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CHPRC-1403058

Meeting Minutes Transmittal/Approval
Project Managers' Meeting
200 Area Groundwater and Source Operable Units
September 18, 2014

APPROVAL: _____ **DATE:** 9-18-14
Briant Charboneau, 200 Area Unit Manager, DOE/RL

APPROVAL: _____ **DATE:** 9/18/14
Al Farabee, 200 Area Project Manager, DOE/RL

APPROVAL: _____ **DATE:** 9/18/14
Emerald Laija, 200 Area Project Manager, EPA

APPROVAL: _____ **DATE:** 9/24/14
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.

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DISTRIBUTION
PROJECT MANAGERS' MEETING,
200 AREA GROUNDWATER and SOURCE OPERABLE UNITS
September 18, 2014

DOE/RL	
(No hard copy distribution)	
EPA	
Emerald Laija	B1-46
Ecology	
Nina Menard	H0-57
CHPRC	
Jane V. Borghese (original)	H8-43
Administrative Record (2)	H6-08
Correspondence Control	G3-39

Minutes of the 200 Area Project Managers' Meeting of September 18, 2014 are attached. Minutes are comprised of the following:

Attachment 1	**Attendance Record**
Attachment 2	**Agreements and Issues List**
Attachment 3	**Action Item List**
Attachment 4	**Operable Units and Facilities Status**

CHPRC-1403058
Attachment 1

200 Area Project Managers' Status Meeting
September 18, 2014

Please print clearly and use black ink

PRINTED NAME	ORGANIZATION	O.U. ROLE	TELEPHONE
JOHN MORSO	DOE		376-0057
[illegible]	DOH		943-5217
Rod Lobos	EPA		376-3749
Dilo Goswami	Ecology		372-7902
NAOMI JASCHKE	DOE		376-5594
Emerald Laija	EPA		376-4919
[illegible]	DOE		376-8089
Lorna Dittmer	CHPRC		376-7017
Brian Dixon	CHPRC		376-7053
Elis Eberbem	Ecology		372-7906
Deborch Singleton	Ecology		372-7923
R Douglas Hildebrand	DOE		373-9626
Martin Dornbos	RHPRC		438-5516
Briant Charboneau	DOE		373-6137
JOE AXTELL	DOE		373-6687
Shelley Gimon	ODOE		(541) 240-0161

200 Area Project Managers' Meeting
Agreements and Issues List
September 18, 2014

Agreement: None

Issue: None

Announcements: None

Delegations for September 18, 2014 PMM meeting:

Ecology Dib Goswami for Nina Menard

200 Area Project Managers' Meeting
September 18, 2014

OPEN ACTION ITEM TRACKING

Action #	Action/Subject	Assigned To	Owed To	Assigned Date	Original Due Date	Adjusted Due Date	Status
146	TPA Change Notice to add pipelines to IS-1	RL/Doug Hildebrand	Ecology/Kim Welsch	5/16/13	7/15/13	10/31/2014	Open; Path forward identified.
151	The finalized Inner Area Principles	DOE/ B. Charboneau	EPA, Ecology	3/20/14	Open		Open ; expected to be shared with Ecology by end of July 2014
157	Ecology has expressed concern that if a decision is not reached soon for SW-1 EA, that the EA process will have to be repeated. Ecology has requested a response from DOE	DOE/ B. Charboneau	Ecology	7/17/14	9/18/14		Closed
158	Ecology requests discussions of scope for BP-5 RI report	RL/John Morse / Marty Doornbos	Ecology	7/17/14	9/18/14		Closed

200 AREA PROJECT MANAGERS' MEETING
Milestones and Operational Status by OU
September 18, 2014

Deep Vadose Zone 200-DV-1 *Ecology Lead (RL – John Morse, CHPRC – Mark Byrnes)*

- **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**
  - *A revised Decisional Draft RI/FS WP was forwarded to DOE-ORP for their review on August 25, 2014.*

  Milestone Status: On Schedule.

Perched Water EE/CA / Action Memorandum

- *New extraction wells 299-E33-351 and 299-E33-350 have been installed and are ready to be hooked up to the extraction system.*
- *RL, Ecology, and EPA comments on the Action Memorandum have been incorporated into the document. A meeting was held September 3, 2014, between CHPRC, RL, Ecology, and EPA to make final changes prior to issuing.*
- *The B Area perched water extraction system removed 6,863 gallons in August, bringing the total volume of perched water removed to 226,446 gallons since initiating operations on August 30, 2011. The following quantities of contaminants were removed:*

200-DV-1 Perched Water	Current Month	Cumulative
Gallons	6,863	226,446
Tc-99	13.25E-04 Ci	29.47E-03 Ci
Uranium	2.0 kilograms	49.3 kilograms
Nitrates	14.3 kilograms	462.1 kilograms

- **M-015-110B: Submit CMS & FS and PP/PCAD for the 200-DV-1 OU to Ecology, 9/30/2015**
  - *This work cannot be performed in the time available from issuance of the work plan (March 31, 2015) and the due date of September 30, 2015. This milestone was not adjusted when the M-015-110A milestone was renegotiated.*

  Milestone Status: To be missed.

  Regulatory Agency Comments: N/A

200-EA-1 and 200-IS-1 *Ecology Lead (RL- Doug Hildebrand, CHPRC – Bert Day)*

200-IS-1

- **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.**
  - *On December 10, 2013, TPA dispute resolution was invoked and an extension to resolve issues at the project manager level was requested. Ecology has agreed (signed August 21, 2014) to extend the dispute at the project manager's level to October 30, 2014.*
  - *Reviewed Chapter 1 comment responses and text updates with Ecology on July 9, 2014; comment responses concurrence was reached and minimal text changes were identified.*
  - *Conducted initial conceptual site model workshop focused on waste management area C on July 29, 2014; continuing activities on the waste site specific scoping summaries with the next meeting scheduled for September 9, 2014.*

- *Received signed Change Package C-14-01 on July 30, 2014, that adjusts waste sites between 200-IS-1 and 200-WA-1 Operable Units.*
- *Continuing to address Change Package C-13-01 which adds 233 waste sites to 200-IS-1 and identifies TSDs, where appropriate.*

Milestone Status: Dispute resolution. The parties are currently working on identifying the work plan scope (e.g., change package C-13-01) and associated revised delivery schedule.

200-EA-1

- **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**
  - *Not funded in FY14 - Work has been deferred based on site priorities.*

Milestone Status: To be missed.

200-EA-1 and 200-IS-1

- **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**
  - *200-IS-1: Milestone date will need to be adjusted based on outcome of dispute resolution for M-015-112 and associated 200-IS-1 Work Plan approval date.*
  - *200-EA-1: Milestone date will need to be re-evaluated based on 200-EA-1 OU Work Plan approval date (see M-015-92A discussion).*
  - *Discussion was held at the July 2014 200 Area PMM regarding dividing this milestone.*

Milestone Status: To be missed.

Regulatory Agency Comments: N/A

200-SW-2 *Ecology Lead (RL- Doug Hildebrand, CHPRC – Phil Burke)*

- **M-015-113: Submit Draft B, 200-SW-2 Radioactive Landfills Group RFI/CMS/RI/FS Work Plan to Ecology, including a schedule of completion dates for major tasks and deliverables, 2/28/2014**
  - *Resolution of Ecology's comments on the Draft A RI/FS Work Plan continues. A series of workshops have been conducted to discuss the characterization needs for each of the landfills.*
  - *A table summary and series of maps of the preliminary characterization agreements reached for each of the landfills has been provided for Ecology preliminary review.*
  - *Conducted a DQO workshop for the work plan development on August 22, 2014.*
  - *A white paper on the Green Islands is underway to evaluate regulatory options under RCRA*
  - *Chapters and appendices of the work plan are undergoing revision.*
  - *SAP preparation continues to incorporate preliminary agreements on characterization needs*

Schedule Status: On schedule. The Draft B is planned for delivery to the regulatory agencies on March 31, 2015.

- **M-015-93B: Submit RFI/CMS & RI/FS Report & Proposed CA Decision/PP for 200-SW-2, 12/31/2016**
  - *Milestone date will need to be adjusted based on the approval of the work plan (200-SW-2 work plan).*

Milestone Status: At risk

Regulatory Agency Comments: N/A

200-SW-1 *Ecology Lead (RL- Doug Hildebrand)*

- **EA released for public review August 29, 2011. The last of the public comments were received on November 17, 2011.**
  - *The EA was deferred while the Tank Closure and Waste Management EIS was in progress.*

Schedule Status: *Due to budgetary constraints, no further action is scheduled for FY15 and FY16.*

Regulatory Agency Comments: N/A

200-BC-1 and 200-WA-1 *EPA Lead (RL- John Sands, CHPRC – Phil Burke)*

200-WA-1

- **M-015-91A: Submit a RI/FS work plan for the 200-WA-1 OU (200 West Inner Area) to EPA, 12/31/2011**
  - *Completed and discussed Re-evaluation of waste sites and determination of data needs with the regulatory agencies on July 30, 2014.*
  - *Finalization of the SAP, work plan chapters and the appendices is underway.*
  - *The next regulatory workshop to discuss the proposed RI characterization locations at each of the waste sites has been planned for September 24, 2014.*

Schedule Status: Milestone complete. Draft Rev. 0 RI/FS work plan is currently planned for submittal to the regulatory agencies on December 18, 2014.

200-BC-1 and 200-WA-1

- **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**
  - *Awaiting finalization of Rev 0 work plan (M-015-91A). This milestone date will need to be revised based on issuance of the Rev 0 work plan.*

Milestone Status: To be missed.

Regulatory Agency Comments: N/A

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

- **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, 10/30/2015**
  - *EPA approval was received on July 21, 2014, to revise the Outer Area RI/FS and PP milestone M-015-38B due October 30, 2014. The Change Control Form extends the milestone to October 30, 2015, to submit a schedule for this document considering the Central Plateau strategic planning and future funding.*

Milestone Status: On schedule

Regulatory Agency Comments: N/A

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

- **M-015-82B: Initiate 200-BP-5 Aquifer Tests Within 6 months of TTP Approval, approval of TTP + 6 months**
  - *The treatability test has been delayed to August 2015, to accommodate the installation of the uranium treatment system at the 200 West Pump and Treatment Facility, and a pipeline from 200-BP-5 to 200 West P&T. The Treatability Test Plan will be revised to authorize the pipeline activity.*
  - *Scheduled a meeting on September 15, 2014, with EPA and Ecology to review planned revisions to the 200-BP-5 Treatability Test Plan, the option to continue operating the extraction system after the test is complete, and the planned 200-BP-5 EE/CA.*

  Schedule Status: Milestone complete, testing to be performed.

- **M-015-21A: Submit 200-BP-5 and 200-PO-1 OU FS Report & PP(s) to Ecology, 6/30/2015**
  - *The most current groundwater data set has been compiled for both 200-BP-5 and 200-PO-1 to support the 200-BP-5 baseline risk assessment and supplemental analysis for 200-PO-1 (the 200-PO-1 RI Report was issued October 2012). Scheduled a meeting with Ecology for September 24, 2014, to discuss the modeling approach supporting the 200-BP-5 RI Report and 200-PO-1 RI supplemental analysis.*
  - *The Draft A RI report is scheduled to be complete by June 30, 2015.*
  - *The combined BP-5/PO-1 FS Report and Proposed Plan is not funded in FY2014 and as a result, the M-015-21A milestone is at risk.*

  Milestone Status: At risk

  Regulatory Agency Comments: N/A

M-015 Milestone Series, Major Milestone *Dual Agency Lead*

- **M-015-00: Complete the RI/FS Process for all Non-Tank Farm OUs, 12/31/2016**
  - *This milestone may be impacted by the interim OU milestones statused above.*

  Milestone Status: At risk

  Regulatory Agency Comments: N/A

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

- **M-016-125: Submit a Remedial Design/Remedial Action Work Plan for 200-CW-5 and 200-PW-1/3/6 to EPA as described in Section 12.4 of the associated ROD, 9/30/2015**

  Milestone Status: On schedule.

  Regulatory Agency Comments: N/A

200-PW-1 Soil Vapor Extraction Operations *EPA Lead (RL – John Morse, CHPRC – Mark Byrnes)*

- *Rebound sampling was performed in May and June 2014, that shows over the past year the majority of the wells across the operable unit remained below the cleanup levels established for carbon tetrachloride and methylene chloride in the PW-1/3/6 Record of Decision. EPA has approved suspending operation of the SVE system for another year to conduct another round of rebound sampling in 2015.*
- *A path forward document (DOE/RL-2014-18) has been signed by EPA that identifies the specific steps outlined in PNNL-21843 for how a soil vapor extraction project comes to closure. Currently preparing a follow-on document that identifies specifically where the 200-PW-1 SVE operations are in this process and what final steps need to be taken to permanently discontinue all future 200-PW-1 SVE operations.*

Regulatory Agency Comments: N/A

200-UP-1 Remedy Implementation *EPA Lead (RL – Naomi Jaschke, CHPRC – Curt Wittreich)*

- **M-016-190: Complete the installation of extraction and injection wells for the U Plant area pump & treat system for uranium and technetium-99, and the iodine-129 hydraulic containment system as defined in the 200-UP-1 RD/RAWP, 9/30/2015**
  - *Initiated drilling of two uranium plume extraction wells on June 26, 2014, and is expected to be completed by the end of October.*
  - *Initiated the planning for the installation of a hydraulic containment system for I-129. Injection well drilling is expected to be complete by September 30, 2015.*

  Milestone Status: On schedule.

- **M-016-191: Complete acceptance test procedures and operational test procedures and initiate startup operations for the U Plant area P&T for uranium and tech-99, and Iodine-129 hydraulic containment system, 3/30/2016**
  - *Continued the design of the uranium extraction and treatment system. The design package for the balance of plant (outside the treatment bldg.) was completed and is in the process of being issued. The design package for the rad building is expected to be complete by November. Continued fabrication of the IX treatment train with delivery expected in November.*
  - *Held a meeting with EPA on August 21, 2014, to brief EPA on the current uranium remedy system design, fabrication status of IX treatment train, and overall project schedule.*
  - *Received EPA comments on August 29, 2014, for the draft Rev 3, 200 West P&T O&M Plan, incorporating the 200-UP-1 uranium system, Comments are being incorporated.*

  Milestone Status: On schedule.

- **M-016-192: Submit I-129 Technology Evaluation Plan Draft A to EPA as defined in the UP-1 RD/RA WP, 6/17/2016**
  - *Laboratory, field data evaluation and technology reviews are currently being performed to develop the Technology Evaluation Plan Draft A.*

  Milestone Status: On schedule.

- **M-016-193: Complete the remedial design investigation of the SE chromium plume, including the installation of new wells and evaluation of the GW monitoring data and install monitoring wells needed for remedy performance monitoring as defined in the UP-1 RD/RA WP, 9/30/2017**
  - *Planning three remedial design investigation wells for FY2015.*

Milestone Status: On schedule.

Regulatory Agency Comments: N/A

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

- *During the month of August 2014, the pumping rates at the 200 West P&T ranged from ~1,522 gpm to 1,636 gpm. The two ion exchange resin trains were run between 174 gpm and 547 gpm combined capacity, removing technetium-99 from groundwater from wells near the TX-TY Tank Farm, T Tank Farm, as well as S-SX Tank Farm.*
- *234 kg of carbon tetrachloride and 4,467 kg of nitrate as N (or 19,782 kg nitrate as NO3) were recovered during August 2014.*
- *The average concentration of contaminants of concern in the effluent water remains below the cleanup levels specified in the Record of Decision.*
- *Drilled to depth new injection wells YJ-7 (C8716, 299-W15-228), YJ-9 (C8786, 699-49-69), YJ-15 (C8070, 699-40-67), and YJ-24 (C8944, 299-W15-229). Construction of YJ-7, YJ-9, and YJ-15 are near complete. YJ-24 is under construction.*
- *Currently drilling new injection wells YJ-8 (C8920, 299-W18-41) and YJ-25 (C8945, 299-W7-13).*
- *Completed construction and tie in of injection well YJ-23 (C8067, 299-W6-15)*
- *Completed construction and tie in of extraction wells YE-14 (C8720, 299-W6-15) and YE-20 (C7030, 299-W14-22).*

Regulatory Agency Comments: N/A

200 Area Groundwater

- **M-016-119-T01: DOE will have a remedy in place to contain existing groundwater plumes (except iodine, nitrate, and tritium) in the 200 NPL Area, 12/31/2020**

Milestone Status: On schedule.

Regulatory Agency Comments: N/A

M-016 Milestone Series, Major Milestone *Dual Agency Lead*

- **M-016-00: Complete Remedial Actions for all Non-Tank Farms & Non-Canyon OUs, 9/30/2024**
  - *This milestone may be impacted by the interim OU milestones statused above.*

Milestone Status: At risk

Regulatory Agency Comments: N/A

M-024 Milestone Series/Well Drilling *Ecology Lead (RL-Mike Thompson, CHPRC-Mark Cherry)*

- **M-024-58G: Initiate Discussions of Well Commitments, 6/01/2014 – Complete (5/19/2014)**
- **M-024-65-T01: Conclude Discussions of Well Commitments, 8/01/2014 – Complete (7/30/2014)**
- **M-024-65: DOE Shall Complete Construction of all Wells Identified in M-24-11-01, 12/31/2014 – Complete (10/2/2013)**
- **M-024-00O: Complete Well Installations with RCRA/CERCLA Requirements, TBD - On Schedule**

Milestone Status: On schedule. M-024-58G was completed on May 19, 2014.

Regulatory Agency Comments: N/A

200 Area RCRA TSD Closures *Ecology Lead (RL – John Sands/Joe Axtell, CHPRC – Phil Burke)*

- **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, 4/30/13**
  - *The two closure plans were submitted to Ecology on April 23, 2013.*
  - *Ecology issued a letter on July 12, 2013 (Notice of Deficiencies for the 216-B-3 Main Pond Closure- DOE/RL-2013-24, Draft A and the 216-S-10 Pond and Ditch Closure Plan- DOE/RL-2006-12, Draft B), requesting DOE to revise and resubmit the closure plans correcting the deficiencies as part of Rev. 9 or as a permit modification.*
  - *DOE-RL NOD responses extended to December 9, 2013 to enable coordination with Ecology guidance documents in support of the Hanford RCRA permit.*
  - *Transmitted NOD responses on December 3, 2013.*

Schedule Status: **Milestone complete**; closure plans undergoing NOD process.

- **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**
  - *Submitted the five RCRA TSD Closure Plans on June 24, 2014, to fulfill the Tri-Party Agreement Interim Milestone M-037-02 which requires submittal to Ecology by June 30, 2014.*

Milestone Status: Complete.

- **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**
  - *The outstanding Notice of Deficiency comments on the closure plans have not been resolved which prevents finalization of the plans.*

Milestone Status: At Risk.

- **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**

  Milestone Status: On schedule

  Regulatory Agency Comments: N/A

Canyon Facilities

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

- **M-016-200A: Complete U Plant Canyon (221-U) demolition in accordance with the RD/RAWP, 9/30/2017**
  Milestone Status: At Risk
- **M-016-200B: Complete U Plant Canyon (221-U) barrier construction in accordance with the RD/RAWP, 9/30/2021**
  - *These milestones may be impacted by the 200-WA-1 and 200-OA-1 OU interim milestones statused above.*

  Milestone Status: At risk

  Regulatory Agency Comments: EPA expects milestones to be met.

Canyon Facilities *EPA/Ecology Lead* (RL – Ray Corey, CHPRC – Moses Jaraysi)

- **M-085-02: Submit Change Package to Establish Schedule for Submittal of RI/FS Work Plans for Canyons and RAWPs for 224B & 224T, 9/30/2015**

- **M-085-01: Submit a Change Package to Establish a Date for Major Milestone M-085-00, 9/30/2022**

- **M-085-00: Complete response actions for the canyon facilities/associated past practice waste sites, other Tier 1 Central Plateau facilities not covered by existing milestones, and Tier 2 Central Plateau facilities. This includes B Plant, PUREX, and REDOX canyons and associated past practice waste sites in 200-CB-1, 200-CP-1, and 200-CR-1 OUs. The milestone does not include U Plant or T Plant canyons, TBD**

  Milestone Status: On schedule

  Regulatory Agency Comments: N/A

200 AREA PROJECT MANAGERS' MEETING MILESTONE LIST
September 18, 2014

Milestone	Title	Due Date	Status	Operable Unit (or Activity Area)
M-015-110A	Submit RCRA FI/CMS & RI/FS Work Plan for 200-DV-1 OU	3/31/2015	OS	200-DV-1
M-015-110B	Submit CMS & FS & Proposed Plan/CA Decision for the 200-DV-1 OU	9/30/2015	TBM	200-DV-1
M-015-112	Submit Draft B 200-IS-1 RFI/CMS/RI/FS Work Plan to Ecology with Schedule Dates	2/28/2014	DR	200-IS-1
M-015-92A	Submit RCRA FI/CMS & RI/FS Work Plan for 200-EA-1 OU to Ecology	6/30/2015	TBM	200-EA-1
M-015-92B	Submit CMS & FS Reports & Proposed CA Decision/PP for 200-EA-1 & 200-IS-1	12/31/2016	TBM	200-EA-1 and 200-IS-1
M-015-113	Submit Draft B 200-SW-2 RFI/CMS/RI/FS Work Plan to Ecology Including Schedule	3/31/2015	OS	200-SW-2
M-015-93B	Submit RCRA FI/CMS & RI/FS Report & Proposed CA Decision/PP for 200-SW-2	12/31/2016	AR	200-SW-2
M-015-91B	Submit FS Report & Proposed Plan for the 200-BC-1/200-WA-1 OU	12/31/2015	TBM	200-BC-1 and 200-WA-1
M-015-38B	Submit Revised FS Report & PP for CW-1, CW-3 & OA-1 to EPA	10/30/2014	OS	200-CW-1, 200-CW-3, 200-OA-1
M-015-21A	Submit 200-BP-5 and 200-PO-1 OU FS Report & PP(s) to Ecology	6/30/2015	AR	200-BP-5 and 200-PO-1
M-015-00	Complete the RI/FS Process for all Non-Tank Farm OUs	12/31/2016	AR	M-015 Major Milestone
M-016-125	Submit RD/RA Work Plan to EPA for 200-CW-5 & 200-PW-1/3/6 per ROD	9/30/2015	OS	200-CW-5 and 200-PW-1/3/6
M-016-190	Complete Installation of Wells for U-Plant Area Pump & Treat Per 200-UP-1 RD/RA WP	9/30/2015	OS	200-UP-1
M-016-191	Complete Acceptance/Operation Test Procedures and Initiate Operations of U Plant Area Pump & Treat	3/30/2016	OS	200-UP-1
M-016-192	Submit I-129 Technology Evaluation Plan Draft A to EPA Per 200-UP-1 RD/RA WP	6/17/2016	OS	200-UP-1
M-016-193	Investigate SE Chromium Plume, Install Wells, Evaluate GW Monitoring Data & Install Monitoring Wells	9/30/2017	OS	200-UP-1
M-016-119-T01	Operational Sys in Place To Contain GW Plumes in 200 NPL Area	12/31/2020	OS	200 Area GW OUs
M-016-00	Complete Remedial Actions for all Non-Tank Farms & Non-Canyon OUs	9/30/2024	AR	M-016 Major Milestone
M-024-58G	Initiate Discussions of Well Commitments	6/01/2014	COMP	All GW OUs
M-024-65-T01	Conclude Discussions of Well Commitments	8/01/2014	COMP	All GW OUs
M-024-65	DOE Shall Complete Construction of all Wells Identified in M-24-11-01	12/31/2014	COMP	All GW OUs
M-024-00O	Complete Well Installations with RCRA/CERCLA Requirements	TBD	OS	All GW OUs

Milestone	Title	Due Date	Status	Operable Unit (or Activity Area)
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	6/30/2014	COMP	TSD Units
M-037-11	Complete Closure Requirements for 216-B-3 & 216-S-10	9/30/2016	AR	TSD Units
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	OS	TSD Units
M-016-200A	Complete U Plant Canyon (221 U Facility) Demolition	9/30/2017	AR	200-CU-1
M-016-200B	Complete U Plant Facility (221 U Facility) Barrier Construction	9/30/2021	AR	200-CU-1
M-085-02	Submit Change Package to Establish Schedule for Submittal of RI/FS WPs for Canyons & RAWPs for 224B & T	9/30/2015	OS	Canyon Facilities
M-085-01	Submit a Change Package to Establish Date for Major Milestone M-085-00	9/30/2022	OS	Canyon Facilities
M-085-00	Complete Response Actions for Specified Canyon Facilities & Waste Sites	TBD	OS	Canyon Facilities

Status Acronym Definitions

AR - At Risk
COMP - Complete
DR - Dispute Resolution
OS - On Schedule
TBD - To Be Determined
TBM - To Be Missed