

MEETING NOTES
Data Quality Objectives for the Waste Management Area A-AX

MEETING NUMBER: WMA A-AX-DQO-2017-2

MEETING DATE: March 1, 2017

LOCATION: 3100 Port of Benton Boulevard, Room 3A, Richland, WA

ATTENDEES:

- | | | |
|--------------------------------|--------------------------|-------------------------|
| Jim Alzheimer (Ecology) | Jim Field (WRPS) | Anna Radloff (WRPS) |
| Mike Barnes (Ecology) | Paul Gassman (WRPS) | Beth Rochette (Ecology) |
| Marcel Bergeron (WRPS) | Dip Goswami (Ecology) | Paul Rutland (WRPS) |
| Jan Bovier (DOE-ORP) | Bob Hiergesell (WRPS) | Maria Skorska (Ecology) |
| Joe Caggiano (Ecology) | Doug Hildebrand (DOE-RL) | Harold Sydnor (WRPS) |
| Ryan Childress (TerraGraphics) | Dan Parker (WRPS) | Cindy Tabor (WRPS) |
| Kathi Dunbar (WRPS) | | |

BACKGROUND INFORMATION: These meetings are to promote discussions among Ecology, Environmental Protection Agency, Department of Energy Office of River Protection (DOE-ORP), and Washington River Protection Solutions to develop data quality objectives (DQO) for the Phase 2 RCRA Facility Investigation (RFI)/Corrective Measures Study (CMS) for Waste Management Area (WMA) A-AX vadose zone soil. Representatives from DOE Richland Operations Office (DOE-RL) and the Central Plateau contractor (CH2MHILL Plateau Remediation Company [CHPRC]), were invited to participate to promote integration. A DQO process for the same purpose was started in 2011; but was suspended in May 2011 prior to completion. Agreements and progress made as part of the 2011 effort will be leveraged in support of the current DQO process.

PURPOSE OF MEETING: This meeting was called to identify and review lessons learned from the WMA C DQO and RFI process that could lead to efficiencies and improvements in the WMA A-AX DQO and RFI process.

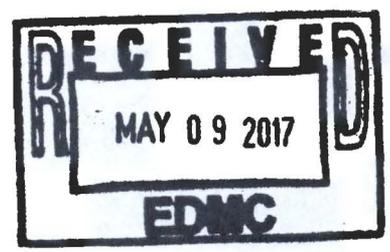
DISCUSSION FOR THIS MEETING:

The lessons learned discussion was led by Paul Rutland and consisted of four questions:

- 1.) What did we do well?
- 2.) What did we not do well?
- 3.) What did we do that we shouldn't have? / What did we not do that we should have?
- 4.) What were other lessons learned?

Attachment 1 lists the lessons learned identified during the meeting. Note that the text in Attachment 1 is the actual verbiage recorded on the white flip boards. Attachment 1 also contains a list of priority/focus areas that began to be identified, prior to the meeting ending.

Note that Mike Barnes brought up whether to proceed with a Phase 2 RFI/CMS DQO or to develop a more focused area DQO.



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AGREEMENTS AND ACTIONS: There were no agreements or actions from this meeting; however, the agreements and actions from the first meeting (WMA A-AX-DQO-2017-1) are provided in the tables below for reference. Note that these agreements and actions were not discussed in this meeting.

NEXT MEETING: The next meeting will be held March 30, 2017, from 10:00 to 12:00 pm.

Jan B Boyer
DOE Project Manager (print)

Jan B Boyer
DOE Project Manager (signature)

4/19/2017
Date

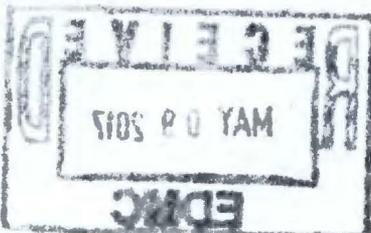
Michael W Barnes
Ecology Project Manager (print)

Michael W Barnes
Ecology Project Manager (signature)

4/19/2017
Date

DATE	AGREEMENTS
01/26/2017	1. DOE-ORP acknowledged the need for a Phase 2 RFI at WMA A-AX.
01/26/2017	2. Available tank waste and concrete condition information will be considered for inclusion in the RFI/CMS report(s).
01/26/2017	3. Problem Statement: "Vadose zone contamination in and adjacent to the A-AX Tank Farms may pose a current and future risk to human health and the environment, including groundwater, that requires corrective action to support closure."

ACTIONS			
Action Number	Actionee	Description	Status
2017-01-26-01	Barnes	Provide the key document list for the 2011 DQO effort.	In Progress
2017-01-26-02	Radloff	Locate the Woodward-Clyde document and verify whether it is available for public release.	In Progress
2017-01-26-03	Radloff	Provide information regarding OU/WMA assignments for 302-B Catch Tank, A-39 Crib, AX-155 Diversion Box, AY-151 Diversion Box, A-41 Crib, and 244-AR Vault.	In Progress
2017-01-26-04	Hildebrand	Provide the document reference for the casing corrosion study to Mr. Barnes.	In Progress
2017-01-26-05	Radloff	Provide the 2010 SGE report number to Mr. Hildebrand	In Progress
2017-01-26-06	Radloff	Verify the status of groundwater wells inside the WMA A-AX fence line.	In Progress



ACTIONS			
Action Number	Actionee	Description	Status
2017-01-26-07	Team	Discuss work to support/confirm tanks 241-AX-102, 241-A-103, and 241-AX-104 are not leakers as part of Step 7	In Progress
201701-26-08	Luke	Combine PSQs 3 and 4 and DSs 3 and 4 for review by the Team	In Progress

Attachment 1: Lessons Learned from WMA C DQO and RFI Process

Note that the text in this attachment is the actual verbiage recorded on the white flip boards.

What did we do well?

- Had TPA milestones-drivers
- Did investigations (pushes)
- Targeted areas we said we would (for the most part)
- Feedback from retrievals in weekly
- Started with comprehensive list of contaminants (analytes)
- Agreed to how it would be narrowed by consensus
- Agreeably change pushes after DQO
- Large list of COPC's (narrow later)
- Gathered available information
- Consensus decisions
- Restart was effective
- Utilized equipment effectively
- DQO flexibility (Work Plan reviewed without DQO)
- DQO global written
- Focused document
- Worked collaboratively to plan activities
- Good communication
- Technology development
- Field data used to narrow

What did we NOT do well?

- Left positions not sampled
- Budget
- Drivers not strong enough
- Loss of tribal knowledge (layoffs/budget)
- Lost tracking of data due to layoffs
- DQO-not focused
- Redundancy of document content
- Didn't find contamination
- Didn't coordinate well with groundwater contractor
- Scope and extent of WMA was not defined well up front
- Work interferences
- Piece of vadose zone not sampled
- Did not use/have beta probe
- Did not use new technologies
- Sample size was not large enough for all constituents

What did we do that we shouldn't have? / What did we not do that we should have?

- Interrupted investigations
- Defined everything up front
- Didn't have PA for DQO, etc.
- Pushes during retrieval
- Relied on electrical methods to select sampling locations
- No model available
- We need better means of analyzing non gamma emitting species

What were other lessons learned?

- Better way to communicate lab issues. (time consuming)
- Binning of scopes
- Timing of A/AX activities
- Sequence activities better
- Field data related to nature and extent
- Collected data that didn't tell us much
- Ancillary equipment handling in documents
- Early info on sources of artificial recharge

Priority/focus areas

- 1.) A-105/104
- 2.) UPR's
- 3.) Leak assessment document
- 4.) Maps
- 5.) Fenceline and road
- 6.) Determine subsurface extent of contamination of A/AX
- 7.) Install probes for use during retrieval (consider)
- 8.) Groundwater 200-POI