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TRI-PARTY AGREEMENT

Change Notice Number TPA-CN- 588	TPA CHANGE NOTICE FORM	Date: 11/04/13
Document Number, Title, and Revision: DOE/RL-2010-72, Sampling and Analysis Plan for Eighteen Remediation Wells in the 200-ZP-1 Operable Unit, Revision 1. 1217617		Date Document Last Issued: September 2012
Originator: Sally Simmons		Phone: 376-3509

Description of Change:

Add well name (699-49-69) for injection well IW-9 to Table 1-1. Add well 699-49-69 to list of wells in section 3.6, Waste Management, for which no sampling is planned.

Briant Charboneau DOE and Emy Laija EPA 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*.

Table 1-1, Estimated Depth of Each Proposed Extraction and Injection Well, is changed to add the well name (699-49-69) for injection well IW-9.

With respect to management of waste associated with drilling, well 699-49-69 is added to the list of wells for which no sampling is planned.

These changes are found on pages 1-7 and 3-11, respectively. Deleted text is shown in single line strike through and added text is shown in double underline. The affected pages are attached.

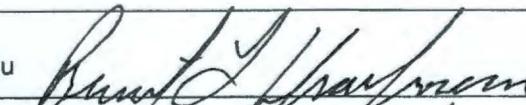
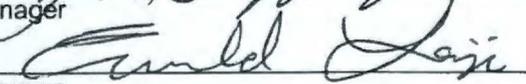
Note: Include affected page number(s)

Justification and Impacts of Change:

The well name (699-49-69) was not included for injection well IW-9 in Table 1-1 when DOE/RL-2010-72, Sampling and Analysis Plan for Eighteen Remediation Wells in the 200-ZP-1 Operable Unit, Revision 1, was issued.

Vadose zone soils and related waste are expected to be uncontaminated because no waste disposal sites or unplanned releases are identified within 100 meters of well 699-49-69.

Approvals:

B. L. Charboneau		<u>11-4-2013</u>	<input checked="" type="checkbox"/> Approved <input type="checkbox"/> Disapproved
DOE Project Manager		Date	
E. Laija		<u>11/4/13</u>	<input checked="" type="checkbox"/> Approved <input type="checkbox"/> Disapproved
EPA Project Manager		Date	
N/A			<input type="checkbox"/> Approved <input type="checkbox"/> Disapproved
Ecology Project Manager		Date	

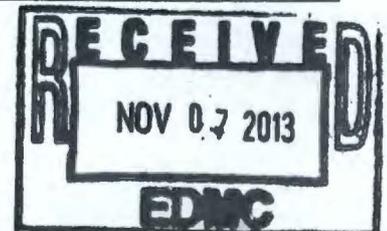


Table 1-1. Estimated Depth of Each Proposed Extraction and Injection Well

Well Name	Extraction/ Injection Well	Estimated Depth to Water (ft bgs)	Estimated Depth to Upper Caliche (ft bgs)	Estimated Depth to Upper Ringold Unit (ft bgs)	Estimated Depth to Ringold Unit E (ft bgs)	Estimated Depth to Ringold Lower Mud (ft bgs)	Estimated Depth to Basalt (ft bgs)
299-W6-13	IW-1	266	56	69	108	416	450
299-W6-14	IW-2	250	59	NA	95	404	463
299-W10-36	IW-3	242	98	105	131	433	505
299-W15-228	IW-7	232	160	NA	164	456	561
NA	IW-8	225	145	NP	150	446	571
NA <u>699-49-69</u>	IW-9	250	10?	NP	50?	NP	381
699-46-68	IW-10	291	NA	148*	195	302	413
699-44-67	IW-12	312	105	NP	220	335	485
699-42-67	IW-14	321	120	270	280	415	508
699-40-67	IW-15	321	120	270	280	428	518
NA	IW-16	305	200?	NA	266	400	545
699-43-67B	IW-17	320	118	NP	210	351	476
699-45-67B	IW-23	301	61	NP	193	320	442
299-W19-111	EW-11	262	125	138	140	437	549
299-W11-97	EW-13	270	96	NA	117?	NP	491
299-W6-15	EW-14	290	110	NA	157?	NP	491
299-W5-1	EW-17	295	100*	NA	159?	NP	474
299-W14-22	EW-20	300	150	NP	180	428*	530

Sources:

PNNL-13858, *Revised Hydrogeology for the Suprabasalt Aquifer System, 200-West Area and Vicinity, Hanford Site, Washington*, was used to estimate Ringold Unit E outside of the 200 West Area (Plate 7), Ringold lower mud (Plate 5), and top of basalt (Plate 2).

Water levels are estimated from Figure 2.8-2 of DOE/RL-2008-66, *Hanford Site Groundwater Monitoring for Fiscal Year 2008*; March 2008 data.

WHC-SD-EN-TI-014, *Hydrogeologic Model of the 200 West Groundwater Aggregate Area*, was used to estimate the top of the caliche (Figure 2-12), top of upper Ringold (Figure 2-10), and Ringold Unit E (Figure 2-8) in the 200 West Area.

* May not be present.

bgs = below ground surface

EW = extraction well

IW = injection well

NA = not available

NP = not present

? = questionable selection

- 699-46-68
 - 699-44-67
 - 699-42-67
 - 699-40-67
 - 699-43-67B
 - 399-W14-22
- Vadose zone soils and related waste at the following wells are expected to be uncontaminated because no waste disposal sites or unplanned releases are identified within 100 m (328.1 ft) of these wells; therefore, no additional sampling is planned:
 - 299-W15-228
 - 699-45-67B
 - 299-W6-15
 - 299-W5-1
 - 699-49-69
 - Vadose zone soils and related waste at well 299-W19-111 are also expected to be uncontaminated because the nearest waste sites are removed and not expected to pose a subsurface migration risk. These waste sites include a pipeline (200-W-105-PL) that is more than 85 m (278.9 ft) away at its closest point to the proposed drilling location, and two surficial contamination sites more than 40 m (131.2 ft) away. These include UPR-200-W-48 (an area of surface contamination along railroad tracks that is no longer marked or posted) and UPR-200-W-86 (a small, 3 m by 3 m [9.8 ft by 9.8 ft] area around a light pole with no obvious source, but likely came from biological transport such as coyotes or tumbleweeds).
 - Vadose zone soils at injection wells IW-8, ~~IW-9~~, and IW-16 will be addressed in a later revision of this SAP, after their locations have been more narrowly defined.
 - Well 299-W11-97 is located approximately 100 m (328.1 ft) from the 218-W-1A Burial Ground; however, the nature of the waste disposed at this site (e.g., failed equipment and industrial waste) poses little risk of significant lateral migration. Two liquid waste disposal cribs, less than 30 m (98.4 ft) from the proposed drilling location are more significant. These cribs, 216-T-34 and 216-T-35, were used to dispose approximately 22.7 million L (6 million gal) of process effluent from the 340 Facility in the 300 Area. The 216-T-34 and 216-T-35 Cribs are currently managed as part of the 200-WA-1 OU; however, they were previously assigned to the 200-LW-1 OU, which underwent a DQO process that identified the contaminants of potential concern listed in Table 3-3.

Table 3-3. Vadose-Zone Contaminants of Potential Concern at Well 299-W11-97

Radionuclides		
Americium-241	Europium-152/154/155	Radium-226/228
Antimony-125	Hydrogen-3 (tritium)	Strontium-90
Carbon-14	Neptunium-237	Technetium-99
Cesium-134/137	Nickel-63	Thorium-232
Cobalt-60	Plutonium-238/239/240	Uranium-233/234/235/236/238