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Tri-Party Agreement

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-271	N/A	April 28, 2009

Document Number and Title: Treatability Test Plan Addendum for the 100-NR-2 Groundwater Operable Unit, DOE/RL-2005-96 Addendum	**Date Document Last Issued:** May 8, 2008
Originator: Bill Barrett/John Winterhalder	**Phone:** 373-3985/373-2522

Description of Change: This change updates the performance monitoring requirements for the existing NR-2 Strontium 90 barrier.

B Charboneau (**RL**) and J Price (**Lead Regulatory Agency**) agree that the proposed change modifies an approved workplan/document and will be processed in accordance with the Tri-Party Agreement Action Plan, Section 9.0, *Documentation and Records*, and not Chapter 12.0, *Changes to the Agreement.*

Justification and Impacts of Change:

The performance of the existing100-NR-2 Strontium-90 barrier can be evaluated with a reduction of sampling.

Approvals:

John L. Morris, acting DOE-RL	4/30/09 Date	✓ Approved	__ Disapproved	
John B. Price Ecology	5-12-2009 Date	✓ Approved	__ Disapproved	

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Changes within section 3.3:

3.3 Performance Monitoring Sampling and Analysis

~~Bi-monthly monitoring of barrier wells, pilot-test monitoring wells, and compliance wells for 2 years following barrier emplacement. Analyze for all analytes. Continued monitoring needs determined after 2 years.~~

~~Analytes → major cations, anions, gross beta, periodic sample splits for Sr-90 analyses~~

Performance monitoring will be conducted for 2 years starting in July of 2008 as described below:

Performance Monitoring Sample Locations:

4 Monitoring wells: 199-N-122, 199-N-123, 199-N-146, 199-N-147
199-N-128, 199-N-129 - Hanford/Ringold pair - Pilot Test 1 site
199-N-132, 199-N-133 - Hanford/Ringold pair - Pilot Test 1 site
199-N-142, 199-N-164 - Hanford/Ringold pair - Mid-point upper barrier
199-N-145, 199-N-160 - Hanford/Ringold pair - Mid-point lower barrier
199-N-148, 199-N-149 - Hanford/Ringold pair - Pilot Test 2 site
199-N-150, 199-N-151 - Hanford/Ringold pair - Pilot Test 2 site
199-N-155, 199-N-156 - Hanford/Ringold pair - Pilot Test 2 site

Monitoring Frequency - Quarterly (tentatively scheduled February, May, August and November)

Analytes - Field parameters to include (1) pH and temperature, (2) specific conductance, (3) dissolved oxygen, and (4) ORP

- Gross Beta
- Periodic Strontium-90 splits (verification for gross beta results)

Changes within section 5.0:

Table 3-3 Wells sampled during pre-injection, and injection ~~and performance monitoring~~. See section 3.3 for performance monitoring. Field test instructions will specify monitoring requirements during injection operations.

Barrier Wells	Compliance Wells	Other Monitoring Wells	Aquifer Tubes
N-136	N-122	N-126 (P1-1R)	APT1 (C5269)
N-137	N-123	N-127 (P1-2H)	APT5 (C5386)
N-138	N-146	N-128 (P1-3R)	Array 2A (C5256)
N-139	N-147	N-129 (P1-4H)	Array 3A (C5257)
N-140		N-130 (P1-5R)	Array 4A (C5258)
N-141		N-131 (P1-6H)	Array 6A (C5259)
N-142		N-132 (P1-7R)	Array 7A (C5260)
N-143		N-133 (P1-8H)	NVP2-116.0 (C5251)
N-144		N-148 (P2-1R)	
N-145		N-149 (P2-2H)	
		N-150 (P2-4H)	
		N-151 (P2-3R)	
		N-152 (P2-9R)	
		N-153 (P2-8H)	
		N-154 (P2-7R)	
		N-155 (P2-6H)	
		N-156 (P2-5R)	