

**DISTRIBUTION  
PROJECT MANAGERS' MEETING,  
200 AREA GROUNDWATER SOURCE OPERABLE UNITS  
MAY 21, 2009**

DOE/RL

(No hard copy distribution)

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Craig Cameron

B1-46

Ecology

John Price

H0-57

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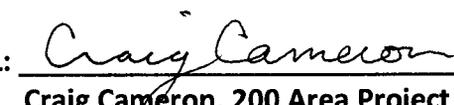
**EDMC**

Meeting Minutes Transmittal/Approval  
Project Managers' Meeting  
200 Area Groundwater and Source Operable Units  
1200 Jadwin, Richland, Washington  
May 21, 2009

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APPROVAL:  DATE: 05/21/09  
Al Farabee, 200 Area Project Manager, DOE/RL

APPROVAL:  DATE: 05/21/2009  
Briant Charboneau, 200 Area Unit Manager, DOE/RL

APPROVAL:  DATE: 05/21/2009  
Craig Cameron, 200 Area Project Manager, EPA

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APPROVAL:  DATE: 5/21/09  
John Price, 200 Area Project Manager, Ecology

HFFACO Action Plan Section 4.1 requires signature of agreements and commitments made during the Unit Manager Meeting. Approval of these minutes documents approval of agreements and commitments documented in Attachment 3 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 May 21, 2009 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>CHPRC- PMBS- Baseline</b>





**200 Area Project Managers' Meeting  
Agreements and Issues List  
May 21, 2009**

**Agreement:** None identified.

**Issue:** None identified.

**Delegations for May 21, 2009 PMM meeting:**

EPA	Craig Cameron
Ecology	Les Fort- Delegate for John Price
DOE/RL	Arlene Tortoso
	Al Farabee

200 Area Project Managers' Meeting

Attachment 3  
CHPRC-0900225 R1

OPEN ACTION ITEM TRACKING

Action #	Action/Subject	Assigned To	Owed To	Assigned Date	Original Due Date	Adjusted Due Date	Status
117	DOE to provide a schedule for completing the ECO Risk Assessment.	RL- Bryan Foley	EPA/Ecology	1/15/09	2/19/09	3/10/09	Open: A meeting was held to discuss the path forward to produce a Rev. B. Action will remain open until the updated schedule is available.
121	For next PMM provide an update on annual IC process	RL-Boyd Hathaway	EPA/Ecology	3/19/2009	4/16/2009	5/21/2009	Closed: Presentation provided at 5-21-09 200 Area PMM.

## 200 AREA PROJECT MANAGERS' MEETING STATUS

May 21, 2009

### Central Plateau Geographic Remediation

#### **Key Facility Negotiations** (RL: Al Farabee) – (Tina Crane)

- The agreement in principle for negotiation of Central Plateau Facility disposition activities was signed by Tri-Parties August 13, 2008. Technical discussions began October 30, 2008, May 2009 meetings were scheduled for May 5 and May 19.

**Schedule Status:** The negotiation completion schedule options will continue to be discussed at the upcoming meetings.

Regulator Comments

#### **CP MIS Utilization** (RL: Briant Charboneau/Frank Roddy) – (Bo Wier)

- Funding has been identified for MIS Pilot Test Project.
- See the schedule provided (attachment 5)

**Schedule Status:** N/A

Regulator Comments

### U-Zone Remediation

#### **221-U Disposition** (RL: Wade Woolery) – (Tina Crane)

- Contractor sampling strategy for tank D-10 in U Plant's cell 30 was developed and routed to RL and EPA. Comments electronically and verbally received from EPA on March 31, 2009. Latest comment response submitted to EPA on May 13, 2009.
- Mock-up sampling operations for the tank in 221-U Cell 30 are ongoing at MASF.

**Schedule Status:** Canyon work activities on schedule

Regulator Comments
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**U-Ancillary Facilities** (RL: Wade Woolery) – (Tina Crane)

- D&D operations, including asbestos removal, utility isolation, characterization sampling, and demolition prep work are ongoing.
- The demolition of the tanks in 211-U was initiated on May 13, 2009.

**Schedule Status:** U Plant Ancillary Facilities work activities on schedule.

Regulator Comments
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**200-UW-1**

- 200-UW-1 is part of the U-Zone remediation but is reported on later in this presentation.

**200 North Remediation**

**212-N, P, R** (RL: Wade Woolery) – (Tina Crane)

- The Action Memorandum (DOE/RL-2008-80, Rev 0) was signed by the EPA on May 19, 2009.
- The Removal Action Work Plan (RAWP) (DOE/RL-2009-11) was signed by the EPA on May 19, 2009.
- EPA comments to the Sampling and Analysis Plan are being addressed.

**Schedule Status:** Demolition preparation activities can be initiated with the approval of the RAWP

Regulator Comments

**200-CW-3 Waste Sites (RL: Wade Woolery) – (Tina Crane)**

- Field Sampling of the ponds and the pipelines in the 200 North Area commenced and is expected to continue through August.

**Schedule Status:** On schedule.

Regulator Comments

**Rail Car Disposition Options Study (RL: Wade Woolery) – (Tina Crane)**

- RL will be revising the Rail Car Disposition Options Study timeline.
- Two options identified in the study are currently being investigated
  - Potential re-use of some or all of the cars,
  - Utilization of the ERDF ROD Amendment and the necessary documentation needed for the disposition purposes.

**Schedule Status:** TBD.

Regulator Comments

**Central Plateau Groundwater and Source Operable Units**

**200-BC Control Area (BCCA) Ecology Lead (RL: Doug Chapin) – (Curt Walker/Ron Brunke)**

- Interim On Site Coordinator report has been finalized and is ready to submit to Ecology. Preparations are underway to restart BCCA North removal action Summer 2009.

**Schedule Status:** On Schedule.

Regulator Comments
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**200-UP-1 Ecology Lead (RL: Arlene Tortoso) – (Curtis Wittreich)  
(M-15-17A, 12/31/10, Combined Remedial Investigation/Feasibility Study Report, and Proposed Plan)**

- Remedial Investigation:
  - RI activities include continuing routine monitoring and data collection until one full year of data are collected from the most-recently installed wells.
- Combined RI/FS Report:
  - Preparation of the RI/FS report continues. Groundwater data assembly is underway to initiate data quality assessment and data reduction.
- Remedial Design/Remedial Action Work Plan (RD/RAWP):
  - Implementation of the approved Explanation of Significant Difference (ESD) requires modifications to the interim action RD/RAWP. The revised RD/RAWP will be submitted within 180 days of the ESD approval date. The RD/RAWP revision is also planned to address preliminary design for a pump and treat system to address the Tc-99 at WMA S-SX consistent with proposed milestone M-016-120
- Pump and Treat
  - 200-UP-1 interim action pump-and-treat system in the vicinity of U Plant is in operation with two extraction wells.
  - The 200-UP-1 and 200-ZP-1 Operable Units Pump and Treat System Annual Report for Fiscal Year 2008 is expected to be issued by the end of June.

**Schedule Status:** On schedule

Regulator Comments:

**200-ZP-1 EPA Lead** (RL: Arlene Tortoso) – (Mark Byrnes)

Remediation Treatment Status:

- Currently 4 of the 14 groundwater extraction wells are pumping water to the ZP-1 interim treatment system at a rate of 125 gpm. The remaining 10 extraction wells are off line to support an aquifer test to be performed in new extraction well C7017 (EW-1).
- Extraction wells W11-45 and W11-46 are both on line pumping water to ETF at a rate of approximately 45 gpm.
- Drilling has started on first three final extraction wells. Well EW-1 (C7017) is currently at a depth of 461 ft, EW-2 (C7018) is at a depth of 250.5 ft, and EW-3 (C7021) is at a depth of 452.5 ft.
- Aquifer testing in EW-1 (C7017) is scheduled to begin within the next few weeks.
- Resin testing is ongoing at the Corvallis laboratory to determine the amount various resins will uptake carbon tetrachloride.
- Work on the Remedial Design/Remedial Action Work Plan is on schedule. The Draft A RD/RAWP is currently being reviewed by EPA, comments are due to DOE by May 31, 2009.
- Design work for the 200-West Area Groundwater Treatment System is on schedule. The 30% design review will occur on June 10 and 11.
- Met with EPA and Ecology on May 7<sup>th</sup> to review the modeling that was completed to support the remedial design. A report summarizing recent groundwater modeling performed to support the 200 West Area Groundwater Treatment System was provided as a Decisional Draft for review. Comments are due June 12, 2009.

**Schedule Status:** On schedule.

Regulator Comments

**200-PW-1, 200-PW-3, & 200-PW-6 EPA Lead (RL: Arlene Tortoso) – (Tony Knepp, Mark Byrnes, Virginia Rohay PW-1 SVE)**

The Draft B FS was transmitted to EPA on April 14, 2009 and is undergoing review.

- Follow-up meetings are needed with Ecology and EPA regarding Central Plateau cross-cutting issues that could affect the prioritization and remediation approach for this OU.
- EPA requested a two week extension for reviewing the FS. Comments are due May 29, 2009
- Soil Vapor Extraction System (SVE):
  - Monthly monitoring results for April 2009 for the soil vapor probes and wells were consistent with the results from previous monitoring.
  - Two new SVE units continue to operate at Z-1A and Z-9.

**Schedule Status:** A schedule for submittal of the Draft B PP has not been set, pending the outcome of the comments received from EPA on the FS.

Regulator Comments

**Deep Vadose Treatability Test M-15-53 (RL: John Morse) – (Glen Chronister)**

**(M-15-53, 6/30/2009, Begin Field test activities for Desiccation field Testing at 200-BC-1 (BC Cribs) for Tc-99 remediation) and**

**(M-15-54, 1/31/2010, Submit report on Reactive Gas testing for sequestration of Uranium that will support remedial action decision making)**

- Characterization Testing:
  - Overall system design completed. Assembly of equipment in progress
  - The instrumentation of CPT pushes to support the characterization field test is underway. Five pushes were completed 5/18/09.
  - Permeameter pushes/data collection now scheduled to follow instrumented DPT holes and should continue for the following two weeks.
  - Field Testing (Phase 1 Characterization Test) will commence following completion of the permeameter work and be ready to initiate the week of 6/1/09.

- Desiccation Lab Testing (PNNL):
  - Laboratory experiments supporting pilot test design continue. Tests focus on tracer gas use, evaluation of desiccation in heterogeneous media, and incorporation of results into flow and transport modeling. All testing and associated report will conclude by end of September of '09.
- Expert Review Panel:
  - The Expert Review Panel met on 4/28 through 4/30 and provided a number of comments and suggestions aimed at proper configuration and testing of the Pilot Phase of the Desiccation Testing. We will be meeting in May to evaluate these comments and review them with our customer providing recommendations on final design of the test.
- Uranium Sequestration Testing (PNNL):
  - PNNL has set up all the various test columns and has completed initial dosing/testing as of the beginning of April.
  - The regulators received a briefing on the Uranium Sequestration Testing and an associated tour of the lab where the columns are being tested.
  - The lab work is on schedule to be completed by September 30, 2009 and will be followed by a test report that supports a TPA milestone due on January 31, 2010.
- Surface Barrier Study (PNNL):
  - The Test Plan draft has been completed and forwarded to RL for comments. Once RL comments have been incorporated, the Test Plan will be briefed with the regulators and the customer in early May. Once this has been reviewed with the regulators and our customer, PNNL will perform analysis (this is a comprehensive review of documents that have already been generated and will emphasize gap analysis and recommendations) followed by a report documenting the study.
- Small Core Sampling Discussion

**From:** Price, John (ECY) [mailto:Jpri461@ecy.wa.gov]

**Sent:** Monday, May 11, 2009 2:10 PM

**To:** Morse, John G

**Cc:** Goswami, Dibakar; Williams, Janice D; Cameron.Craig@epamail.epa.gov

**Subject:** 200 Area PMM, comment for M-15-54 status

John, at the next 200 Area PMM, I plan to insert the following comment in "Regulatory Comment" for the status of M-15-54.

I wanted to give it to you in advance, so you have time to think and respond:

Ecology expresses appreciation for the tour of laboratory testing facilities, and for the accompanying explanation of testing. The only immediate concern that Ecology had was about the small size of the cores being tested. Ecology understood that the small size of the cores was due to the relatively high cost of drilling, and because the cores were obtained from a different project. Given the importance of the vadose zone treatability testing, Ecology requests further explanation from DOE about impacts on data quality from small core size.

- Response: The objective of the FY09 uranium study is focused on testing the geochemical reactions between the candidate reactive gas (or gas-advected reactant) treatments and the uranium in sediment. For this objective, experimental systems must have enough sediment to enable PNNL to quantify change within each test column (change in adsorbed uranium, carbonate-associated uranium, and silicate-bound uranium (boltwoodite) imposed by each of the experimental treatments). This objective is easily met with small columns, which contain 7 to 10 g of 200 Area uranium-contaminated sediment. The set of 6 different liquid extractions used to monitoring the impact of candidate treatments can be accurately conducted on 1 g (or less) of sediment. Extractions of untreated sediment showed that the sediment samples produced uranium concentrations much higher than (>100 times, 300 – 2700 ug/L) the method detection limit (0.1 ug/L). Thus, the extractions will be suitable for measuring changes to these concentrations induced by the imposed treatments. Although there is a limited amount of 200 Area sediment currently available, the mass of sediment did not limit the size of experiments in the FY09 study. The FY09 study results will enable comparison of candidate treatments in terms of reaction processes and selection of the most promising treatment for continued treatability testing. The treatability testing in subsequent fiscal years will address scale-up and testing at the bench and field scale as identified in the Deep Vadose Zone Treatability Test Plan. The results of the FY09 experiments showing favorable chemistry addressing the ability to perform uranium sequestration, larger scale testing will continue using the specific types of technological approaches to support large scale field application. These larger scale tests, coupled with information now being derived from the deep vadose characterization tests evaluating soil/gas transmissivity and air permeability in the soil will be used to configure a field scale test application currently planned for 2011.

**Schedule Status:** On schedule to meet TPA milestone.

Regulator Comments

**200-CS-1 Ecology Lead** (RL: Greg Sinton) – (Ron Brunke)

Ecology and RL continue to communicate regarding path forward and related issues including integration of CERCLA remediation and TSD closure activities.

- Discussions are on-going concerning incorporation of most of the CS-1 waste sites into an outer area ROD (all except 216-B-63 and 216 A-29).
- Comments were provided on the 216-S-10 TSD RCRA Permit conditions May 7, 2009, along with a new associated draft TPA change package. DOE is supportive of the Ecology TPA change package proposal to address the compliance schedule in the permit conditions. This approach is currently being planned for 216-S-10 pond and Ditch in CS-1 and 216-B-3-Pond in CW-1.
- Draft permit conditions were received from Ecology on April 28, 2009 for 216-A-29 and 216-B-63. Comments on those conditions are being prepared.

**Schedule Status:** No near term milestone. On schedule for M-16-00; Near term schedule being developed.

Regulator Comments

**200-CW-5 EPA Lead** (RL: Greg Sinton) – (Tony Knepp)

January 20<sup>th</sup> letter to EPA provided a path forward to address EPA's comments on the Feasibility Study and Proposed Plan.

- Currently developing the new alternative that assumes all contaminated soils are to be excavated and can be disposed at ERDF.
- An evaluation of the cost differential in ERDF disposal cost monitored by EPA and those used for the previous estimate in the 200-CW-5 FS has been completed. The comparison basis costs being used will still probably be higher than those EPA is currently familiar with however a sensitivity evaluation is being conducted to see if the discrepancies are significant enough to impact alternative evaluation.

**Schedule Status:** Submittal of a revised FS and PP is planned on or before August 31, 2009 based on the January 20<sup>th</sup> letter to EPA.

Regulator Comments

**200-CW-1 Ecology Lead (RL: Greg Sinton) – (Ron Brunke)**  
**(M-015-38B, 11/30/2010, Feasibility Study/Proposed Plan)**

- Discussions are on-going about including most of the CW-1 sites in a new “outer Area” ROD (all but T-4B and 216-U-10).
- Remaining CW-1 supplemental characterization sampling is now anticipated to be accomplished in 2010.

**Schedule Status:** The M-15-08-07 TPA change package currently out for public comment revises the M-15-38B FS/PP due date to 9/30/2011.

Regulator Comments

**200-BC-1 EPA Lead (RL: Greg Sinton)- (Mike Hickey)**

**(M-15-51, 4/30/10, Feasibility Study/Proposed Plan)**

- Verification/validation of the electrical resistivity correlation study chemistry data neared completion. The Data Quality Assessment will follow.
- Preparation of the excavation based treatability test final report continued.
- Incorporation of RL comments on the electrical resistivity correlation report is in progress.

**Schedule Status:** A draft of the treatability test report is scheduled for DOE review June 8, 2009. Initial findings for the Treatability Test Plan were presented in a May 4, 2009 meeting with EPA and Ecology. The treatability test achieved all three objectives of the work plan. Worker dose was less than predicted, unit costs were obtained, and the soil from the waste sites meets ERDF waste acceptance criteria.

Regulator Comments

**200-SC-1 EPA Lead** (RL: Greg Sinton) – (Mike Hickey)  
**(M-15-40E, 12/31/10, Feasibility Study/ Proposed Plan for 200-SC-1)**

- Data Quality Assessment of the supplemental characterization data is in CHPRC review.

**Schedule Status:** The project activities funded for this OU in FY09 are related to completing FY08 field activities and consolidating project information and actions to date. A change package that addresses the 200 SC-1 schedule is planned to be prepared by 12/31/09 as specified in the proposed M-15-40E interim milestone.

Regulator Comments

**200-UW-1 Ecology Lead** (RL: Kevin Leary) – (Tony Knepp)

- Review comments were received from Ecology and EPA on the 200-UW-1 OU remedial action goals (RAGs) documents. RL and contractor staff are preparing responses to the comments and will plan to meet to discuss the responses in the near future.
- A workshop to discuss the DQO for 216-U-12 crib deep vadose zone characterization was held on May 12, 2009. DOE reached concurrence with the Department of Ecology on data needs, analytes of interest and borehole location for supplemental vadose zone characterization at 216-U-12 Crib. The DQO summary report will be finalized.

**Schedule Status:** Current plans include preparation of revised proposed plan for 200-UW-1 OU to be delivered in FY10. Schedule information will be shared as it is developed in subsequent PMMs.

Regulator Comments

Ecology will be requesting a detailed schedule in accordance with TPA Action Plan section 4.1.

**200-IS-1 (RL: Kevin Leary) – (Greg Berlin)**  
**(M-13-27, 6/30/07, RI/FS Work Plan)**

- 241-CX Tank System Closure Plan transmitted to the Ecology December 22, 2008.
- DOE letter dated February 27, 2009, responded positively to Ecology's request to resolve the CX Tank System Closure Plan comments using workshops. Comment resolution closed.

**Schedule Status:** No FY09 activities are scheduled for this OU with the exception of the 241-CX Tank System Closure.

Regulator Comments:

Ecology requests that DOE starts tracking Hexone Tanks activities. (Add closure plan activities to this status update)

**200-PW-2 & 200-PW-4 Ecology Lead (RL: Doug Hildebrand) – (Mike Hickey)**  
**(M-15-43D, 12/31/10, Feasibility Study and Revised Recommended Remedy(ies))**  
**(15-43D, 12/31/10, Feasibility Study and Revised Recommended Remedy(ies))**

**216-B-12 and 216-C-1 Boreholes:** Preparations have begun for drilling the boreholes in coordination with the 200-BP-5 Groundwater OU as the M and L wells, two of three new groundwater monitoring wells included in the stimulus funding. The 200-PW-2/4 OU is responsible for the vadose zone soil sampling portion.

- Management of investigation derived waste continues. Some investigation derived waste from drilling at the 216-A-5. .
- A TCLP sample is necessary to complete the waste profile for the IDW. The sample has been sent to the Lionville lab for analysis.

**Schedule Status:** The project activities funded for this OU in FY09 are related to completing FY08 field activities (e.g., completing laboratory analyses and borehole decommissioning) and consolidating project information and actions to date.

Regulator Comments

**200-BP-5 EPA Lead (RL: Doug Hildebrand) – (Curtis Wittreich)  
(M-15-21A, 10/31/10, Feasibility Study/Proposed Plan)**

- Remedial Investigation:
  - 200-BP-5 Conceptual Transport Model Report for the WMA B/BX/BY and surrounding area is being drafted by PNNL and will focus on uranium and technetium-99 contaminant transport.
  - RI activities include continuing routine monitoring and data collection.

**Schedule Status:** On schedule.

Regulator Comments

**200-PO-1 Ecology Lead (RL: Doug Hildebrand) – (Curtis Wittreich)  
(M-015-25C, 12/30/09 200-PO-1 OU RI Phase II Report)**

- Remedial Investigation:
  - Eight of 27 available groundwater wells (200-PO-1 OU Work Plan Appendix A Table A3-3) have been sampled as of May 7, 2009. Sampling activities are expected to be completed by the end of May 2009.
- Combined RI/FS Report:
  - Continued efforts on developing a combined RI/FS document. Conducted first monthly RI/FS document regulator status meeting on May 13, 2009 to discuss with regulators proposed document outline, risk assessment approach, and fate and transport modeling approach.
  - A TPA change package to delete the M-015-25C milestone for a RI Phase II report is in the process of being transmitted to the regulators for approval

**Schedule Status:** Combined RI/FS document is on schedule.

Regulator Comments

**200-SW-1 Ecology Lead (RL: Kevin Leary) – (Greg Berlin/Ron Brunke)**

- DOE met last week with Ecology to discuss areas of focus including groundwater monitoring trends and soil gas surveys. In addition, the meeting also transpired to introduce some of the new project personnel and discussion of a future site visit.
- DOE received a decisional draft of the Solid Waste Landfill (SWL) Closure Plan on 5/18/09.

**200-SW-2 Ecology Lead (RL: Frank Roddy)**

- RI/FS Work Plan (Rev 0) was approved by RL and Ecology on December 22, 2008.
- Geophysical investigations have been performed at 218-E-10, 218-E-12B, 218-W-4B, and 218-W-4C to support procedural closure of unused TSD landfill areas; final report preparation is underway.

**Schedule Status:** The project activities are being evaluated for stimulus money.

Regulator Comments

Ecology stated the soil gas direct pushes are finished and Ecology went out for a field visit. These were completed under the M-91 SAP, which Ecology had some questions about.

Ecology would like DOE to verify that the work plan is fully funded.

**200-MW-1 EPA Lead** (RL: Frank Roddy) – (Mike Hickey)  
**(M-15-44B, 9/30/09, Feasibility Study/Proposed Plan)**

- Both the FS and PP have been internally reviewed and comments are being incorporated. Both of these documents are expected to be back into document production by May 16<sup>th</sup> and provided to RL for their review in late June.

**Schedule Status:** On schedule to meet TPA interim milestone.

Regulator Comments
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**200-MG-1/200-MG-2 Model Group 1 Sites** (RL: Frank Roddy) – (Ron Brunke/Greg Berlin)  
**(M-15-49a, 12/31/08, MG-1 EE/CA) Ecology Lead**  
**(M-15-49B, 12/31/08, MG-2 EE/CA) EPA Lead**

- EPA has agreed to DOE's response on comments provided on the 200-MG-2 Draft A EE/CA; the document has been prepared for issuance as a final (Rev 0) report. Ecology has also agreed to DOE's responses on comments provided on the 200-MG-2 Draft A EE/CA; this document is being prepared for issuance as a final (Rev 0) report.

**Schedule Status:** On schedule

Regulator Comments
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**200-LW-1/200-LW-2 Ecology Lead (RL: Frank Roddy) – (Mike Hickey)  
(M-15-46B, 12/31/11, Feasibility Study/Recommended Remedy) Ecology**

- **216-B-6 Borehole C5860:** Preparations have begun for drilling the C5860 borehole in August at the 216-B-6 Reverse Well. This well is being coordinated with the 200-BP-5 Groundwater OU as the K Well, one of three new groundwater monitoring wells included in the stimulus funding. The 200-LW-1/2 OU is responsible for the vadose zone soil sampling portion.

**Schedule Status:** Other than the C5860 borehole (above), the project activities funded for this OU in FY09 are related to completing FY08 field activities and consolidating project information and actions to date. A change package that addresses the 200 SC-1 schedule is planned to be prepared by 12/31/09 as specified in the proposed M-15-40E interim milestone.

Regulator Comments

**Ecological Risk Assessment (RL: Bryan Foley) – (John Lowe)**

- The Draft A report will be revised and submitted as a Draft B. Baseline activities for FY09 will be re-planned and funded as a priority in order to support the proposed schedule for the inner and outer area RODs. The revisions will address readability, stronger discussion of uncertainties associated with the conclusions, and responsiveness to regulator comments on Draft A.

**Schedule Status:** The schedule for the ecological risk assessment report will need to support a proposed plan for the outer area ROD in the next 6 to 8 months. A revision to the current schedule in the IPMB is being drafted. Revised sections of the report will be provided to the regulators within the next 45 to 60 days.

Regulator Comments

**Well Decommissioning Status to be added *here* for the June PMM**

**200-TW-1 & 200-PW-5 EPA Lead (RL: Arlene Tortoso) – (Mike Hickey)  
M-15-42D, 12/31/11, Feasibility Study/Proposed Plan for TW-1 & PW-5)**

**Schedule Status:** No FY09 activities are scheduled for this OU.

Regulator Comments

**200-TW-2 Ecology Lead (RL: Arlene Tortoso)  
(M-15-42E, 12/31/11, Feasibility Study/Revised Recommended Remedy(ies) for TW-2)**

**Schedule Status:** No FY09 activities are scheduled for this OU.

Regulator Comments

**200-UR-1 Ecology Lead (RL: Frank Roddy) – (Ron Brunke)**

- RL Plans to complete the West Lake SAP.

**Scheduled Status:** Work on West Lake SAP initiated in May, 2009.

Regulator Comments

Ecology requests a copy of the 1975 report on West Lake by Roy Gephardt.

Ecology requests a schedule of the SAP work.

# An Update on Institutional Controls

*200A PMM Action Item 121*

*May 21, 2009*



## Requirements

Sitewide ICs required by:  
ROD for 100-Area  
CERCLA 5-year review  
ROD for 300A  
*and the*  
Sitewide Institutional Controls Plan for the  
Hanford CERCLA Response Actions,  
DOE/RL-2001-41, Rev 3, March 2009



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## Requirements

The Plan describes:

1. how the institutional controls (ICs) are implemented and maintained
2. serves as a reference for the selection of institutional controls in the future.

Institutional controls generally include non-engineered restrictions on activities and access to land, groundwater, surface water, waste sites, waste disposal areas, and other areas or media that contain hazardous substances to minimize the potential for human exposure to the substances.

Common types of institutional controls include procedural restrictions for access, fencing, warning notices, permits, easements, deed notifications, leases and contracts, and land-use controls.



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## 200 Area OUs

- ICs are recorded in CERCLA decision documents (ROD, ROD amendment or ESD)
- The Sitewide IC Plan addresses ICs for 200 Area PMM facilities 221-U, 200-UP-1, and 200 ZP-1.
- The institutional controls for 221-U are divided into during and after remediation. The remediation has not started yet so the requirements do not yet apply.
- For 200-UP-1 DOE is responsible for establishing and maintaining land use and access restrictions until the final remedy is implemented.

- ~~No~~ *New* institutional controls are identified for 200-ZP-1 and will be added to the plan



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o 200-UP-1 ICs are being updated to match 200-ZP-1

CHPRC - PMBS - Baseline				baseline planning							05/20/09 13:49								
Activity ID	Activity Name	Original Start	Original Finish	Budgeted Total Cost	Budgeted Nonlabor Units	Budgeted Labor Units	CACN Global	FY2010				FY2011				FY2012			
								FQ3	FQ4	FQ1	FQ2	FQ3	FQ4	FQ1	FQ2	FQ3	FQ4	FQ1	
<b>CHPRC - PMBS - Baseline</b>																			
<b>12-18 PMBS BL 030-31-30-08-021(S) Multi Incremental</b>																			
<b>216-S-19</b>																			
30.31.30.08.0105	Complete 216-S-19 Prep	07/28/09	02/25/11	\$3,178,472.62	1442974	31333													
30.31.30.08.0140	Complete 216-S-19 Haul Road	11/23/09	12/08/09	\$246,923.25	103562	2534	302168												
30.31.30.08.0155	Complete 216-S-19 Mobilization	12/09/09	01/21/10	\$457,227.47	36601	7820	302168												
30.31.30.08.0165	Environmental Air Monitor Sampling Contract for 216-S-19 FY09	12/28/09	07/27/10	\$7,000.00	7000	0	302168												
30.31.30.08.0180	Complete 216-S-19 Top 2' Excavation	01/22/10	02/05/10	\$361,798.63	211039	2788	302168												
30.31.30.08.0190	Complete 216-S-19 Top 2' Survey & Obtain Samples	02/08/10	03/01/10	\$41,043.91	1800	640	302168												
30.31.30.08.0200	Complete 216-S-19 Top 2' Sample Analysis & Review (Regulators paying for analysis)	03/02/10	03/30/10	\$8,452.42	0	96	302168												
30.31.30.08.0220	Complete 216-S-19 Excavation FY09	03/31/10	05/18/10	\$1,109,549.80	630717	8869	302168												
30.31.30.08.0221	Complete 216-S-19 Excavation FY10	05/19/10	06/22/10	\$760,801.13	432492	6081	302168												
30.31.30.08.0265	Complete 216-S-19 Closeout	06/16/10	01/04/11	\$159,992.82	7210	2336	302168												
30.31.30.08.0255	Environmental Air Monitor Sampling Contract for 216-S-19 FY10	07/28/10	02/25/11	\$7,000.00	7000	0	302168												
<b>No Project Grouping</b>																			
30.31.30.08.0100	Start MIS	04/27/09	04/27/09	\$0.00	0	0	302168												
30.31.30.08.0340	Planning and Confirmation Waste sites for MIS	04/28/09	07/27/09	\$62,701.43	3675	697	302168												
30.31.30.08.0120	Complete Waste Control Plan	07/28/09	08/24/09	\$2,453.97	0	30	302168												
30.31.30.08.0110	MIS Planning Project Management	07/28/09	10/23/09	\$150,832.81	3838	1549	302168												
30.31.30.08.0115	MIS Equipment Procurement	07/28/09	11/20/09	\$84,717.67	78225	0	302168												
30.31.30.08.0145	MIS General Rentals (Porta Potties, Trailers, Light Plants, etc.) FY09	07/28/09	03/30/10	\$119,075.85	109950	0	302168												
30.31.30.08.0135	Treatability Test Project Complete	07/28/09	07/28/09	\$0.00	0	0	302168												
30.31.30.08.0130	MIS Project Management FY09	10/26/09	07/27/10	\$618,219.09	24833	6010	302168												
30.31.30.08.0160	MIS Excavation Rental Equipment FY09	12/22/09	07/27/10	\$518,801.94	479041	0	302168												
30.31.30.08.0170	MIS Rad Equipment PNNL Calibrations & Repairs F...	12/28/09	07/27/10	\$15,750.00	15750	0	302168												
30.31.30.08.0230	MIS Variance Sampling Complete	03/02/10	03/02/10	\$0.00	0	0	302168												
30.31.30.08.0235	MIS General Rentals (Porta Potties, Trailers, Light Plants, etc.) FY10	03/31/10	07/14/10	\$58,466.57	53986	0	302168												
30.31.30.08.0250	MIS Project Management FY10	07/28/10	12/03/10	\$293,885.63	11342	2862	302168												
30.31.30.08.0240	MIS Excavation Rental Equipment FY10	07/28/10	11/19/10	\$262,144.75	242054	0	302168												
30.31.30.08.0245	MIS Rad Equipment PNNL Calibrations & Repairs F...	07/28/10	11/19/10	\$9,000.00	9000	0	302168												
30.31.30.08.0290	MIS Excavation Complete	11/22/10	11/22/10	\$0.00	0	0	302168												
30.31.30.08.0280	MIS Closeout Project Management	12/06/10	06/17/11	\$253,795.30	8896	2592	302168												
30.31.30.08.0285	Regulator Draft Recommendation Memo to MTCA	01/05/11	02/01/11	\$0.00	0	0	302168												
30.31.30.08.0295	FH & RL Review Regulator Draft of Recommendation Memo to MTCA	02/02/11	02/15/11	\$15,999.48	0	180	302168												
30.31.30.08.0300	Regulator Complete FH & RL Comment Incorporation to Recommendation Memo to MTCA	02/16/11	03/02/11	\$0.00	0	0	302168												
30.31.30.08.0305	Complete MTCA Review of Recommendation Memo	03/03/11	03/30/11	\$0.00	0	0	302168												
30.31.30.08.0310	Complete MTCA Comment Incorporation to Recommendation Memo	03/31/11	04/13/11	\$0.00	0	0	302168												
30.31.30.08.0315	MIS Memo Issued to MTCA	04/14/11	04/14/11	\$0.00	0	0	302168												
30.31.30.08.0320	FH & RL Support MTCA Rule Making FY10	04/14/11	07/25/11	\$32,659.07	4260	320	302168												
30.31.30.08.0325	MIS Post Field Work / MTCA Project Management ...	06/20/11	07/27/11	\$8,608.74	259	81	302168												
30.31.30.08.0321	FH & RL Support MTCA Rule Making FY11	07/26/11	09/27/11	\$24,839.29	3240	243	302168												
30.31.30.08.0326	MIS Post Field Work / MTCA Project Management ...	07/28/11	09/29/11	\$18,731.54	565	176	302168												