HANFORD FEDERAL FACILITY AGREEMENT AND CONSENT ORDER
INTERAGENCY MANAGEMENT INTEGRATION TEAM (IAMIT)
DECISION / DETERMINATION / ACTION ASSIGNMENT
Number: 2019-004

This form is intended to document the decisions and determinations made by the IAMIT within their authorities under the terms and conditions of the Hanford Federal Facility Agreement and Consent Order. This form is also intended to provide notification, to the affected persons, of the IAMITs decisions / determinations or actions assigned.

SUBJECT Determination: Tri-Party Program Managers agree to maintain the 4.0 mm/year long-term recharge rate for the 200-EA-1 Operable Unit (OU) RFI/RI groundwater protection evaluations, and to perform a sensitivity analysis during the 200-EA-1 OU CMS/FS remedial alternatives evaluations, as described in this determination.

DECISION / DETERMINATION / ACTION ITEM

The purpose of this determination is to confirm agreement among Tri-Party Program Managers from the U.S. Department of Energy, the U.S. Environmental Protection Agency, and the Washington State Department of Ecology to use the Table 3-13 recharge rates (below), including the long-term recharge rate of 4.0 mm/year, to evaluate groundwater protection and to establish preliminary remediation goals for waste sites in the Central Plateau Inner Area.

Table 3-13. Central Plateau Inner Area Native Vegetation Recharge Scenario Phases and Recharge Rates (mm/yr)

	Historic Simulation (through 2014) (Initial Hydraulic Conditions)		Predictive Simulation (from 2015 forward) (Calculation of Peak Groundwater Concentration)		
Surface Soil Type	Pre-Hanford Phase (Before 1944)	Hanford Operations Phase (1944–2014)	Bare Soil Phase (2015–2049)	Young Shrub-Steppe Phase (2050–2079)	Shrub-Steppe Phase (After 2080)
Hanford sand, disturbed	4.0[a]	63.0[b]	63.0[b]	8.0[c]	4.0[d]

Source: PNNL-14702, *Vadose Zone Hydrogeology Data Package for Hanford Assessments.*
a. PNNL-14702, Table 4.15; S (southern 200 West Area), T (northern 200 West Area), and A (southern 200 East Area) areas, shrub-steppe.
b. PNNL-14702, Table 4.15; all areas with soils disturbed by excavations; no vegetation.
c. PNNL-14702, Table 4.15; all areas with soils disturbed by excavations; young shrub-steppe.
d. PNNL-14702, Table 4.15; all areas with soils disturbed by excavations; shrub-steppe.

Note: this table is from the 200-EA-1 OU Work Plan (DOE/RL-2016-58, R0)

Through this determination, the Tri-Party Program Managers also agree the 200-EA-1 OU Work Plan, Rev 0 will describe the process for the sensitivity analysis that is identified as part of the CMS/FS remedial alternatives evaluations. The process will provide guidelines for performing sensitivity analyses to address post-remediation vegetation conditions within a given area. Cumulative Impact Evaluation (CIE) modeling tools will have the ability to explore such sensitivities.

IS THIS DETERMINATION

☒ FINAL ☐ INTERIM (Further action to be taken)

IAMIT MEMBER APPROVALS

W.F. Hamel, DOE-RL — Date 7/11/2019

R.G. Hastings, DOE-ORP — Date 7/16/19

D.R. Einan, EPA — Date 7/17/19

A.K. Smith, Ecology — Date 7/16/19