0071940

100 AREA / 300 AREA UNIT MANAGERS' MEETING

Groundwater / Source Operable Units / Facility Demolition

June 8, 2006

129208

TRANSMITTAL / APPROVAL

APPROVAL: _____ Date 7/13/06

Kevin D. Bazzell, RL (A3-04)

River Corridor Project Manager

Note: Based on discussions between Kevin Bazzell (DOE) and John Price (Ecology) subsequent to this UMM, it is DOE's understanding that Ecology is preparing a written notification, possibly under Article 30 of the TPA, with a request that DOE conduct a Limited Field Investigation (LFI) in the 100-N Area. Therefore, DOE does not acknowledge the action item listed in the minutes related to the 100-N Area.

APPROVAL: _____ Date _____

Briant Charbonneau, RL (A6-33)

Groundwater Project Manager

APPROVAL: _____ Date 7/13/2006

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

Environmental Restoration Manager

APPROVAL: Alicia L Boyd for Date 7-13-2006

Larry Gadbois, EPA (B1-46)

100 Aggregate Area Unit Manager

APPROVAL: Alicia L. Boyd Date 7-13-2006

Alicia 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

June 8, 2006

129208

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

Alicia 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
Stuart Luttrell	K6-96
Thomas Naymik	K6-96
Robert Peterson	K6-75

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 Corpuz	L6-06
John Darby	L6-06
DeLozier, Fran	H0-34
Steven Dieterle	L1-04
Lorna Dittmer	H9-02
Jack Donnelly	X0-17
Jonathan Fancher	X5-57
Ken Gano	H9-03
Jim Golden	L1-04
Hadley, Karl A.	X7-85
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 June 8, 2006 UMM Meeting Minutes are comprised of the following:

Attachment 1	-	June Agenda and Open Action Items
Attachment 2	-	Attendance Sheet
Attachment 3	-	6/8/06 Meeting Minutes and New Action Items
Attachment 4	-	***Groundwater Operable Unit Status 6/8/06 by Bob Peterson (PNNL)***
Attachment 5	-	***300-FF-5 Operable Unit: 300Area, 618-11 Subregion and 618-10/316-4 Subregion, 100-BC-5 and 100-FR-3 Operable Units Aquifer Sampling Tube Network by Bob Peterson and Mary Hartmann (PNNL)***
Attachment 6	-	***K-Basins Monitoring by Bob Peterson (PNNL)***
Attachment 7	-	***Burial Grounds, Remaining Sites, Remaining Sites Pipes and Sewers (RPAS) status by Dean Strom (WCH)***
Attachment 8	-	***Copy of 4/11/06 Letter by John Price (Ecology) to Kevin Bazzell(Department of Energy), Re: Backfill Concurrrence Checklist for 116-N-1 Combined Crib and Trench (1301-N Trench)***
Attachment 9	-	***Copy of 5/31/06 WCH Meeting Minutes Subject: Ecological Protectiveness Evaluation at Waste Sites***
Attachment 10	-	***100 Area D4/ Interim Safe Storage (ISS) Status 6/8/06***
Attachment 11	-	***300 Area D4 Status 6/8/06***
Attachment 12	-	***5/12/06 Email from James Golden (WCH) to Donna Yasek (WCH) documenting M0026 trailer regulatory decision for the 300 area.***

Prepared by: _____ _____

Kathe Machado (H0-19) Date:

WCH Regulatory Integration and Outreach

Concurrence by: _____ _____

Fran DeLozier (H0-34) Date:

Director, WCH Regulatory Environmental Management

100 AREA / 300 AREA UNIT MANAGERS' MEETING

Groundwater/ Source Operable Units / Facility Demolition

June 8, 2006

ATTACHMENT 1

June Agenda and Open Action Items

100 AREA / 300 AREA UNIT MANAGERS' MEETING

Groundwater / Source Operable Units / Facility Demolition

June 8, 2006

AGENDA

1:00 to 1:30 **100 AREA GROUNDWATER**

- Open Action Items (see attachment)
- 100-NR-2
- 100-KR-4
- K Basins
- 100-HR-3
- 100-BC-5
- 100-FR-3

1:30 to 1:45 **300 AREA GROUNDWATER**

- Open Action Items (see attachment)
- Project specific items

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

- Open Action Items (see attachment)
- Issues/Discussion

1:45 to 2:30 **FIELD REMEDIATION CLOSURE**

- RCCC Project Schedules
- Open Action Items (see attachment)
- Engineering Design
- Sample Design and Cleanup Verification
- 100 Area Field Remediation
  - 100-B/C
  - 100-K
  - 118-K-1
  - 100-N
  - 100-D
  - 100-F
  - 100-IU-2/6
- 300 Area Field Remediation
  - 618-2
  - 618-7/13
  - 618-10/11

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

- Open Action Items (see attachment)
- 100/300 Area Risk Assessment
- Columbia River Component
- D Area Orphan Sites
- Integrated Strategy for Final Cleanup Decisions

3:00 to 3:30 **DEACTIVATION, DECONTAMINATION, DECOMMISSION, DEMOLITION (D4)**

- Open Action Items (see attachment)
- 100 Area
- 300 Area

100 AREA / 300 AREA UNIT MANAGERS' MEETING

Groundwater / Source Operable Units / Facility Demolition

June 8, 2006

AGENDA

3:30 to 3:45 **INTERIM SAFE STORAGE**

- 100-K EE/CA

3:45 to 4:30 **SPECIAL TOPICS**

- All the legacy Unit Manager Meeting minutes will be brought to this meeting for signing by the regulators.
- Risk integration between River Corridor Baseline Risk Assessment, 200 Area groundwater operable units, and 200 Area source operable units.
- Five-year ROD review and evaluation of protectiveness for the 300 Area.
- Groundwater monitoring approach for Hanford site-wide permit for 100-N Area.

NEXT MEETING: July 13, 2006 at WCH, Hanford Square IV, Room 454(A)

100 AREA / 300 AREA UNIT MANAGERS' MEETING

Groundwater / Source Operable Units / Facility Demolition

June 8, 2006

ACTION ITEMS

Action: (100N Groundwater) Ron Jackson (PNNL) 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.

Action: (100N 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. Action Item from 4/13/06 UMM.

Action: (100 HR-3 Groundwater) Jane Borghese (FH) to investigate status on the 182-D Reservoir and learn if there is a way the leak can be sealed so it does not contaminate the reservoir. Action item from 4/13/06 UMM.

Action: (Groundwater and Source 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.

Action: (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

June 8, 2006

ATTACHMENT 2

Attendance Sheet

100 AREA / 300 AREA UNIT MANAGERS' MEETING

Groundwater / Source Operable Units / Facility Demolition

June 8, 2006

ATTENDANCE RECORD

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	373-3804	JV Borghese
Boyd, Alicia	EPA	300	376-4919	Alicia L. Boyd
Buckmaster, Mark	WCH	100 Field Remediation	521-2089	
Butler, Dru	WCH	100/300 Regulatory	372-9956	
Callison, Stacy W.	WCH	100 / 300	521-6515	
Carlson, Richard A.	WCH	100 / 300 948-6650 ~~373-1440~~		Richard Carlson
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	JW Darby
Dieterle, Steven	WCH	300	372-9503	
Dittmer, Lorna M.	WCH	100 /300	372-9664	Lorna M. Dittmer
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	
Gano, Kenneth	WCH	100	372-9295	
Golden, James W.	WCH	100 / 300	521-0877	
Goswami, Dib	ECOLOG	100 Groundwater	372-7902	
Guercia, Rudolph	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	
LaRue, Deena N.	WCH	100 / 300 Report change	375-9431	
Lerch, Jeffrey A.	WCH	100 / 300 ESFC	372-9206	

100 AREA / 300 AREA UNIT MANAGERS' MEETING

Groundwater / Source Operable Units / Facility Demolition

June 8, 2006

ATTENDANCE RECORD

NAME	ORG	O.U. ROLE	PHONE	SIGNATURE
Lobos, Rod	EPA	100-F	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	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	372-7930	
Weiss, Stephen G.	WCH	100/300 Lead Tech Risk	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	
Shea, Jacqueline	ECY	100	372-7925	
Johnson, Vern	FGE	100	353-9378	
DeLozier, Fran	WCH		372-2043	
Lilligren, Sandra	NPT	all OU's 208	843-7375 x2443	
Simon, Shelley	Oregon	All OU's	(541) 963-0853	

100 AREA / 300 AREA UNIT MANAGERS' MEETING

Groundwater/ Source Operable Units / Facility Demolition

June 8, 2006

ATTACHMENT 3

6/8/06 Meeting Minutes and New Action Items

100 AREA / 300 AREA UNIT MANAGERS' MEETING MINUTES

Groundwater / Source Operable Units / Facility Demolition

JUNE 8, 2006

ADMINISTRATIVE

- ***Next Unit Manager Meeting (UMM)***

  The next UMM meeting will be held on July 13 at Washington Closure Hanford (WCH), Hanford Square IV, Room 454 A.

- ***Department of Energy (DOE) Grant Proposal***

  Mike Thompson, Department of Energy-Richland Office (DOE-RL) reported on the DOE $10 million grant proposal funding allocated for the Columbia River cleanup projects. He stated the vadose remediation cold test has been approved. There are five plans which have received DOE peer approval and four additional plans pending revisions to peer comments.

100 AREA GROUNDWATER

- ***Open Action Items***

  Action: (100N Groundwater) 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.*
  Status: Meeting not yet scheduled. Action remains open.

  Action: (100N Groundwater) Jane Borghese (FH) to notify Dib Goswami (Ecology) when well injections scheduled to take place so a tour can be arranged for tribal nations to observe procedure. *Action Item from 4/13/06 UMM.*
  Status: **Closed.** Tour completed, Jane Borghese (FH) will keep Dib Goswami (Ecology) informed for future tours. Confirmed the 100-NR-1 Pump and Treat is in cold standby.

  Action: (100 HR-3 Groundwater) Jane Borghese (FH) to investigate status on the 182-D Reservoir and learn if there is a way the leak can be sealed so it does not contaminate the reservoir. *Action item from 4/13/06 UMM.*
  Status: Continuing to investigate options, having difficulty with water flow path when leak sealed.

- ***100-NR-2*** - See ***Attachment 4.***

  Draft A of the Ecological Impact Assessment received by Ecology.

  Vern Johnson (FH) provided a status of the Apatite Treatability Test. Phosphate is being depleted much faster than expected.

  Jonathan Fruchter (PNNL) reported Mary Hartman's (PNNL) 100-N Shoreline Groundwater Monitoring Plan, May 2006 draft, has been sent to Dib Goswami at Ecology on May 23 per Mike Thompson's(DOE) instructions. PNNL is implementing the plan in its draft form, and will revise it as appropriate after Ecology's review.

  The DOE RL and Ecology TPA Project Managers agree there should be a single groundwater monitoring plan for the 100-N Area. The plan will "Integrate Resource Conservation and Recovery Act (RCRA), Comprehensive Environmental Response, Compensation and Liability Act (CERCLA)

and Atomic Energy Act of 1954 (AEA) requirements" (as suggested by the Hanford Site Groundwater Strategy, DOE/RL-2002/59). The agreement includes the following understanding:

- DOE and Ecology retain all of their rights reserved through the TPA - TPA Project Managers do not have the authority to waive any of those rights;
- Changes to the GW monitoring plan that qualify as Class I and Class I changes can be made at the unit manager meeting, and will not require separate notification to Ecology;
- DOE may use an applicability matrix to designate which portions of the plan are being used to satisfy RCRA monitoring requirements; and
- GW remediation will continue under the existing CERCLA Record of Decision, which is consistent with Section 5.5 of the TPA ["Ecology, the EPA, and DOE agree that past-practice authority may provide the most efficient means for addressing mixed-waste groundwater contamination plumes originating from a combination of TSD and past-practice units"].

Jack Donnelly (WCH) inquired if 1325-N and 1324-N/NA could proceed with closure on receipt of this single groundwater monitoring plan. John Price indicated he could foresee no problems approving post closures for these units, once Ecology has an approved monitoring plan. It was noted that a consolidated 100-NR-1 groundwater monitoring plan could set the precedent for other Operable Units (OU).

- ***100-KR-***4 - See ***Attachment 4***.
  Jane Borghese (FH) provided a status for 100-KR-4. No changes were reported.

- ***K Basins*** - See ***Attachment 4 and Attachment 6***. Bob Peterson (PNNL) reported planning for construction in August. Remedial Action (RA) plan will be sent to DOE-RL and U.S. Environmental Protection Agency (EPA) on July 14. Two wells decommissioned for future excavation.

- ***100-HR-3*** - See ***Attachment 4***.
  Jane Borghese (FH) reported H area has decreased river effects.

- ***100-BC-5*** - See ***Attachment 5***. No changes to report.

- ***100-FR-3*** - See ***Attachment 5***. No changes to report. See ***New Action Items.***

300 AREA GROUNDWATER

- ***Open Action Items*** - N/A

- ***Project Specific Items*** - See ***Attachment 5.***
  There are four new groundwater monitoring wells. Uranium concentrations are as expected in 4 Limited Field Investigation (LFI) boreholes. 3-D spatial model will give characterization data. Project detected trichlorethylene, a RCRA concern; contamination level at 200 µg vs. the 70 µg identified in the Drinking Water Standard. Characterization level for Tri Chloride is 50-60 µg vs. the 5 µg in the Drinking Water Standard. Calculations are being re-checked by the laboratory. The well is next to the Columbia River and south of the 300 Area Process Trenches. Four boreholes will be installed between June and September 2006. Treatment for the uranium contamination is anticipated to be funded per the DOE Grant proposal.

  Bob Peterson provided a comparison chart of current high water level discharges against the discharge levels recorded in 1996 and 1997. Trend showed less than in the peak years.

GROUNDWATER/SOURCE OU INTEGRATION

- ***Open Action Items***
  - ***Action:*** (Groundwater and Source 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 to be changed. Will need maps from WCH. *Action item from 3/9/06 UMM.* ***Status:*** **Action closed.** Mike Thompson (DOE) was informed that the 2 sites he will need to investigate are the 118-F-6 (animal waste site) and 118-F-2 (burial ground). Mary Hartman (PNNL) to send email to Mike Thompson (DOE) with analysis of wells.

- ***Issues/Discussion***

  Remediation at 100-D was initiated on Monday, June 12.

FIELD REMEDIATION CLOSURE

- ***Open Action Items*** - N/A

- ***RCCC Project Schedules***

  The project schedules were provided to each Project/Unit Manager. Schedules will be required to be submitted to the appropriate Project Manager in advance of the monthly 100/300 Area UMM. The schedules will be reviewed at the UMM, but will not be entered into the record unless there are changes that need to be documented.

  - The expectation for the schedules is for each project to show their TPA-required specific tasks, specific critical paths, and float status.
  - Present "working" schedules were taken from the WCH approved provisional baseline for FY06/FY07 and do not track the total project. The Detailed Work Plan (DWP) will convert to a Contractor Performance Plan (CPP) in September to bring value to the balance of scope and milestones.
  - The present format of the schedules is too detailed. Schedules need to have the specific regulator items highlighted or the format simplified so DOE, EPA, and Ecology can quickly review tasks and logistics for a project and identify areas where WCH will need to make corrections.
  - There is a concern that waiting to the next month to get an agreement updated and regulator approval at the UMM would impact the projects negatively. Project work schedules must remain flexible to accommodate changes and timing is critical to take advantage of opportunities. A suggestion was made that some changes could be documented via email, the schedules then marked up and distributed to task leads to avoid this problem.

- ***Engineering Design and Closure*** - See ***Attachment 7.***

  Design work in progress for 100-B/C, 100-D, 100-H, and 300 Areas. Design work planned for the future includes 118-K-1 Silos.

- ***Sample Design and Cleanup Verification*** - See ***Attachment 9.***

  Lorna Dittmer (WCH) entered the 5/31/06 "WCH Ecological Protectiveness Evaluation at Waste Sites Risk Meeting Minutes" into the UMM records. Kevin Bazzell (DOE) and Larry Gadbois (EPA) are requested to add the recommended language into the Remedial Design Reports (RDR). She asked that the UMM minutes reflect Kevin Bazzell's (DOE) agreement to the bulleted items on page 2 of these minutes. See ***Attachment 9.***

The H Reactor CVP is in review and expected to be complete within a week. The 116-N-1 CVP review by Ecology is expected to be complete by June 30.

- ***100 Area Field Remediation***
  - *100-B/C* - See ***Attachment 7.***
    Dean Strom (WCH) provided status. Remediation on the two burial grounds is coming to an end. Initiating remediation of two new sites (120-B-1 and 100-B-14:8). No critical paths identified.

  - *100-K*
    Dale Obenauer (WCH) presented the project status.

    - *118-K-1:* Started overburden removal and load out. Operating under limited authorization.

  - *100-N*
    Jack Donnelly (WCH) presented for Scott Parnell (WCH). Anticipate finishing backfill of 116-N-1 by end of July. Revegetation should occur by September.

    Upon review of the 100-N schedules provided by Jack Donnelly, John Price requested a short break so he could convene a brief caucus with other Ecology staff. Following the break, John made a verbal notification, in accordance with Article XXX of the TPA, that Ecology was requesting a Limited Field Investigation (LFI) be performed in the 100-N Area. He submitted a copy of his 4/11/06 letter regarding the backfill concurrence checklist for 116-N-1 Crib and Trench (1301-N Trench) as supporting data and requested it be included with the meeting minutes (See ***Attachment 8***). According to Article XXX of the TPA, DOE has 7 days to dispute the notification, or 30 days to provide a schedule. Kent Westover, DOE, indicated DOE was preparing a response to the 4/11/06 letter. Subsequent to the Unit Manager Meeting, John Price and Kevin Bazzell, DOE, discussed John's request. Both agencies agreed written notification from Ecology was required; therefore, John's request at the meeting does not constitute a request under Article XXX of the TPA.

  - *100-D*
    Jon Fancher (WCH) reported work is ahead of schedule and remediation should begin next week.

  - *100-F*
    WCH is working in two waste sites. Sorting and load out of 128-F-6 continues; additionally sorting of the laboratory bottles has slowed the work down. Investigating Environmental Restoration Disposal Facility (ERDF) requirements for ampoules versus bottles.

  - *118-F-2*
    Burial ground just excavated; into trenches next week. Performed a stop work to examine the segregating process. A procedure is being written to explain how to deal with bottles.

  - *100-IU-2/6.* No changes to report.

- ***300 Area Field Remediation***
  - *618-2*
    There are approximately 1 to 2 weeks of load out remaining. Continued sorting in the burial ground footprint.

    Anomalies: 4/5 of the containers have been resolved. All items removed from safe in 2004 have been sampled. A glove bag has been designed and should arrive in another two weeks, then will clean out safe. Originally there were 9 items in the safe: 2 bottles, 2 vials, a steel cup, some

concrete debris, and a broken flask. The bottles with liquid have been split and samples sent to and accepted by the 2225 PNNL laboratory.

- *618-7/13*
  Air monitoring plan for 618-7 needs to be revised and added to the waste plan.

- *618-10/11*
  Jack Donnelly stated project is continuing with design solutions options for vertical pipes and trenches. There is a Stakeholder briefing on July 10 and Debra Singleton from Ecology is to be invited as she will be involved in waste for this project. See ***New Action Items***.

END STATES AND FINAL CLOSURE PROJECT

- ***Open Action Items*** - N/A
- ***100/300 Area Risk Assessment***
  Jill Thomson (WCH) stated a WCH workshop is planned for July 12 and 13 to review data and the schedules from the subcontractors.

- ***Columbia River Component***
  Ecology requested an updated schedule. John Price (Ecology) requested Rudy Guercia (DOE) provide dates for Public Involvement activities for Columbia River component. Ecology suggested WCH coordinate with the Hanford Advisory Board (HAB) Public Involvement Committee. A request was made for DOE and WCH to provide adequate advance notice of more than 30 days and accompany with a fact sheet prior to going out to the public.

- ***D Area Orphan Sites***
  Jeff Lerch (WCH) stated the historical review was complete and the walk down is in process. A review with DOE and Ecology is anticipated in July to discuss new waste sites. Jeff will inform regulators of the meeting date. At present, about 15 to 20 potential sites have identified; some sites are being combined into single sites based on common types (e.g., discolored soils, French drains). Results of the orphan site evaluation will be documented in a summary report in FY07.

- ***Integrated Strategy for Final Cleanup Decisions***
  It is anticipated the draft *Integrated Strategy for Final Cleanup Decisions* report will be provided to EPA, Ecology, and DOE for review in early July, with comments due mid-August.

DEACTIVATION, DECONTAMINATION, DECOMMISSION, DEMOLITION (D4)

- ***Open Action Items***
  - ***Action:*** (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.*
    Status: Open—No status provided

- ***100 Area*** - See ***Attachment 10***.
  Donna Yasek (WCH) presented status. Schedule presented is out of date—WCH provided a handout of activities in the 100 Areas.

- ***300 Area*** - See ***Attachment 11*** and ***Attachment 12.***

  Rudy Guercia (DOE) presented status. DOE reiterated that Engineering Evaluation/Cost Analysis (EE/CA) #3 is required in order to continue deactivation and demolition in the 300 Area.

  The 5/12/06 e-mail from James Golden (WCH) to Donna Yasek (WCH) documenting the regulatory decision for the 300 area was presented for the UMM record (Attachment 12). Trailers when contaminated will be dealt with on a case-by-case basis. This can be interpreted as a CERCLA issue for used equipment. Reference Larry Gadbois (EPA).

  Fencing in the northern portion of the 300 Area has been installed in response to concerns by EPA.

INTERIM SAFE STORAGE (ISS)

- ***100-K EE/CA***. No report.

SPECIAL TOPICS

- ***Legacy UMM Minutes***. All the legacy UMM minutes (from 2004, 2005, and 2006) were brought to the meeting for signature by the Tri-Party Agreement (TPA) regulators. Minutes which had no TPA commitments or actions were not signed and were noted with a disclaimer cover page. Signed minutes were delivered to the WCH Document Control to be forwarded to TPA Administrative Record.

- ***Risk Integration*** between River Corridor Baseline Risk Assessment, 200 Area Groundwater operable Units and 200 Area source operable units. The 100 Area Remaining Sites ROD contains waste sites in the 200 Area, which are in FH's contract. WCH has not been given a status from Fluor on the 200-CW-3 waste sites. Ecology reminded DOE that in order to complete the requirements of the 100 Area Remaining Sites ROD, those sites in the 200 Area would have to be completed as well. An Explanation of Significant Difference (ESD) may be necessary to address those sites should FH not be able to complete remediation before the end of the WCH contract. Inquiry should be made at the 200 Area Unit Manager Meeting on this. See ***New Action Items.***

- ***Five Year ROD Review*** and evaluation of protectiveness for the 300 Area was discussed.

- ***Groundwater Monitoring Approach*** for Hanford site-wide permit for the 100-N Area. See ***New Action Items.***

NEW ACTION ITEMS

- ***100 Area Groundwater***. Brian Harmon (FH) to work on an upgraded plan of times schedule for John Price (Ecology).

- ***Field Remediation Closure***. Tri-Parties (EPA, DOE, and Ecology) to decide what level of information and obligations they need represented on project schedules, start dates, tasks, etc. and communicate decision to WCH.

- ***Special Topics Risk Integration***. Dennis Faulk (EPA) to investigate information needed for 200 Area sites for WCH close out of ROD.

- *618-10/11*. Invite Debra Singleton (Ecology) to the 7/10 Stakeholder briefing for this project.

100 AREA / 300 AREA UNIT MANAGERS' MEETING

Groundwater/ Source Operable Units / Facility Demolition

June 8, 2006

ATTACHMENT 4

Groundwater Operable Unit Status 6/8/06
by Bob Peterson (PNNL)

Attachment 4

100 UMM
Groundwater Operable Unit Status
June 8, 2006

100-NR-2 Groundwater OU - Russ Fabre

- Ecological Impact Assessment

The Draft A version was reissued with some minor changes to accommodate RL management review comments. Hardcopies of the Draft A (reissue version) are in the distribution cycle.

- Apatite Treatability Testing Status

The pilot scale chemical injection test was initiated on May 31, 2006 during the start of a predicted high water period expected to last through the first week of June. Approximately 100,000 gallons of a dilute (0.01 molar) chemical solution of calcium citrate and sodium phosphate was injected in well 199-N-138 at an initial rate of 60 gpm and ending rate of 40 gpm. During the injection, hourly samples were collected to monitor arrival of the treatment chemicals at 9 observation wells. A total of 350 samples were collected. Two aquifer tubes were included to monitor shoreline conditions. Post injection sampling consists of daily samples for the first week and then weekly for two additional weeks.

Rev 0 of the treatability test plan for the apatite project was revised to accommodate RL DQO related review comments. The revised version will be reissued.

100-KR-4 Groundwater OU - Ron Jackson

- Remediation Treatment Status
  - For the period of April 3-April 30, 2006:
    - System availability was 96 percent.
    - Total average flow through the system was approximately 247 gpm. Well 199-K-125A went off line on March 11, 2006 and returned to service on May 2, 2006 after replacing the pump.
    - Average influent hexavalent chromium concentration was 0.058 mg/L.
  - For the period of May 1-May 18, 2006:
    - System availability was 99 percent.
    - Total average flow through the system was approximately 265 gpm.
    - Average influent hexavalent chromium concentration was 0.035 mg/L.

- Calcium Polysulfide Treatability Test Status
  - The treatability test wells continue to be sampled monthly. Hexavalent chromium remains below the RAOs of 0.022 mg/L at the 100-KR-4 treatability test site.

- KW Groundwater Remediation
  - Several successful interface meetings have been held with K Basin Project and WCH on locations of wells.
  - Met with EPA on the drilling sampling needs for the new wells.
  - Drilling of the injection/extraction wells are planned to start the week of June 18, 2006.
  - The design of the pump and treat is essentially complete. Delivery date of the treatment skid is due in mid August. Construction is planned to start in early August with startup testing in December 2006.

- The RDR/RAWP addendum is in preparation. Due to a tight schedule, FH plans to start a concurrent RL/EPA review on July 14, 2006. Assuming a 45 day review per the TPA, RL/EPA comments would be due on 21 August, 2006.

- EPA transmitted a letter to RL on May 22, 2006 regarding RL's failure to respond in a timely manner to the hexavalent chromium plume between the 100-K and 100-N reactors. A meeting between RL/EPA occurred 6/6 to discuss 100-K path forward.

K-Basins Monitoring-Robert Peterson

- Leak Detection Monitoring:
  - No evidence in groundwater monitoring results for recent loss of shielding water to the ground at wells nearest each basin.
  - Monthly monitoring continues at three wells near KE Basin, as sludge removal activities continue. Quarterly sampling is in effect at other wells in the K-Basins network.
- Monitoring Well Network:
  - No further information yet on the imminent removal of wells 199-K-27 and 199-K-109A, in preparation for excavation activity at KE Basin. Discussion of replacement wells continues.
- Reporting:
  - Quarterly status report for January, February, and March 2006 for the K-Basins task was distributed via email on May 26, 2006 (PNNL-SA-50295).

100-HR-3 Groundwater OU - Ron Jackson

- Remediation Treatment Status
  - For the period February 27-April 2, 2006:
    - System availability was 96 percent.
    - Total average flow through the system was approximately 190 gpm.
    - Average influent hexavalent chromium concentration for H Area was 0.033 mg/L
    - Average influent hexavalent chromium concentration for D Area was 0.164 mg/L.
  - For the period April 3-April 30, 2006:
    System availability was 90 percent.
    - Total average flow through the system was approximately 220 gpm.
    - Average influent hexavalent chromium concentration for H Area was near 0.016 mg/L.
    - Average influent hexavalent chromium concentration for D Area was 0.101 mg/L.
  - For the period May 1-May 20, 2006:
    System availability was 99 percent. Four wells down for one to two days due to maintenance and/or low water alarm problems.
    - Total average flow through the system was approximately 251 gpm.
    - Average influent hexavalent chromium concentration for H Area was near 0.010 mg/L
    - Average influent hexavalent chromium concentration for D Area was 0.050mg/L.

100 UMM
Groundwater Operable Unit Status
June 8, 2006

- Cleanup of chromium in the vicinity of 100-H reactor is progressing well (See Attachments 1). Future meetings with Agencies need to be arranged to discuss O&M options for the reactor area. Ecology is expecting to see Action Items for the "Horn" in the 5-year ROD review.

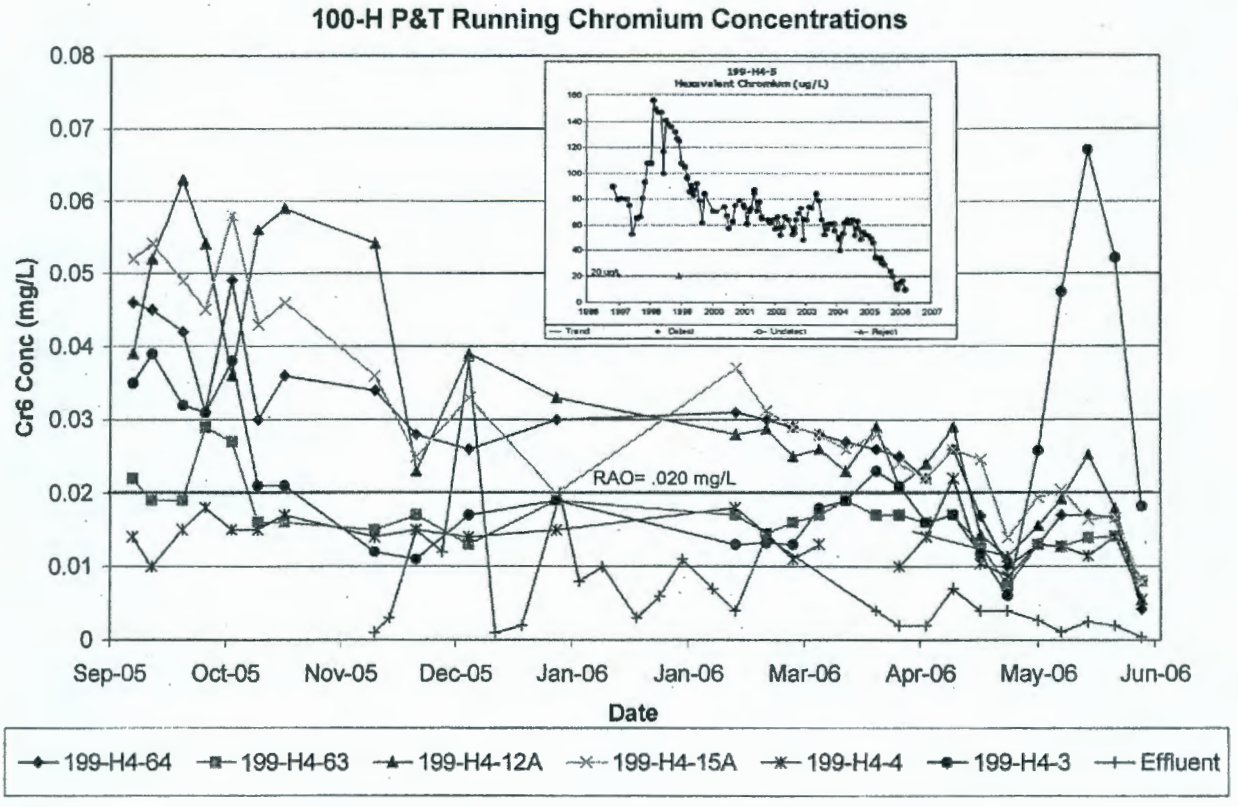
- DR-5 Treatment Status
  - For the period March 31-April 19, 2006:
    - System operated at about 95 percent.
    - Total average flow was approximately 44 gpm.
    - The average influent hexavalent chromium concentration was 0.830 mg/L.
  - For the period April 20-May 14, 2006:
    - System operated at greater than 90 percent.
    - Total average flow was approximately 44 gpm.
    - The average influent hexavalent chromium concentration was 0.805 mg/L.

- Summary of ISRM Status
  - Collected and analyzed selected samples from ISRM barrier wells in March and April, 2006. Collected samples from all barrier wells during the May quarterly sampling event. Chromium concentrations are low due to high river stage.

- 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)

- EM-21 Proposals
  - The proposals for testing electrocoagulation and injecting iron into the ISRM barrier were rewritten and submitted to DOE/HQ. FH is waiting funding authorization to begin work on these two proposals.
  - The proposals for using calcium polysulfide to treat groundwater and finding the chromium source using geophysics were not approved by the Peer Review Committee as written. These projects are being reevaluated, and will are in the process of being resubmitted to DOE/HQ with substantial changes.

Attachment 1 – 100-H Chromium Trend Plots (Draft)



100 AREA / 300 AREA UNIT MANAGERS' MEETING

Groundwater/ Source Operable Units / Facility Demolition

June 8, 2006

ATTACHMENT 5

300-FF-5 Operable Unit: 300Area,618-11 Subregion and 618-10/316-4 Subregion,
100-BC-5 and 100-FR-3 Operable Units Aquifer Sampling Tube Network
by Bob Peterson and Mary Hartmann (PNNL)

100/300 Areas Unit Managers Meeting for June 8, 2006

300-FF-5 Operable Unit: 300 Area, 618-11 Subregion, and 618-10/316-4 Subregion
100-BC-5 and 100-FR-3 Operable Units
Aquifer Sampling Tube Network

Bob Peterson (373-9020)
Mary Hartman (373-0028)

300 AREA GROUNDWATER

- Operations and Maintenance Plan Requirements
  - All results for the last semi-annual sampling event (December 2005/January 2006) that covers the uranium plume and other contaminants of potential concern are available, and are consistent with previous trends and expectations. Data from wells covering the 300 Area Process Trenches (316-5) under RCRA provide more frequent measurements in that area, and supplement the CERCLA program data.
  - Additional sampling of the aquifer tubes along the 300 Area shoreline is planned for the low-river stage this summer (late August/September).
  - Groundwater conditions at the two outlying subregions remain on trend and as expected. Quarterly monitoring is conducted at the 618-10 and 618-11 burial ground subregions.
  - The sampling schedule for FY 2007 has been updated to reflect new monitoring sites, i.e., five new monitoring wells. A revised sampling and analysis plan for the 300-FF-5 Operable Unit will be distributed this summer.
- Limited Field Investigation, Phase III Feasibility Study
  - Four LFI boreholes were drilled in the 300 Area during the period March through May. Characterization activities included collection of intact core; water sampling; hydrologic testing; and geophysical logging. Initial results for many of the laboratory analyses on samples obtained are becoming available.
    - Uranium concentrations in groundwater collected during drilling are consistent with expectations based on historical monitoring data.
    - Detailed geological analysis of core is providing updated information for the spatial framework of the conceptual site model.
    - Cis-1,2-dichloroethene was detected in groundwater collected during drilling at one borehole near the 300 Area Processes Trenches, but at levels lower than locations farther downgradient (e.g., at well 399-1-16B).
    - Trichloroethene was reported at elevated levels for two of ten samples collected during drilling from the borehole near the river. These results are suspect and a review of the analytical work is in progress.
  - The LFI boreholes were completed as monitoring wells and their first routine sampling and groundwater wells is scheduled for June.
  - A uranium treatability test involving injection of polyphosphate has been planned. This work will begin upon approval of funding.

100-BC-5 OPERABLE UNIT

- (no new information to report)

100-FR-3 OPERABLE UNIT

- (no new information to report)

RIVER CORRIDOR SHORELINE MONITORING

- Aquifer Tube Network
  - Planning has started for the FY 2007 sampling event. This year, we would like to begin field operations as soon as possible in the late summer/early Fall, such that the entire network can be sampled prior to winter weather (i.e., short days and cold conditions). A draft Sampling and Analysis Instruction will be prepared during June and circulated for review, comment, and regulatory agency approval, per the Aquifer Tube Sampling and Analysis Plan (DOE/RL-2000-59).
- Riverbank Springs
  - No activity

100 AREA / 300 AREA UNIT MANAGERS' MEETING

Groundwater/ Source Operable Units / Facility Demolition

June 8, 2006

ATTACHMENT 6

K-Basins Monitoring
by Bob Peterson (PNNL)

K-Basins Monitoring-Robert Peterson

(Prepared for FHI handout at June 8, 2006 UMM; information updated on June 8, 2006, prior to meeting. Note--May 11, 2006 UMM was cancelled, so this briefing covers April, May, and early June.)

- Leak Detection Monitoring:
  - No evidence in groundwater monitoring results for recent loss of shielding water to the ground at wells nearest each basin.
  - Monthly sampling, with expedited laboratory turnaround for tritium analyses, is underway at three wells near KE Basin, as sludge removal activities continue.
    - Dedicated pumps were removed from two of these three wells (199-K-109A and 199-K-27) on May 12, 2006, in preparation for well decommissioning.
    - Sample collection is still possible, using a portable pump. Last sample collection from 199-K-27 was on June 5; last at 199-K-109A was May 15.
  - Quarterly sampling is in effect at other wells in the K-Basins network. Last regularly scheduled event occurred in late March/early April 2006; next will be in July.
- Monitoring Well Network:
  - Awaiting firm dates for decommissioning 199-K-27 and 199-K-109A, and installation of replacements, before updating the groundwater sampling schedule for the remainder of FY2006 and for FY2007, and revising the K-Basins monitoring plan (PNNL-14033).
- Reporting:
  - Quarterly status report for January, February, and March 2006 for the K-Basins task was distributed via email on May 26, 2006 (PNNL-SA-50295).
  - Next quarterly status report (April, May, and June) will be distributed by early July.

100 AREA / 300 AREA UNIT MANAGERS' MEETING

Groundwater/ Source Operable Units / Facility Demolition

June 8, 2006

ATTACHMENT 7

Burial Grounds, Remaining Sites, Remaining Sites Pipes and Sewers (RPAS)
status by Dean Strom (WCH)

Attachment 7

6/8/2006

Burial Grounds:

118-B-1: Complete with excavation, focused sampling has identified a Hg plume.
Need to develop a close-out strategy with DOE/EPA.
Kicked off the mercury amalgamation campaign.

118-C-1: Excavating in the trenches are complete.
LARADS has identified additional material within the process cells that will need to be removed.

SNF

Remaining Sites:

128-B-3: Finished excavation and about 75% complete with load out.
Should be complete with loadout by the week of the 12th.

RPAS:

100-C-9:1S Box Culvert:
Completed excavation.
Completing the civil survey to support the sample design.

100-B-14:1 Currently conducting close out sampling. Approximately 300 samples collected of the 900 total.

100-B-14:8 Scheduled to begin excavation on the week of the 19th.

120-B-1 Scheduled to begin excavation on the week of the 12th.

Miscellaneous:

100 AREA / 300 AREA UNIT MANAGERS' MEETING

Groundwater/ Source Operable Units / Facility Demolition

June 8, 2006

ATTACHMENT 8

Copy of 4/11/06 letter by John Price (Ecology) to Kevin Bazzell (Department of Energy)
Re: Backfill Concurrrence Checklist for 116-N-1
Combined Crib and Trench (1301-N Trench)

STATE OF WASHINGTON
DEPARTMENT OF ECOLOGY
3100 Port of Benton Blvd • Richland, WA 99352 • (509) 372-7950

April 11, 2006

Mr. Kevin Bazzell
Richland Operations Office
United States Department of Energy
P.O. Box 550, MSIN: A3-04
Richland, Washington 99354

Re: Backfill Concurrence Checklist for 116-N-1 Combined Crib and Trench (1301-N Trench)

Dear Mr. Bazzell:

The signed backfill concurrence checklist for the 116-N-1 Combined Crib and Trench is enclosed. After considering the factors listed below, the Department of Ecology agrees to the backfill. However, our agreement is contingent upon the United States Department of Energy's (USDOE) agreement to incorporate the requirement for a Focused Feasibility Study into the 1301-N chapter of the Hanford Facility Resource Conservation and Recovery Act Draft Permit (Site-Wide Permit). The permit modification is necessary to support completion of Hanford Federal Facility Agreement and Consent Order Milestone M-16-55, "Complete the interim response actions for the 100 N Area" (12/31/2012).

Factors:

1. The excavation of contaminated material from the 1301-N Trench was done in accordance with the Hanford Past Practice (HPP) Strategy, DOE/RL-91-40, Revision 0. The excavation and sampling of the Trench completes a step in DOE/RL-91-40, Figure 1, "Hanford Past Practice Strategy RI/FS (RFI/CMS) Process" (enclosed). That step is "Perform IRM; Concurrent Characterization."

2. The next steps in the HPP Strategy are to assess the accumulated data and determine minimum data needs. Ecology's assessment of the accumulated data is that additional field investigations will be required at 100-N Area. The results of the additional field investigations, and the previously accumulated data, will have to be evaluated in a Focused Feasibility Study (studies) as shown in Figure 1 of DOE/RL-91-40. The studies will have to consider the alternative of capping the unit if necessary to protect human health and the environment.

3. The 1301-N Trench is a regulated unit as defined at Washington Administrative Code (WAC) 173-303-040. Requirements for corrective actions for releases from regulated units are found at WAC 173-303-64620. Our assessment of the backfill concurrence data is that releases have occurred (notably, hexavalent chromium), and remain, in the vadose zone at concentrations that exceed the numeric cleanup values referenced at WAC 173-303-610(2)(b)(i). Ecology notes that the completion of a Focused Feasibility Study would be compliant with WAC 173-303-64620(4)(a), which applies to corrective action for releases from regulated units.

4. The backfill of the 1301-N Trench is consistent with the requirements of:
   - The "Interim Remedial Action Record of Decision for the 100-NR-1 Operable Unit of the Hanford 100-N Area" (Treatment, Storage, and Disposal ROD), January 2003.
   - 100-N Area" (Treatment, Storage, and Disposal ROD), January 2000, and the "Explanation of Significant Difference for the 100-NR-1 Operable Unit Treatment, Storage, and Disposal Interim Action Record of Decision and 100-NR-1/100-NR-2 Operable Unit Interim Action Record of Decision," January 2003.
   - Part V of the Hanford Site-Wide Permit.

5. Requirements at WAC 173-303-645(2) – (12) for "Releases from Regulated Units" apply to the 1301-N Trench. The Dangerous Waste Permit for the Hanford Site, WA7890000897, is currently being renewed. Ecology has drafted closure/post-closure groundwater monitoring conditions for the 1301-N Trench and other solid waste management units at the 100-N Area. Those draft conditions will undergo public comment and revision as necessary. USDOE will also have the opportunity to comment.

If you have any questions, you may contact me at (509) 372-7921. Noe'l Smith-Jackson, the technical lead for the 1301-N Trench, may be contacted at (509) 372-7926. Jean Vanni, the permit writer for the 1301-N Trench, may be contacted at (509) 372-7930.

Sincerely,

John B. Price
Environmental Restoration Project Manager
Nuclear Waste Program

lkd
Enclosures:
1. 116-N-1 Combined Crib and Trench Backfill Concurrence Checklist
2. DOE/RL-91-40, Figure 1

cc: See next page

cc/enc: Larry Gadbois, EPA
Mike Thompson, USDOE
Dana Ward, USDOE/HNRTC
Kent Westover, USDOE
Ron Morrison, FH
Rich Carlson, WCH
Rick Donahoe, WCH
Scott Parnell, WCH
Megan Proctor, WCH
Stuart Harris, CTUIR
Gabriel Bohnee, NPT
Russell Jim, YN
Todd Martin, HAB
Ken Niles, ODOE
Administrative Record: 100-NR-1, 116-N-1, 1301-N
Environmental Portal

Waste Site: 116-N-1 Combined Crib and Trench	**BACKFILL CONCURRENCE CHECKLIST** (Concurrence to Proceed with Waste Site Backfill Operations)	WIDS No.: 116-N-1

This checklist is a summary of cleanup verification results for the 116-N-1 trench. 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. Maximum dose rate calculated by RESRAD is 3.35 mrem/yr for all pathways.	Yes	C
Direct Exposure – Nonradionuclides	1. Attain individual COC RAGs.	1. All individual COC concentrations are below the RAGS.	Yes	B
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 and less than 1 for the deep 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 excess cancer risk is less than 1×10^{-6} for the shallow zone and less than 1×10^{-6} for the deep zone.		B
Groundwater/River Protection – Radionuclides	1. Attain single COC groundwater & river RAGS.	1,2. With the exception of tritium, RESRAD modeling predicts that contaminants from the shallow and deep zone do not reach groundwater within 1,000 years. Tritium is predicted to reach groundwater within 1,000 years, but at concentrations below the RAG. Therefore, all groundwater and river protection RAGs have been attained.	Yes	B,C
	2. Attain National Primary Drinking Water Regulations 4-mrem/yr (beta/gamma) dose standard to target receptor/organ.			C
	3. Meet drinking water standards for alpha emitters: the more stringent of 15 pCi/L MCL or 1/25th of the derived concentration guide for DOE Order 5400.5.	3. None of the alpha emitting radionuclide COCs are predicted to reach groundwater within 1,000 years.		C
	4. Meet total uranium standard of 21.2 pCi/L.	4. Uranium was not identified as a COC for the 116-N-1 site.		
Groundwater/River Protection – Nonradionuclides	1. Attain individual nonradionuclide groundwater and river cleanup requirements.	1. Residual concentrations of hexavalent chromium are not predicted to exceed water quality criteria based on the results of leach studies performed for other 100 Area sites.	Yes	B,C
Other Supporting Information	1. Sample location design calculation brief.			A

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

WCH Manager	Date	WCH Project Engineer	Date	DOE Project Manager	Date
S S Powell	3/30/06	A.O. Williams	3/30/06	[signature]	3/30/06

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.

Ecology Project Manager	Date	EPA Project Manager	Date
John B. Price	4/11/2006	N/A	N/A

RECEIVED
MAR 30 2006
Department of Ecology
NWP - Richland

Backfill Concurrence Checklist Attachments/References

Attachment/ Reference	Description
A	Shallow and Deep Zone Sample Design for the 116-N-1 Trench and Crib, Calculation No. 0100N-CA-V0085
B	116-N-1 Combined Crib and Trench Cleanup Verification 95% UCL Calculation, Calculation No. 0100N-CA-V0087
C	116-N-1 Combined Crib and Trench Cleanup Verification RESRAD Calculation, Calculation No. 0100N-CA-V0088

Hanford Past Practice RI/FS (RFI/CMS) Process

The process is defined as a combination of interim cleanup actions (involving concurrent characterization); field investigations for final remedy selection where interim actions are not clearly justified, and feasibility/treatability studies.

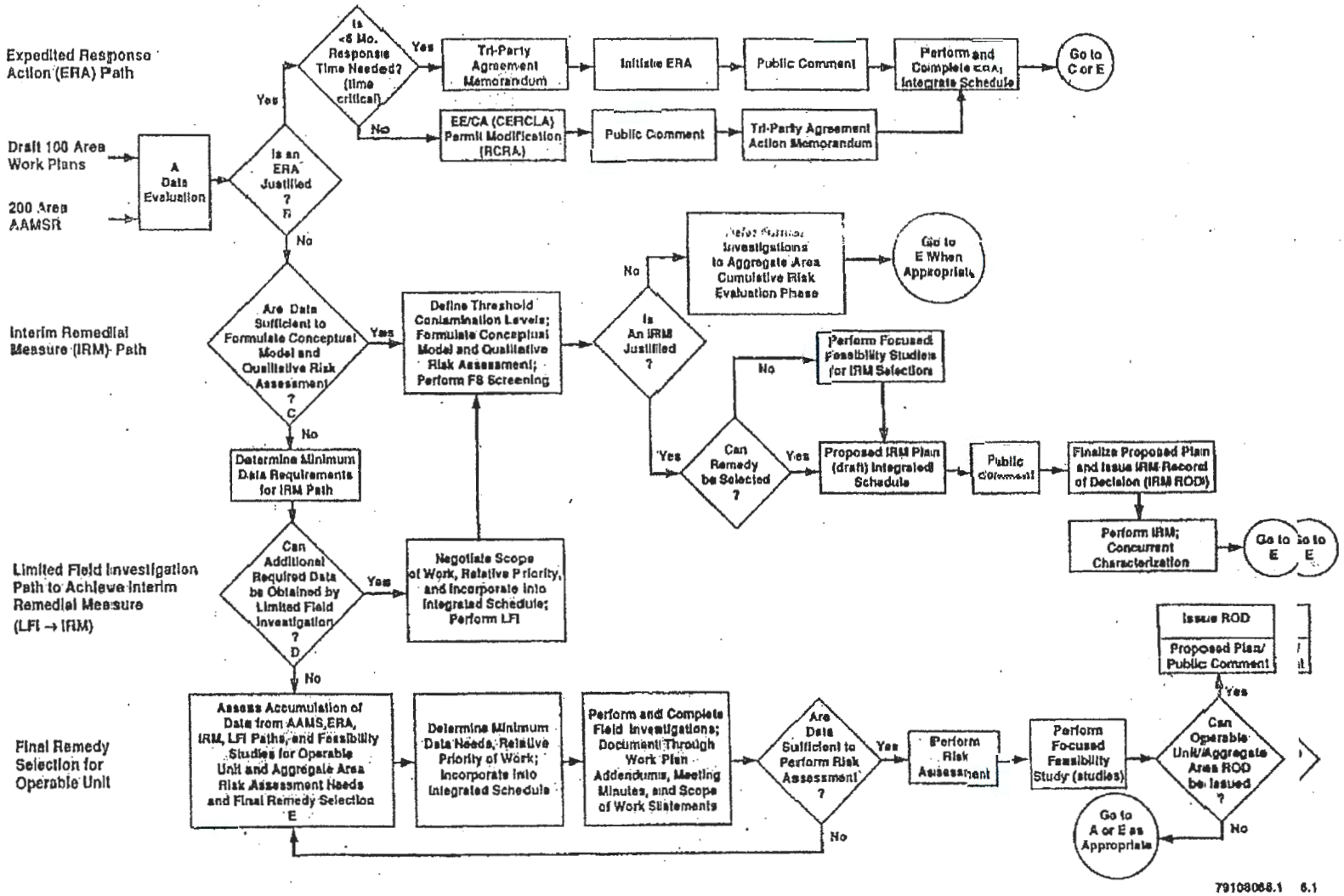


Figure 1. Hanford Past-Practice RI/FS Process.

100 AREA / 300 AREA UNIT MANAGERS' MEETING

Groundwater/ Source Operable Units / Facility Demolition

June 8, 2006

ATTACHMENT 9

Copy of 5/31/06 WCH Meeting Minutes
Subject: Ecological Protectiveness Evaluation at Waste Sites

WCH Washington Closure Hanford

Meeting Minutes

SUBJECT Ecological Protectiveness Evaluation at Waste Sites

TO Distribution

FROM L. M. Dittmer

DATE May 31, 2006

ATTENDEES

J. E. Thomson, H0-23
L. M. Dittmer, H9-02
R. A. Carlson, X0-17
J. P. Sands, A3-04
K. R. Westover, A3-04
B. L. Vedder, H9-03
D. H. Butler, H0-19
E. J. Milikin, H0-19
L. E. Gadbois, B1-46
F. W. Bond, H0-57
J. Price, H0-57
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E. T. Feist, H0-23
M.P (Fran) Delozier, H0-34

A meeting on the above subject was held on Monday, May 8, 2006, at Hanford Square III, Room 33, 8:30 a.m. to 9:30 a.m.

This meeting was held to present the Washington Closure Hanford (WCH) process for evaluating ecological protection at waste sites. The attached flowchart was provided and discussed with the attendees.

When evaluating data for the closeout of waste sites, WCH will compare the data against the U.S. Department of Energy preliminary remediation goals (RESRAD-BIOTA radionuclide ecological screening levels), U.S. Environmental Protection Agency (EPA) soil screening levels, and *Model Toxics Control Act* 2001 screening values. If the site does not exceed screening values, ecological protectiveness will be documented in the associated cleanup verification package (CVP) or remaining sites verification package (RSVP). When ecological screening levels are exceeded, the concentrations will be evaluated in the context of additional lines of evidence to determine if additional remediation or sampling is required, or if the levels are protective of ecological receptors at the Hanford Site. It was emphasized that this decision will be made by the WCH Director of Field Remediation. The conclusion of the evaluation will be documented in the relevant CVP or RSVP.

The following four agreements were made during the meeting:

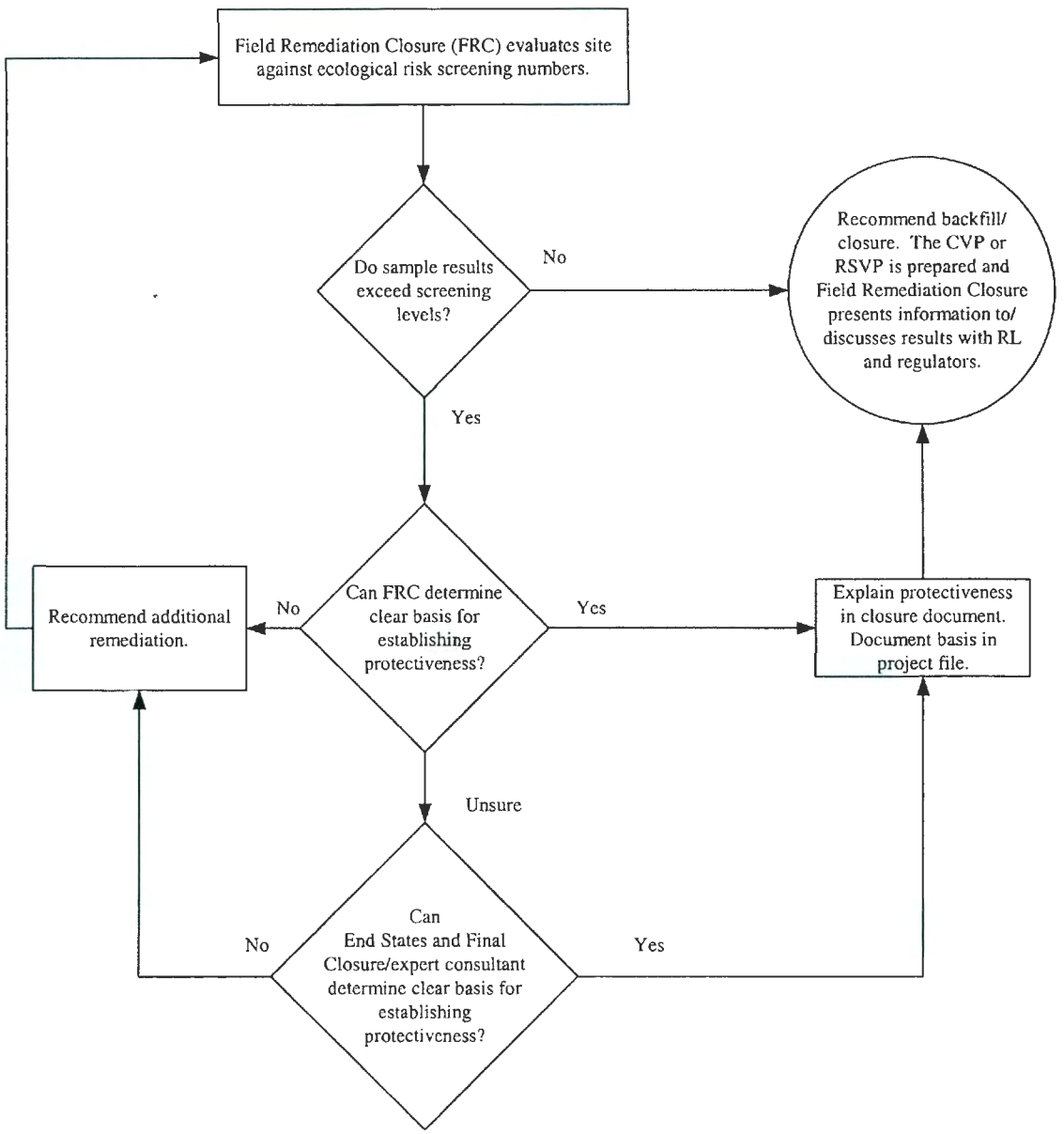
- Larry Gadbois, EPA, requested that a short description of the process be included in the applicable remedial design report/remedial action work plans; U.S. Department of Energy, Richland Operations Office, and Washington State Department of Ecology agreed that the text should be developed and be included. Larry requested that the RDR/RAWP revision be documented on a National Priorities List agreement form. WCH took the action to develop proposed text and create the draft form for review.
- Larry Gadbois also requested that EPA be considered when WCH seeks expert assistance to determine protectiveness (bottom diamond on the flowchart). It was agreed that the regulatory agencies may be consulted at that point to provide input to the evaluation.
- The attendees also agreed that the text describing the evaluation will be placed in the closeout documentation CVPs and RSVPs supporting the Tri-Party Agreement (*Hanford Federal Facility Agreement and Consent Order* TPA-MP-14) Waste Site Reclassification Form, and will not be included on the Waste Site Reclassification Form. Documentation of the evaluation will consist of text describing that the evaluation was done, and explain why any exceedances can be considered protective. There will not be a data table of screening value comparisons in the closeout documents.
- This evaluation process will continue through the completion of the 100 Area and 300 Area Component of the River Corridor Baseline Risk Assessment. The 100 Area and 300 Area Component risk assessment will evaluate the performance of cleanup values currently identified with respect to ecological protection. Where indicated by the risk assessment results, new cleanup values that ensure ecological protection will be developed.

The language proposed for addition to the RDR/RAWPs to describe this evaluation process has been sent to U.S. Department of Energy, Richland Operations Office.

LMD:mth

Attachment: Economical Protectiveness Evaluation Flowchart

Ecological Protectiveness Evaluation Flowchart



100 AREA / 300 AREA UNIT MANAGERS' MEETING

Groundwater/ Source Operable Units / Facility Demolition

June 8, 2006

ATTACHMENT 10

100 Area D4/ Interim Safe Storage (ISS) Status 6/8/06

Attachment 10

100 Area D4/ISS Status
June 8, 2006
100/300 Area Combined Unit Manager Meeting

100-N

- 108-N demolition continues
- 153-N load out of demolished facility debris continues
- 166N/ 1715N – Above grade structures have been demolished, the below grade soils paper is being prepared. The basis for deferral is the number of WIDS sites in the area associated with past fuel oil spills.
- 1313N/ 1314N – Planning continues, soils are within the same WIDS sites that 166N/ 1715N are located. Currently considering "piggybacking" approval to defer soils for 166N, 1715N, 1313N and 1314N.
- 163N/ 183N - Characterization continues. Discussions are ongoing with regards to characterization. Specifically, what actions will be taken to demonstrate that portions of the below grade structure are clean. The project is developing a path forward, and will consult with Ecology.
- → 107-N Waste Treatment Plan submitted to Ecology for review and approval and to EPA for review the week of 6/5/06.
- → Permit modification to delete permit conditions associated with the HGP facilities demolition was submitted to Ecology for review the week of 6/5/06.
- Maintenance activities are being planned for the storm water trench that runs along the western boundary at N.

ISS

- 100-K (balance of facilities) EE/CA will be formally transmitted to EPA within the next two weeks.
- Public comment period for K EE/CA runs from June 19 to July 18, 2006.
- Draft Action Memorandum for K is to be provided to EPA for review the week of August 7th.
- Draft RAWP for K is currently planned to be provided to EPA for review the week of October 11th.

100 AREA / 300 AREA UNIT MANAGERS' MEETING

Groundwater/ Source Operable Units / Facility Demolition

June 8, 2006

ATTACHMENT 11

300 Area D4 Status 6/8/06

300 Area D4 Status
June 8, 2006
100/300 Area Combined Unit Manager Meeting

Characterization/ Hazardous Material Removal

- **333** – Hazardous material removal is ongoing.
- **303-M** – Final bag house filters will be transported to ERDF for disposal next week.
- **3717** – Hazardous material removal is ongoing. Demolition is expected to begin in June.
- **305** – Characterization is completed. Hazardous waste removal is expected to begin in June.
- **3705** – Hazardous waste removal is ongoing.
- **3706** – Characterization is ongoing.
- **3708**- Characterization is completed.
- **303-C** – Characterization is ongoing.

Ready for Demolition

- **3717B** – Demolition is expected to be performed in June.

Demolition Completed

- **303-M** – March 2006
- **3707-D** – March 2006
- **303-B** – April 2006
- **3711** – April 2006. Foundation removed.
- **377** – June 2006
- **303-E** – March 2006
- **303-J** – March 2006
- **303-F** – April 2006
- **3746-D** – April 2006. Foundation removed
-

324/327

- *Action Memorandum #2 for the 300 Area* and the Waste Management Plan were approved by DOE and EPA on May 10, 2005.
- Awaiting EPA comments on SAP (hot cell appendix) and RAWP #2

Project Look Ahead

- DOE and EPA review of Draft Removal Action Work Plan #2 for the 300 Area – *requested completion date, June 2, 2006*
- DOE and EPA review of Draft EE/CA #3 for the 300 Area ongoing – *requested completion date, June 9, 2006*
- Public comment period for EE/CA #3 to start in July, 2006
- Comments/ approval for the 300 area D4 SAP (includes the hot cell appendix) is due.
- Meet with EPA to discuss proposed revisions to RAWP #1 for the 300 area facilities.
- **305-B** – Planned to complete RCRA TSD closure in June 2006.
- **303-M** – Expect Ecology approval to close the RCRA Part A upon disposal of the final bag house.

Regulatory Approvals:

- On May 17, 2006 received EPA approved to remove the MO-026 trailer in accordance with the 300 Area Action Memorandum #1. A copy of the approval will be provided for inclusion in the meeting minutes.

100 AREA / 300 AREA UNIT MANAGERS' MEETING

Groundwater/ Source Operable Units / Facility Demolition

June 8, 2006

ATTACHMENT 12

5/12/06 Email from James Golden (WCH) to Donna Yasek (WCH) documenting M0026 trailer regulatory decision for the 300 area.

Yasek, Donna M

From: Golden, James W
Sent: Wednesday, May 17, 2006 12:48 PM
To: ^WCH Document Control
Cc: Yasek, Donna M
Subject: FW: M0026 trailer

This email documents a regulatory decision for the 300 Area. Please provide a chron#

Thanks,
Jim

-----Original Message-----
From: Gadbois.Larry@epamail.epa.gov [mailto:Gadbois.Larry@epamail.epa.gov]
Sent: Wednesday, May 17, 2006 12:23 PM
To: Rudolph_F_Rudy_Guarcia@RL.gov
Cc: Golden, James W; Boyd.Alicia@epamail.epa.gov
Subject: M0026 trailer

Rudy:
The EPA has reviewed and considered the information provided to us for the M0026 trailer. EPA considers the trailer to be equipment associated with the facilities covered under Action Memorandum #1 for the 300 Area.
The trailer should be removed in accord with Action Memorandum #1. For example, waste generated from removal of the trailer and associated material should be considered CERCLA waste and disposed in ERDF provided it meets the ERDF waste acceptance criteria.

If you have any questions regarding this designation, please contact me at 509-376-9884.
--Larry Gadbois, acting for Alicia Boyd--

"Golden, James W" <james.golden@wch-rcc.com> 05/12/2006 08:43 AM

To: Larry Gadbois/R10/USEPA/US@EPA
cc: "Guercia, Rudolph F" <Rudolph_F_Rudy_Guercia@rl.gov>, "Golden, James W" <james.golden@wch-rcc.com>
Subject: FW: 4 trailers (3 at D and 1 at N)

Larry:

Thanks for developing a template. I believe it will help! As far as
M0026
goes, the contaminant of concern is uranium. The trailer supported the
3705
Photographic Services building; however, this building is not believed to be the source of the contamination. The trailer has become radiologically contaminated via biological transport of contaminated material via mud daubers. From what I recall mud daubers travel within a ~1/4 mile radius.
I have to agree with Duane that the radiological contamination probably originated in one of the fuel fabrication facilities which are ~400 feet away.

The fuel fab facilities (north of Apple Street), as well as, 3705 are covered under our existing approved CERCLA documentation (300 Area Action Memorandum #1). When we wrote the 300 Area #1 CERCLA documents, our "thoughts" were that the trailers were free of radiological contamination.

Let me know if this helps,
Jim
521-0877