

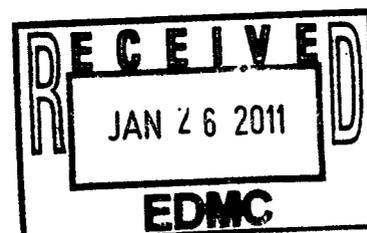
MEETING MINUTES

Meeting for Data Quality Objectives for Evaluation of Locations for Installation and Use of Monitoring Wells for the Low Level Burial Ground 3 (218-W-5), Trenches 31 and 34

Attendees: (Electronic Distribution)		
NAME	ORGANIZATION	FUNCTION/ROLES
Jeff Ayres	Washington Department of Ecology	Hydrologist/ DQO Decision Maker
Asopuru Okemgbo	Washington Department of Ecology	Chemist
Deborah Singleton	Washington Department of Ecology	Project Manager
Joanette Biebesheimer	Washington Department of Ecology	Permit Writer
Doug Hildebrand	Department of Energy	Area Manager/ DOE DQO Decision Maker
Stuart Luttrell	CHPRC	RCRA Monitoring Manager
Gustavo Aljure	CHPRC	Environmental Protection/ RCRA Subject Matter Expert
Scot C. Adams	CHPRC	DQO Facilitator

Other Distributions:

Jane Hedges, Ecology, MSIN H0-57
 Dib Goswami, Ecology, MSIN H0-57
 John G Morse, DOE/RL, MSIN A5-11
 Daniel Gamon, CHPRC, MSIN R3-50
 Tony Miskho, CHPRC, MSIN T4-10
 Craig Swanson, CHPRC, MSIN R3-50
 Cliff Narquis, CHPRC, MSIN R3-50
 Bonnie Howard, CHPRC, MSIN R3-60
 Rick W Oldham, CHPRC, MSIN R3-60
 Joel F. Williams, CHPRC, H8-45



From: Scot C. Adams
Date: October 4, 2010

This meeting was held in the Washington Department of Ecology building, Richland

Objective:

The general purpose of the meeting was to discuss the status of development of a monitoring program for Trenches T31 and T34.

Topics Discussed:

Current Ecology strategy for wells and relationship to permit writing.

A summary of the discussion follows.

Draft minutes were reviewed from the September 21 meeting. The draft minutes will be amended to add "slug tests" to the discussion about needed hydrologic testing. Ecology verified that these minutes and future minutes should be distributed to the Administrative Record.

The action items from the previous meeting were reviewed. The status is reflected in the ongoing list in these minutes.

The waste inventory has been prepared from the SWITS database and will undergo review and clearance.

Leachate analyses have been compiled for 2005 through 2010. Clearance requirements will be clarified for the data set.

Doug Hildebrand requested status from Ecology on planning of well drilling. Ecology indicated that only the upgradient well is planned at this time. Ecology will meet immediately after this meeting and propose an Ecology position to be presented to EPA. Jeff Ayres will contact Doug after the meeting with the position. Doug will reflect the position with a proposed modification to the M-24 milestone.

The site walkdown was discussed with Ecology staff that did not attend the walkdown. The issues were drilling pad size and the locations of utilities. It was noted that the 200-ZP-1 injection well to the north appeared to have been closer to the trench than planned earlier. The question was raised if the groundwater model needed to be rerun. The decision was to wait until real data is available after injection begins. Those aspects probably will be reflected in permit language.

Jeff Ayres requested that DOE furnish the GPS measurements that were made at the walk down.

Doug Hildebrand initiated a discussion about the permit requirements for measuring leachate and if leakage was occurring presently through the upper barrier. The following action items were generated for Gus Aljure:

1. Volume records should be requested for leachate recovered from the top barrier.
2. Volume records should be requested for leachate collected from the bottom barrier.
3. The permit "leak rate" between the two layers needs to be identified, if it is an existing requirement.
4. It needs to be determined if leak rate and leachate analysis have been made for leachate between the liners.

Design documents for sampling leachate need to be found.

Gus Aljure and Deborah Singleton discussed their pursuits to identify the meaning of "Engineering Report" in WAC 173-303-806. Document preambles between 1980 and 1983 are being reviewed.

Conceptual language for the future permit was discussed. Stuart Luttrell related the Integrated Disposal Facility (IDF) language strategy that provided for future evaluations of well locations, monitoring efficiency, and modeled well spacing. A similar strategy to evaluate future injection impacts to monitoring adjacent to these trenches would be desirable.

After the main meeting concluded, some participants retrieved and inspected Ecology copies of RCRA permit application documents. The following documents were identified and briefly reviewed for issues discussed in the meeting:

1. DOE/RL-88-20, *Hanford Facility Dangerous Waste Permit Application Low Level Burial Grounds*, Rev. 1, 07/01/1997
2. DOE/RL-88-20, *Hanford Facility Dangerous Waste Permit Application Low Level Burial Grounds*, Rev. 2, 2002 (Draft)
3. DOE/RL-88-20, Supplement 2, *Low-Level Burial Grounds Dangerous Waste Permit Application Design Documents*, 08/01/1990
4. WHC-SD-W025-RPT-001, R0, *Construction Quality Assurance Report*, 01/12/1995
5. WHC-SD-W025-RPT-002, *Construction Quality Assurance Report Radioactive Mixed Waste Land Disposal Facility Non-Drag-Off-2, Project N0 W-025, Second Landfill Hanford Site*.

WHC-SD-W025-RPT-001, R0, identified that Doug Hildebrand's request for the Leak Rate specification was 5 gallons per acre per day.

Conclusions:

Ecology will identify the organizational position today for presenting to EPA and for milestone scheduling in a change package by DOE.

Agreements Made: None

Action Items:

Name of responsible party	Task	Due date by month, day, year
OPEN ACTION ITEMS		
Ecology and EPA	Meet and define : 1. The point of compliance for down gradient wells 2. The number of needed wells 3. The location of needed wells.	In Process- Ongoing
Ecology	Prepare a Fact Sheet for Trench 31 & 34	TBD

Scot C. Adams	Prepare a draft analyte list for monitoring, provide to Ecology, and hold a DQO planning session with Ecology and DOE	October 4, 2010 Status- Clearance is needed Expected for next meeting
Dan Gamon	Prepare a draft monitoring plan for the Trench 31 & 34 unit (Include a schedule for evaluations and changes.	December 1, 2010
Dib Goswami	Evaluate TPA M-24 for potential modification and reprioritization of well drilling.	In Progress
DOE	Schedule well drilling DQO planning and sampling and analysis plan	Initiated, waiting for information
Dan Gamon	Obtain drawings for Ecology to work with EPA. Layouts of liners are needed to discuss points of compliance. Supply to Jeff Ayres	Completed at walkdown Additional drawings identified by Ecology 10/4/2010 in RCRA B Application draft.
Dan Gamon	Make additional contacts to determine if leachate analysis data is available.	Completed Clarifying clearance requirements Expected for next meeting
Dan Gamon	Determine grid sizes used for site specific modeling.	October 4, 2010 Open
Jeff Ayres Doug Hildebrand	Conduct site visit and coordinate with operational staff. Ground check for rough dimensions between engineered features	Completed To be documented informally
Deborah Singleton	Schedule coordination with Jane Hedges, for meetings with EPA and related support	October 4, 2010 (Completed per email)
Jeff Ayres	Conduct technical meeting with EPA staff to review borehole locations and rationale for locations.	October 4, 2010 Open (as necessary)
Jeff Ayres and Stuart Luttrell	Draft permit language and compliance schedule to reflect meeting rationale.	November 4, 2010 Strategy discussions

		have begun within meetings for initiating.
Deborah Singleton and Joannette Biebesheimer	Research the purpose and content of an “engineering report” cited in WAC 173-303-806 (4)(xx)(E). The relationship of the report needs to be defined with respect to the planned groundwater monitoring plan.	October 13, 2010
NEW ACTION ITEMS		
Gus Aljure	Volume records should be requested for leachate recovered from the top barrier.	October 13
Gus Aljure	Volume records should be requested for leachate collected from the bottom barrier.	October 13
Gus Aljure	The permit “leak rate” between the two layers needs to be identified as an existing requirement.	Completed October 4 th after main meeting as described
Gus Aljure	It needs to be determined if analysis have been made for leachate between the liners. .	October 13
Gus Aljure	Design documents for sampling leachate need to be found.	Completed October 4 th after main meeting as described

Attachments: None