100 AREA / 300 AREA UNIT MANAGERS' MEETING MINUTES

Groundwater / Source Operable Units / Facility Demolition

TRANSMITTAL / APPROVAL

April 13, 2006

APPROVAL: _____ Date 6/6/06

Kevin D. Bazzell, RL (A3-04)
River Corridor Project Manager

APPROVAL: _____ Date 6/08/06

Briant Charbonneau, RL (A6-33)
Groundwater Project Manager

APPROVAL: _____ Date 6/08/2006

John Price / Rick Bond, Ecology (H0-57)
Environmental Restoration Manager

APPROVAL: Larry Gadbois Date 7-13-2006

Larry Gadbois, EPA (B1-46)
100 Aggregate Area Unit Manager

APPROVAL: _____ Date _____

Alica Boyd, EPA (B1-46)
300 Aggregate Area Unit Manager

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100 AREA / 300 AREA UNIT MANAGERS' MEETING MINUTES

Groundwater / Source Operable Units / Facility Demolition

April 13, 2006

DISTRIBUTION

DOE-RL

Kevin Bazzell	A3-04
Briant Charboneau	A6-33
Clifford Clark	A3-04
Rudolph Guercia	A3-04
Roger Pressentin	A3-04
John Sands	A3-04
Douglas (Chris) Smith	A6-38
K (Mike) Thompson	A6-38
Arlene Tortoso	A6-38
Kent Westover	A3-04
Jamie Zeisloft	A3-04

ECOLOGY

Jeff Ayres	H0-57
Rick Bond	H0-57
Dib Goswami	H0-57
Alisa Huckaby	H0-57
John Price	H0-57
Beth Rochette	H0-57
Noel Smith-Jackson	H0-57
Jean Vanni	H0-57

EPA

Alica Boyd	B1-46
Dennis Faulk	B1-46
Larry Gadbois	B1-46

FH

Jane Borghese	E6-35
Ronald Jackson	E6-35
Robert Piippo	H8-12
John Winterhalder	E6-35

PNNL

John Fruchter	K6-96
Mary Hartman	K6-96
Ron Jackson	E6-35
Stuart Luttrell	K6-96
Thomas Naymik	K6-96
Robert Peterson	K6-75

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WCH

Kimberley Anselm	H9-02
Tina Blakley	X0-17
Mark A. Buckmaster	X9-07
Dru Butler	H0-19
Stacy Callison	X9-07
Richard Carlson	X0-17
Steven Clark	H9-01
Kelly Cook	X0-17
Franklin Corpus	L6-06
John Darby	L6-06
Steven Dieterle	L1-04
Lorna Dittmer	H9-02
Jack Donnelly	X0-17
Jonathan Fancher	X5-57
Ken Gano	H9-03
Jim Golden	L1-04
Charles Hedel	H0-23
Larry Hulstrom	H0-23
Kim Koegler	L1-07
Roger Landon	H9-03
Deena La Rue	H0-20
Jeffrey Lerch	H0-23
John Ludowise	X0-17
Larry Miller (Rex)	X3-40
Jennifer Ollero	H0-19
Roger Ovink	H9-01
Scott Parnell	X5-57
Mike Schwab	H0-23
Annie Smet	X0-17
Bradley Smith	L1-01
Dean Strom	X3-40
Jill Thomson	H0-23
Steve Weiss	H0-23
Donna Yasek	L1-07

ADMIN RECORD

Debbie Isom - (2 copies)	H6-08

Please forward distribution list changes to *Sharon Black* WCH (H0-19)

The attached April 13, 2006 UMM Meeting Minutes are comprised of the following:

Attachment 1 - April Agenda and Open Action Items

Attachment 2 - Attendance Sheet

Attachment 3 - 4/13/06 Meeting Minutes and New Action Items

Attachment 4 - Email Delegation of Authority by John Price (Ecology)

Attachment 5 - Groundwater Operable Unit Status (Ron Jackson)

Attachment 6 - 100-BC-5 and 100-FR-3 Groundwater Monitoring

Attachment 7 - Field Remediation - Engineering Closure Listing of Documents Due from RL,EPA, and /or Ecology as of 4/12/06

Attachment 8 - Dean Strom- Burial Grounds, Remaining Sites and RPAS Status Sheet and Map

Prepared by: Sharon Black 6/8/06

Sharon Black (H0-19) Date

Admin, WCH Regulatory Integration and Outreach

Concurrence by: _____ _____

Drusilla H. Butler (H0-19) Date

Director, WCH Regulatory Integration and Outreach

100 AREA / 300 AREA UNIT MANAGERS' MEETING

Groundwater/ Source Operable Units / Facility Demolition

April 13, 2006

ATTACHMENT 1

April Agenda and Open Action Items

The 300 Area portions of the UMM are cancelled per the request of Alicia Boyd of EPA.

Attachment 1

100 / 300 AREA UNIT MANAGER MEETING AGENDA

Groundwater / Source Operable Units / Facility Demolition

APRIL 13, 2006

Washington Closure Hanford (WCH), Hanford Square IV, Room 454 A&B

1:00 to 1:30 100 AREA GROUNDWATER

- ***Open Action Items***
  - ***Action:*** Bob Peterson (PNNL) and Ron Jackson (FH) to schedule meeting with Ecology to resolve question of what determines efficiency factor in Annual Report. Need to know what data used and how averaging into factor.
- ***100-KR-4***
- ***100-NR-2***
- ***100-HR-3***
- ***100-BC-5***
- ***100-FR-3***
- ***Action Items***

~~1:30 to 1:45~~ ~~300 AREA GROUNDWATER~~ *(300 Area portion cancelled)*

1:30 to 1:45 GROUNDWATER/SOURCE OU INTEGRATION

- ***Open Action Items***
  - ***Action:*** Mike Thompson (DOE) and Chris Smith (DOE) to look at wells in 100F area and where water being applied to determine if frequency of sampling needs changed. Will need maps from WCH.
- ***Issues/Discussion***
- ***Action Items***

1:45 to 2:30 FIELD REMEDIATION CLOSURE

- ***Open Action Items***
- ***100/ 300 Area Common*** *(300 Area portion cancelled)*
  - *100 Area Common Compliance with National Contingency Plan public involvement requirement for final design - John Price (Ecology)*

Background:
The National Contingency Plan at 40CFR300.435(c)(3) states the following:

After the completion of the final engineering design, the lead agency shall issue a fact sheet and provide, as appropriate, a public briefing prior to the initiation of the remedial action.

Larry Gadbois brought this to our attention vis-a-vis K Basins. He proposed to comply with by adding something to the TPA community relations plan that describes our plan to fulfill 435(c)(3) is to provide informative briefings to the Hanford Advisory Board as mutually agreed to by the Tri Parties and the HAB, and those briefings may include handouts containing remedial design information, and that the handouts may be in the form of fact sheets or other formats appropriate to communicate the information. Also, we will use the Hanford Update to provide public information to help fulfill 40CFR300.435(c)(3).

This would apply to 100 Area design as well, e.g., the burial ground design at 100-D.

- *Engineering Design and Closure*
  - *100-B/C*
  - *100-K*
    -118-K-1
  - *100-N*
  - *100-D*
  - *100-F/100-IU-2/6*
  - ~~*300 Area*~~ *(300 Area portion cancelled)*
    ~~*-618-10/11*~~
  - *Action Items*

2:30 to 3:00 END STATES AND FINAL CLOSURE PROJECT

- *Open Action Items*

  - ***Action:*** John Price(Ecology), Jeff Ayres(Ecology) and Beth Rochette(Ecology), to be invited to meeting for End States next week March 14, 2pm .WCH to present information on possible sources of chromium.

  - ***Action:*** WCH Remediation to develop list of examples of anomalies not entered into work instructions and discuss with Lorna Dittmer (WCH) End States. Lorna will check on sampling anomalies and how addressed in geophysical grid and if can turn into orphan sites.

- *100 B/C Pilot Risk Assessment*
- *100/300 Area Risk Assessment (300 Area portion cancelled)*
- *Columbia River Component*
- *D Area Orphan Sites*
- *Integrated Work Plan*
- *Action Items*

3:00 to 3:30 DEACTIVATION, DECOMMISION, DECONTAMINATION, DEMOLITON (D4)

- *Open Action Items*

  - ***Action:*** Alicia Boyd and Larry Gadbois (EPA) will detail expectations on SAPs regarding qualification for BHI internal references.

- *100 Area*
- ~~*300 Area*~~
- *Action Items*

3:30 to 4:00 SPECIAL TOPICS

NEXT MEETING: On May 11, 2006 WCH, Hanford Square IV, Room 454, A & B

100 AREA / 300 AREA UNIT MANAGERS' MEETING

Groundwater/ Source Operable Units / Facility Demolition

April 13, 2006

ATTACHMENT 2

Attendance Sheet

Attachment 2

100 AREA/ 300 AREA UNIT MANAGER MEETING

Groundwater / Source Operable Units / Facility Demolition

ATTENDANCE RECORD

April 13, 2006

Name	Org	O.U. Role	Phone	Signature
ANSELM, KIMBERLY A.	WCH	100	372-9363	
AYRES, JEFF	ECY	100 / 300 Tech support	372-7881	
BAZZELL, KEVIN D.	D0E-RL	100	373-0463	
BOND, RICK	ECY/DOE	300	372-7885	
BORGHESE, JANE V	FH	~~100/300~~ 100 Groundwater	373-3804	JVBorghese
BOYD, ALICIA	EPA	300	376-4919	
BUCKMASTER, MARK	WCH	100 Field Remediation Closure	521-2089	
BUTLER, DRU	WCH	100/300 Regulatory Integration	372-9956	
CALLISON, STACY W.	WCH	100 / 300	521-6515	
CARLSON, RICHARD A.	WCH	100 / 300	373-1440	
CHARBONEAU, BRIANT	DOE-RL	100 / 300	373-6137	
CLARK, CLIFFORD E (CLIFF)	DOE-RL	300 Regulatory Support	376-9333	
CLARK, STEVEN W.	WCH	100 / 300	372-9531	
COOK, KELLY E.	WCH	100 / 300	373-5275	
CORPUS, FRANKLIN M.	WCH	300	372-9979	
DARBY, JOHN W.	WCH	300 Area Task Lead	373-3008	
DIETERLE, STEVEN	WCH	300	372-9503	
DITTMER, LORNA M.	WCH	100 /300	372-9664	
DONNELLY, JACK W.	WCH	100 /300	373-9299	
FANCHER, JONATHAN (JON)	WCH	100	373-9556	
FAULK, DENNIS	EPA	100	376-8631	
FRUCHTER, JONATHAN	PNNL	100 / 300	376-3937	
GADBOIS, LARRY	EPA	100	376-9884	Larry Gadbois
GANO, KENNETH	WCH	100	372-9295	
GOLDEN, JAMES W.	WCH	100 / 300	521-0877	
GOSWAMI, DIB	ECOLOGY	100 Groundwater	372-7902	
GUERCIA, RUDOLPH (RUDY)	DOE-RL	300 D & D	376-5494	
HARTMAN, MARY	PNNL	100 Groundwater	373-0028	
HEDEL, CHARLES W.	WCH	100 / 300	372-2699	
HUCKABY, ALISA D.	ECY	100 Ecology	372-7909	
HULSTROM, LARRY	WCH	300	372-9291	
JACKSON, RONALD L.	FH	100 Goundwater	373-3599	
KOEGLER, KIM J.	WCH	300	373-4736	
LANDON, ROGER J.	WCH	100 / 300	372-9209	
LA RUE, DEENA N.	WCH	100 / 300 Report change control	375-9431	
LERCH, JEFFREY A.	WCH	100 / 300 ESFC	372-9206	

100 AREA/ 300 AREA UNIT MANAGER MEETING

Groundwater / Source Operable Units / Facility Demolition

ATTENDANCE RECORD

April 13, 2006

Name	Org	O.U. Role	Phone	Signature
LOBOS, ROD	EPA		376-3749	
LUDOWISE, JOHN D.	WCH	100 / 300	373-1045	
LUTTRELL, STUART P.	PNNL	100 Groundwater	376-6023	
MILLER, LARRY (REX)	WCH	100	373-5876	
NAYMIK, THOMAS G	PNNL	300 Groundwater	376-0916	
OLLERO, JENNIFER F	WCH	100 /300 Regulatory Integration	372-9620	
OVINK, ROGER W.	WCH	100 / 300 S & D M	375-9426	
PARNELL, SCOTT E.	WCH	300 Field Remediation	373-9975	
PETERSEN, SCOTT W.	DOE-RL	100	372-9126	
PETERSON, ROBERT E.	PNNL	100 / 300 Groundwater	373-9020	
PIIPPO, ROBERT E.	FH	300	373-3285	
PRESSENTIN, ROGER A.	DOE-RL	300	376-1291	
PRICE, JOHN P.	ECY/DOE	100 / 300	372-7921	
ROCHETTE, BETH	ECY	300 Tech support	372-7922	
SANDS, JOHN P.	DOE-RL	100	372-2282	
SCHWAB, MICHAEL R.	WCH	100	372-9407	
SMET, ANN K. (ANNIE)	WCH	100 / 300	373-9683	
SMITH, BRADLEY A.	WCH	300 324 / 327 D4	373-2723	
SMITH, DOUGLAS (CHRIS)	DOE-RL	100 / 300	372-1544	
SMITH-JACKSON, NOEL	ECY	100 / 300	372-7926	
STROM, DEAN	WCH	100 B/C	373-5519	
THOMPSON, K. (MIKE)	DOE-RL	100 / 300	373-0750	
THOMSON, JILL E.	WCH	100 / 300	372-9200	
TORTOSO, ARLENE C.	DOE-RL	100	373-9631	
VANNI, JEAN	ECY	100 Lead Regulatory Permits	372-7930	
WEISS, STEPHEN G.	WCH	100/300 Lead Tech Risk Assess	372-9495	
WESTOVER, KENT	DOE-RL	100	376-3967	
WINTERHALDER, JOHN A.	FH	100	372-8144	
YASEK, DONNA M.	WCH	100 / 300 D & D	372-9978	
ZEISLOFT, JAMIE	DOE-RL	100	372-0188	
CIMON, SHELLEY	OREGON	(541)	963 0853	
MILLIKIN, EMILY	WCH	Regulatory liaison	372-9205	
LILLIGREN, SANDRA	NPT	treaty obligations	208-843-7375 x2443	
SHEA, JACQUELINE	ECY	100	372 7925	

100 AREA / 300 AREA UNIT MANAGERS' MEETING

Groundwater/ Source Operable Units / Facility Demolition

April 13, 2006

ATTACHMENT 3

Meeting Minutes and New Action Items

100 AREA / 300 AREA UNIT MANAGERS' MEETING MINUTES

Groundwater / Source Operable Units / Facility Demolition

APRIL 13, 2006

ADMINISTRATIVE

- ***Next 100/300 Area Unit Manager's Meeting (UMM)***

  The next meeting will be held Thursday, May 11, 2006 at Washington Closure Hanford (WCH), Hanford Square IV, Conference Room 454, A&B

- ***300 Area portion of UMM cancelled***

  At the request of Alicia Boyd of the Environmental Protection Agency (EPA), the 300 Area portions of the UMM were cancelled for this meeting.

- ***Delegation of Authority***

  For the purpose of this meeting John Price (Ecology) delegated his authority under the Tri-Party Agreement (TAP) to Noel Smith-Jackson (Ecology) -- See delegation ***Attachment 4***.

DEPARTMENT OF ENERGY (DOE) GRANT PROPOSAL

Mike Thompson, Department of Energy, Richland (DOE-RL) provided a status on the $10 million grant proposal. The proposal underwent a peer review by DOE Headquarters (HQ) staff in Salt Lake City. All reviewers provided an endorsement of the project with some comments. The proposal must now be revised into a statement of work, after which it will be sent back to DOE HQ for approval to spend the money. Mike Thompson will return to HQ on 4/24/06 to get final approval on the proposal.

100 AREA GROUNDWATER

- ***Open Action Items***

  - ***Action:*** Bob Peterson, Pacific Northwest National Laboratory (PNNL) and Ron Jackson, Fluor Hanford (FH) to schedule meeting with Ecology to resolve question of what determines efficiency factor in Annual Report. Need to know what data was used and how the averaging was conducted.
    Status: Open, meeting is being rescheduled.

- ***100-NR-2*** -- Status provided in ***Attachment 5***.

  Vern Johnson (FH) reported that the pump and treat was placed in "cold standby" on March 9, 2006.

- ***Ecological Impact Assessment*** The report has been delayed, the target date is still April 28, 2006 for completion. John Price (Ecology) has requested notification if the date is pushed back, as he has staff designated to start the review process on May 1st.

- ***Apatite Treatability Testing Status*** Rev. 0 of the Treatability Test Plan is presently being reviewed by the DOE.

FH stated that the water levels need to be higher to conduct the test. They expect that the water flows next week will reach 170,000 cubic feet per second (cfs), which would be adequate for the bromide tracer test.

Dib Goswami (Ecology) requested a site tour of 100 N around May 17th for the Tribal Nations to observe the injection wells -- See ***New Action Items***.

- ***100-KR-4*** -- Status provided in ***Attachment 5***.

Ron Jackson (FH) reported that one well has been down since March 11, 2006. Larry Gadbois (EPA) requested FH give this priority to investigate and solve problem.

See Map on page 2 of Attachment ***5*** for location of the new wells. Working with WCH and need to make decision if when the K Basins are removed will the wells need to be removed also. There are also hot waste containers stored in this area and CERCLA issues. K-137 well was moved due to some of these factors.

- ***100-HR-3*** -- Status provided in ***Attachment 5***

Ron Jackson reported that they are currently revising their database so mass removal and concentration data is not available for this meeting. Goal at H well is aggressive cleanup of the chromium plume in the 100-H Area. Two wells are near 20 ppb and goal is to get below 20 ppb. RL requested follow up meetings with Agencies to discuss 100-H groundwater cleanup and strategy to shut down the H extraction wells.

John Price read the following statement into the minutes on Ecology's position:

"Cleanup of chromium in the vicinity of 100-H reactor is progressing well. In the vicinity of the reactor only wells H4-12A, H4-15A, and H4-64 remain above the Remedial Action Objectives (RAOs) and trending downward. Chromium concentrations in these wells are expected to reach below 22PPB in May-June 2006 -- See ***Attachment 5***. *Future meetings with agencies need to be arranged to discuss operations and maintenance (O&M) options for the reactor area. Ecology is expecting to see action items for the "Horn" in the 5 year ROD review."*

- ***ISRM*** -- Status provided in ***Attachment 5***

- ***D Area Plume definition*** -- Status provided in ***Attachment 5***

Mike Thompson (DOE-RL) commented on D area portion of the EM-21 proposal. He stated that the 100-D area proposals for iron amendment and electro coagulation

should get approved. More information is required for the CPS and chromium source delineation before they will be approved.

- ***182-D Reservoir***

  John Price (Ecology) requested status on the 182-D Reservoir. He posed the question that if they cannot repair the leakage can they seal the leak so that it does not contaminate the reservoir. Two options to explore 1) spraying on a coating to contain leakage and 2) replacing the storage capacity which is very expensive. North Wind is investigating and will give their recommendations. This is an action item in the 5 year ROD review -- See ***New Action Items***.

- ***100-BC-5*** -- Status provided in ***Attachment 6***.

  One well in 100-B had an increase in tritium concentrations to a level greater than the drinking water standard. There was a dramatic increase in another well last year but with no apparent explanation. PNNL is continuing to monitor the wells.

- ***100-FR-3*** -- Status provided in ***Attachment 6***.

  Well F8-3 had a spike in gross beta last fall. Well was resampled in February and beta was back down. No explanation for the spike.

300 AREA GROUNDWATER *This portion of meeting cancelled at EPA request*

- ***Open Action Items***
- ***Project Specific Items***

GROUNDWATER/SOURCE OPERABLE UNIT (OU) INTEGRATION

- ***Open Action Items***

  - ***Action:*** Mike Thompson (DOE) and Chris Smith (DOE) to look at wells in 100F area and where water being applied to determine if frequency of sampling needs changed. Will need maps from WCH.
    Status: Action was not addressed before Mike Thompson left meeting. Add to next agenda.

- ***Issues/Discussion***

  - ***K Basins*** Groundwater conditions not leaking to ground. Issue with potential removal of wells at K East and West coming up. This is a removal of 2 key wells. There is a high tritium level at K West near K106 Reactor building.

    It was mentioned by Vern Johnson (FH) that the groundwater database shows an error and that it is 20 to 30,000 gallons per minute (gpm) not the hundreds of thousands showing on database.

    It was noted that the groundwater polysulfide test have caused some other elements to elevate above the drinking water acceptable levels, i.e. nitrate.

K-1111 put on monthly sampling for excavation work.

- ***300 Area Groundwater***

  Limited Field Investigation (LFI) boreholes work ongoing. The first has been drilled and the second borehole is nearing completion and will be available for testing. Chris Wright is the contact for large diameter drilling.

  Larry Gadbois (EPA) questioned if boreholes could be used to look at chrome levels in deep vadose zone. Presently use signs of discolored soils. Would like to know how high a level of inventory of chromium they are looking at ultimately remediating. It was explained that PNNL has done a study that shows drilled boreholes are not a good reference for this because the break up of rock with iron particles destroys the groundwater chemistry for an accurate assessment. A push type technique is better for this type survey and avoids disturbing contamination around the wells.

FIELD REMEDIATION CLOSURE

- ***Open Action Items***
  None

- ***100/300 Area Common*** *300 Area portions of meeting cancelled at EPA request*

  - ***100 Area Common Compliance with National Contingency Plan Public Involvement Requirement for Final Design***

    John Price (Ecology) provided the background given below.

    "The National Contingency Plan (NCP) at 40CFR300.435(c)(3) states the following: After the completion of the final engineering design, the lead agency shall issue a fact sheet and provide, as appropriate, a public briefing prior to the initiation of the remedial action.

    Larry Gadbois (EPA) brought this to our attention vis-à-vis K Basins. He proposed to comply with by adding something to the TPA community relations plan that describes our plan to fulfill 435(c)(3) is to provide informative briefings to the Hanford Advisory Board (HAB) as mutually agreed to by the Tri-Parties and the HAB, and those briefings may include handouts containing remedial design information, and that the handouts may be in the form of fact sheets or other formats appropriate to communicate the information. Also, we will use the Hanford Update to provide public information to help fulfill 40CFR300.435(c)(3). This would apply to 100 Area design as well, e.g., the burial ground design at 100-D."

    John Price (Ecology) stated their recommendation to utilize the "Community Relations Plan" portion of TPA to fulfill this requirement. This allows continuing to provide information to public through the HAB meetings, public meetings and briefings. The justification being that a proposed plan is conceptual and the remedial action is when would need an actual work plan. The NCP requires the public to be

informed and they are informed by these means. John Price will follow up and advise the RPI subcontractor on this issue.

- ***Engineering Design and Closure***

  - ***Engineering Design*** -- Status provided in ***Attachment 7.***

    Currently working on a supplemental design for 100-Dand the burial ground/RTD remaining sites design for 100H.

  - ***Engineering Closure*** Lorna Dittmer (WCH) reported -- Status provided in ***Attachment 7.***
    Sampling in the 300 Area found un-enriched uranium oxide at 300-7. Sampling of the septic tank for the 331 LSL drainfield site is planned. A phased sampling approach will be utilized, as the site is a sensitive area near the river. The sampling of the 331 trenches will be delayed until the 331 building is scheduled for decontamination and decommissioning (D&D) as the sampling would be very close to an occupied PNNL building.

- ***100-B/C***--Dean Strom (WCH) reported

  - ***100-B/C Burial Grounds***—Status provided in ***Attachment 8***

    100-B-1 Hot spots done; need to generate a sample design. Need to meet with Chris Smith (DOE) and Dennis Faulk (EPA).

    118-B-6 Backfill concurrence signed by WCH and DOE and submitted to EPA for signature.

  - ***Remaining Sites***—Status provided in ***Attachment 8***

  - ***Remaining Sites, Pipelines and Sewers (RPAS)*** -- Status provided in ***Attachment 8.***

    100-B-14 Excavation completed 4/13/06.

- ***100-K***

- ***118-K-1***

  Readiness Review delayed due to required revisions to the Documented Safety Analysis that includes a modified approach to ensure criticality safety. DOE is the approval authority for the Readiness Review and must authorize startup. Six silos that contain high radiation material based on preliminary characterization data are excluded from the scope of the Readiness Review and will be the subject of a separate focused readiness review. The preliminary data indicate that the silos may contain a cobalt source producing 5 rad/hr. Impacts to project schedule will be determined after the path forward for the silos, which may require different controls and possibly a different crew of workers is determined. Larry Gadbois (EPA) stated that current update shows K Basins accepting fuel to year 2007. WCH needs a potential larger window to complete project.

- ***100-N***

  116-N-1 Backfill Status: WCH received backfill concurrence from Ecology and have started backfilling. The close out verification package (CVP) is being revised to incorporate comments received during backfill concurrence.

- ***100-D*** -- Status provided in ***Attachment*** *7.*

  100-D remediation is still in the proposal stages. Jill Thomson (WCH) and Lorna Dittmer (WCH) have prepared a resolution to Ecology comments for disposition of two Allowable Residual Contamination Level (ARCL) sites. Responses to comments were sent to Ecology in response packages. WCH will follow up with electronic copies so Ecology can reply if necessary.

- ***100-F***

  Some hot spots were found in the100-F-20 digging debris. The Environmental Restoration Disposal Facility (ERDF) needs to be ready to accept animal trench contents.

- ***100-IU-2/6***

  An unexploded ordinance screening survey was performed and draft report prepared by a munitions expert with path forward recommendations for the 600-149 site. The report has not yet been reviewed.

- ***300 Area*** *This portion of meeting was cancelled per EPA request*

  - ***Open Action Items*** - No actions pending.

END STATES AND FINAL CLOSURE PROJECT

- ***Open Action Items***

  - ***Action:*** John Price(Ecology), and Jacqueline Shea (Ecology), to be invited to meeting for status of the 100-D Orphan Sites Evaluation on March 14,at 2 pm. WCH to present information on possible sources of chromium.
    Status: Jeff Lerch (WCH) said the meeting was held - action closed.

- ***100 B/C Pilot Risk Assessment***—Nothing to Report

- ***Columbia River Component***

  Draft data evaluation and scoping report is scheduled to be submitted to RL the first of May.

  Boundary discussion with the Agencies will occur in early May. John Price (Ecology) and Larry Gadbois (EPA) want this action taken.

Database information is expected to be ready to be made available to EPA for integration purposes as soon as possible. WCH will contact EPA to discuss the best logistical arrangements for sharing the data.

- ***100/300 Area RCBRA Component***

  Sampling: Collecting invertebrates and mice, groundwater samples, and Multi Increment Samples (MIS).

  Sampling Analysis Plan (SAP): Comment by DOE on Appendix B resolved, waiting for Ecology comments. John Price Ecology will provide feedback by the following week. Fall sampling data summary is being drafted, and the multi incremental sampling performance assessment is with the Tri-Parties. Letter report should be available by late May.

  100/300 Area Risk Assessment: Existing data compilation for the 100/300 Area risk assessment beginning.

- **Interim Areas**

  The approach for the 100/300 Area assessment sampling will be applied to the areas between reactor/industrial areas ("interim areas") for the shoreline assessment
  The process will include a Data Quality Objective (DQO) to select sampling locations, an SAP, and commencement of sampling this fall.

- ***D Area Orphan Sites***

  The historical review subtask is completed and field walk down activities are underway. Jeff Lerch (WCH) indicated that Ecology could schedule a day to participate in the walk down if still interested.

- ***Integrated Work Plan***

  Comments from the WCH internal review of the *Integrated Strategy for Achieving Final Cleanup Decisions in the River Corridor* are being addressed. Reviews by RL and the other site contractors -Fluor Hanford (FH) and Pacific Northwest National Lab (PNNL)- are scheduled to begin in mid-May.

DEACTIVATION, DECOMMISSION, DECONTAMINATION, DEMOLITION (D4)

- ***Open Action Items***

  - ***Action*** Alicia Boyd and Larry Gadbois (EPA) will detail expectations on sampling analysis plans regarding qualification for Bechtel Hanford Inc.(BHI) internal references.
    Status No report made at this meeting on this action. Add to next UMM actions.

- ***100 Area*** No status reported.

- ***300 Area*** *This portion of meeting cancelled at EPA request*

SPECIAL TOPICS

None

NEW ACTION ITEMS

- (100-N Groundwater) ***Bob Peterson (PNNL)*** and ***Ron Jackson (FH)*** to schedule meeting with Ecology to resolve question of what determines efficiency factor in Annual Report. Need to know what data used and how averaging into factor *Action item from 3/9/06 UMM.*

- (100-N Groundwater) ***Jane Borghese (FH)*** to notify ***Dib Goswami (Ecology)*** when well injections scheduled to take place so that can arrange a tour for tribal nations to observe procedure.

- (100-D Groundwater) ***Jane Borghese (FH)*** to investigate status on leak at the 182-D Reservoir and learn if there is a way the leak can be sealed so it does not contaminate the reservoir.

- (Groundwater/ Source OU Integration) ***Mike Thompson (DOE) and Chris Smith (DOE)*** to look at wells in 100F area and where water being applied to determine if frequency of sampling needs changed. Will need maps from WCH. *Action item from 3/9/06 UMM*

- (D4) ***Alicia Boyd (EPA)*** and ***Larry Gadbois (EPA)*** will detail expectations on sampling analysis plans (SAPs) regarding qualification for Bechtel Hanford Inc (BHI) internal references. *Action item from 3/9/06 UMM.*

100 AREA / 300 AREA UNIT MANAGERS' MEETING

Groundwater/ Source Operable Units / Facility Demolition

April 13, 2006

ATTACHMENT 4

Email Delegation of Authority by John Price (Ecology)

Attachment 4

Black, Sharon P

From: Price, John [Jpri461@ECY.WA.GOV]
Sent: Wednesday, April 12, 2006 8:07 AM
To: Bazzell, Kevin D; Boyd,Alicia; Charboneau, Briant L; Faulk, Dennis; Gadbois, Larry; Sands, John P; Thompson, K M (Mike); Tortoso, Arlene C
Cc: Black, Sharon P; Schwab, Michael R; Shea, Jacqueline; Thomson, Jill E; Smet, Ann K (Annie); Smith, Bradley A; Smith, Douglas C (Chris); Smith-Jackson, Noe'l; Strom, Dean N; Fruchter, Jonathan S; Kemp, Christopher J (DOH); Gano, Kenneth A (Ken); Golden, James W; Goswami, Dib (ECY); Guercia, Rudolph F (Rudy); Hartman, Mary J; Hedel, Charles W; Huckaby, Alisa; Hulstrom, Larry C; Jackson, Ronald L; Koegler, Kim J; Landon, Roger J; LaRue, Deena N; Lerch, Jeffrey A; Ludowise, John D; Luttrell, Stuart P; Miller, Larry R (Rex); Naymik, Thomas G (PNNL); Ollero, Jennifer F; Ovink, Roger W; Parnell, Scott E; Petersen, Scott W; Peterson, Robert E; Piippo, Robert E; Pressentin, Roger A; Rochette, Beth; Anselm, Kimberly A; Ayres, Jeff; Bond, Rick (ECY); Vanni, Jean; Weiss, Stephen G; Westover, Kent R; Winterhalder, John A; Yasek, Donna M; Zeisloft, Jamie; Borghese, Jane V; Buckmaster, Mark A; Butler, Dru H; Callison, Stacey W; Carlson, Richard A; Clark, Clifford E (Cliff); Clark, Steven W; Cook, Kelly E; Corpuz, Franklin M; Darby, John W (300 Area TL); Dieterle, Steven E; Dittmer, Lorna M; Donnelly, Jack W; Fancher, Jonathan D (Jon)
Subject: Delegation for: 100/300Area Combined UMM Meeting

I will be absent from the 100/300 Unit Manager Meeting on April 13. For the period of the meeting, Noe'l Smith-Jackson is delegated my TPA Project Manager authority in accordance with Section 4.1 of the Action Plan. She has the necessary qualifications and experience to carry out those responsibilities.

From: Black, Sharon P [mailto:sharon.black@wch-rcc.com]
Sent: Monday, March 06, 2006 2:41 PM
To: Black, Sharon P; Kemp, Christopher J (DOH); Anselm, Kimberly A; Ayres, Jeff; Bazzell, Kevin D; Bond, Rick (ECY); Borghese, Jane V; Boyd,Alicia; Buckmaster, Mark A; Butler, Dru H; Callison, Stacey W; Carlson, Richard A; Charboneau, Briant L; Clark, Clifford E (Cliff); Clark, Steven W; Cook, Kelly E; Corpuz, Franklin M; Darby, John W (300 Area TL); Dieterle, Steven E; Dittmer, Lorna M; Donnelly, Jack W; Fancher, Jonathan D (Jon); Faulk, Dennis; Fruchter, Jonathan S; Gadbois, Larry; Gano, Kenneth A (Ken); Golden, James W; Goswami, Dib (ECY); Guercia, Rudolph F (Rudy); Hartman, Mary J; Hedel, Charles W; Huckaby, Alisa; Hulstrom, Larry C; Jackson, Ronald L; Koegler, Kim J; Landon, Roger J; LaRue, Deena N; Lerch, Jeffrey A; Ludowise, John D; Luttrell, Stuart P; Miller, Larry R (Rex); Naymik, Thomas G (PNNL); Ollero, Jennifer F; Ovink, Roger W; Parnell, Scott E; Petersen, Scott W; Peterson, Robert E; Piippo, Robert E; Pressentin, Roger A; Price, John; Rochette, Beth; Sands, John P; Schwab, Michael R; Shea, Jacqueline; Smet, Ann K (Annie); Smith, Bradley A; Smith, Douglas C (Chris); Smith-Jackson, Noe'l; Strom, Dean N; Thompson, K M (Mike); Thomson, Jill E; Tortoso, Arlene C; Vanni, Jean; Weiss, Stephen G; Westover, Kent R; Winterhalder, John A; Yasek, Donna M; Zeisloft, Jamie
Subject: 100/300Area Combined UMM Meeting
When: Thursday, April 13, 2006 1:00 PM-4:30 PM (GMT-08:00) Pacific Time (US & Canada); Tijuana.
Where: Hanford Square IV, Room 454 A&B

To all -

I apolgize, my Outlook had a problem in the distribution list and I had to cancel and redo the UMM meeting appointment to update your
Outlook calendars to the new timing.

Sharon

COMBINED 100 / 300 Areas Unit Manager

Meetings:

The combined 300/Groundwater/100 UMM will be held on

2nd Thursday of every month
at Washington Closure Hanford
Hanford Square IV
Conference Room 454

from 1:00 to 4:30pm.

Thank you!
Sharon Black
Administrative Assistant
Regulatory Integration and Outreach
372-9543

100 AREA / 300 AREA UNIT MANAGERS' MEETING

Groundwater/ Source Operable Units / Facility Demolition

April 13, 2006

ATTACHMENT 5

Ron Jackson - Groundwater Operable Unit Status

Attachment 5

100 UMM
Groundwater Operable Unit Status
April 13, 2006

100-NR-2 Groundwater OU - Russ Fabre

- Remediation Treatment Status
  - The pump and treat system was placed in cold standby on March 9, 2006.
  - Followup activities include replacement of extraction pumps with sampling pumps and completion of procedures (e.g. maintenance) to be followed during standby.

- Ecological Impact Assessment
  - Work continued on completion of Draft A.
  - Still planning for release of revised document by end of April.

- Apatite Treatability Testing Status
  - Revised treatability test plan (Rev 0) was released.
  - Installation of all wells for the 300-ft apatite PRB completed (10 injection and 2 additional monitoring wells).
  - Waiting for higher river stage to complete development of injection and pilot test wells.
  - Preparations for bromide test nearing completion. Pilot testing most likely to begin during last week of April.

100-KR-4 Groundwater OU - Ron Jackson

- Remediation Treatment Status
  - For the period of February 27-April 2, 2006:
    - Pump-and-treat system operated normally.
    - Total average flow through the system was approximately 272 gpm. Well 199-K-125A has been down for about 22 days due since March 11, 2006 waiting for pump to be replaced.
    - Average influent hexavalent chromium concentration was 0.054 mg/L.

- Calcium Polysulfide Treatability Test Status
  - DOE/RL-2006-17, Rev. 0, *Treatability Test Report for Calcium Polysulfide in the 100-K Area,* was released on March 8. Hexavalent chromium continues to remain below the RAOs of 0.022 mg/L at the 100-KR-4 treatability test site.

- KW Groundwater Remediation
  - EPA approved construction of a pump and treat system at 100-K West Reactor Area under the existing record of Decision, EPA to RL letter dated April 4, 2006.
  - The design of the pump and treat is approximately 80 per cent complete.
  - Drilling of the injection and extraction wells are planned in May 2006 (See Attachment 1).
  - Construction of the facility is planned to start in August 2006 with startup in December 2006.

100-HR-3 Groundwater OU - Ron Jackson

- Remediation Treatment Status
  - For the period February 27-April 2, 2006:
    - Pump and treat system operated normally.
    - Data supporting the Project Specific Data Base for this reporting period is not available owing to process data collection upgrades.

- Overall cleanup of chromium in 100-H is progressing well. Only wells H4-12A, H4-15A, and H4-64 remain above the RAOs and trending downward. Expecting chromium concentrations in the wells to reach below 22 ppb in May-June 2006. (See Attachments). Future meetings with Agencies needs to be arranged to discuss shut down options for the 100-H Area treatment system.

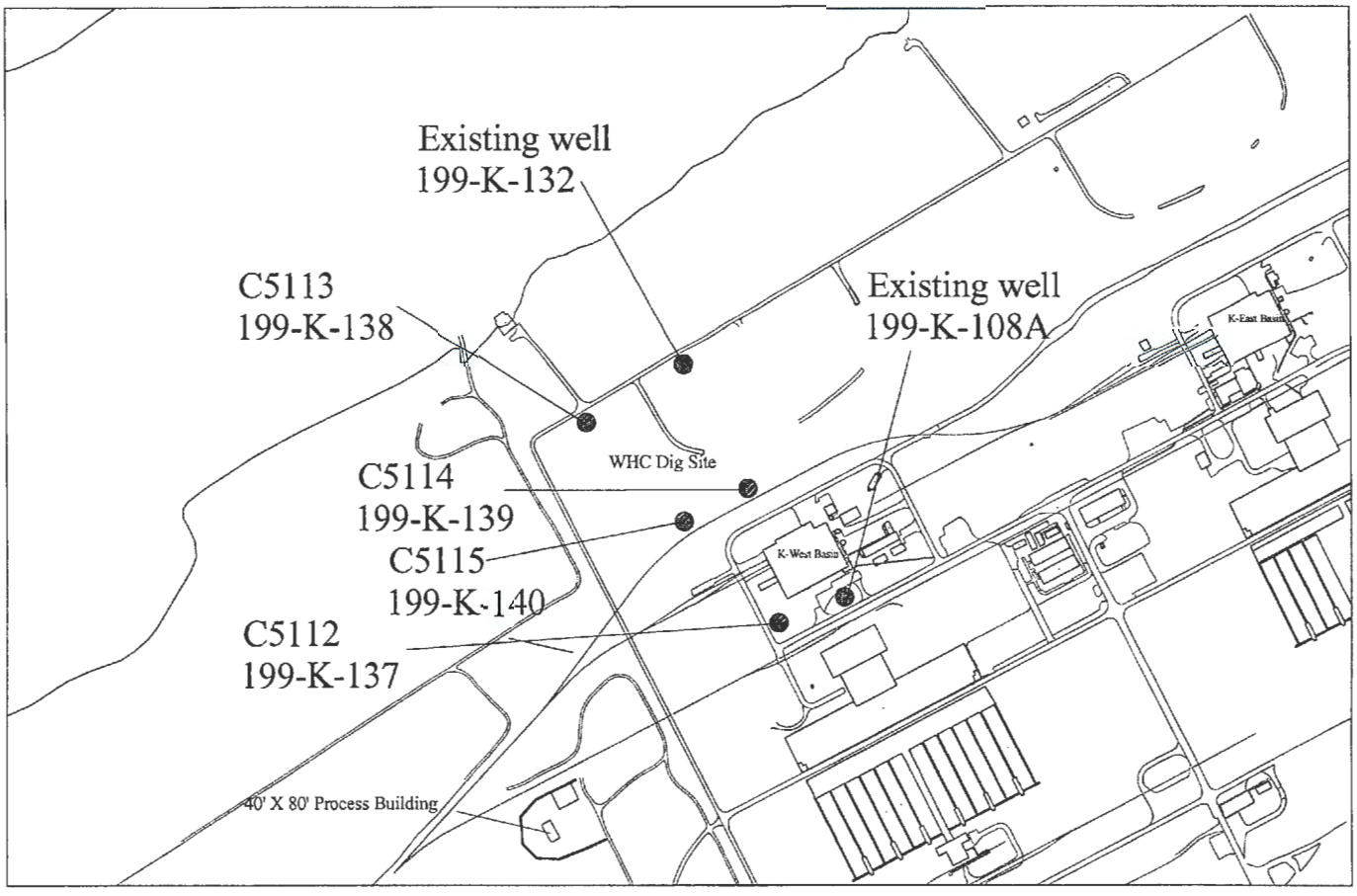
- DR-5 Treatment Status
  - For the period February 27-March 30, 2006:
    - System operated at about 95 percent.
    - Total average flow was approximately 43 gpm.
    - The average influent hexavalent chromium concentration was 0.786 mg/L.

- Summary of ISRM Status
  - Collected and analyzed samples from 25 ISRM barrier wells in March, 2006. No significant changes.

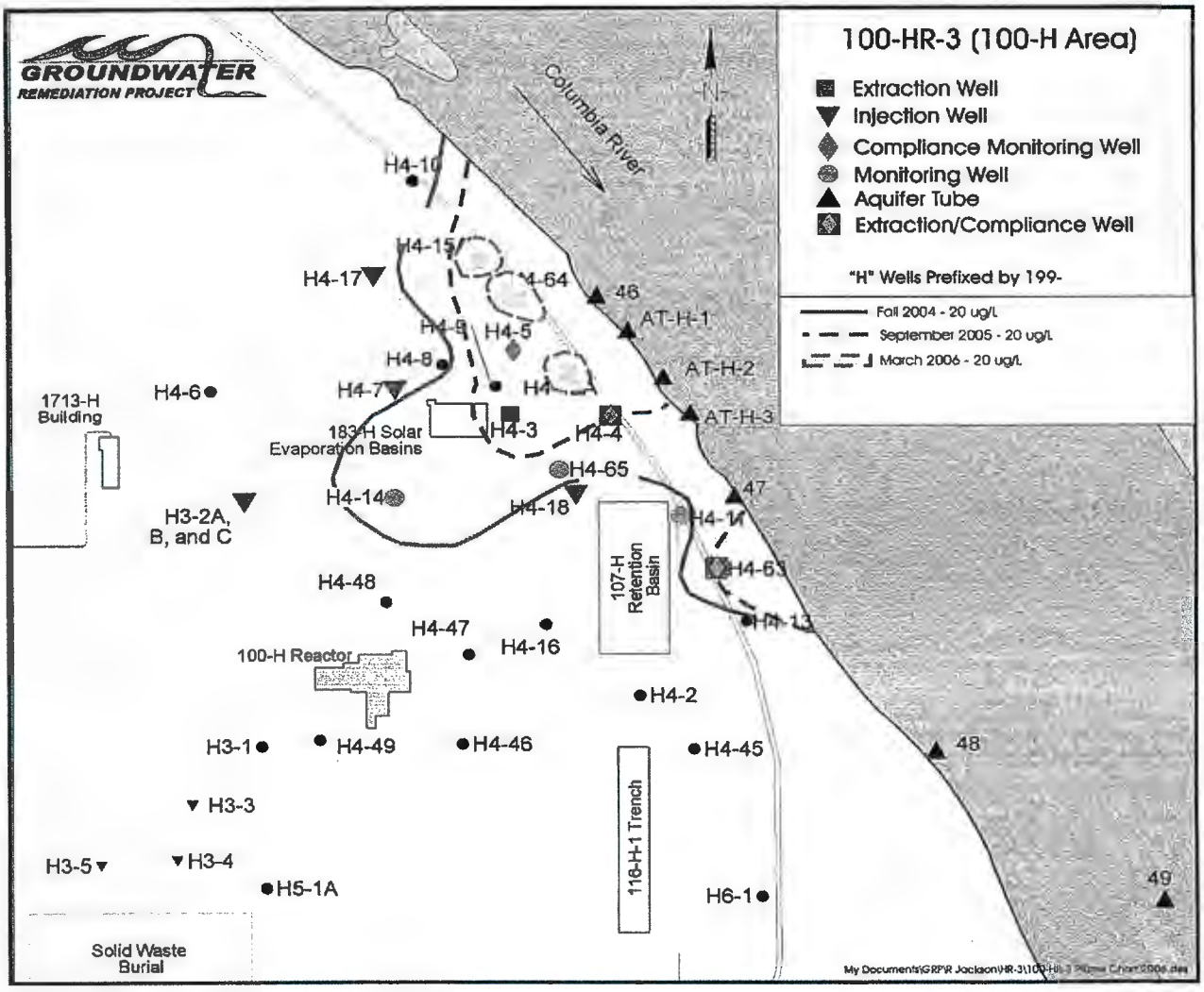
- D Area Groundwater Plume Definition
  - Three wells are planned in FY06 to be drilled in the vicinity of the 190-DR clear wells to help define the up-gradient portion of the chromium groundwater plume. Meetings have been held between RL, Ecology, and WCH to coordinate the drilling schedule (and location) to the WCH's excavation schedule. These wells will be identified on the draft M-24 list. (No change)

100 UMM
Groundwater Operable Unit Status
April 13, 2006

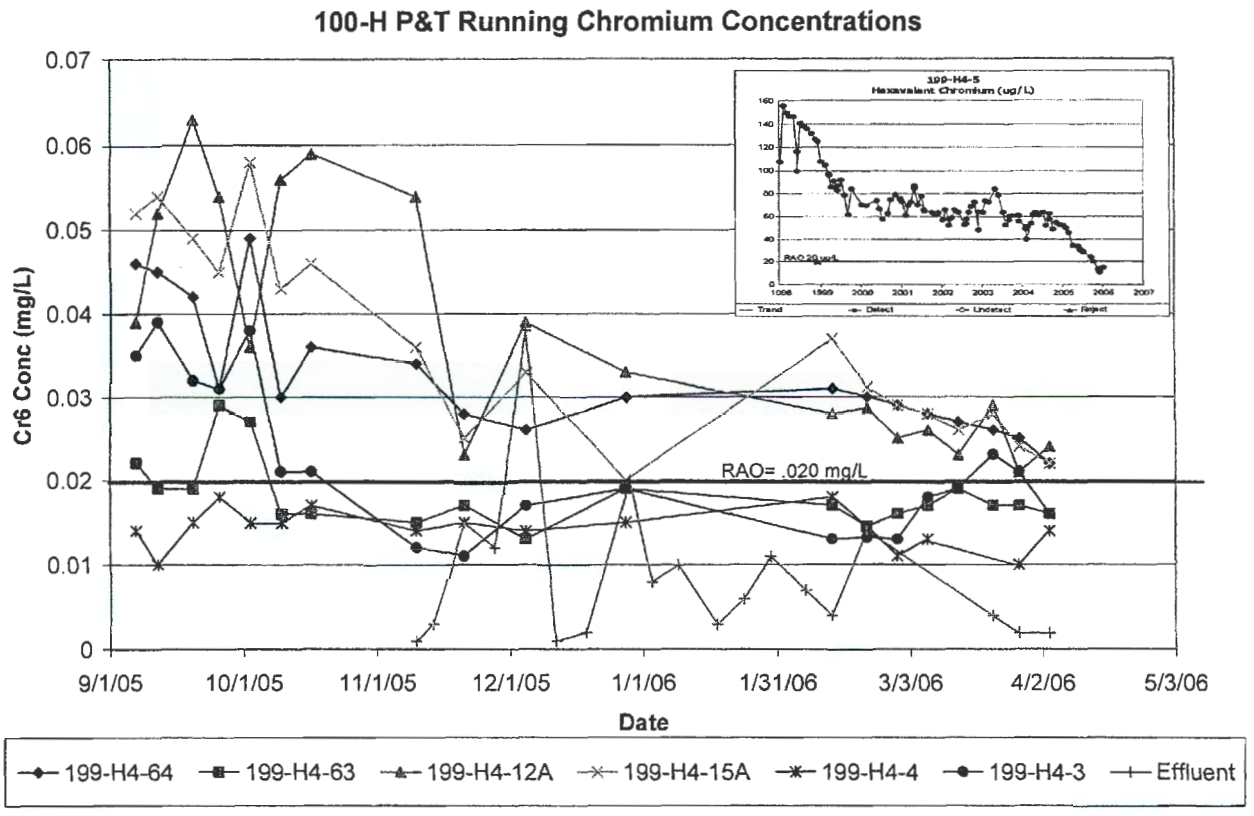
Attachment 1 - Location of Wells to be Drilled for the New KW Pump and Treat.



Attachment 2 – 100-H Chromium Plume Map (Draft)



Attachment 3 – 100-H Chromium Trend Plots
(Draft)



100 AREA / 300 AREA UNIT MANAGERS' MEETING

Groundwater/ Source Operable Units / Facility Demolition

April 13, 2006

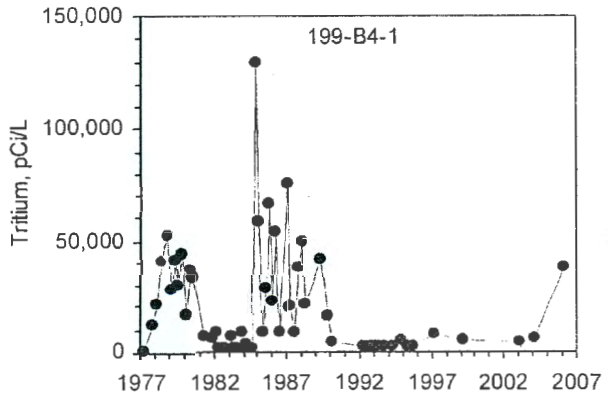
ATTACHMENT 6

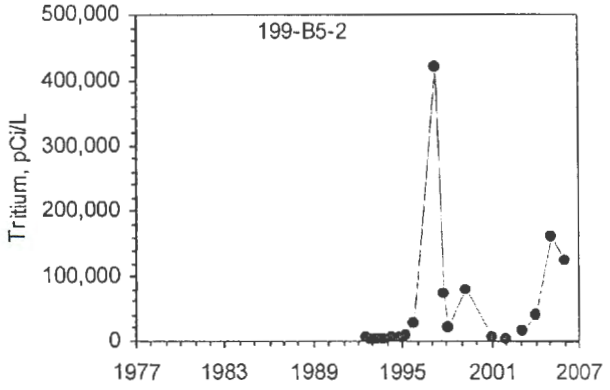
100-BC-5 and 100-FR-3 Groundwater Monitoring

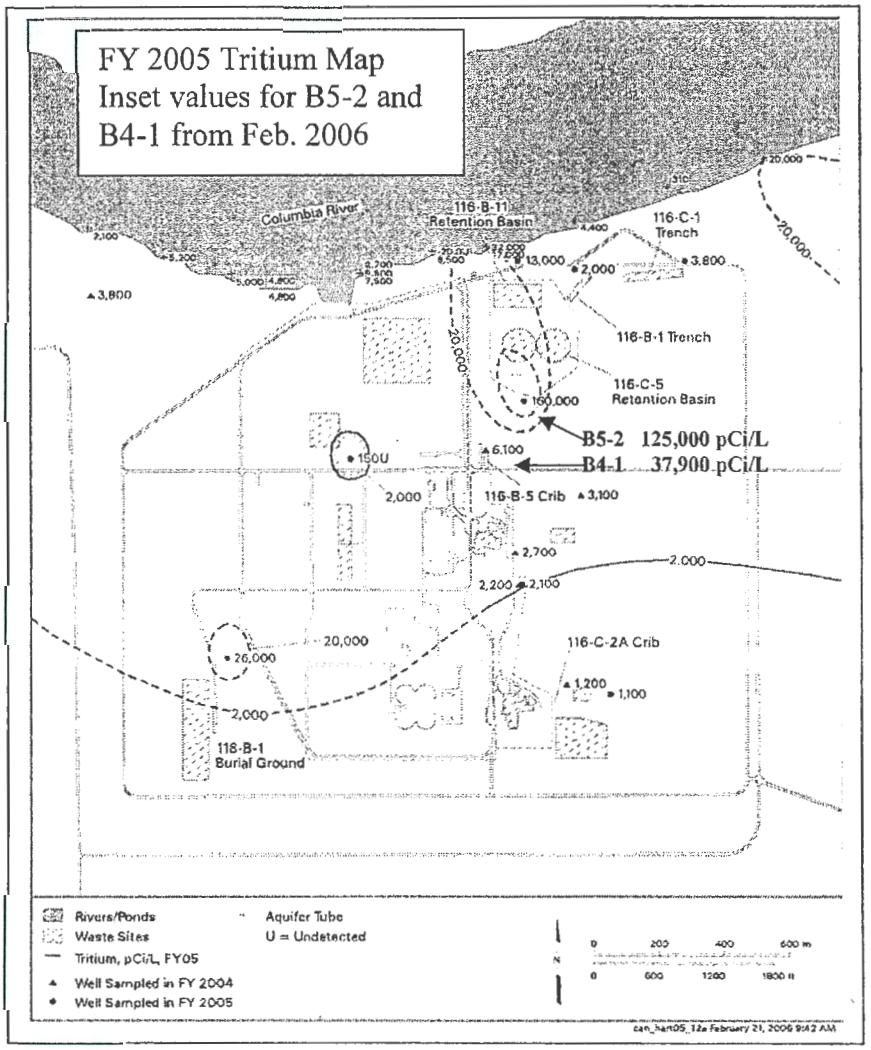
Attachment 6

100-BC-5 Groundwater Monitoring
April 2006 Unit Manager's Meeting

Tritium concentration increased sharply to 37,900 pCi/L in well 199-B4-1 in February 2006, exceeding the drinking water standard for the first time since 1989. Well 199-B5-2 showed a larger increase in 2004 and 2005 and the value decreased slightly in February 2006.

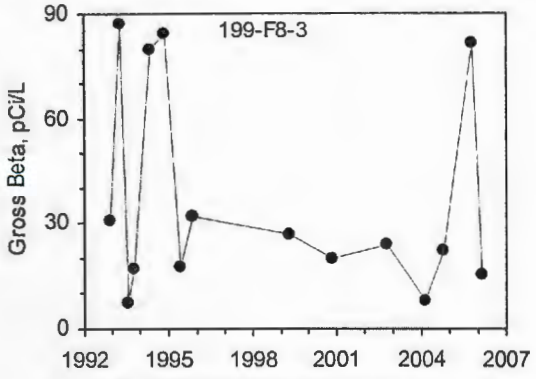


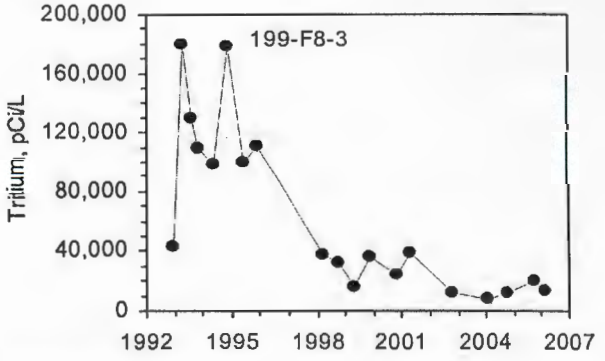


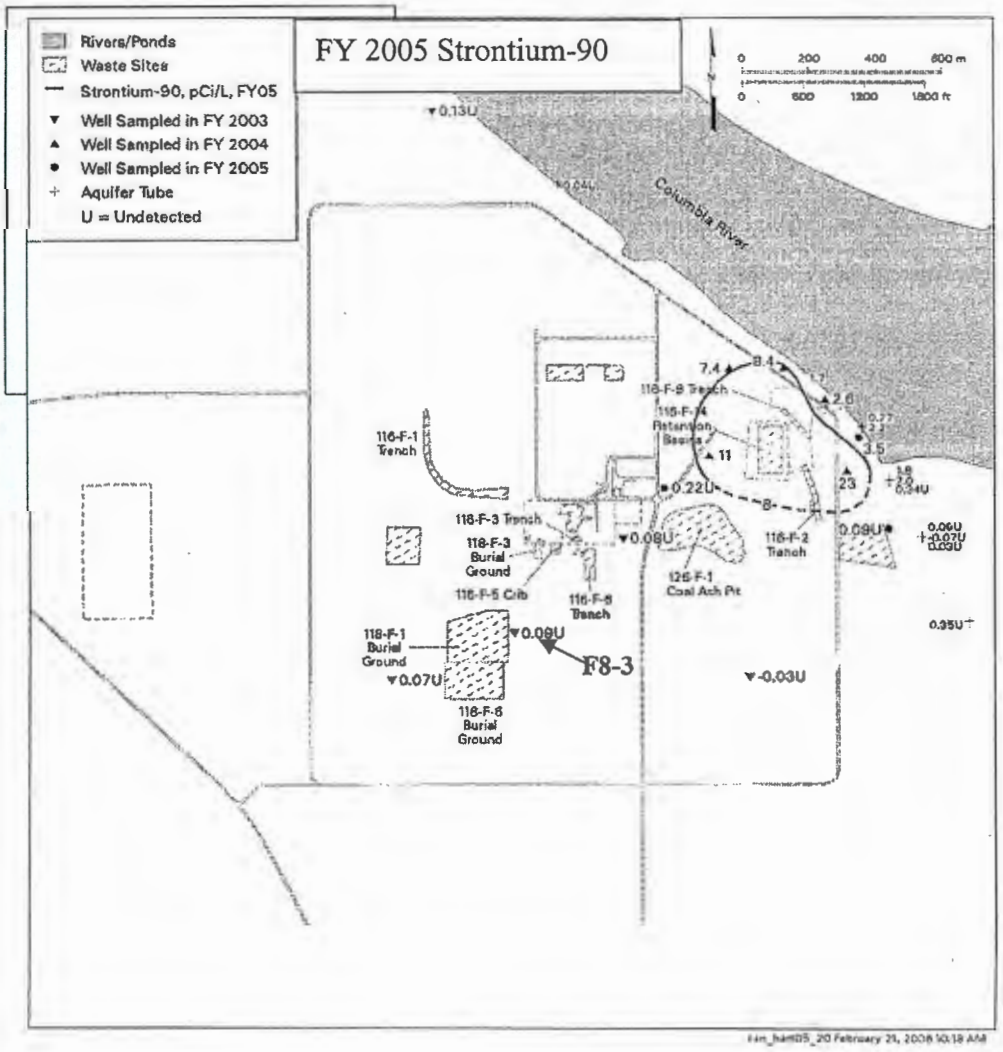


100-FR-3 Groundwater Monitoring
April 2006 Unit Manager's Meeting

As discussed in a prior meeting, gross beta activity increased to 81.2 pCi/L in October 2005 in well 199-F8-3. That sample was not analyzed for strontium-90 (the only significant, known beta-emitter in the 100-F Area) or technetium-99. The well was re-sampled in February 2006 and analyzed for gross beta, strontium-90, technetium-99, tritium, and gamma emitters. Gross beta was back down to 15.4 pCi/L in February. Tritium continued its previous trend. Strontium-90, technetium-99, and gamma-emitters were undetected. The cause of the gross beta spike, and similar spikes in the early 1990s, remain unexplained.







100 AREA / 300 AREA UNIT MANAGERS' MEETING

Groundwater/ Source Operable Units / Facility Demolition

April 13, 2006

ATTACHMENT 7

Field Remediation - Engineering Closure Listing of
Documents Due from RL, EPA, and /or Ecology as of 4/12/06

Sharon - please include with 4/13 UMM minutes for Field Remediation Engineering Closure

Documents Due from RL, EPA, and/or Ecology
as of 4/12/06

4/13/06 100/300UMM

Attachment 7

100-B/C Area:

- 128-B-3 Beach VWI, delivered 3/2, RL signed 3/7, need EPA
- 100-B-1 RSVP, delivered 2/22, RL signed (data unknown), need EPA
- 331-LSLT1 and -LSLT2 WI, delivered 3/28, RL signed 4/3, need EPA

100-D Area:

- 100-D-24 RSVP, delivered 3/16, RL signed 3/30, need Ecology
- 132-D-2 RSVP, delivered 10/2005, revised delivered 2/9, need to resolve eco risk screening question with Ecology
- 132-D-3 RSVP, delivered 10/2005, revised delivered 2/9, need to resolve eco risk screening question with Ecology

100-F Area:

- 100-F-36/116-F-15 VWI, delivered 3/23, need comments or sigs from RL and EPA

100-H Area:

- 1607-H1 WI, revised delivered 3/23, need comments or sigs from RL and Ecology
- 1607-H3 WI, revised delivered 3/23, need comments or sigs from RL and Ecology
- 128-H-2 WI, received Ecology comments 3/27, need RL comments, if any
- 128-H-3 WI, received Ecology comments 3/27, need RL comments, if any
- 100-H-28:1 RSVP, received Ecology comments 4/5, need RL comments, if any
- 100-H-28:2 WI, delivered 3/23, need comments or sigs from RL and Ecology
- 100-H-28:3 WI, delivered 3/23, need comments or sigs from RL and Ecology
- 100-H-28:4 WI, delivered 4/4, need comments or sigs from RL and Ecology
- 100-H-28:7 RSVP, delivered 4/5, need comments or sigs from RL and Ecology
- 100-H-28:8 RSVP, delivered 4/5, need comments or sigs from RL and Ecology

100-N Area:

- 116-N-1 CVP, delivered to RL 3/27, not sure if went to Ecology

Upcoming Documents for Ecology Review

100-D Area:

- 100-D-50:5 RSVP, delivered via 4/13
- 100-D-50:2 WI, approximately week of 4/24
- 100-D-14 RSVP, approximately week of 5/8
- 100-D-9 RSVP, approximately week of 5/8

100-H Area:

- 100-H-28:5 WI, approximately week of 4/24
- 100-H-4 WI, revised, approximately week of 4/24
- 100-H-28:6 RSVP, approximately week of 4/24
- 105-H Reactor CVP, approximately 4/24
- 100-H-28:9 WI, approximately week of 5/1
- 100-H-8 RSVP, approximately week of 5/22

Upcoming Documents for EPA Review

- 118-C-3:3 RSVP, delivered via UMM, 4/13
- 118-B-6 CVP, approximately 4/24
- 126-F-2 RSVP, approximately 4/17
- 132-F-1 RSVP, approximately week of 5/8
- 100-F-33 RSVP, approximately week of 5/8
- 141-C RSVP, approximately week of 5/8
- 100-B-21:2 RSVP, approximately week of 5/8
- 100-B-20 RSVP, approximately week of 5/25

100 AREA / 300 AREA UNIT MANAGERS' MEETING

Groundwater/ Source Operable Units / Facility Demolition

April 13, 2006

ATTACHMENT 8

Dean Strom- Burial Grounds, Remaining Sites and RPAS
Status Sheet and Map

4/13/2006

Burial Grounds:

118-B-1: Complete with excavation.
LARADS is complete and the civil survey is being completed.
Working on reducing the number of anomalous items.

118-C-1: Excavating and loading out material. Approximately 95% complete.

118-B-6: Backfill concurrence (if it gets signed by DOE/EPA we need to incorporate within UMM minutes Att...)

Remaining Sites:

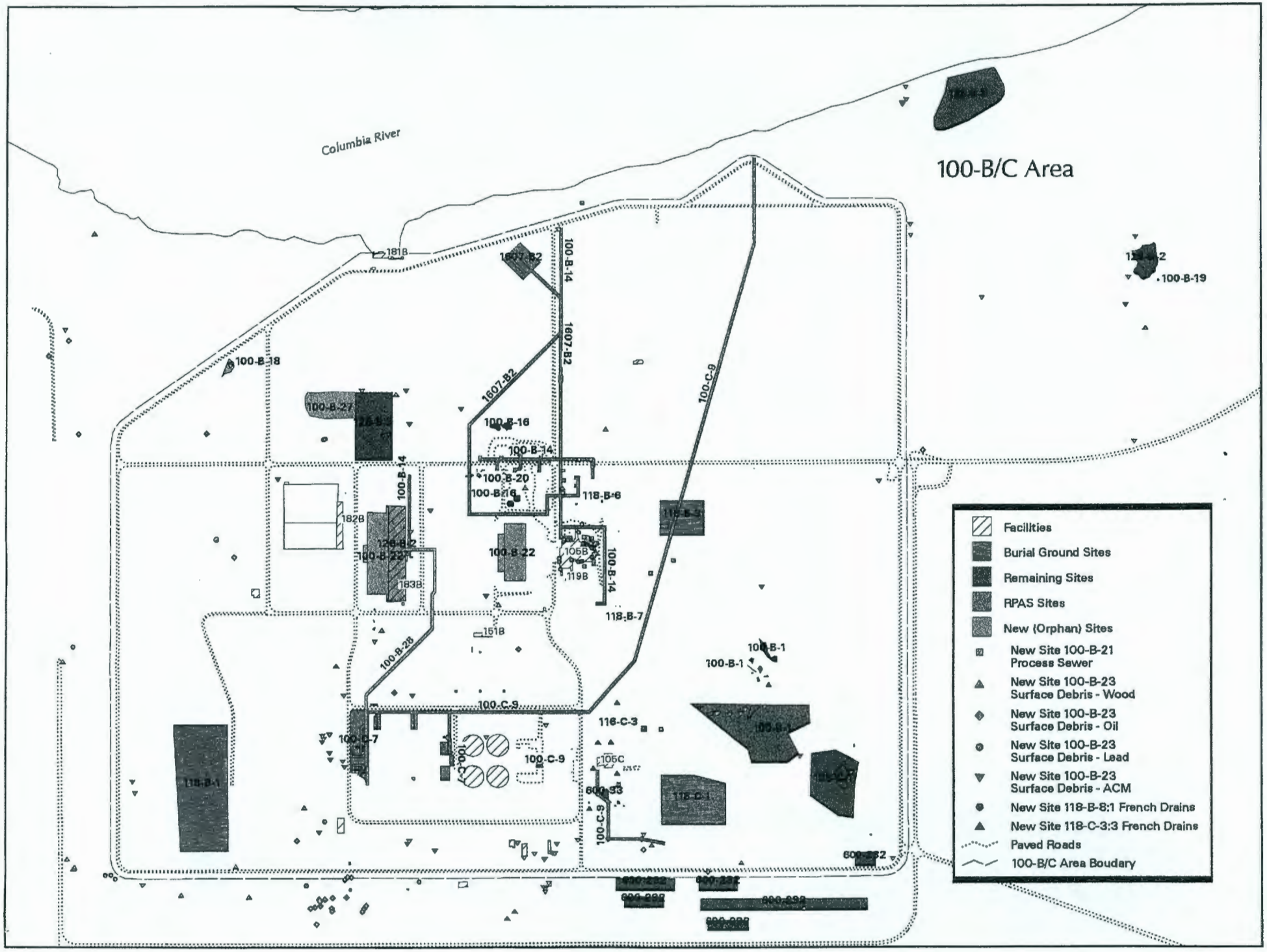
128-B-3: Close-out sample results for some samples suggest we did not remove all of the contamination. Currently working on an approach to re-excavate the site.

RPAS:

100-C-9:1S Box Culvert:
Started to remove overburden last week. The plan is to remove approximately 70 ft of box culvert, sample, evaluate whether additional material needs to be removed.

100-B-14 Remaining to be excavated: section under B Ave. Waiting on sample results associated with Cr plume.

Miscellaneous:


100-B/C Area
Columbia River
100-B-19
100-B-18
100-B-27
100-B-16
100-B-14
100-B-20
100-B-22
118-B-6
118-B-7
100-B-28
100-C-9
100-C-7
116-C-3
100-B-1
118-B-1
Facilities
Burial Ground Sites
Remaining Sites
RPAS Sites
New (Orphan) Sites
New Site 100-B-21 Process Sewer
New Site 100-B-23 Surface Debris - Wood
New Site 100-B-23 Surface Debris - Oil
New Site 100-B-23 Surface Debris - Lead
New Site 100-B-23 Surface Debris - ACM
New Site 118-B-8:1 French Drains
New Site 118-C-3:3 French Drains
Paved Roads
100-B/C Area Boudary

TRI-PARTY AGREEMENT UNIT MANAGER MEETING SUMMARY

Operable Unit: ***100-BC***

Dated ***4/13/06***

Presenter: ***Dean Strom***

Please use bulleted entries for your items

STATUS: *Briefly give TPA required update summary on your unit(s)*	• See attachments.
SIGNIFICANT CHANGES: *Note any significant exceptions and changes to your authorized TPA work plan*	•
REGULATORY ISSUES: *Present any Tri Party Agreement regulation issues noting action taken or needed to resolve*	•
CONCURRENCE /APPROVALS: *Give title of document and note the Tri-Party agreement member such as DOE, EPA or Ecology that needs to approve a document at the meeting*	•
ACTION ITEMS: *Note any action items assigned and resolution or status*	•