

**HANFORD FEDERAL FACILITY AGREEMENT AND CONSENT ORDER  
INTERAGENCY MANAGEMENT INTEGRATION TEAM (IAMIT)  
DETERMINATION Number: 2019-005**

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:** (Note the change request number, disputed subject or milestone addressed)

Baseline Risk Assessment (BRA) for Waste Management Area C (WMA C) - Hazard Index (HI)

**DETERMINATION:**

On May 8, 2019, the U.S. Department of Energy (DOE), U.S. Environmental Protection Agency (EPA), and Washington State Department of Ecology (Ecology) agreed to document that DOE will:

- Continue to use the HI segregation process recommended in US EPA guidance (Risk Assessment Guidance for Superfund, or RAGS, part A) and documented in WMA C BRA and 100-D/H, 100-F/IU, 300 Area, and all 200 Area Groundwater OU RI/FS decision documents. This approach is summarized as follows:
  - Toxicity values are determined using the following hierarchy:
    - Tier 1—The EPA Integrated Risk Information System (IRIS) database.
    - Tier 2—The EPA Provisional Peer Reviewed Toxicity Values (PPRTV).
    - Tier 3—Other Toxicity Values.
  - The effect(s) and mechanism(s) of action for each chemical are obtained from the source of the toxicity value listed above. When multiple chemicals have the same effect and mechanism of action, their HQs are segregated and summed to obtain a HI for the effect. These HI values are compared to threshold criteria and is sufficient to determine if remedial action is needed.
- Add clarifying language to the WMA C BRA on DOE's position regarding the calculation of hazard indices.
- Not pursue Ecology's interpretation of EPA guidance; specifically, that even if toxicity information is available in IRIS, that other toxicity information beyond IRIS should be considered and evaluated.

**IS THIS DECISION / DETERMINATION / ACTION ITEM**

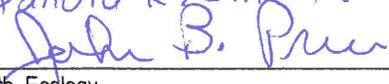
FINAL       INTERIM (Further action to be taken)

**IAMIT MEMBER APPROVALS:**

  
\_\_\_\_\_  
W.F. Hamel, DOE-RL  
Date 11/25/19

  
\_\_\_\_\_  
R.G. Hastings, DOE-ORP  
Date 11/21/19

  
\_\_\_\_\_  
D.R. Einan, EPA  
Date 11/25/19

Alexandra K. Smith.  
by   
\_\_\_\_\_  
A.K. Smith, Ecology  
Date 11/21/19