

**DISTRIBUTION  
PROJECT MANAGERS' MEETING,  
200 AREA GROUNDWATER SOURCE OPERABLE UNITS  
February 16, 2012**

DOE/RL

(No hard copy distribution)

EPA

Craig Cameron

B1-46

Ecology

Nina Menard

H0-57

CHPRC

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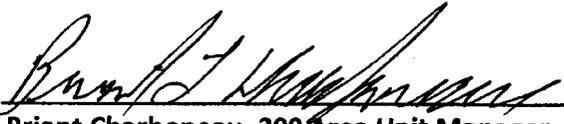
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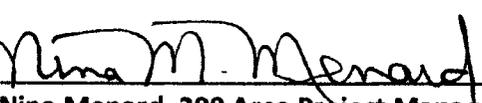
Meeting Minutes Transmittal/Approval  
Project Managers' Meeting  
200 Area Groundwater and Source Operable Units  
February 16, 2012

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APPROVAL:  DATE: 2/16/2012  
Al Farabee, 200 Area Project Manager, DOE/RL

APPROVAL:  DATE: 2/16/2012  
Briant Charboneau, 200 Area Unit Manager, DOE/RL

APPROVAL:  DATE: 2/16/12  
Craig Cameron, 200 Area Project Manager, EPA

APPROVAL:  DATE: 2/16/12  
Nina Menard, 200 Area Project Manager, Ecology

HFFACO Action Plan Section 4.1 requires signature of agreements and commitments made during the Project Manager Meeting. Approval of these minutes documents approval of agreements and commitments documented in Attachment 4 to these minutes. Approval does not apply to any other attachments, which are included in these minutes for informational purposes.

**Minutes of the 200 Area Project Managers' Meeting of February 16, 2012 are attached.  
Minutes are comprised of the following:**

<b>Attachment 1</b>	<b>Attendance Record</b>
<b>Attachment 2</b>	<b>Agreements and Issues List</b>
<b>Attachment 3</b>	<b>Action Item List</b>
<b>Attachment 4</b>	<b>Operable Units and Facilities Status</b>
<b>Attachment 5</b>	<b>TPA Milestone M-16-120 Criteria/ PMM Agreement</b>



**200 Area Project Managers' Meeting  
Agreements and Issues List  
February 16, 2012**

**Agreement:** None

**Issue:** None

**Delegations for February 16, 2012 PMM meeting:**

DOE/RL (RL40)	Bobby Long for Al Farabee
EPA	Emerald Laija for Craig Cameron

200 Area Project Managers' Meeting  
February 16, 2012

OPEN ACTION ITEM TRACKING

Action #	Action/Subject	Assigned To	Owed To	Assigned Date	Original Due Date	Adjusted Due Date	Status
134	Follow up on the SVE shut down	EPA and DOE		11/17/11			

200 AREA PROJECT MANAGERS MEETING  
PROJECT STATUS UPDATES

February 16, 2012  
AGENDA

**CENTRAL PLATEAU INNER AREA**

200-WA-1

200-PW-1 SVE

**Inner Area: Central Plateau Burial Grounds**

200-SW-2

**Inner Area: Central Plateau Deep Vadose Zone**

200-DV-1 RI/FS

200-DV-1 Uranium

200-BC-1/200-WA-1 Tc-99 Desiccation Test

**BOTH INNER & OUTER AREAS**

200-IS-1CMS & FS / CAD & PP

**CENTRAL PLATEAU OUTER AREA**

200-OA-1, 200-CW-1, and 200-CW-3 FS/PP

200-SW-1

**Risk Assessment**

Central Plateau Ecological Risk

**CENTRAL PLATEAU GROUNDWATER**

200-ZP-1 Interim Action

200 West P&T

200-UP-1 RI/FS

S/SX Interim Action

200-BP-5 TTP

200-BP-5 and 200-PO-1 FS

**FUTURE SCOPE (out-year TPA milestones and projects)**

200-PW-1/3/6 and 200-CW-5 ROD implementation

B Plant Canyon/Waste Sites

200-CW-1, 200-CW-3, 200-OA-1

TSD Units

200-DV-1

200-BC-1 and 200-WA-1

200-EA-1

200BP-5, PO-1

PUREX Canyon/Waste Sites

224B Concentration Facility

200-EA-1 & 200-IS-1

REDOX Canyon/Waste Sites

U Plant Canyon

EE/CA Report(s)

224T Transuranic Storage and Assay Facility

GW Plumes

200 AREA PROJECT MANAGERS MEETING  
PROJECT STATUS UPDATES

February 16, 2012

**CENTRAL PLATEAU INNER AREA**

**200-WA-1 EPA Lead**

- **M-015-91A: Submit a RI/FS work plan for the 200-WA-1 OU (200 West Inner Area) to EPA, 12/31/2011.** (RL- Kevin Leary CHPRC – Marty Doornbos)
  - The Draft A 200-WA-1 OU Work Plan was transmitted to EPA on December 27, 2011, meeting the milestone.
  - **Schedule Status:** Draft A work plan under review by EPA.

Regulatory Agency Comments: No Comment.

**200-PW-1 Soil Vapor Extraction System (SVE):** (RL-John Morse CHPRC –Mark Byrnes)

- Active soil vapor extraction units (216-Z-9 and 216-Z-1A) were taken offline October 31, 2011 for the winter and will be restarted on March 1, 2012. The units are currently being tested to be sure they are ready for startup.
- The passive SVE system is continuing to operate. Routinely testing GAC canisters for breakthrough and replacing canisters when needed.
- PNNL's draft report summarizing the results from study to assess/refine the soil clean up level for carbon tetrachloride and methylene chloride is expected to be issued by end of February 2012 for review.
- **Schedule Status:** The active SVE units scheduled to re-started March 1, 2012.

Regulatory Agency Comments: PNNL's draft report summarizing the results from study to assess/refine the soil clean up level for carbon tetrachloride and methylene chloride is expected to be issued by end of February 2012 for review. This document needs to be added to the PW1,3,6 AR file once final.

**Inner Area: Central Plateau Burial Grounds**

**200-SW-2 Ecology Lead**

- **M-015-93A: Submit Revised RFI/CMS & RI/FS work plan for the 200-SW-2 OU to Ecology, 12/31/2011 (Complete)** (RL – Doug Hildebrand, CHPRC – Marty Doornbos)
  - The Draft A 200-SW-2 OU Work Plan was transmitted to Ecology on November 7, 2011, meeting the milestone.
  - **Schedule Status:** Draft A work plan under review by Ecology. Extension requested and granted. Review done by late May/early June.

Regulatory Agency Comments: No Comment.

**Inner Area: Central Plateau Deep Vadose Zone**

**200-DV-1 Ecology Lead (RL – John Morse, CHPRC – Marty Doombos)**

- The B Area perched water removal system was temporarily shut down on December 7, 2011 due to higher contaminant concentrations in the ground water. Results from samples taken on December 5, 2011, show continued increase in levels of contaminants. The project is finalizing the waste profile for disposal of the perched water to the Effluent Treatment Facility in order to resume operation. This effort should be complete around mid-February.
- Preparation continues for characterization of the BY Cribs in accordance with the 200-DV-1 OU SAP. Field work is expected to begin in late April.

Regulatory Agency Comments: No Comment.

**200-DV-1 Ecology Lead**

- **M-015-110C: Submit uranium treatment technology field test plan as an element of the RFI and RI for the 200-DV-1 OU to Ecology, 12/31/2010 (Complete)** (RL – John Morse, CHPRC – Glen Chronister)
  - Uranium Sequestration Pilot Test:
    - The FTP was submitted to Ecology in December of 2010. Funding prioritization has re-scoped the test to conduct only a shallow (Hanford Formation) test. The FTP/SAP will be revised following determination of future funding.
  - **Schedule Status:** The deep (cold creek formation) test has been deferred until FY13 based on funding prioritization.

Regulatory Agency Comments: No Comment.

**200-BC-1/200-WA-1 EPA Lead (RL – John Morse, CHPRC – Glen Chronister)**

- **M-015-110D: Submit technetium-99 pilot scale treatability study test report(s) as an element of the RI for the 200-BC-1/200-WA-1 OUs to EPA, 6/30/2012**
  - The Desiccation Pilot Test was completed on June 30, 2011.
  - Test report has been drafted and is now in the process of internal review.
  - **Schedule Status:** Report will be delivered the week of June 11, 2012. On track to meet the June 30, 2012 deliverable.

Regulatory Agency Comments: No Comment.

## **BOTH INNER & OUTER AREAS**

**200-IS-1 Ecology Lead** (RL- Doug Hildebrand, CHPRC – Marty Doornbos)

- **M-015-90: Submit Revised RFI/CMS & RI/FS work plan for 200-IS-1 to Ecology, 12/31/2011 (Complete).**
  - The Draft A 200-IS-1 OU Work Plan was transmitted to Ecology on November 14, 2011, meeting the milestone.
  - **Schedule Status:** Draft A work plan is under review by Ecology.
- **M-015-112: Submit Draft B 200-IS-1 OU Pipeline System Waste Sites RFI/CMS/RI/FS WP to Ecology, including a schedule of completion dates for major tasks and deliverables, 2/28/2014.**

Regulatory Agency Comments: No Comment.

## **CENTRAL PLATEAU OUTER AREA**

**200-CW-1, 200-CW-3, 200-OA-1 EPA Lead** (RL – Greg Sinton, CHPRC –Marty Doornbos)

- **M-037-03: Submit Revised Closure Plans to support TSD closure for two (2) TSD Units: 216-B-3 Main Pond system, and 216-S-10 Pond and Ditch, 4/30/2012**
  - A TPA change control form was delivered to Ecology January 30, 2012 that proposed delaying this milestone 30 months to align with the recently changed Outer Area (200-OA-1) milestone for submittal of the Draft A RI/FS Report. The original intent of the M-37-03 milestone when it was established was to keep it aligned with the Outer Area RI/FS milestone as described in change number M-37-10-01.
  - Ecology disapproved the change control form received on February 14, 2012. DOE objection to that is anticipated to be delivered to Ecology February 17, 2012.
  - **Schedule Status:** At risk.

Regulatory Agency Comments: No Comment.

**200-SW-1 Ecology Lead** (RL: Kevin Leary, CHPRC – Marty Doornbos)

- EA released for public review August 29, 2011. The last of the public comments were received on November 17, 2011.
- **Schedule Status:** Responding to public comments and revising the EA.

Regulatory Agency Comments: No Comment.

## **Risk Assessment**

**Central Plateau Ecological Risk Assessment EPA/Ecology Lead** (RL – Jim Hansen, CHPRC – John Lowe)

- Evaluating comments provided on ecological PRGs by Ecology as part of the agency review of 100-K RI/FS.

Regulatory Agency Comments: No Comment.

## CENTRAL PLATEAU GROUNDWATER

### **200-ZP-1 Interim Action EPA Lead** (RL – John Morse, CHPRC – Mark Byrnes)

- The inoculation of the first fluidized bed reactor occurred on January 19, 2012.
- The interim P+T system is currently operating at 359 gpm. During the month of January 2012, a total of 16.5 Mgal of water was treated and 62.1 kg of carbon tetrachloride was removed.
- **Schedule Status:** On schedule.

Regulatory Agency Comments: No Comment.

### **200 West Area GW Treatment Facility EPA Lead** (RL – John Morse, CHPRC – Mark Byrnes)

- **M-016-122, Begin Phase 1 Operation of 200W Pump and Treat System, 12/31/2011 (Complete)**

- Loading of water and carbon media to the first fluidized bed reactor (FBR) was initiated on December 14, 2011, and completed on December 19, 2011. The water addition to the first FBR completes the Tri-Party Agreement Milestone M-016-122 since it initiates Phase 1 Operations. The loading of carbon media and water into the FBR was observed and verified by J. G. Morse, with RL, on December 19, 2011. The inoculation of the first fluidized bed reactor occurred on January 19, 2012.
- Regarding discharge of clean water to the surface from start up activities, EPA is aware of the discharge as planned.
- Drilling and sampling of 23 of the permanent extraction and/or injection wells is complete. Construction and development of injection wells C8068, C8069, and C8386 is now complete. Finish work is now being performed in preparation for final acceptance.
- **Schedule Status:** Complete

Regulatory Agency Comments: EPA asked if an AMP will be needed for the P&T Facility

### **200-UP-1 EPA Lead** (RL – Naomi Bland, CHPRC – Curt Wittreich)

- **M-015-17A: Submit a 200-UP-1 RI and FS Report and PP to EPA, 9/30/2010 (Complete)**

- A redline of the final Draft RI/FS was delivered to EPA on February 2, 2012 for concurrent review with DOE-RL.

Regulatory Agency Comments: No Comment.

### **S/SX Tank Farm Interim Action EPA/Ecology Lead** (RL – Naomi Bland, CHPRC – Curt Wittreich)

- **M-016-120: GW Treatment System for Tc-99 Plume at S/SX Tank Farm utilizing the new 200 West Pump and Treatment Facility, 8/31/2012**

- Construction and ATP of the WMA S-SX extraction system was completed, except for final pipelines connects to the 200 West Treatment Facility and the well racks, which are scheduled to be made by March 2012.

- EPA concurred that TPA milestone M-16-120 will be met by initiating groundwater flow through the SSX extraction system to the 200 West Treatment Facility (see Attachment 5, email dated 2/13/2012).
- **Schedule Status:** The project is ahead of schedule.

Regulatory Agency Comments: EPA concurs milestone M-16-120 will be met by initiating groundwater flow through the S/SX extraction system to the 200 West Treatment Facility (see Attachment 5).

**200-BP-5 Ecology Lead (RL – John Morse, CHPRC – Curt Wittreich)**

- **M-015-82A: Submit Treatability Test Plan as Amendment of 200-BP-5 WP, 12/31/2010 (Complete)**
- **M-015-82B: Initiate 200-BP-5 Aquifer Tests Within 6 months of TTP Approval, approval of TPP + 6 months (Complete)**
  - Construction activities for the treatability test system continued. All seven crossings are complete and all above-ground pipeline has been placed (~8500 ft total). Remaining pipeline work will be completed pending well installation. Well drilling was completed. Well completion activities are underway and are expected to be complete by mid-February 2012.
  - **Schedule Status:** M-015-82A and M-015-82B complete. Construction is expected to be complete by April, at which time testing is planned to start.

Regulatory Agency Comments: No Comment.

**200-BP-5, PO-1 Ecology Lead (RL – John Morse, CHPRC – Curt Wittreich)**

- **M-015-21A, Submit a 200-BP-5 and 200-PO-1 OU FS Report and PP(s) to Ecology, 6/30/2015**
  - Ecology completed their review of a final redline for the Draft Rev.0 200-PO-1 RI Report and provided additional comments for incorporation on December 1, 2011. Incorporation of comments is underway.
  - **Schedule Status:** On schedule.

Regulatory Agency Comments: No Comment.

**FUTURE SCOPE (out-year TPA milestones and projects)**

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**B Plant Canyon/Waste Sites Ecology Lead** (RL – Naomi Bland, CHPRC – Marty Doornbos)

- **M-85-10A, Submit RI/FS work plan for the 200-CB-1OU (B Plant Canyon/associated past practice waste sites) to Ecology, 6/30/2014**

**200-CW-1, 200-CW-3, 200-OA-1 EPA Lead** (RL –Greg Sinton, CHPRC –Marty Doornbos)

- **M-015-38B, Submit a revised FS Report and revised PP(s) for 200-CW-1, 200-CW-3, and 200-OA-1 OUs for Waste Sites in the Outer Area of the Central Plateau to EPA, 10/30/2014**

**TSD Units**

- **M-037-02, submit Revised Closure Plans to support TSD closure for five (5) TSD Units: 207-A South Retention Basin, 216-A-29 Ditch, 216-A-36B Crib, 216-A-37-1 Crib, and 216-B-63 Trench, 06/30/2014**

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**200-DV-1 Ecology Lead**

- **M-015-110A: Submit RFI/CMS & RI/FS work plan for the 200-DV-1 OU to Ecology. The work plan shall include technology screening that identifies technologies applicable for characterization, treatment, and monitoring of Deep Vadose Zone contaminants, 3/31/2015 (RL – John Morse, CHPRC – Marty Doornbos)**
- **M-015-110B: Submit CMS & FS and PP/PCAD for the 200-DV-1 OU to Ecology, 9/30/2015 (RL – John Morse, CHPRC – Marty Doornbos)**

**200-BC-1 and 200-WA-1 EPA Lead** (RL- Kevin Leary, CHPRC – Marty Doornbos)

- **M-015-91B: Submit Feasibility Study Report(s) and Proposed Plan(s) for the 200-BC-1/200-WA-1 operable units (200 West Inner Area) to EPA, 12/31/2015**

**200-EA-1 Ecology Lead** (RL- Doug Hildebrand, CHPRC – Marty Doornbos)

- **M-015-92A, Submit a RFI/CMS & RI/FS work plan for the 200-EA-1 OU (200 East Inner Area) to Ecology, 6/30/2015**

**200-BP-5, PO-1 Ecology Lead** (RL – John Morse, CHPRC – Curt Wittreich)

- **M-015-21A: Submit a 200-BP-5 and 200-PO-1 OU FS Report and PP(s) to Ecology, 6/30/2015**

**200-PW-1/3/6 and CW-5 ROD Implementation EPA Lead** (RL- Greg Sinton, CHPRC – Marty Doornbos)

- Draft A RDR/RAWP due to be submitted to EPA by September 30, 2015
- TPA change package was approved February 16, 2012.

**PUREX Canyon/Waste Sites Ecology Lead** (RL – Naomi Bland, CHPRC – Marty Doornbos)

- **M-85-20A: Submit RI/FS Work Plan for 200-CP-1 OU (PUREX Canyon/associated past practice waste sites) to Ecology, 9/30/2015**

**224B Concentration Facility Ecology Lead** (RL- Kevin Leary, CHPRC – Marty Doornbos)

- **M-085-50: Submit revised removal action work plan for the 224B Concentration Facility in accordance with the Action Memorandum for the Non-Time Critical Removal Action for the 224-B Plutonium Concentration Facility (DOE/RL-2004-36). A change package with a completion milestone will accompany the submittal of the work plan. 12/31/2015**

**2016 and beyond**

**200-EA-1 & 200-IS-1 Ecology Lead** (RL- Doug Hildebrand, CHPRC – Marty Doornbos)

- **M-015-92B: Submit CMS & FS Report(s) & Proposed CA Decision(s)/PP(s) for the 200-EA-1 and 200- IS-1 OUs (Central Plateau 200 East Inner Area) to Ecology, 12/31/2016**

**REDOX Canyon/waste sites EPA Lead** (RL – Naomi Bland, CHPRC – Marty Doornbos)

- **M-85-30A, Submit RI/FS Work Plan for 200-CR-1 OU (REDOX Canyon/associate past practice waste sites) to EPA, 12/31/2017**

**U Plant Canyon EPA Lead** (RL – Wade Woolery, CHPRC – Dottie Norman)

- **M-016-200A, Complete U Plant Canyon (221-U) demolition in accordance with the RD/RAWP, 9/30/2017**
- **M-016-200B, Complete U Plant Canyon (221-U) barrier construction in accordance with the RD/RAWP, 9/30/2021**

**EE/CA Report(s) EPA/Ecology Lead** (RL – Bobby Long, CHPRC, Dottie Norman)

- **M-85-60, Complete EE/CA report(s) for all Tier 2 facilities listed in Appendix J, 3/31/2018**

**TSD Units**

- **M-037-11, Complete unit-specific closure requirements for two (2) TSD Units; 216-B-3 Main and Pond system and 216-S-10 Pond and Ditch, 9/30/2016**
- **M-037-10, Complete Unit-Specific Closure Requirements According To The Closure Plan(s) For seven (7) TSD Units: 207-A South Retention Basin, 216-A-29 Ditch, 216-A36B Crib, 216-A-37-1 Crib, 216-B-63 Trench, Hexone Storage and Treatment Facility (276-S-141/142), and 241-CX Tank System (241-CX-70/71/72), 9/30/2020**

**224T Transuranic Storage and Assay Facility EPA Lead** (RL- Kevin Leary, CHPRC – Marty Doornbos)

- **M-085-51, Submit removal action work plan for the 224T Transuranic Storage and Assay Facility in accordance with the Action Memorandum for the Non-Time-Critical Removal Action for the 224-T Plutonium Concentration Facility (DOE/RL-2004-68). A change package with a completion milestone will accompany the submittal of the work plan. 12/31/2025**

**GW Plumes EPA/Ecology Lead** (RL – John Morse)

- **M-016-119-T01, Remedy in Place to Contain GW Plumes in 200 NPL Area, 12/31/2020**

**From:** [Emerald Laija](#)  
**To:** [Bland, Naomi M](#)  
**Cc:** [Morse, John G](#)  
**Subject:** Re: TPA milestone M-16-120 criteria  
**Date:** Monday, February 13, 2012 2:57:53 PM

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This sounds fine. I agree that the milestone will be met once groundwater from the SSX extraction system is sent to the 200 West Facility.

Thanks,  
Emy

Emerald Laija, Environmental Scientist  
U.S. Environmental Protection Agency  
Hanford Project Office  
309 Bradley Blvd, Suite 115  
Richland, WA 99352  
Phone: 509 376-4919  
Fax: 509 376-2396  
E-mail: [laija.emerald@epa.gov](mailto:laija.emerald@epa.gov)

From: "Bland, Naomi M" <[naomi.bland@rl.gov](mailto:naomi.bland@rl.gov)>  
To: Emerald Laija/R10/USEPA/US@EPA  
Cc: "Morse, John G" <[john.morse@rl.gov](mailto:john.morse@rl.gov)>  
Date: 02/09/2012 12:44 PM  
Subject: TPA milestone M-16-120 criteria

Emy,

At the PMM next Thursday we will be requesting your concurrence on the M-16-120 completion criteria. The PMM Report will state, "EPA concurrence is requested that TPA milestone M-16-120 will be met by initiating groundwater flow through the SSX extraction system to the 200 West Treatment Facility." We are hoping to document your agreement of the criteria in the PMM minutes. Is this acceptable to you? Let me know if you have any questions or concerns.

Thank you  
Naomi

Naomi Bland | Department of Energy | Richland Operations Office-AMCP |  
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unless absolutely necessary.