

# **200 AREA PROJECT MANAGERS MEETING (PMM) MARCH 19, 2020**

Prepared for the U.S. Department of Energy  
Assistant Secretary for Environmental Management

Contractor for the U.S. Department of Energy  
under Contract DE-AC06-08RL14788

**CH2MHILL**  
Plateau Remediation Company

**P.O. Box 1600  
Richland, Washington 99352**

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**APPROVED**

*By Sarah Harrison at 11:42 am, Apr 28, 2020*

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Release Approval

Date

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**DISTRIBUTION  
PROJECT MANAGERS MEETING  
200 AREA GROUNDWATER and SOURCE OPERABLE UNITS  
March 19, 2020**

**FINAL MEETING MINUTES**

Electronic Distribution to:

Meeting Attendees

**200 AREA PROJECT MANAGERS MEETING  
Attachments List  
March 19, 2020**

**Minutes of the 200 Area Project Managers Meeting are attached. Minutes are comprised of the following:**

- |                     |  |
|---------------------|--|
| <b>Attachment 1</b> | <b>Agenda</b>  |
| <b>Attachment 2</b> | <b>Attendees Sign In Sheets</b>  |
| <b>Attachment 3</b> | <b>Signature Approval Page</b>   |
| <b>Attachment 4</b> | <b>Milestones and O. U. Status, January - February Data</b>                                  |
| <b>Attachment 5</b> | <b>Documents Entered into the AR and Approved Change Notices<br/>January - February Data</b> |
| <b>Attachment 6</b> | <b>Action Item List</b>  |

**200 AREA PROJECT MANAGERS MEETING  
AGENDA  
March 19, 2020**

**Milestones and O. U. Status- January – February 2020 Data**

- 200-PW-1/3/6 and 200-CW-5
- U Plant Canyon
- Canyon Facilities
- 200-CB-1 (B Plant)
- 200-CP-1 (PUREX)
- 200-CR-1 (REDOX)
- Waste Site Removal
- Deep Vadose Zone
- 200-EA-1
- 200-IS-1
- 200-SW-2
- 200-SW-1
- 200-OA-1, 200-CW-1, 200-CW-3
- 200-BC-1 and 200-WA-1
- 200-BP-5 and 200-PO-1
- 200-UP-1
- 200-ZP-1
- 200 Area Groundwater/200 West P&T Facility
- 200 Area RCRA TSD Closures
- Milestone Status

**Documents for the Administrative Record and Approved TPA Change Notices**

**Action Items**

**Closing Comments (all)**

- Sign concurrence to “Groundwater Summary by O.U.” and “Action Item List” if applicable
- EPA and ECY are reminding DOE that project documents are to be sent to the Project Managers.

Future PMM meetings will be held in 2420 Stevens Room 308 from 2:30-3:30pm as follows:

**2020**

- March 19
- May 21
- July 16
- September 17
- November 19

**200 Area Project Managers Status Meeting  
March 19, 2020**

<b>PRINTED NAME</b>	<b>ORGANIZATION</b>	<b>O.U. ROLE</b>	<b>TELEPHONE</b>
John Sands	DOE		via Microsoft Teams
Bill Faught	CHPRC		via Microsoft Teams
Laura O'Mara	CHPRC		via Microsoft Teams
Bob Cathel	CHPRC		via Microsoft Teams
Shelley Cimon	ODOH		via Microsoft Teams
Deborah Singleton	CHPRC		via Microsoft Teams
Dib Goswami	DOE		via Microsoft Teams
Craig Cameron	EPA		via Microsoft Teams
Theresa Bergman	CHPRC		via Microsoft Teams
Scott Davis	MSA		via Microsoft Teams
Shannan Hardziej	DOH		via Microsoft Teams
Randal Fox	CHPRC		via Microsoft Teams
Mostafa Kamal	DOE		via Microsoft Teams
Kate Amrhein	DOE		via Microsoft Teams
Naomi Jaschke	DOE		via Microsoft Teams
John Temple	DOE		via Microsoft Teams
Mike Cline	DOE		via Microsoft Teams
Bobby Long	DOE		via Microsoft Teams
Marty Doornbos	CHPRC		via Microsoft Teams
Brigitte Weese	ECY		

**Meeting Minutes Transmittal/Approval  
Project Managers' Meeting  
200 Area Groundwater and Source Operable Units  
March 19, 2020**

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**APPROVAL:** Michael W. Cline Digitally signed by Michael W. Cline  
Date: 2020.04.14 13:08:18 -07'00' **DATE:** 4/14/2020  
**200 Area Project Manager, DOE/RL**

**APPROVAL:** Mark S. French Digitally signed by Mark S. French  
Date: 2020.04.14 17:35:52 -07'00' **DATE:** 4/14/2020  
**200 Area Project Manager, DOE/RL**

**APPROVAL:** CRAIG CAMERON Digitally signed by CRAIG CAMERON  
Date: 2020.04.15 08:38:33 -07'00' **DATE:** 4/14/2020  
**200 Area Project Manager, EPA**

**APPROVAL:**  Digitally signed by Welsch, Kim (ECY)  
Date: 2020.04.14 14:29:51 -07'00' **DATE:** 4/14/2020  
**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 these minutes. Approval does not apply to any other attachments, which are included in these minutes for informational purposes.**

**200 AREA PROJECT MANAGERS MEETING**  
**Milestones and O.U. Status**  
**January – February 2020 Data**  
**March 19, 2020**

**200-PW-1/3/6 and CW-5 EPA Lead (RL- Robert Long, CHPRC – Jill Thomson)**

Limited funding is provided to support replanning in FY2020.

- Request and obtain project funding (FY16-18).
- CD-0, Approve mission need (FY18).
- CD-0 to CD-1, Approve alternative selection and cost range (FY18-20).
- A number of items are listed in the PW 1/3/6 RD/RA Work Plan for FY16-19. Would DOE confirm in the meeting minutes if any of these activities have been started and if any funds have been spent to date on these items?
- Please note that EPA has not agreed to any delays in this schedule and expects the RD/RA WP schedule to be followed since it is an enforceable part of the remedial action work plan. Any proposed changes to the schedule need to be discussed in a timely manner.
- Monthly meetings are ongoing with EPA to strategize the project.
- Any removal actions for stabilization activities at waste sites identified in the ROD require concurrence from EPA to ensure that it will not affect the ability to implement the selected remedial action.

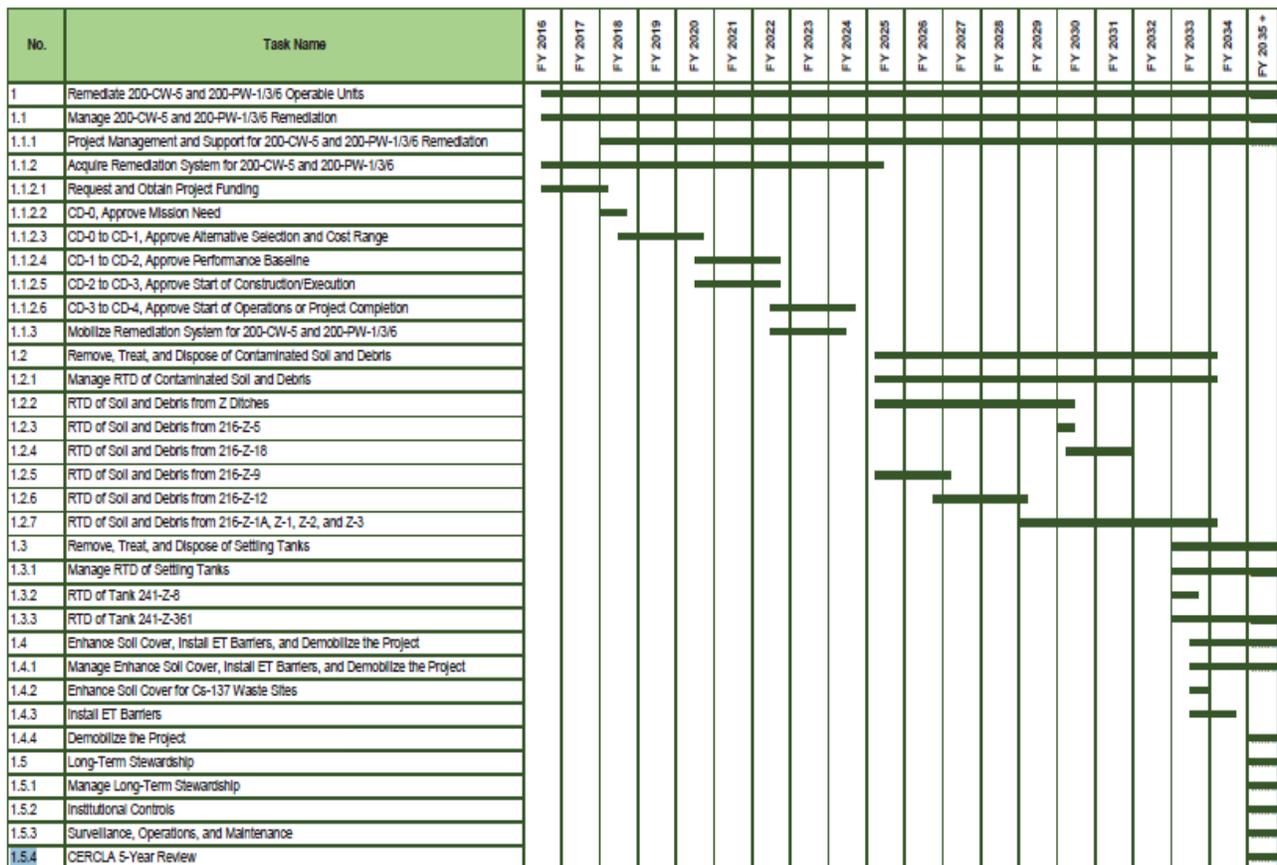


Figure 7-1. RA Schedule for the 200-CW-5, 200-PW-1, 200-PW-3, and 200-PW-6 OUs

**Regulatory Agency Comments: None**

**U Plant Canyon EPA Lead (RL – Robert Long, CHPRC – TBD)**

- o Nothing to report.

**Regulatory Agency Comments: None**

DOE/RL-2015-23, REV. 0

**200 AREA PROJECT MANAGERS MEETING**  
**Milestones and O.U. Status**  
**January – February 2020 Data**  
**March 19, 2020**

**Canyon Facilities** *EPA/Ecology Lead (RL – Robert Long, CHPRC – Bob Cathel)*

- B Plant: EE/CA at Ecology for comment resolution concurrence.
- 224B: RAWP and SAP Revision 0 approved for both documents.
- REDOX: Revision 1 to the RAWP and SAP are in internal review.
- PUREX: AM Draft A being prepared for transmittal to Ecology. RAWP and SAP Decisional Drafts are in internal review.
- PUREX Tier 2 Buildings/Facilities: RAWP Draft A at Ecology for comment resolution concurrence. SAP Draft A at Ecology and EPA for review.
- 224T: RAWP and SAP Draft A are being prepared for transmittal to EPA for review.

**Regulatory Agency Comments:** None

**200-CB-1 (B Plant)** *Ecology Lead (RL- Mike Cline, CHPRC – )*

- Not funded.

**M-085-70:** Submit to Ecology a Remedial Investigation/Feasibility Study Work Plan for 200-CB-1. Due date 09/30/2019.

- Status: Dispute resolution at the PM level until 06/30/2020.

**Regulatory Agency Comments:** None

**200-CP-1 (PUREX)** *Ecology Lead (RL- Mike Cline, CHPRC – Marty Doornbos )*

- Initiated preparation of the 200-CP-1 RI/FS work plan.
- Scheduled a meeting with Ecology for March 18, 2020 to discuss the scope and content of the RI/FS work plan. A future meeting with Ecology is planned to discuss the results from the internal storyboarding session on the RI/FS work plan and receive feedback on the approach.

**M-085-80:** Submit Remedial Investigation/Feasibility Study Work Plan for 200-CP-1 to Ecology. Due date 09/30/2020.

- Status: On Schedule.

**Regulatory Agency Comments:** None

**200-CR-1 (REDOX)** *EPA Lead (RL- Mike Cline, CHPRC – )*

- Not funded.

**M-085-90:** Submit a Remedial Investigation/Feasibility Study Work Plan for 200-CR-1 to EPA. Due date 09/30/2021.

- Status: At risk.

**Regulatory Agency Comments:** None

**Waste Site Removal** *Ecology Lead (RL- Bobby Long/P. Ensign, CHPRC – Darin Corriell, Cory McCoy)*

- Submitted to Ecology the three year rolling prioritized schedule as described in TPA milestone

**200 AREA PROJECT MANAGERS MEETING****Milestones and O.U. Status  
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- M-016-250D on March 27, 2019.

**M-016-250:** Submit to Ecology for approval a three-year rolling prioritized schedule consistent with site-wide clean-up priorities to implement waste site removal actions per Action Memoranda, March 31, 2016, and annually thereafter.

- Status: Draft CCF M 16-20-01 provided to Ecology for review. In addition, draft letter is in ESTARs for transmittal of the schedule, due 3/31/2020.
- Status: Complete on 3/27/2018 M-016-250D, due 3/31/2019.
- Change Control Form M 16-18-04 in dispute with EPA at the PM level until 6/30/20.
- CCF M-16-18-01 in dispute with Ecology at the PM level until 6/30/20.
- Six CS/NFA sites have been evaluated for ecological and cultural impacts and controls identified. Sampling activities fell below the IPL line for FY20 and no CS/NFA work is scheduled for this year.

**Regulatory Agency Comments: None****200-DV-1- Ecology Lead (RL –Kate Amrhein, CHPRC – Mark Byrnes)**

- Meeting scheduled with EPA and Ecology for March 23, 2020 to discuss proposed changes to the work plan text to bring it up to date and to change the schedule extending the milestone dates for the Corrective Measures Study and Feasibility Study Report and Proposed Plan/Proposed Corrective Action as stated in the current work plan (DOE/RL-2011-104). This meeting is a follow-up from a previous meeting held with Ecology on January 23, 2020.
- TPA-CN-0884 has been drafted and a meeting scheduled for March 23, 2020 to brief EPA and Ecology on resampling 216-T-19 and 216-S-13 waste sites for PCBs and PCB Congeners beginning in July/August 2020.
- A total of 1,454,444 gallons have been pumped from the perched water wells YE-28, YE-29 and YE-30 to date (March 01, 2020), with 52,000 gallons pumped between January 2020 through February 2020.
- .

**M-015-110B:** Submit Corrective Measures Study & Feasibility Study Report and Proposed Plan/Proposed Corrective Action Decision for the 200-DV-1 OU to Ecology. Due date 09/30/2023.

- Status: At risk.

- **Perched Water Volume Extracted / Mass Removed At 200 West P&T**

Year	Duration	Perched Water Extracted (gal)	Uranium Removed (kg)	Technetium-99 Removed (g [Ci])	Nitrate Removed (kg as NO3)
2012	08/2011 - 09/2012	65,167	12	0.37 (6.3×10 <sup>-3</sup> )	131
2013	10/2012 - 09/2013	92,303	13.1	0.74 (1.3×10 <sup>-2</sup> )	202.6
2014	10/2013 - 09/2014	75,620	24.1	0.59 (1.0×10 <sup>-2</sup> )	137.2
2015	10/2014 - 09/2015	68,065	19.3	0.41 (7.0×10 <sup>-3</sup> )	112.2
2016	10/2015 - 12/2016	59,289	11.2	0.36 (6.1×10 <sup>-3</sup> )	195
2017	01/2017 - 12/2017	334,000	77.5	2.67 (4.5×10 <sup>-2</sup> )	1,970
2018	01/2018 - 12/2018	380,000	74	2.87 (4.9×10 <sup>-2</sup> )	1,606
2019	01/2019 - 12/2019	328,000	63.3	2.72 (4.6×10 <sup>-2</sup> )	1,280
2020	01/2020-02/2020	52,000	7.96	0.53 (9.0×10 <sup>-3</sup> )	48.5
<b>Totals</b>	<b>08/2011 - 02/2020</b>	<b>1,454,444</b>	<b>301.4</b>	<b>11.2 (1.90×10<sup>-1</sup>)</b>	<b>5,683</b>

**200 AREA PROJECT MANAGERS MEETING**  
**Milestones and O.U. Status**  
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**Regulatory Agency Comments: None**

**200-EA-1- Ecology Lead (RL- Doug Hildebrand, CHPRC – Dave St John)**

- Resolved all Ecology's comments on the RI/FS Work Plan, except comment 30 which is to update the schedule (Figure 6-1). This update will occur following the 200 Area Central Plateau Agreement-in-Principle negotiations. No Change.
- EPAs signature on the RI/FS Work Plan Appendix A, Sampling and Analysis Plan (SAP) is on hold pending the outcome of the approach to accelerate cleanup decisions in the Central Plateau, identified as the RASCAL approach. Depending upon the outcome, the waste site characterization approach identified for 200-WA-1, 200-EA-1, and 200-IS-1 OUs may be significantly different than what is identified in the current SAPs.
- The team that includes DOE, EPA and Ecology continues to work on the development of a path forward for accelerating cleanup decisions for the Central Plateau Waste Sites. A presentation that outlines details of the suggested path forward was planned for the March 19, 2020 IAMIT meeting and was rescheduled to April 16, 2020 due COVID-19. Suggestions for the IAMIT include the development of new OU designations that would support early actions for 200-Area waste sites.

**M-015-92B:** Submit RFI/CMS & RI/FS Report and Proposed Corrective Action Decision/Proposed Plan for the 200-EA-1 OU (Central Plateau 200 East Inner Area) to Ecology. Due date 11/30/2022

- Status: At risk.

**Regulatory Agency Comments: None**

**200-IS-1 - Ecology Lead (RL- Doug Hildebrand, CHPRC – Dave St John)**

- Not funded in FY20.

**M-015-112:** Submit Draft B, 200-IS-1 OU Pipeline System Waste Sites RFI/CMS/RI/FS work plan to Ecology, including a schedule of completion dates for major tasks and deliverables. Due date November 30, 2020.

- Status: At risk.

**Regulatory Agency Comments: Trying to start mid-April, however it is being impacted by COVID-19.**

**200-SW-2 Ecology Lead (RL- Doug Hildebrand, CHPRC – Dave St John)**

- Not funded in FY20.

**M-015-93C:** Initiate characterization fieldwork for the 200-SW-2 Operable Unit landfills in accordance with the schedule in the approved RI/FS/RFI/CMS Work Plan. Due date 09/30/2018.

- Status: Dispute resolution. Potential changes to be evaluated with M-091 series milestones discussions.

**Regulatory Agency Comments: None**

**200-SW-1/NRDWL Ecology Lead (RL- Doug Hildebrand/Mostafa Kamal, CHPRC- Dave St John)**

- Continued RL/Ecology meetings to discuss, and seek concurrence on the resolution of minor Hold/Needs deficiencies and issues that were identified in September 2018 with additional guidance in August 2019. Concurrence has been reached on eleven minor Hold/Needs deficiencies and resolution of the remaining deficiencies is continuing.
- Continue to support discussions regarding the development of a planning approach and processes for the development of the design and design related engineering documentation for the NRDWL/SWL CAP.

**Regulatory Agency Comments: None**

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**Milestones and O.U. Status**  
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**200-OA-1 (Outer Area), 200-CW-1, and 200-CW-3 EPA Lead (RL- Jim Hanson, CHPRC – Dave St John)**

- Not funded in FY20.

**M-015-38B** Submit FS/PP for 200-CW-1, 200-CW-3 and 200-OA-1 OUs to EPA. Due date 07/31/2023.

- Status: At Risk.

**Regulatory Agency Comments: None**

**200-BC-1 and 200-WA-1 EPA Lead (RL- Joe Axtell, CHPRC – Dave St John)**

- Continued performing data evaluation and reporting tasks for the Electro Resistivity Tomography (ERT) survey performed at 216-U-1/2 and 216-U-16
- The team that includes DOE, EPA and Ecology continues to work on the development of a path forward for accelerating cleanup decisions for the Central Plateau Waste Sites. A presentation that outlines details of the suggested path forward was planned for the March 19, 2020 IAMIT meeting and was rescheduled to April 16, 2020 due COVID-19. Suggestions for the IAMIT include the development of new OU designations that would support early actions for 200-Area waste sites.

**M-015-98:** Complete remedial investigation of U Plant related waste sites located in 200-WA-1 in accordance with the WA-1 RI/FS Work Plan. Due date 06/30/2019.

- Status: Dispute resolution at the PM level until 06/30/2020.

**M-015-99:** Complete remedial investigation of PFP related waste sites located in 200-WA-1 in accordance with the 200-WA-1 and 200-BC-1 RI/FS Work Plan. Due date 12/31/2019.

- Status: Dispute resolution at the PM level until 06/30/2020.

**M-015-84** Complete RI of 200-WA-1 and 200-BC-1 Waste Sites in Accordance with RI/FS Work Plan. Due date 12/31/2021

- Status: Dispute resolution at the PM level until 06/30/2020.

**M-015-91B** Submit FS/PP for the 200-BC-1/200-WA-1 OUs to EPA. Due date 07/31/2023.

- Status: Dispute resolution at the PM level until 06/30/2020.

**Regulatory Agency Comments: None**

**200-BP-5 and 200-PO-1 Ecology Lead (RL – Naomi Jaschke, CHPRC – Chris Cearlock)**

- The Revision 0, Proposed Plan for Interim Action Remediation of the 200-BP-5 and 200-PO-1 Operable Units (DOE/RL-2018-58) will be finalized and ready for public comment. EPA administrator approved releasing Proposed Plan for public comment on March 17, 2020.
- A total of over 14 million gallons of groundwater have been pumped from the BP-5 extraction wells in calendar year 2020 as part of the removal action (approximately 165 gpm).

Groundwater Extracted (millions of gallons)			Total Groundwater Extracted in 2020 (millions of gallons)	Total Groundwater Extracted - September 2015 through February 2020 (millions of gallons)
Well	Jan 2020	Feb 2020		
299-E33-268 (YE27)	-	0.4	0.4	57.4

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299-E33-360 (YE31)	5.1	4.3	9.4	208.0
299-E33-361 (YE-32)	2.3	2.2	4.5	23.7
Total	7.4	6.9	14.3	289.1

\*Data through February 29, 2020.

**Regulatory Agency Comments: None**

**200-UP-1** EPA Lead (*RL – Kate Amrhein, CHPRC –Chris Cearlock*)

- Transmitted the Rev. 1, Draft A, 200-UP-1 Groundwater Operable Unit Remedial Design/Remedial Action Work Plan to EPA on February 11, 2020.
- Received comments from EPA for the Revision 1, Draft A, Performance Monitoring Plan for the 200-UP-1 Groundwater Operable Unit Remedial Action on February 12, 2020.

**Regulatory Agency Comments: None**

**200-ZP-1** EPA Lead (*RL – Kate Amrhein, CHPRC – Mark Byrnes*)

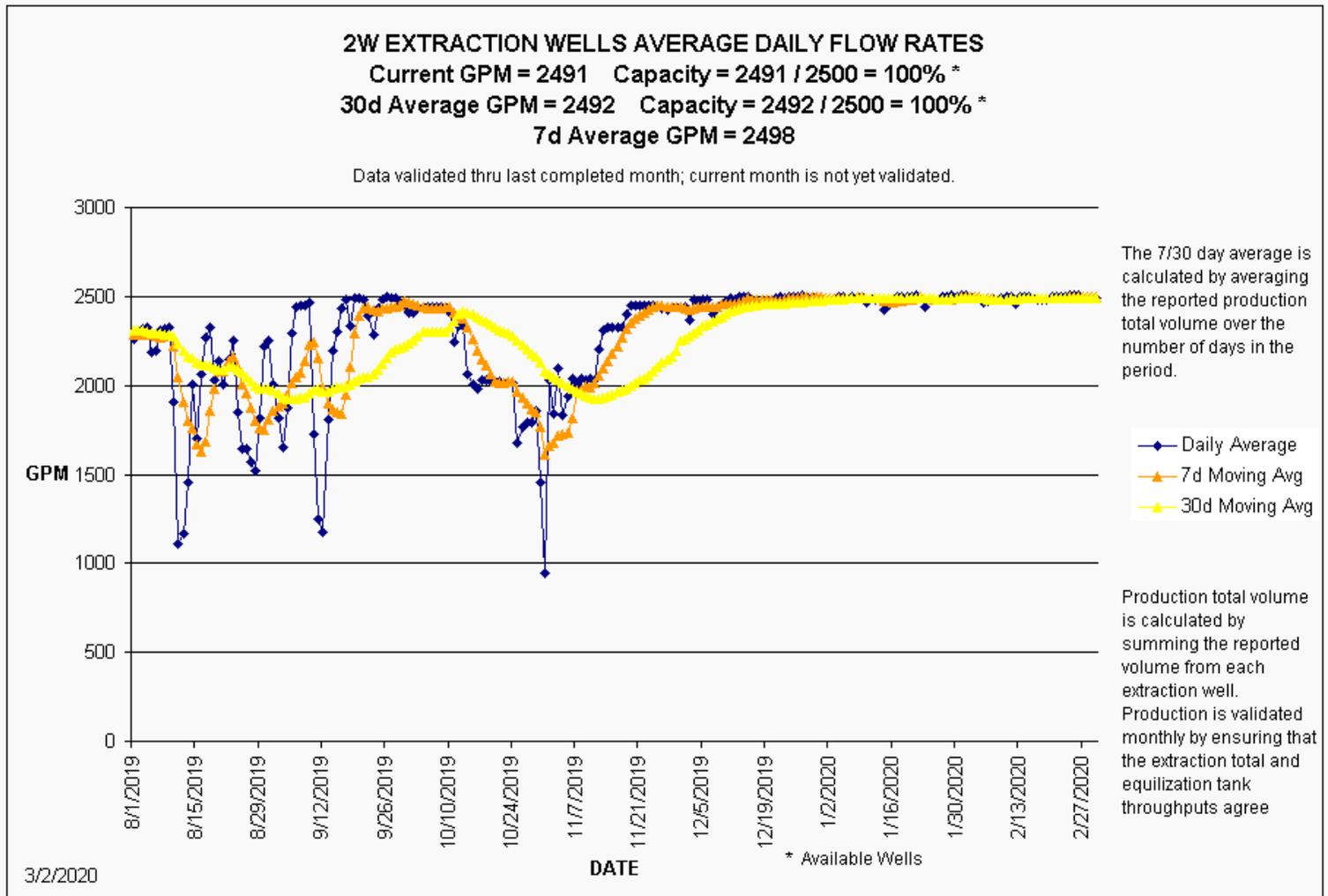
- Continued implementing the Optimization Study Plan (DOE/RL-2019-38, Rev. 0) to collect the data needed to evaluate remedy performance enhancements and remedy configuration changes associated with P&T operations.
- Drilling began January 27, 2020 and on February 18, 2020 on the first (299-W11-103) and second (299-W11-104) extraction wells to be installed in FY2020, supporting the 200-ZP-1 Optimization Study Plan (DOE/RL-2019-38).
- Received approval from EPA and issued the 200-ZP-1 Ringold A Characterization Sampling and Analysis Plan (DOE/RL-2019-23, Rev. 0) on February 13, 2020.
- Briefed EPA on February 5, 2020 on the 4<sup>th</sup> Quarter CY2019 200 West P&T performance, which was well received.

**Regulatory Agency Comments: None**

**200 Area Groundwater/200 West P&T Facility**

Month	Gallons Treated (millions)	Nitrate-N (kg)	NO3 (kg)	Carbon Tetrachloride (kg)	Chromium (kg)	Uranium (kg)	Ci of Tc-99
January	111.05	0.0	0.0	185	0.33	7.38	0.16
February	104.06	0.0	0.0	179	0.09	7.26	0.14

**200 AREA PROJECT MANAGERS MEETING**  
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**M-024 Well Installation** Ecology Lead (RL-Kathy Higgins, CHPRC-Dave Capelle)

**M-024-71-T01:** Conclude Discussions of Well Commitments Initiated Under M-024-58.

- Status: Due 08/01/2020, On schedule.

**M-024-71:** Complete the Construction of All Wells Listed for CY20 and Before.

- Status: Due 12/31/2020, On schedule.

**Regulatory Agency Comments:** None

**200 Area RCRA TSD Closures** Ecology Lead (RL – Mostafa Kamal, CHPRC – Dave St John)

- 216-B-63 Trench Closure Plan
  - On hold, pending resolution of Ecology’s input regarding conveyances as related to the closure unit, the identification of equipment in the closure plan, and comments related to the historical documentation to be included in the closure plan.
- 216-B-3 Pond Closure Plan
  - On hold, pending resolution of Ecology’s comments on the 216-B-63 which will be applied to this closure plan.
- 216-S-10 Pond and Ditch Closure Plan

## 200 AREA PROJECT MANAGERS MEETING

### Milestones and O.U. Status January – February 2020 Data March 19, 2020

- On hold, pending resolution of Ecology's comments on the 216-B-63 which will be applied to this closure plan.;

Meetings continue with Ecology to discuss and resolve comments on these three closure plans.

**M-037-10:** Complete Unit-Specific Closure Requirements according to the closure plan(s) for six (6) TSD Units: 207-A South Retention Basin, 216-A-29 Ditch, 216-A-36B Crib, 216-A-37-1 Crib, 216-B-63 Trench, and Hexone Storage and Treatment Facility (276-S-141/142).

- Status: Due 09/30/2020, In Abeyance.
- The 45-day public comment period ended November 29, 2019; DOE and Ecology are finalizing responses to comments and final milestone approval package.

**M-037-11:** Complete unit-specific closure requirements for two (2) TSD Units: 216-B-3 Main Pond system and 216-S-10 Pond and Ditch Status: Due 09-30-2020, At risk. Currently under negotiation in accordance with 19-AMRP-0066 (AR-02713). Tentative agreement on TPA revisions in response to the coordinated closure negotiations.

- Status: Due 09/30/2024, In Abeyance.
- The 45-day public comment period ended November 29, 2019; DOE and Ecology are finalizing responses to comments and final milestone approval package.

**M-037-13:** Complete Unit-Specific Closure Requirements according to the closure plan-241-CX Tank System (241-CX-70/71/72).

- Status: Due 09/30/2022, In Abeyance.
- The 45-day public comment period ended November 29, 2019; DOE and Ecology are finalizing responses to comments and final milestone approval package.

#### **Monthly Performance Report Assessment**

The DOE project managers have not identified any significant issues with CHPRC's previous Monthly Performance Report to be addressed at this meeting.

#### **Central Plateau Milestones**

- Target Date M-0 16-1 19110 1, "DOE will have a remedy in place to contain plumes existing groundwater (except iodine, nitrate, and tritium) in the 200 NPL, Area (Central Plateau)", due December 31, 2020.
  - On February 25, 2020, DOE submitted a letter to Ecology and the EPA recommending that this target date be deleted because it has been overtaken by the interim action record of decision for 200-UP-I issued on September 27, 2012, and the strategy for the 200-BP-5 and 200-PO-1 groundwater operable units, which was reviewed and approved by the Washington State Department of Ecology and US Environmental Protection Agency in IAMIT Determination # 18-002 dated July 19, 2018. The record of decision for 200-UP-1 and the strategy for 200-BP-5 and 200-PO-1 groundwater operable units have deferred a final remedy decision to a future date yet to be determined. This supersedes the target date established in August of 2009, to have remedies in place, since the final remedy will not be known until sometime in the future when the final records of decision for these operable units have been issued.
  - Draft change request has been prepared for ECY and EPA for review identifying deletion of target dates.

**200 AREA PROJECT MANAGERS MEETING**  
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**Central Plateau Milestones**

<b>MS#</b>	<b>Title</b>	<b>Due Date</b>
<b>Fiscal Year 2018</b>		
<b>M-015-93C</b>	Initiate characterization field work for the 200-SW-2 OU	9/30/2018 Dispute Resolution
<b>M-016-255</b>	DOE shall complete the removal of all waste sites for FY2018 as identified in TPA Change Package M-16-17-01.	9/30/2018 Dispute Resolution
<b>Fiscal Year 2019</b>		
<b>M-016-256</b>	DOE shall complete the removal of all waste sites for FY2019 as identified in TPA Change Package M-16-17-01.	9/30/2019 Dispute Resolution
<b>M-015-98</b>	Complete remedial investigation of U Plant related waste sites located in 200-WA-1 in accordance with the WA-1 RI/FS Work Plan	6/30/2019 Dispute Resolution
<b>M-085-70</b>	Submit RI/FS Work Plan for 200-CB-1	9/30/2019 Dispute Resolution
<b>Fiscal Year 2020</b>		
<b>M-015-99</b>	Complete remedial investigation of PFP related waste sites located in 200-WA-1 in accordance with the 200-WA-1 and 200-BC-1 RI/FS Work Plan.	12/31/2019 Dispute Resolution
<b>M-016-250E</b>	Submit to ECY a 3-Year Rolling Prioritized Schedule to Implement Waste Site Removal Actions	3/31/2020 On Schedule
<b>M-024-58M</b>	Initiate Discussions of Well Commitments	6/01/2020 On Schedule
<b>M-024-71-T01</b>	Conclude discussions of well commitments initiated under M-024-58	8/1/2020 On Schedule
<b>M-085-72</b>	Submit RAWP to implement the approved Action Memorandum for 224-B	9/30/2020 Completed 09/19/2019
<b>M-085-80</b>	Submit RI/FS Work Plan for 200-CP-1	9/30/2020 On Schedule
<b>M-085-100</b>	Submit a RAWP to implement the approved Action Memorandum for 224-T	9/30/2020 On Schedule
<b>M-037-10</b>	Complete Unit-Specific closure requirements for six TSD units	9/30/2020 In Abeyance
<b>Fiscal Year 2021</b>		
<b>M-015-112</b>	Submit RFI/CMS & RI/FS Work Plan for 200-IS-1 Work Plan to Ecology	11/30/2020 At Risk
<b>M-016-119-T01</b>	Operational System in Place to Contain GW Plumes in 200 NPL Area	12/31/2020 On Schedule
<b>M-024-71</b>	Complete the Construction of All Wells Listed for CY20 and Before	12/31/20 On Schedule

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<b>M-016-250F</b>	Submit to ECY a 3-Year Rolling Prioritized Schedule to Implement Waste Site Removal Actions	03/31/2021 On Schedule
<b>M-024-58N</b>	Initiate Discussions of Well Commitments	06/01/2021 On Schedule
<b>M-024-72-T01</b>	Conclude discussions of well commitments initiated under M-024-58 by August 1, 2021.	08/01/2021 On Schedule
<b>M-085-90</b>	Submit RI/FS Work Plan for 200-CR-1	9/30/2021 At Risk
<b>Fiscal Year 2022</b>		
<b>M-015-84</b>	Complete RI of 200-WA-1 and 200-BC-1 Waste Sites in Accordance with RI/FS Work Plan	12/31/2021 Dispute Resolution
<b>M-024-72</b>	Complete the Construction of All Wells Listed for CY21 and Before	12/31/2021 On Schedule
<b>M-016-250G</b>	Submit to ECY a 3-Year Rolling Prioritized Schedule to Implement Waste Site Removal Actions	03/31/2022 On Schedule
<b>M-026-07D</b>	Evaluation of Tritium Treatment Technology to EPA & Ecology	3/31/2022 On Schedule
<b>M-024-58O</b>	Initiate Discussions of Well Commitments	06/01/2022 On Schedule
<b>M-024-73-T01</b>	Conclude discussions of well commitments initiated under M-024-58 by August 1, 2022.	08/01/2022 On Schedule
<b>M-037-13</b>	Complete unit-specific closure requirements for 241-CX Tank System (241-CX-70/71/72)	9/30/2022 In Abeyance
<b>Fiscal Year 2023</b>		
<b>M-015-92B</b>	Submit RFI/CMS, RI/FS Study report and Proposed CAD/PP for 200-EA-1	11/30/2022 At Risk
<b>M-024-73</b>	Complete the Construction of All Wells Listed for CY22 and Before	12/31/2022 On Schedule
<b>M-015-93B</b>	Submit RFI/CMS & RI/FS Study Report and proposed CAD/PP for 200-SW-2 OU	1/31/2023 At Risk
<b>M-015-92C</b>	Submit RFI/CMS & RI/FS Study report and proposed CAD/PP for the 200-IS-1 OU to Ecology	3/31/2023 At Risk
<b>M-015-38B</b>	Submit FS/PP for 200-CW-1, 200-CW-3 and 200-OA-1 OUs	7/31/2023 At Risk
<b>M-015-91B</b>	Submit FS/PP for the 200-BC-1 and 200-WA-1 OUs to EPA	7/31/2023 Dispute Resolution
<b>M-015-110B</b>	Submit CMS & FS and Proposed CAD/PP for 200-DV-1 OU	9/30/2023 At Risk
<b>Fiscal Year 2024</b>		
<b>M-016-200A</b>	Complete U Plant canyon demolition	9/30/2024 On Schedule

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<b>M-037-11</b>	Complete unit-specific closure requirements for 216-B-3 Main Pond System and 216-S-10 Pond and Ditch	9/30/2024 In Abeyance
<b>Fiscal Years 2025-2027</b>		
<b>M-085-76</b>	Initiate response actions for the B Plant geographic area	9/30/2025 On Schedule
<b>M-085-84</b>	Initiate response actions for the PUREX geographic work	9/30/2025 On Schedule
<b>M-085-01</b>	Submit change package to establish a date for major milestone M-085-00	6/30/2026 On Schedule
<b>M-015-00</b>	Complete the RI/FS (or RFI/CMS) Process for All Non-Tank Farm Operable Units	6/30/2026 On Schedule
<b>M-016-200B</b>	Complete U Plant barrier construction	9/30/2027 On Schedule

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**Documents Submitted to the AR**

<b>Number</b>	<b>Title</b>	<b>Referencing Document</b>
ECF-Hanford-18-0058_R1	Practical Quantitation Limits for Groundwater Environmental Samples	Annual Reports
DOE/RL-2012-53_R1	Interim Status Groundwater Quality Assessment Plan for the Single-Shell Tank Waste Management Area B-BX-BY	DOE/RL-2019-65
RCRA-CN-01_DOE/RL-2008-59_R2	RCRA Interim Status Change Number 1: Interim Status Groundwater Monitoring Plan for the 216-B-3 Pond	DOE/RL-2019-65
SGW-45095, Rev. 0	Estimated Influent Concentrations of Constituents of Interest for Mass Balance	DOE/RL_2009-124_R6_DA
SGW-45232, Rev. 0	Supplemental Mass Balance for the 200 West Pump and Treat Facility	DOE/RL_2009-124_R6_DA
RPP-23403_R5	Single-Shell Tank Component Closure Data Quality Objectives	DOE/RL-2019-31_R0
ECF-200E-19-0081_R0	Groundwater Elevation Mapping for 200 East Area - Quarter 1 Calendar Year 2019	SGW-38815
ECF-200W-19-0082_R0	Groundwater Elevation Mapping for 200 West Area - Quarter 1 Calendar Year 2019	SGW-38816
ECF-HANFORD-19-0091_R0	Hydraulic Gradient and Average Linear Velocity Calculations - Quarter 1 Calendar Year 2019	SGW-38817
ECF-HANFORD-19-0114_R0	Preparation of the March 2019 Hanford Site Water Table Map	SGW-38818
SGW-63802_R0	Hanford Site RCRA Groundwater Quarterly Report for January through March 2019	N/A
ECF-200W-16-0092_R1	Calculation of Three-Dimensional Groundwater Concentration Plumes for 200-West for Calendar Year (CY) 2015	Annual P&T Reports
DOE/RL-2019-23	200-ZP-1 Operable Unit Ringold Formation Unit A Characterization Sampling and Analysis Plan	N/A
ECF-HANFORD-20-0007	Calculation of Critical Means for Calendar Year 2020 RCRA Groundwater Monitoring	Annual P&T Reports
SGW-62096_R1	200-DV-1 Operable Unit Shallow Soil Risk Sampling Field Summary Report	200-DV-1 Field Summary Reports
SGW-61595_R1	200-DV-1 Operable Unit T-Complex Field Summary Report	200-DV-1 Field Summary Reports

**Approved Change Notices**

<b>Number</b>	<b>Title</b>	<b>Referencing Document</b>
TPA-CN-0877	DOE/RL-2009-124, 200 West Pump and Treat Operations and Maintenance Plan, Rev. 5	DOE/RL-2009-124_R5
TPA-CN-0878	DOE/RL-2014-51, Sampling and Analysis Plan for 200-DV-1 Operable Unit Perched Water Pumping/Pore Water Extraction, Rev. 0	DOE/RL-2014-51_R0
TPA-CN-0879	DOE/RL-2013-52, Sampling and Analysis Plan for Perched Water Wells C8914 and C8915 in the 200-DV-1 Operable Unit, Rev. 0	DOE/RL-2013-52_R0

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TPA-CN-0880	DOE/RL-2014-34, Action Memorandum for 200-DV-1 Operable Unit Perched Water Pumping/Pore Water Extraction, Rev. 0	DOE/RL-2014-34_R0
TPA-CN-0881	DOE/RL-2014-37, Removal Action Work Plan for 200-DV-1 Operable Unit Perched Water Pumping/Pore Water Extraction, Rev. 0	DOE/RL-2014-37_R0
TPA-CN-0882	DOE/RL-2016-22, Waste Management Plan for Perched Water Pumping/Pore Water Extraction, 200-DV-1 Operable Unit, Rev. 0	DOE/RL-2016-22_R0
TPA-CN-0870	DOE/RL-2004-18, Waste Control Plan for the 200-PO-1 Operable Unit, Revision 1	DOE/RL-2004-18_R1

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**OPEN ACTION ITEM TRACKING**

Action #	Action/Subject	Assigned To	Owed To	Assigned Date	Original Due Date	Adjusted Due Date	Status
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