

Attachment ES-1. Waste Site Reclassification Form.

Date Submitted: <u>12/12/07</u> Originator: <u>L. M. Dittmer</u> Phone: <u>372-9227</u>	WASTE SITE RECLASSIFICATION FORM		Control Number: 2007-032 RECEIVED APR 02 2008 EDMC
	Operable Unit(s): <u>100-BC-2</u>	Waste Site Code: <u>118-B-1</u>	

This form documents agreement among parties listed authorizing classification of the subject unit as Closed Out, Interim Closed Out, No Action, RCRA Postclosure, Rejected, or Consolidated. This form also authorizes backfill of the waste management unit, if appropriate, for Closed Out and Interim Closed Out units. Final removal from the NPL of No Action and Closed Out waste management units will occur at a future date.

Description of current waste site condition:

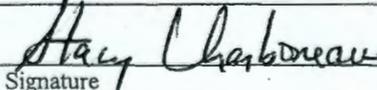
The 118-B-1 Burial Ground was the primary burial ground for general wastes from the operation of the 105-B Reactor and P-10 Tritium Separation Project. Remediation, verification sampling, and RESidual RADioactivity (RESRAD) modeling have been performed in accordance with remedial action objectives and goals established by the *Record of Decision for the 100-BC-1, 100-BC-2, 100-DR-1, 100-DR-2, 100-FR-2, 100-HR-2, and 100-KR-2 Operable Units, Hanford Site (100 Area Burial Grounds), Benton County, Washington* (Burial Ground ROD), U.S. Environmental Protection Agency, Region 10, Seattle, Washington and the October 2007 *Explanation of Significant Difference for the Interim Action Record of Decision for the 100-BC-1, 100-BC-2, 100-DR-1, 100-DR-2, 100-FR-2, 100-HR-2, and 100-KR-2 Operable Units (100 Area Burial Grounds)* (118-B-1 ESD), U.S. Environmental Protection Agency, Region 10, Seattle, Washington. The selected remedy involved (1) excavating the site to the extent required to meet specified soil cleanup levels, (2) disposing of contaminated excavation materials at the Environmental Restoration Disposal Facility at the 200 Area of the Hanford Site or appropriate treatment, storage, and disposal facilities, (3) demonstrating through verification sampling and RESRAD modeling that cleanup goals have been achieved, and (4) proposing the site for reclassification as Interim Closed Out.

Basis for reclassification:

In accordance with this evaluation, the verification sampling and modeling results support a reclassification of this site to Interim Closed Out. The current site conditions achieve the remedial action objectives established in the Burial Ground ROD, as amended by the 118-B-1 ESD. The results show that residual tritium concentrations in the vadose zone beneath the burial ground exceed remedial action objectives for the protection of groundwater. The 118-B-1 ESD assessed balancing factors and concluded that residual tritium contamination should be left in-place with institutional controls to prohibit irrigation, minimizing further mobilization of residual tritium. The results of verification sampling and RESRAD modeling for contaminant concentrations other than tritium do not preclude any future uses (as bounded by the rural-residential scenario). With institutional controls to prevent irrigation, the results also demonstrate that residual contaminant concentrations are protective of groundwater and the Columbia River. The acceptability of direct exposure to residual tritium contamination in the deep vadose zone has not been demonstrated; therefore, institutional controls to prevent uncontrolled drilling or excavation into the deep zone are also required. The basis for reclassification is described in detail in the *Cleanup Verification Package for the 118-B-1, 105-B Solid Waste Burial Ground* (CVP-2007-00006), Washington Closure Hanford, Richland, Washington.

Waste Site Controls:

Engineered Controls: Yes No Institutional Controls: Yes No O&M requirements: Yes No
Deed restrictions to prohibit irrigation and prevent uncontrolled drilling or excavation into the deep zone (greater than 4.6 m [15 ft] below ground surface).

S. L. Charboneau DOE Federal Project Director (printed)	 Signature	<u>12/20/07</u> Date
NA Ecology Project Manager (printed)	Signature	Date
L. Buelow EPA Project Manager (printed)	 Signature	<u>1/9/08</u> Date

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WASTE SITE RECLASSIFICATION FORM		
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Originator: <u>L. M. Dittmer</u>	Waste Site Code: <u>118-B-1</u>	
Phone: <u>372-9227</u>	Type of Reclassification Action:	
	Closed Out <input type="checkbox"/> Interim Closed Out <input checked="" type="checkbox"/> No Action <input type="checkbox"/> RCRA Postclosure <input type="checkbox"/> Rejected <input type="checkbox"/> Consolidated <input type="checkbox"/>	

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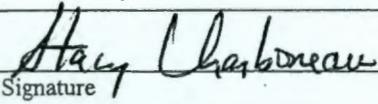
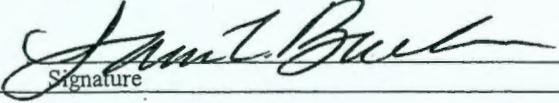
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DOE Federal Project Director (printed)	Signature	Date
NA	Signature	Date
Ecology Project Manager (printed)	Signature	Date
L. Buelow		<u>1/9/08</u>
EPA Project Manager (printed)	Signature	Date