

RECEIVED

MAY 20 2008

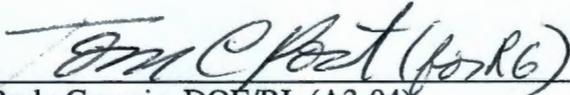
EDMC

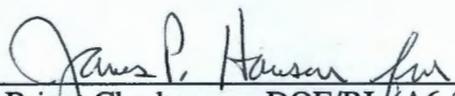
00/300 AREA UNIT MANAGER MEETING ATTENDANCE AND DISTRIBUTION

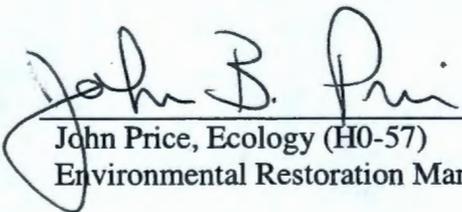
April 10, 2008

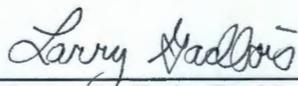
| NAME | E-MAIL ADDRESS | MSIN | COMP | SIGNATURE |
|----------------------|-------------------------------|-------|-------|-----------------------------|
| Cook, Sylvia | Original +1 copy | H6-08 | ADREC | N/A |
| Charboneau, Briant L | Briant_L_Charboneau@rl.gov | A6-33 | DOE | <i>Briant L. Charboneau</i> |
| Charboneau, Stacy | Stacy_L_Charboneau@rl.gov | A3-04 | DOE | <i>Stacy Charboneau</i> |
| Clark, Clifford E | Clifford_E_Cliff_Clark@rl.gov | A5-15 | DOE | |
| Guercia, Rudolph F | Rudolph_F_Rudy_Guercia@rl.gov | A3-04 | DOE | |
| Hanson, James P | James_P_Hanson@rl.gov | A5-13 | DOE | <i>James P. Hanson</i> |
| Hildebrand, R Doug | R_D_Doug_Hildebrand@rl.gov | A6-38 | DOE | |
| Post, Thomas | Thomas_C_Post@rl.gov | A3-04 | DOE | <i>Tom Post</i> |
| Robertson, Owen | Owen_Jr_Robertson@rl.gov | A3-04 | DOE | |
| Sands, John P | John_P_Sands@rl.gov | A3-04 | DOE | |
| Smith, Chris | Douglas_C_Chris_Smith@rl.gov | A3-04 | DOE | |
| Thompson, Mike | K_M_Mike_Thompson@rl.gov | A6-38 | DOE | |
| Weil, Stephen | Stephen_R_Weil@rl.gov | A5-16 | DOE | |
| Zeisloft, Jamie | Jamie_Zeisloft@rl.gov | A3-04 | DOE | <i>Jamie Zeisloft</i> |
| Ayres, Jeffrey M | JAYR461@ECY.WA.GOV | H0-57 | ECO | <i>Jeffrey M. Ayres</i> |
| Bond, Fredrick | FBON461@ECY.WA.GOV | H0-57 | ECO | <i>Fredrick H. Bond</i> |
| Goswami, Dib | DGOS461@ECY.WA.GOV | H0-57 | ECO | |
| Huckaby, Alisa D | AHUC461@ECY.WA.GOV | H0-57 | ECO | <i>Alisa D. Huckaby</i> |
| Jones, Mandy | MJON461@ECY.WA.GOV | H0-57 | ECO | |
| Price, John | JPRI461@ECY.WA.GOV | H0-57 | ECO | <i>John Price Ph.D. R.</i> |
| Rochette, Elizabeth | BROC461@ECY.WA.GOV | H0-57 | ECO | |
| Shea, Jacqueline | JASH461@ECY.WA.GOV | H0-57 | ECO | <i>Jacqueline Shea</i> |
| Smith-Jackson, Noe'l | NSMI461@ECY.WA.GOV | H0-57 | ECO | |
| Vanni, Jean | Jvan461@ECY.WA.GOV | H0-57 | ECO | |
| Whalen, Cheryl | CWHA461@ECY.WA.GOV | H0-57 | ECO | |
| Buelow, Laura | BUELOW.LAURA@EPA.GOV | B1-46 | EPA | <i>Laura Buelow</i> |
| Boyd, Alicia | BOYD.ALICIA@EPA.GOV | B1-46 | EPA | <i>Alicia Boyd</i> |
| Einan, Dave | EINAN.DAVID@EPA.GOV | B1-46 | EPA | |
| Faulk, Dennis A | FAULK.DENNIS@EPA.GOV | B1-46 | EPA | <i>Dennis A. Faulk</i> |
| Gadbois, Larry E | GADBOIS.LARRY@EPA.GOV | B1-46 | EPA | <i>Larry E. Gadbois</i> |

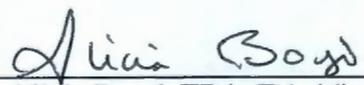
100/300 AREA UNIT MANAGERS MEETING
APPROVAL OF MINUTES
April 10, 2008

APPROVAL:  Date 5/8/08
Rudy Guercia, DOE/RL (A3-04)
River Corridor Project Manager

APPROVAL:  Date 5/8/08
Briant Charboneau, DOE/RL (A6-33)
Groundwater Project Manager

APPROVAL:  Date 5-8-2008
John Price, Ecology (H0-57)
Environmental Restoration Manager

APPROVAL:  Date 5-8-2008
Larry Gadbois, Rod Lobos, or Laura
Buelow, EPA (B1-46)
100 Aggregate Area Unit Manager

APPROVAL:  Date 5-8-2008
Alicia Boyd, EPA (B1-46)
300 Aggregate Area Unit Manager

100 & 300 AREA UNIT MANAGER MEETING MINUTES**Groundwater, Source Operable Units, Facility (D4 and ISS), and Mission Completion****April 10, 2008****Washington Closure Hanford (WCH) Building, 2620 Fermi Drive, Richland, Washington****ADMINISTRATIVE**

- **Next Unit Manager Meeting (UMM)** - The next meeting will be held May 8, 2008 at the Washington Closure Hanford (WCH) Office Building, 2620 Fermi Avenue, Room C209.
- **Attendees/Delegations** - Attachment A is the list of attendees. Representatives from each agency were present to conduct the business of the UMM. Attachment B documents any delegations received from the agencies.
- **Approval of Minutes** - The March 2008 meeting minutes were approved by the U.S. Environmental Protection Agency (EPA), Washington State Department of Ecology (Ecology), and U.S. Department of Energy, Richland Operations Office (RL).
- **Action Item Status** - Status of action items was performed, and updates provided (Attachment C).
- **Agenda**: Attachment D is the meeting agenda.

EXECUTIVE SESSION (Tri-Parties Only)

Attachment 1 was provided as general information regarding RESRAD to assist RL in the revision of the 100 Area Remedial Design Report/Remedial Action Work Plan for the 100 Area.

Issue: Ecology and EPA requested a revision to the evapotranspiration rate currently used in the RESRAD model, and RL agreed to conduct an expedited literature review. EPA desires prompt action on the proposed change.

100/300 AREA GROUNDWATER

Attachment 2 provides a status or information. No issues were identified.

Action: Ecology will schedule a meeting with RL to discuss well variances, and RL will provide information to Ecology beforehand.

Agreement 1: RL will provide responses to Ecology's previously submitted comments by mid-April 2008. After the parties agree that the comments are adequately dispositioned, the need for revising the "100-NR-2 Ecology Evaluation Report, Draft B, will be determined.

Agreement 2: Attachment 3 documents EPA approval of the 100-KR-4 proposed well drilling locations.

SYSTEMATIC PLANNING PROCESS FOR RIVER CORRIDOR

No issues were identified, no agreements were documented, and no actions were documented.

MISSION COMPLETION PROJECT

Attachment 4 provides a status or information. No issues were identified, and no actions were documented.

Agreement: Attachment 5 documents approval by EPA and Ecology on the proposed phytotoxicity re-sampling.

GROUNDWATER/SOURCE INTEGRATION

No agreements were documented, and no actions were documented.

Issue: Updates are completed, and an internal review of 5-year review action items list is in progress. An updated list will be provided at the May 2008 UMM.

100/300 AREA FIELD REMEDIATION CLOSURE (FR)

Attachments 6 through 14 provide a status or information on various Field Remediation Project Areas, as well as agreements. Attachment 6, 7, 12, and 13 document various agreements. Attachment 8 covers 300-FF-2. Attachment 9 covers 100-B/C. Attachment 10 covers 118-K-1. Attachment 11 covers 100-D. Attachment 14 covers the schedule for sampling and design. No issues were identified, and no actions were documented.

Agreement 1: Attachment 6 documents EPA approval to backfill 120-F-1.

Agreement 2: Attachment 7 documents EPA approval to backfill 100-F-26:9 – 1607-F2 Sanitary Sewer Pipelines Sub-site.

Agreement 3: Attachment 12 documents Ecology approval of the proposed 118-D-1 waste staging pile area in the attached drawing.

Agreement 4: Attachment 13 documents Ecology and RL agreement that further discussion of potential sampling or reclassification of the 116-H-4 waste site will be deferred until planning for the 100-H final RI/FS Work Plan.

DEACTIVATION, DECONTAMINATION, DECOMMISSION, DEMOLITION (D4)/ INTERIM SAFE STORAGE (ISS)

Attachment 15 provides a status or information for the 100 Area and Attachment 16 provides a status or information for the 300 Area. No issues were identified, and no actions were documented.

Agreement 1: Attachment 17 documents RL and Ecology approval of several changes to the 100-N Ancillary Facilities Air Monitoring Plan, Rev. 2.

Agreement 2: Attachment 18 documents RL and Ecology agreement regarding the 184-N demolition activities associated with asbestos.

SPECIAL TOPICS

No special topics were discussed.

Attachment A

| | | | | |
|---------------------------|-----------------------------|-------|--------|----------------------------|
| Lobos, Rod | LOBOS.ROD@EPA.GOV | B1-46 | EPA | |
| Black, Dale | Dale_G_Black@rl.gov | E6-35 | FH | <i>DG Black</i> |
| Borghese, Jane V | Jane_V_Borghese@rl.gov | E6-35 | FH | <i>Jane V Borghese</i> |
| Day, Roberta E | Roberta_E_Day@rl.gov | E6-35 | FH | <i>Roberta E Day</i> |
| Fabre, Russel J | Russel_J_Fabre@rl.gov | E6-35 | FH | |
| Horton, Duane G. | Duane_G_Horton@rl.gov | E6-35 | FH | |
| Jackson, Ron | Ronald_L_Jackson@rl.gov | E6-35 | FH | |
| Piippo, Rob | Robert_E_Piippo@rl.gov | H8-12 | FH | |
| Petersen, Scott | Scott_W_Petersen@rl.gov | E6-35 | FH | |
| Robertson, Julie | Julie_R_Robertson@rl.gov | E6-35 | FH | |
| Shattuck, Ann F | Ann_F_Shattuck@rl.gov | E6-35 | FH | |
| Winterhalder, John A | John_A_Winterhalder@rl.gov | E6-35 | FH | <i>John A Winterhalder</i> |
| Dresel, Evan | Evan.dresel@pnl.gov | | PNNL | |
| Fruchter, Jonathan S | john.fruchter@pnl.gov | K6-96 | PNNL | |
| Hartman, Mary J | Mary_J_Hartman@rl.gov | E6-35 | PNNL | |
| Peterson, Robert E | robert.peterson@pnl.gov | K6-75 | PNNL | <i>Robert Peterson</i> |
| Cimon, Shelley | scimon@oregontrail.net | | Oregon | <i>Shelley Cimon</i> |
| Lilligren, Sandra | sandral@nezperce.org | | TRIBES | |
| Bignell, Dale | Dale.Bignell@wch-rcc.com | H4-25 | WCH | |
| Buckmaster, Mark A | mark.buckmaster@wch-rcc.com | X9-08 | WCH | <i>Mark A Buckmaster</i> |
| Carlson, Richard A | richard.carlson@wch-rcc.com | X4-08 | WCH | |
| Capron, Jason | jmcapron@wch-rcc.com | H4-23 | WCH | <i>Jason Capron</i> |
| Cearlock, Christopher S | cscearlo@wch-rcc.com | H4-22 | WCH | |
| Clark, Steven W | steven.clark@wch-rcc.com | H4-23 | WCH | |
| Darby, John W | john.darby@wch-rcc.com | L6-06 | WCH | <i>John W Darby</i> |
| Dieterle, Steven E | steven.dieterle@wch-rcc.com | L1-04 | WCH | |
| Dietz, Linda A | linda.dietz@wch-rcc.com | H4-22 | WCH | |
| Donnelly, Jack W | jack.donnelly@wch-rcc.com | H4-22 | WCH | <i>Jack W Donnelly</i> |
| Fancher, Jonathan D (Jon) | jon.fancher@wch-rcc.com | X9-07 | WCH | <i>Jonathan D Fancher</i> |
| Golden, James W | james.golden@wch-rcc.com | X4-08 | WCH | |
| Hadley, Karl A | karl.hadley@wch-rcc.com | T2-04 | WCH | |
| Hedel, Charles W | charles.hedel@wch-rcc.com | H4-22 | WCH | |
| Hulstrom, Larry C | larry.hulstrom@wch-rcc.com | H4-22 | WCH | |
| Jacques, Duane | idjacque@wch-rcc.com | H4-22 | WCH | |
| Johnson, Wayne | Wayne.johnson@wch-rcc.com | H4-22 | WCH | |
| Koegler, Kim J | kim.koegler@wch-rcc.com | L1-07 | WCH | |

Attachment B

Attachment C

100/300 Area UMM

Action List

April 10, 2008

| Open (O) Closed (X) | Action No. | Co. | Actionee | Project | Action Description | Status |
|------------------------|------------|-----|-------------|--------------|---|---|
| O | 300-008 | RL | T. Post | 100/300 Area | RL shall develop the instructions for documenting D4 completions in the 100 and 300 Areas where no known waste site is under the building, and no releases to soil are documented or expected based on existing data. These instructions shall be added into the respective Removal Action Work Plans after review and approval from the respective lead regulatory agency for the specific Removal Action Work Plans in the 100 and 300 Areas. | Open: 4/12/07; Action: Ongoing action, and are still under development. Instructions are developed and is complete for the 300 Area. RL will submit a TPA Section 9.0 document change notice for the 100 Area. |
| O | 100-149 | RL | J. Hanson | 100-H | RL/Fluor Hanford Inc. (FH) will review the extraction network for the 100-H pump and treat system, and provide recommendations to Ecology for optimization. | Open: 1/10/08; Action: RL will provide Ecology with the entire 100-HR-3 optimization in the fall 2008. RL plans to meet with Ecology by end of April on efficiency options |
| O | 100-150 | RL | M. Thompson | 300-FF-5 | RL shall provide EPA with an updated Sampling and Analysis Plan (SAP) for the 300-FF-5 Operable Unit. | Open: 1/10/08; Action: Internal reviews are complete, and RL plans to provide to EPA by end of April 2008. |
| O | 100-152 | RL | T. Post | 100-N | RL will schedule a meeting with Ecology on coordinating between D4 and FR activities at the 100-N Area. | Open: 1/10/08; Action: Meeting has not been scheduled. |

100/300 Area UMM
Action List
April 10, 2008

| Open (O)/ Closed (X) | Action No. | Co. | Actionee | Project | Action Description | Status |
|-------------------------|---------------|-----|-------------|-------------|--|---|
| O | 100-153 | RL | C. Smith | 100 Area | RL shall schedule a meeting with EPA and Ecology to discuss potential additional institutional controls at specific waste sites (e.g., concrete or other physical markers at 118-B-1 burial ground). | Open: 1/10/08; Action: No meeting scheduled yet. |
| O | 300-009 | RL | R. Guercia | 300 Area | RL shall brief EPA and Ecology on alternative exposure scenarios for the 300 Area. | Open: 1/10/08; Action: RL plans to schedule, and some preliminary discussion with EPA held. |
| X | 100-154 | RL | J. Hanson | 100-K | RL will commit to sample wells 199-K-27 and 199-K-109A prior to decommissioning the wells; Sr-90 is specifically requested from EPA. | Open: 2/14/08; Action: Wells were sampled and data results pending. Data was provided, and item closed at 4/10/08 UMM. |
| X | 100-155 | RL | Charboneaus | All | RL shall meet with the EPA project managers on project specific funding for Fiscal Year 2009. | Open: 2/14/08; Action: RL reported this is actively being worked. Item closed at 4/10/08 UMM. |
| X | 100-156 | RL | J. Hanson | 100-H/100-K | RL will provide EPA and Ecology a draft of the proposed non-significant change (i.e., letter to file) to the 100-HR-3/100-KR-4 Record of Decision regarding the continued use of the In-Situ Redox Manipulation (ISRM) lined-pond. | Open: 3/13/08; Action: A draft was provided, and item closed at 4/10/08 UMM. |
| X | 100-157 | EPA | R. Lobos | 100-F | RL requested EPA to provide direction or assist in determining a path forward for addressing 128-F-2 below the ordinary high-water mark. | Open: 3/13/08; Action: Item was closed at 4/10/08 UMM. |

100/300 Area UMM

Action List

April 10, 2008

| Open (O) Closed (X) | Action No. | Co. | Actionee | Project | Action Description | Status |
|------------------------|---------------|-----|----------|---------|---|---------------------------|
| O | 100-158 | ECY | J. Price | General | Ecology will schedule a meeting with RL to discuss well variances, and RL will provide information to Ecology beforehand. | Open: 4/10/08; Action: |

Attachment D

100/300 Area Unit Manager Meeting
April 10, 2008
Washington Closure Hanford Building
2620 Fermi Avenue, Richland, WA 99354
Room C209; 1:00-4:30 p.m.

1:00 - 1:55 p.m.

Executive Session (Tri-Parties Only):

- RESidual RADioactivity ((RESRAD) Dose Model
 - Documentation of validation/verification in RDR or other forums
 - Is RESRAD offsite going to be proposed? If so, how does validation/verification compare to applicable guidance? Can validation/verification for RESRAD offsite be extended to non-radionuclides and if so, how?

2:00 p.m. - 2:15 p.m.

Administrative:

- Approval and signing of previous meeting minutes (February 2008)
- Update to Action Items List
- Next UMM (5/08/2008, Room C209)

2:15 - 4: 30 p.m.

Open Session: Project Updates:

- 100/300 Area Groundwater (Jim Hanson/Ann Shattuck)
- Systematic Planning Process (Guercia/B. Charboneau)
 - Use of WAC 173-340-747 and validation/verification of RESRAD
- Mission Completion (Jamie Zeisloft/John Sands/Jeff Lerch/Chris Cearlock)
- Groundwater/Source Integration
 - 5-year Record of Decision Review Update (Jim Hanson/Alicia Boyd)
- 100/300 Area Field Remediation and Closure (FR)
 - 100-F (Chris Smith/Rex Miller)
 - 300-FF-2 (Chris Smith/John Darby)
 - 618-10/11 (Chris Smith/Scott Parnell)
 - 100-B/C (Chris Smith/Dean Strom)
 - 118-K-1 (Chris Smith/Nelson Little)
 - 100-D (Tom Post/Mark Buckmaster)
 - 100-H (Tom Post/Mark Buckmaster)
 - 100-IU-2/IU-6 (Chris Smith/Rich Carlson)
 - Sampling and FR Design (Chris Smith/Jason Capron/Rich Carlson)
- D4/ISS
 - 300 Area D4 (Rudy Guercia/Megan Proctor)
 - 100 Area D4 & ISS (Tom Post/Chris Smith/Dan Saueressig)
- Special Topics

Attachment 1

Comments on RDR/RAWP relevant to RESRAD

1. the input parameters for evapotranspiration for ambient precipitation should be revised. We think it should be somewhere between 40-45% instead of the 91% that we think is currently used.
2. DOE should update the Section B.2 description of model acceptance, and verification & validation. The update should clarify the applications that the model was accepted for. It should be stated in terms consistent with regulations and guidance governing groundwater/vadose zone model acceptance, e.g. (following is from one of several guidance documents reviewed),
 - Simplifying assumptions and limitations of the model should be discussed and should be related to the problem being simulated, along with the impact these assumptions may have on the results. A description of where assumptions and actual field conditions do not coincide should be presented. It should be shown that the model chosen is appropriate for the system.
 - Sensitivity and field verification should be discussed.
 - In particular, the field verification and validation for non-radionuclides should be discussed.
3. Some known limitations should be addressed, including:
 - Application to hexavalent chromium, because experience shows that chromium concentrations can increase with depth. This experience is inconsistent with the conceptual model in use when RESRAD was originally selected.
 - Application where groundwater elevations are greatly influenced by the Columbia River, i.e., where groundwater could rise up into a contaminated zone. RESRAD is one-dimensional, and can't address upward movement of water.

B.2 MODEL SELECTION

The RESRAD model was selected for the 100 Area remedial design/remedial action and demonstration project as the dose assessment model for generating remedial action goals for radionuclide contaminants in soil, and for verifying that concentrations remaining after remedial action achieve the 15 mrem/yr cleanup level. The RESRAD model was developed by Argonne National Laboratory (ANL) to implement U.S. Department of Energy (DOE) guidelines for residual radioactive material in soil (ANL 1993). RESRAD is widely used in cleanup operations in the United States and abroad. RESRAD has been accepted by the U.S. Environmental Protection Agency (EPA), U.S. Nuclear Regulatory Commission (NRC), and other federal and state agencies for evaluation of radioactive waste site cleanup. The RESRAD code has been verified and validated by numerous agencies and organizations since its development.]

4. DOE should update Section C.3.1. There should be supporting rationale on why the calculations can be applied to any chemical. This should be restated, as it could not be applied to "any" chemical (for example, volatile organics).

C.3.1 Application of RESRAD to Nonradioactive Contaminants

The RESRAD model is only applied to nonradioactive contaminants if they fail to meet cleanup levels calculated using the 100 times rule. Although RESRAD was created to perform pathway analysis for exposures to radioactive materials, the calculations for environmental transport can be applied to any chemical. Nonradioactive contaminants are introduced into the model using, as surrogates, radioisotopes with long half-lives. The ideal surrogate would have a half-life greater than 100,000 years without daughter ingrowth (such as thorium-232). The 15 radionuclides that have been evaluated to be used as surrogates for nonradionuclides in RESRAD modeling are tabulated in Table C-1 below. Because the model can be evaluated over a 1,000-year period, the effects of radioactive decay on the final result would be less than 0.1%.

5. The potential use of RESRAD Offsite should be addressed. If it's going to be used, the model should be verified and validated for non-radionuclides.

Attachment 2

(2)

**100/300 Areas Unit Managers Meeting,
April 10, 2008**

100-NR-2 Groundwater OU - Russ Fabre

- Apatite Barrier Injections
 - Sampling of the performance wells resumed in February. Results expected in mid May.
 - Addendum to the Treatability Test Plan DOE/RL-2005-96 Revision 0 is in review.
 - Construction of the 6 Ringold formation wells will began on March 17, 2008. Three wells have been completed.
 - Interim report on the low concentration injections has been completed and is internal review.
 - Infiltration gallery and phyto remediation contract releases have been issued to PNNL, research work to began mid-March 2008.
 - Eco-Risk assessment report comments by Ecology are being reviewed and will be disposition.

100-KR-4 Groundwater OU - Julie Robertson

- Monthly monitoring of cultural resources for 100-KR-4 was performed on 3/24/08. No problems were observed.
- 100-KR-4 Remediation Treatment Status
 - For the period of March 1-31, 2008:
 - System operated normally.
 - Total average flow through the system was approximately 275 gpm.
 - Average influent hexavalent chromium concentration was 39 µg/L .
- KR-4 Expansion
 - Subcontract for construction of a 600 gpm expansion of the KR-4 system was awarded March 3, 2008, and construction was initiated March 24, 2008.
 - Five archaeological test units were dug in support of the system expansion on March 17 and 18, 2008 in accordance with the excavation permit. No cultural materials were observed in any of the units, and the project was cleared to perform necessary excavations in the test pit areas.
 - Drilling has been completed at all of the originally required 18 wells supporting the KR4 expansion. Drilling has also been completed at a 19th well that was necessitated when elevated hexavalent chromium was found in the groundwater at a proposed injection well site. The Tri-Parties met on April 3 to discuss options for locating four additional replacement injection wells. Modeling to support identification of replacement well locations continues, and a follow-up meeting will be scheduled for the week of April 14.
- KW Groundwater Remediation
 - KW Remediation Treatment Status for the period of March 1-31, 2008.
 - System operated normally.
 - Total average flow through the system was approximately 102 gpm.
 - Average influent hexavalent chromium concentration was 71 µg/L.
 - Over the past year, the hexavalent chromium concentrations in monitoring well 199-K-137 have increased from approximately 2200 ppb to 3500 ppb. A Sampling and

**100/300 Areas Unit Managers Meeting,
April 10, 2008**

Analysis Plan, including the results of a data quality objectives process, has been drafted to support drilling four new multipurpose wells in the vicinity of the 105-KW reactor during FY08.

100-K Area Drilling Status—Julie Robertson/Chris Wright (FH)

Drilling began on eighteen KR-4 Pump-and-Treat expansion wells on October 4, 2007. As of April 8, 2008, work has been completed at seventeen wells. One well is awaiting development. A nineteenth has also been drilled to support the KR-4 expansion; this well is under construction.

100-KR-4: K-Basins Monitoring Task—Duane Horton (FH)

- Leak Detection Monitoring Results:
 - The most recent results for routine quarterly sampling of wells in the K-Basins network are for samples collected in January 2008. Results received to date are consistent with trends and expectations.
 - The most recent results for monthly sampling at three wells close to the KE Basin (199-K-27, 199-K-29, and 199-K-109A) are for samples collected in March 2008. Results are on level concentration trends with recent data..
 - Wells 199-K-27 and 199-K-109A are immediately downgradient of the KE Basin and are scheduled to be decommissioned in April. Both wells were sampled on February 15, 2008 at the request of EPA. The samples were analyzed for carbon-14, gross alpha, gross beta, strontium-90, technetium-99, tritium, and isotopic uranium. All results were on level concentration trends with recent historic data except U-234 and U-238 which were elevated. The samples were reanalyzed for isotopic uranium and a second set of samples were collected on March 19, 2008 and analyzed for isotopic uranium. The results from the reanalysis and the March 19 sample were consistent with historic concentrations indicating that the first analysis was not valid. Wells 199-K-141 and 199-K-142 will replace wells 199-K-27 and 199-K-109A.
 - There is no evidence to indicate groundwater impacts attributable to leakage of shielding water from either Basin.

- Monitoring Well Network:
 - Routine quarterly sampling of K-Basins network wells were sampled in January 2008. The monthly sampling scheduled near KE basin is coordinated with the quarterly event. Next routine sampling is scheduled for April 2008.
 - Results from the January 2008 sampling event received thus far are on trend with previous results.
 - Nitrate exceeds MCL in 3 wells, tritium exceeds the MCL in 2 wells, chromium, exceeds the MCL in 2 wells, strontium-90 exceeds the MCL in 1 well and gross beta exceeds the MCL in 1 well.

- Reporting:
 - The most recent quarterly, RCRA groundwater report was for July, August, and September 2007 (SGW-36499). The fourth quarter report is in preparation.
 - The fiscal year 2007 annual groundwater report (DOE/RL-2008-01) was transmitted to DOE and Ecology on March 1, 2008.

**100/300 Areas Unit Managers Meeting,
April 10, 2008**

100-HR-3 Groundwater OU - Ron Jackson

- Remediation Treatment Status
 - For the period March 1-31, 2008:
 - The system operated normally.
 - Total average flow through the system was approximately 163 gpm.
 - Average influent hexavalent chromium concentration for H Area was approximately less than 0.015 mg/L.
 - Average influent hexavalent chromium concentration for D Area was approximately 0.199 mg/L.

- Remediation Optimization Process
 - Preparation of a draft DR-5 performance evaluation report is underway.
 - Planning is underway to prepare a 100-D Area technology/cost evaluation report.
 - An overall optimization plan for the 100-HR-3 OU is tentatively planned to be completed in late fall, 2008.
 - Evaluating short modifications to the HR-3 pump and treat system in terms of adding additional extraction and/or injection wells.
 - Technologies workshop for treatment of chromium in groundwater (100-Area) was held April 8-10, 2008.

- DR-5 Treatment Status
 - For the period March 1-31, 2008:
 - The DR-5 system was down for 2 days due to pressure transducer failing in the injection well. The injection well was also redeveloped. Extraction well 199-D5-20 is down due to controller problems.
 - Total average flow through the system was approximately 38 gpm.
 - The average influent hexavalent chromium concentration was approximately 0.748 mg/L.
 - A meeting with Ecology was held on April 3 to status the results of recent DR-5 resin regeneration process improvements and update the sample results for wastewater discharged weekly to the ISRM Pond. This discussion summarized current near term efforts and the long term objective of eliminating altogether the discharge to the ISRM Pond. The sample data continue to demonstrate that total chromium concentrations in the effluent stream are below the dangerous waste threshold. Minor process adjustments will continue for a short time with the objective of establishing a stable process producing repeatable results on a weekly basis. Also shared was progress on revision of the ISRM Pond operating procedure, recent calculations of pond size as it relates to the requirement for groundwater monitoring, and status of the non-significant change to the interim ROD concerning continued used of the ISRM Pond. A draft of the non-significant change is in review with RL.

- "Horn" Investigation
 - Completed vertical profile sampling of selected wells.
 - The installation of pressure transducers in selected wells has been initiated during the week of March 11.

**100/300 Areas Unit Managers Meeting,
April 10, 2008**

- Continue to gather data and prepare figures in preparation of the "Horn" investigative report. This report is due to RL in September.
- Summary of ISRM Status
 - Seventy ISRM wells were sampled in February. Sampling showed no new breakthroughs in the ISRM barrier and hexavalent concentrations are at levels as expected for this period of the River stage.
- EM-22 Technology Projects
 - Investigation for mending ISRM Barrier: Detailed geochemical tests on the two iron compounds have been completed, and data are arriving from the laboratory. Injection tests are currently underway. No change.
 - EC Treatability Test: Received RL comments on the decisional draft.
 - Began drilling the third of four new wells planned to further refine the chromium source in 100-D. No significant vadose zone or groundwater contamination has been encountered.
 - A draft Field Investigation Plan for investigation of chromium sources in the northern 100-D plume has been reviewed by RL and comments are being incorporated.
 - Groundwater around the biostimulation wells is being sampled twice a month. The groundwater is maintaining a reduced condition. (No change)

300-FF-5 Operable Unit—Bob Peterson and Ron Smith (PNNL-updated 04/07/08)

- Operations and Maintenance Plan Activities
 - *300 Area Subregion*: Results for the December 2007 sampling event are now available and an updated uranium plume map has been prepared. The uranium distribution is consistent with previous maps for December. Results for the most recent monthly sampling under RCRA are for February 2008 samples. Winter sampling of a subset of the aquifer tubes at the shoreline occurred in mid-March. Additional sampling has been conducted at wells downgradient of the 618-7 burial ground, where excavation activities began in February 2008. Uranium in groundwater at well 399-8-5A is elevated compared to historical trends, possibly as the result of increased infiltration from the surface. There are three instances of increased uranium concentrations at this well during Januarys of previous years, but none as high as the current result.
 - *618-11 Burial Ground Subregion*: No change since last UMM. (Results are now available for samples collected in January 2008. Tritium at 699-13-3A, adjacent to the burial ground, has remained in the range 900,000 ~ 1,000,000 pCi/L for the last several sampling events.)
 - *618-10 Burial Ground Subregion*: No change since last UMM. (Most recent results are for samples collected in mid-September. Uranium remains well below the drinking water standard. Tributyl phosphate remains very low or nondetected.)
 - *Update to Sampling and Analysis Plan (DOE/RL-2002-11, Rev. 1)*: No change since last UMM (Proposed changes to the sampling schedules in this plan have been completed. Updates to other portions of the plan are in progress.)
- Phase III Feasibility Study
 - A status report on developing a uranium remediation strategy was presented to DOE on March 25, 2007. This report was subsequently also presented to EPA on April 3.

**100/300 Areas Unit Managers Meeting,
April 10, 2008**

- Other Activities
 - *VOC Investigation*: Work continues on a report describing the results of this investigation.
 - *Systematic Planning for 300-FF-5*: No change since last UMM. (The planning effort will start this month (April). It will be the second Systematic Planning activity, following work on 100-K, 100-D, and 100-H, and will incorporate lessons learned from those efforts.)

100-BC-5 Operable Units—Mary Hartman

All of the wells and aquifers have been sampled as scheduled. Field data from wells sampled in February have been loaded into HEIS. Laboratory results are pending. January 2008 tritium and chromium data from the 100-C-7 wells were in the same ranges as previously measured.

100-FR-3 Operable Unit—Mary Hartman

Discussions were held with RL, EPA, WCH and FH on locating a well to obtain a representative groundwater sample near 118-F-6 burial ground. This information will be included in the backfill concurrence for 118-F-6.

Aquifer Tube Installations – Jane Borghese

Ecology has replied to the comment resolution. Two comments will be readdressed. As of April 5th, 19 sites and 44 tubes have been installed. All the tubes sites at 100-D, 100-F and 300 Area have been installed and 4 sites at 100-N. The crew is currently working at the PO-1 shoreline.

200-PO-1

Attachment 3

Attachment 4



Environmental Protection Mission Completion Project
April 10, 2008

Orphan Sites Evaluations

- 100-IU-2 and 100-IU-6 MP-14 checklists and summary report being drafted for RL/regulator review scheduled in May.
- Continuing N-Area historical review and initiate walkdown.
- Schedule meeting with Ecology to review OSE for the H-Area in April.
- Data collection of orthophotography and LiDAR data in support of inter-areas evaluation began April 1. All data anticipated to be collected by end of April depending on weather conditions.

Long-Term Stewardship

- Continue preparation of the 100-BC Area Remedial Action Report.

River Corridor Baseline Risk Assessment

- Continuing preparation of Draft B document based on comment dispositions discussed and input received during the January workshop.
- Output of ecological COPC refinement discussed during briefing on April 10 and process will be updated based on meeting agreements. Output for human health COPC refinement anticipated to be ready for Tri-Party review by end of April.

Columbia River Component Investigation

- Public workshop scheduled for April 17 to discuss assessment methodology and sampling design.
- Continuing development of work plan based on agreements made during March scoping session with Tri-Parties and subsequent discussions.

Source/GW Systematic Planning

- Developing D/H Area source data gaps and proposed needs.
- Gathering background information to support systematic planning process for K, B/C, and F Areas.

Document Review Look-Ahead

| Document | Regulator Review Start | Duration |
|--|------------------------|----------|
| Columbia River Component Work Plan | June 17, 2008 | 45 days |
| RCBRA Draft B | September 16, 2008 | 45 days |
| Integrated RI/FS Work Plan – D/H Area Addendum | December 2008 | 60 days |

Attachment 5

(5) (16)

Proposed Phytotoxicity Resampling

- 7 upland waste sites that exceed benchmarks for lead (5 sites) and boron (2 sites):
116-F-1, 1607-H2, 600-131, 300-132, 600-139, 600-171, 600-208
- 4 native soil reference sites: McGee, Saddle Mt., Vernita South, Yakima Ridge 2
- 1 MIS collected from each site
- Analysis
 - Soil Plant Toxicity – ASTM E1963
 - Particle Size – D422
 - Moisture Content – D2216
 - TOC – 9060
 - pH – 9045
 - Nitrogen by Kjeldahl – 351.2
 - Ammonia – 350.3
 - IC Anions – 300.0
 - ICP Metals – 6010 (full list)
 - Mercury – 200.8
 - PAH's – 8310
 - Chloro-Herbicides – 8151
 - Nitrite/Nitrate – 353.2
- Results will not be obtained in time for Draft B. Placeholders in the Draft B, results in Rev 0.

Approved
Larry Stallos April 10 '08

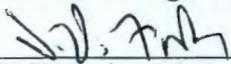
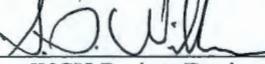
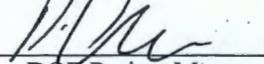
Approved
John B. Pri 4-10-2008

Attachment 6

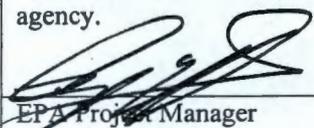
| Waste Site: 120-F-1 Waste Site | BACKFILL CONCURRENCE CHECKLIST (Concurrence to Proceed with Waste Site Backfill Operations) | | WIDS No: 120-F-1 | |
|--|--|---|---------------------|------|
| This checklist is a summary of cleanup verification results for the 120-F-1 waste site. The checklist is intended as an agreement allowing the RCC subcontractor to backfill the excavation prior to the issuance of the final cleanup verification package. The lead regulatory agency has been provided copies of detailed calculations. The results are summarized below. | | | | |
| Regulatory Requirement | Remedial Action Goals (RAG) | Results | RAG Attained | Ref. |
| Direct Exposure – Radionuclides | 1. Attain 15 mrem/yr dose rate above background over 1000 years. | 1. Radionuclides were not COPCs for this waste site. | NA | NA |
| Direct Exposure – Nonradionuclides | 1. Attain individual COPC RAGs. | 1. All individual COPC concentrations are below the RAGS. | Yes | A |
| Meet Nonradionuclide Risk Requirements | 1. Hazard quotient of less than 1 for noncarcinogens. | 1. The hazard quotients for individual nonradionuclide COCs in the shallow zone are less than 1. | Yes | B |
| | 2. Cumulative hazard quotient of less than 1 for noncarcinogens. | 2. The cumulative hazard quotient is less than 1 for the shallow zone. | | B |
| | 3. Excess cancer risk of $<1 \times 10^{-6}$ for individual carcinogens. | 3. Excess cancer risk values for individual nonradionuclide COCs are less than 1×10^{-6} . | | B |
| | 4. Attain a total excess cancer risk of $<1 \times 10^{-5}$ for carcinogens. | 4. Total nonradionuclide COCs excess cancer risk is less than 1×10^{-5} . | | B |
| Groundwater/River Protection – Radionuclides | 1. Attain single COC groundwater & river RAGs. | 1. Radionuclides were not COPCs for this waste site. | NA | NA |
| | 2. Attain National Primary Drinking Water Regulations 4-mrem/yr (beta/gamma) dose standard to target receptor/organ. | 2. Radionuclides were not COPCs for this waste site. | | NA |
| | 3. Meet drinking water standards for alpha emitters: the more stringent of 15 pCi/L MCL or 1/25 th of the derived concentration guide for DOE Order 5400.5. | 3. Radionuclides were not COPCs for this waste site. | | NA |
| | 4. Meet total uranium standard of 21.2 pCi/L. | 4. Radionuclides were not COPCs for this waste site. | | NA |
| Groundwater/River Protection – Nonradionuclides | 1. Attain individual nonradionuclide groundwater and river cleanup requirements. | 1. Residual concentrations of mercury and selenium exceeded the soil RAG for the protection of groundwater and/or the Columbia River. However, based on the <i>100 Area Analogous Sites RESRAD Calculations</i> (BHI 2005), these constituents are not predicted to migrate more than 2 m (6.6 ft) vertically in 1,000 years (based on the lowest soil-partitioning coefficient distribution [mercury] of 30 mL/g). The vadose zone underlying the remediation footprint at 120-F-1 is approximately 6.6 m (21.7 ft) thick. Therefore, residual concentrations achieve the remedial action objectives for groundwater and river protection. | Yes | A, C |

| | | |
|--|---|----------------------------|
| Waste Site: 120-F-1 Waste Site | BACKFILL CONCURRENCE CHECKLIST (Concurrence to Proceed with Waste Site Backfill Operations) | WIDS No: 120-F-1 |
| Other Supporting Information | 1. GPERS Survey Map. | E |

All citations above and references on attached sheet are on record with Washington Closure Hanford, Inc., Document Control. Above noted regulatory requirements have been attained.

| | | | | | |
|--|--------|---|--------|---|--------|
|  | 4/2/08 |  | 4/3/08 |  | 4/8/08 |
| WCH Project Manager | Date | WCH Project Engineer | Date | DOE Project Manager | Date |

Given the attached information, DOE can proceed with backfill of the site with minimal risk. Final approval that the site has met RAOs and RAGs will occur with the submittal, review, and approval of the Cleanup Verification Package by the lead regulatory agency.

| | | | |
|--|--------|-------------------------|------|
|  | 4/8/08 | N/A | N/A |
| EPA Project Manager | Date | Ecology Project Manager | Date |

Attachment 7

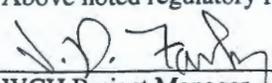
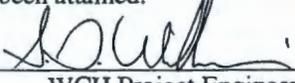
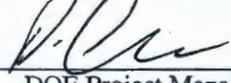
1

| | | |
|---|---|--------------------------------|
| Waste Site: 100-F-26:9 1607-F2 Sanitary Sewer Pipelines Subsite | BACKFILL CONCURRENCE CHECKLIST (Concurrence to Proceed with Waste Site Backfill Operations) | WIDS Nos: 100-F-26:9 |
|---|---|--------------------------------|

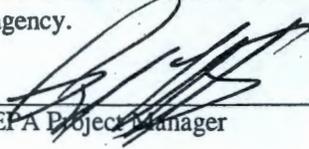
This checklist is a summary of cleanup verification results for the 100-F-26:9 1607-F2 Sanitary Sewer Pipelines Subsite. The checklist is intended as an agreement allowing the RCCC subcontractor to backfill the excavation prior to the issuance of the final cleanup verification package. The lead regulatory agency has been provided copies of detailed calculations. The results are summarized below.

| Regulatory Requirement | Remedial Action Goals (RAG) | Results | RAG Attained | Ref. |
|---|--|---|--------------|------|
| Direct Exposure – Radionuclides | 1. Attain 15 mrem/yr dose rate above background over 1000 years. | 1. The only radionuclide COPC detected was cesium-137. The maximum result was less than the single-radionuclide 15 mrem-yr dose-equivalence lookup value. The dose rate is therefore less than 15 mrem/yr. | Yes | A, C |
| Direct Exposure – Nonradionuclides | 1. Attain individual COC RAGs. | 1. All individual COPC concentrations are below the RAGs. | Yes | A, C |
| Meet Nonradionuclide Risk Requirements | 1. Hazard quotient of less than 1 for noncarcinogens. | 1. The hazard quotients for individual nonradionuclide COPCs are less than 1. | Yes | B |
| | 2. Cumulative hazard quotient of less than 1 for noncarcinogens. | 2. The cumulative hazard quotient is less than 1. | | B |
| | 3. Excess cancer risk of $<1 \times 10^{-6}$ for individual carcinogens. | 3. Excess cancer risk values for individual nonradionuclide COPCs are less than 1×10^{-6} . | | B |
| | 4. Attain a total excess cancer risk of $<1 \times 10^{-5}$ for carcinogens. | 4. Total excess cancer risk is less than 1×10^{-5} . | | B |
| Groundwater/River Protection – Radionuclides | 1. Attain single COC groundwater & river RAGs. | 1. No radionuclide COPCs were quantified above groundwater/river protection lookup values. | Yes | A, C |
| | 2. Attain National Primary Drinking Water Regulations 4-mrem/yr (beta/gamma) dose standard to target receptor/organ. | 2. No radionuclide COPCs were quantified above groundwater/river protection lookup values. | | A, C |
| | 3. Meet drinking water standards for alpha emitters: the more stringent of 15 pCi/L MCL or 1/25 th of the derived concentration guide for DOE Order 5400.5. | 3. No alpha-emitting radionuclide COPCs were detected above background levels. | | A |
| | 4. Meet total uranium standard of 21.2 pCi/L. | 4. No uranium isotopes were detected in verification soil samples. | | A |
| Groundwater/River Protection – Nonradionuclides | 1. Attain individual nonradionuclide groundwater and river cleanup requirements. | 1. Residual concentrations of barium, copper, lead, selenium, silver, zinc, Bis(2-ethylhexyl)phthalate, Aroclor-1254 and Aroclor-1260 exceeded the soil RAG for the protection of groundwater and/or the Columbia River. However, it is predicted that these constituents will not migrate to groundwater (and thus the Columbia River) at concentrations exceeding groundwater or river criteria within 1,000 years. Therefore, residual concentrations achieve the remedial action objectives for groundwater and river protection. | Yes | A, C |
| Other Supporting Information | 1. GPERs Radiological Survey Track Maps | | | D |
| | 2. 100-F-26:9 Pipelines Verification Samples Location Map | | | |

All citations above and references on attached sheet are on record with Washington Closure Hanford, Inc., Document Control. Above noted regulatory requirements have been attained.

| | | | | | |
|--|--------|---|--------|---|--------|
|  | 4/3/08 |  | 4/8/08 |  | 4/8/08 |
| WCH Project Manager | Date | WCH Project Engineer | Date | DOE Project Manager | Date |

Given the attached information, DOE can proceed with backfill of the site with minimal risk. Final approval that the site has met RAOs and RAGs will occur with the submittal, review, and approval of the Cleanup Verification Package by the lead regulatory agency.


EPA Project Manager

4/8/08
Date

N/A
Ecology Project Manager

N/A
Date

Backfill Concurrence Checklist Attachments/References

| Attachment/ Reference | Description |
|--------------------------|---|
| A | 100-F-26:9 Pipelines Cleanup Verification 95% UCL Calculation, Calculation No. 0100F-CA-V0353 |
| B | 100-F-26:9 Pipelines Hazard Quotient and Carcinogenic Risk Calculations, Calculation No. 0100F-CA-V0354 |
| C | 100-F-26:9 Pipelines Action Level Comparison Tables |
| D | GPERS Radiological Survey Track Maps (7 total) |
| E | 100-F-26:9 Pipelines Verification Samples Location Map |

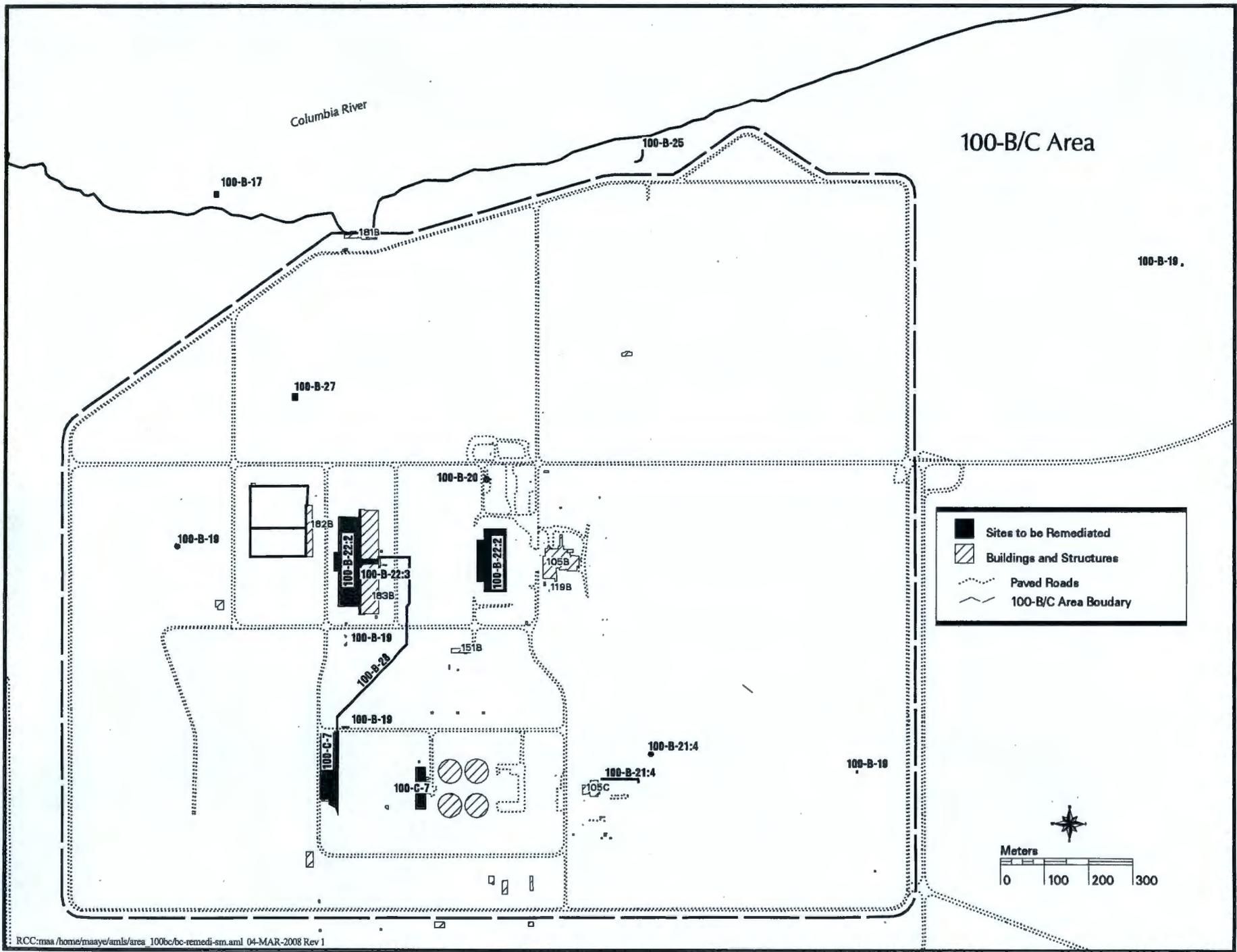
Attachment 8



Activities at the 618-7 Burial Ground

- Have completed excavation and sorting in the west half of the middle trench started excavation in the west half of the north trench.
- Continued to process drums and anomalies excavated from the trench.
- Have started construction of a west side queue.

Attachment 9



Attachment 10

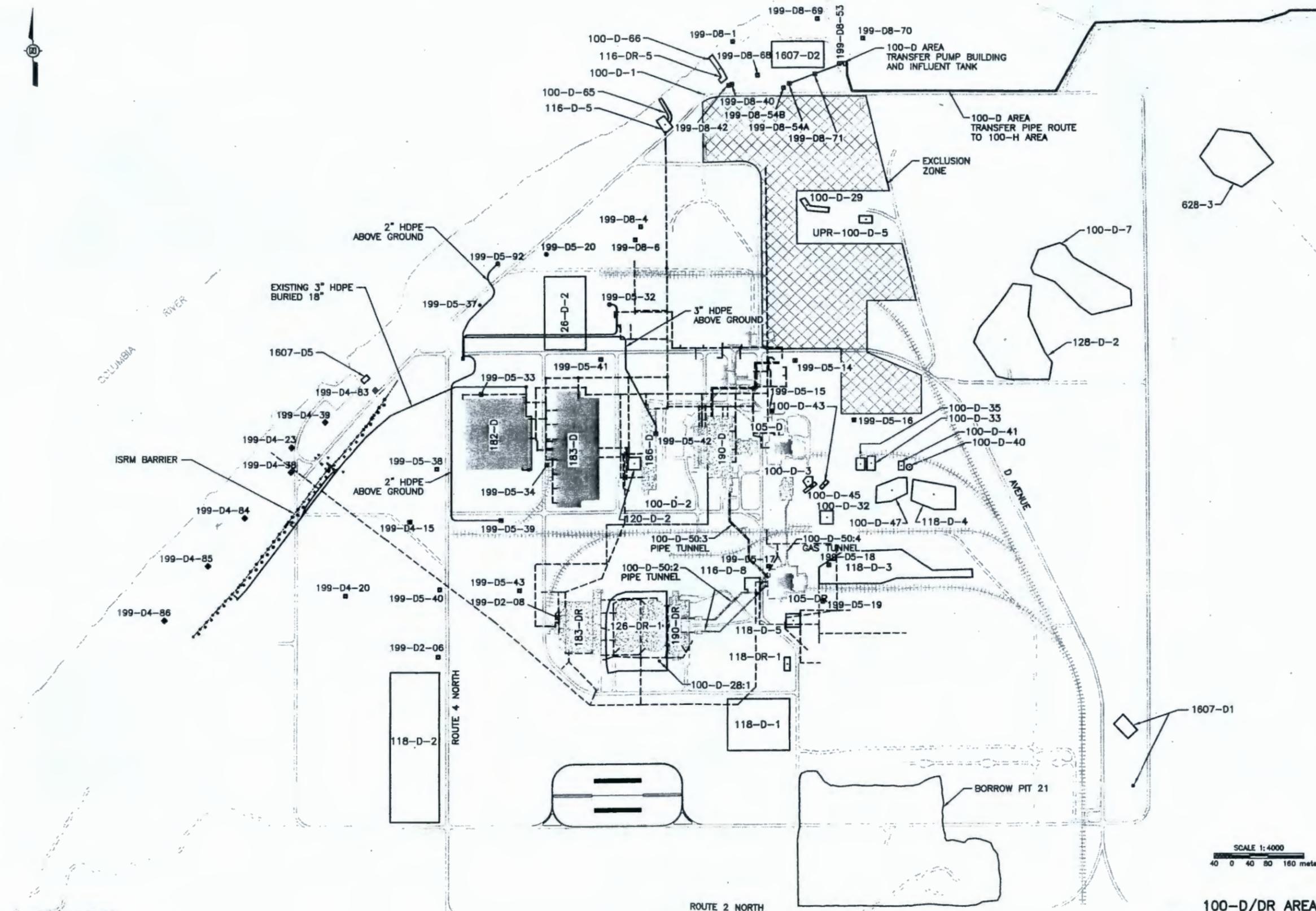
Attachment 11

122



COLUMBIA RIVER

ISRM BARRIER



SCALE 1:4000
40 0 40 80 160 meters

100-D/DR AREA
WASTE SITES AND PIPELINES
OVERALL SITE LOCATION PLAN

ROUTE 2 NORTH

ROUTE 4 NORTH

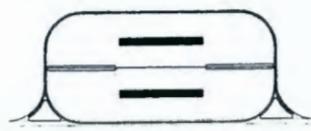
D AVENUE

BORROW PIT 21

118-D-2

118-D-1

1607-D1



Attachment 12

Attachment 13

DOE-RL and the Washington Department of Ecology agree that further discussion of potential sampling or reclassification of the 116-H-4 waste site will be deferred until planning for the 100-H RI/FS work plan.

Attachment 14

14

Mission Completion
Sample Design and Cleanup Verification
for the April 2008 UMM

| AREA | DOE-RL/REGULATOR DELIVERABLE | START | FINISH |
|-------------------|---|---------------|-----------|
| 100-BC | RL/Regulator Review Draft A Closure Document for 100-B-21:2 | 4/17/08 | 5/31/2008 |
| | RL/Regulator Review Draft A Closure Document for 100-B-23 | 4/29/2008 | 6/12/2008 |
| | RL Approve 100-BC AMP (100B/FY07) | 6/30/2008 | 8/4/2008 |
| 100-D | RL/Regulator Review Draft A Closure Document for 100-D-3 | 4/9/2008 | 5/23/2008 |
| | RL/Regulator Review Draft A WI for 120-D-2 | 4/15/2008 | 5/29/2008 |
| | RL/Regulator Review Draft A Closure Document for 100-D-63 | 4/17/2008 | 5/31/2008 |
| | RL Regulator Review Draft A WI for 100-D-31:5 | 4/21/2008 | 6/4/2008 |
| | RL/Regulator Review Draft A WI for 100-D-32 | 4/29/2008 | 6/12/2008 |
| | RL/Regulator Sign Rev. 0 WI for 100-D-61 | 5/7/2008 | 5/8/2008 |
| | RL Approve 100-D AMP (100-D_MD_FS) | 5/13/2008 | 6/17/2008 |
| | RL/Regulator Sign Rev. 0 Closure Document for 100-D-3 | 6/12/2008 | 6/16/2008 |
| | RL/Regulator Sign Rev. 0 WI for 100-D-32 | 6/19/2008 | 6/23/2008 |
| | RL/Regulator Sign Rev. 0 WI for 120-D-2 | 6/21/2008 | 6/22/2008 |
| 100-F | RL/Regulator Review Draft A Closure Document for 118-F-5 | 2/11/2008 (A) | 4/10/2008 |
| | RL/Regulator Review Draft A Closure Document 100-F-26:12 Pipeline | 2/27/2008 (A) | 4/10/2008 |
| | RL/Regulator Review Draft A Closure Document for 100-F-50 | 4/8/2008 | 5/22/2008 |
| | RL/Regulator Review Draft A Closure Document for 100-F-54 | 4/8/2008 | 5/22/2008 |
| | RL/Regulator Review Draft A Closure Document 100-F-26:4 Pipeline | 4/15/2008 | 5/29/2008 |
| | RL/Regulator Sign Rev 0 Closure Document 100-F-26:12 Pipeline | 4/23/2008 | 5/1/2008 |
| | RL/Regulator Review Draft A Closure Document for 100-F-44:2 | 4/23/2008 | 6/6/2008 |
| | RL/Regulator Review Draft A Closure Document for 100-F-46 | 4/23/2008 | 6/6/2008 |
| | RL/Regulator Review Draft A Closure Document for 100-F-44:5 | 4/30/2008 | 6/13/2008 |
| | RL/Regulator Sign Rev 0 Closure Document for 118-F-5 | 5/6/2008 | 5/8/2008 |
| | RL/Regulator Review Draft A Closure Document for 100-F-52 | 5/6/2008 | 6/19/2008 |
| | RL/Regulator Review Draft A Closure Document for 100-F-45 | 5/21/2008 | 7/4/2008 |
| | RL/Regulator Sign Rev. 0 Closure Document for 100-F-50 | 6/12/2008 | 6/16/2008 |
| | RL/Regulator Sign Rev. 0 Closure Document for 100-F-54 | 6/12/2008 | 6/16/2008 |
| | RL/Regulator Sign Rev 0 Closure Document 100-F-26:4 Pipeline | 6/19/2008 | 6/23/2008 |
| | RL/Regulator Sign Rev. 0 Closure Document for 100-F-44:2 | 6/26/2008 | 6/30/2008 |
| | RL/Regulator Sign Rev. 0 Closure Document for 100-F-46 | 6/26/2008 | 6/30/2008 |
| | RL/Regulator Sign Rev. 0 Closure Document for 100-F-44:5 | 6/26/2008 | 6/30/2008 |
| | RL/Regulator Sign Rev. 0 Closure Document for 100-F-52 | 7/14/2008 | 7/15/2008 |
| 100-H | RL/Regulator Signature Rev. 0 WI for 100-H-36 | 5/12/2008 | 5/13/2008 |
| 100-N | RL Review of Draft 100-A ESD | 1/3/2008 (A) | 5/15/2008 |
| | RL/Regulator Sign Rev. 0 WI for 100-N-53 | 4/15/2008 | 5/29/2008 |
| | RL/Regulator Review Draft A WI for 100-N-28 | 4/15/2008 | 5/29/2008 |
| | RL Issue 100-A Draft B ESD for Public Review | 5/16/2008 | 6/14/2008 |
| | RL/Regulator Sign Rev. 0 WI for 100-N-28 | 6/16/2008 | 7/28/2008 |
| | RL Review of 100-A RDR/RAWP | 6/12/2008 | 6/16/2008 |
| | RL/Regulator Review of 100-A SAP | 6/19/2008 | 8/7/2008 |
| 100-IU-2-6 | 618-10/11 RL Review Phase 2 Characterization Pln | 2/26/2008 (A) | 4/30/2008 |
| | RL/Regulator Review Draft A WI for 600-111 | 4/15/2008 | 5/29/2008 |
| | 618-10/11 RL Review SAP Draft A | 5/6/2008 | 6/3/2008 |
| | 618-10/11 RL Transmit Draft A SAP to EPA | 6/4/2008 | 6/17/2008 |
| | RL/Regulator Sign Rev 0 WI for 600-111 | 6/18/2008 | 6/19/2008 |

Mission Completion
 Sample Design and Cleanup Verification
 for the April 2008 UMM

| AREA | DOE-RL/REGULATOR DELIVERABLE | START | FINISH |
|----------|---|---------------|-----------|
| 300 Area | | | |
| | RL Review FHC Update for 618-1 | 1/22/2008 (A) | 4/9/2008 |
| | RL/Regulator Review Draft A WI for 300-275 | 2/28/2008 (A) | 4/12/2008 |
| | RL/Regulator Sign Rev. 0 WI for 300-275 | 4/10/2008 | 5/24/2008 |
| | RL/Regulator Rev. of Draft A Closure Document 600-243 | 4/17/2008 | 5/31/2008 |
| | RL Review Draft A 300 Area ESD | 4/28/2008 | 4/30/2008 |
| | RL/Regulator Review Draft A Closure Document 331 LSLDF | 4/21/2008 | 6/4/2008 |
| | RL/Regulator Review Draft A WI for 600-276 | 4/15/2008 | 5/29/2008 |
| | RL Review 300-Area Cultural Review | 4/30/2008 | 6/4/2008 |
| | RL/Regulator Sign Rev. 0 WI for 600-276 | 6/3/2008 | 7/22/2008 |
| | RL/Regulator Sig & Issue Rev 0 Closure Document 600-243 | 6/5/2008 | 6/9/2008 |
| | RL Issue 300 Area ESD for Public Review | 6/5/2008 | 7/19/2008 |
| | RL Review Misc Rest Cultural Review(MR_FY08) | 6/9/2008 | 7/14/2008 |
| | RL/Regulator Review Draft A WI for 300-32 | 6/12/2008 | 6/16/2008 |
| | RL Review 300 Area RDR | 7/2/2008 | 7/7/2008 |

Attachment 15

100 Area D4/ISS Status
April 10, 2008
100/300 Area Combined Unit Manager Meeting

Ongoing Activities

- 163-N/183-N –Backfill of the 163-N/183-N complete.
- 109-N – Asbestos abatement in Area 7 complete, area cleared. Abatement in Area 5 and corridor 19 ongoing. Hazardous material removal in 109-N ongoing. Preparation/planning for mobilization in 105-N ongoing.
- 182-N – Hazardous material removal ongoing.
- 184-N/NA – Demolition of 184-NA ongoing.
- 1802-N - Below grade demolition and load-out of above and below grade debris ongoing.
- 1310-N – Berm wall removal ongoing.
- 105-N – Class 1 asbestos abatement ongoing.
- 183-ND – Characterization and above grade demolition ongoing.

60-Day Project Look Ahead

- 184-N demolition.
- 108-N demolition phase 1.
- Award contract for 105-N/109-N demolition and Safe Storage Enclosure construction.
- 1310-N/1322-N characterization.
- 116-N stack demolition.

Agreements

100-N Ancillary Facilities Air Monitoring Plan revision.
184-N Demolition.

Attachment 16

16
119
40

300 Area D4 Status
April 10, 2008
100/300 Area Combined Unit Manager Meeting

Ongoing Hazardous Material Removal

- 321
- 323
- 324
- 327
- 337B
- 308

Ready for Demolition:

- 337
- 3718
- 3718E
- 3718N

Demolition Activities:

- 384 – Hot demolition underway

60-Day Project Look Ahead

- Continue hazardous material removal at 323, 337B, 3718 (A, B, C and G)
- Begin hazardous waste removal at 3721, 3727 and 3728
- Move personnel out of 324 to Energy Northwest and trailers to facilitate deactivation
- Start demolition at 321 and 323

Attachment 17

118
17

AIR MONITORING PLAN FOR THE 100-N ANCILLARY FACILITIES DECONTAMINATION AND DECOMMISSIONING

AGREEMENT BETWEEN DOE-RL AND ECOLOGY

Ecology and DOE agreed to add the following language to Revision 2 of the Air Monitoring Plan for the 100-N Ancillary Facilities. This language is added to Section 1.2 after the first paragraph on page 5 titled 107-N Basin Recirculation Cooling Building (Recirculation Cooling Building).

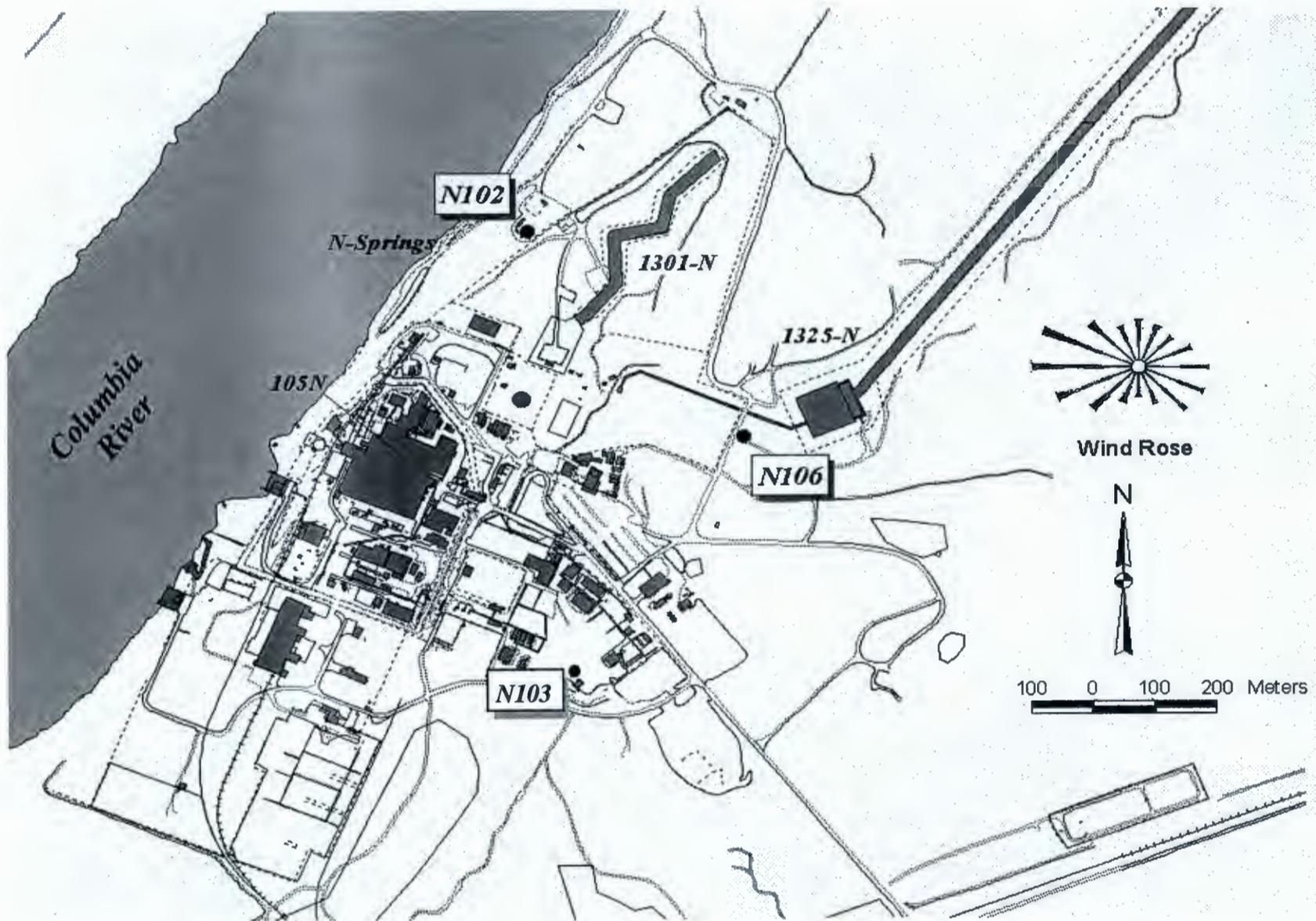
Prior to demolition of the concrete structure, sampling and equipment removal activities will occur. The HVAC system will be operated during indoor activities. There are five vessels remaining that require removal prior to demolition, two cation exchange vessels, two sand filter vessels, and a sand filter backwash settling vessel. The following work remains to be completed at the 107-N building prior to demolition:

- Drain liquids from the two sand filter vessels. (Note the bentonite clay/absorbent in the sand filter backwash settling vessel will not be removed from the vessel).
- Isolate openings to the five remaining vessels with blank flanges to ensure tank contents are contained during removal, grouting and transport.
- Place HEPA filtered vents on the vessels in preparation for grouting
- Remove the cover blocks and retrieve the two sand filter vessels and two cation exchange vessels with a high capacity crane.
- Place "dog house" cover hatches over the openings in the roof left after removal of these four vessels or replace the cover blocks.
- Perform other deactivation work such as, but not limited to, removing accessible portion of contaminated two inch vent piping and applying fixative to the remaining portions, decontaminating or fixing any external loose contamination, draining incidental liquids from within the piping systems, hazardous materials removal, etc.
- Remove the HVAC system, cut out a section of the roof, and remove the sand filter backwash settling vessel.

All of this work will be performed with the HVAC system in operation; however as noted above, the HVAC system must be removed in order to retrieve the sand filter backwash settling vessel. The five remaining vessels will be grouted after they have been removed from the building. As noted above, HEPA filtered vents will control potential emissions from these tanks during grouting.

In Addition, the Figure 1 on page 10-A is replaced with the attached figure, updating the location of Near Facility Air Monitor N-103.

10-A



Attachment 18

184-N DEMOLITION

AGREEMENT BETWEEN DOE-RL AND ECOLOGY

Based on the demolition procedure (Work Package #100 08 01 07 001) shared with Ecology and DOE on April 3, 2008, Ecology and DOE agree that demolition of the 184-N with small amounts of asbestos left in place can be done safely and in compliance with applicable laws and requirements. This approval allows use of some limited explosives strategically placed to cripple the structure and drop some heavy items from elevated portions of the building. The explosives, if used, would enable the contractor to drop the stack from the roof, drop the gantry crane and de-aerator tanks from the top floor, along with fracturing the concrete pedestal that supports the turbine. If explosives are used, they would be strategically placed to avoid any direct impact to asbestos.

Any changes made to the asbestos controls identified in the referenced procedure will be shared with Ecology and DOE before being implemented in the field.