use 120 mL bottle if necessary for minimum volume) • Gamma spectrometry and Tc-99 • PCBs (use 120 mL bottle if necessary for minimum volume) • PAHs (use 120 mL bottle if necessary for minimum volume) • SVOCs (use 120 mL bottle if necessary for minimum volume) • Anions, nitrate/nitrite, TIC, TC, and pH • VOCs, including ethyl acetate if applicable 		



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Originator: Richard P. Wells		Phone: 372-9495
Description of Change: See individual changes below.		
<ul style="list-style-type: none"> • Bulk density, moisture content, and particle size • Geologic archive. <p>Aquifer sediments (below water table) will be collected according to the following priority:</p> <ul style="list-style-type: none"> • PNNL sequential leach test • Radionuclides • Metals and mercury • VOCs, including ethyl acetate if applicable • Anions, TIC, and TC • Bulk density and particle size • Geologic archive. <p>The exception to this priority shall be in boreholes 6 – C7656 (399-1-57), 8 – C7653 (399-1-54), and 9 – C7654 (399-1-55) where VOCs are suspected. VOCs, including ethyl acetate if applicable shall be the first priority, with other analytes following in their respective order.</p> <p>6. Page 3-23, Table 3-5. Delete alkalinity and PNNL specific test from the table. Insert requirements for particle size (ASTM D422) and ASTM D3987 batch leach test.</p> <p><u>Table 3-5. Sample Preservation, Container, and Holding Time for Soil/Aquifer Sediment Samples</u></p> <p>Particle Size Method – ASTM D422 Preservation Requirement – None Holding Time – N/A Bottle Type – G/P Minimum Sample Size – 500 g</p> <p>Batch Leach Test Method – ASTM D3987 Preservation Requirement – None Holding Time – 6 mos Bottle Type – G/P Minimum Sample Size – 1000 g</p>		