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Meeting Minutes Transmittal/Approval
Unit Manager's Meeting: Remedial Action and Waste Disposal Unit/Source Operable Unit
3350 George Washington Way, Room 2D01 Richland, Washington
April 10, 1996

FROM/APPROVAL: [Signature] Date 4/24/96
Bryan Foley, 200 Area Unit Manager, RL (H0-12)

APPROVAL: [Signature] Date 5/4/96
Jack Donnelly, 200 Area Unit Managers Ecology (B5-18)

APPROVAL: [Signature] Date 5/18/96
Paul Beaver, 200 Area Aggregate Area Unit Managers, EPA (B5-01)

Meeting Minutes are attached. Minutes are comprised of the following:

- Attachment #1 - Agenda
- Attachment #2 - Attendance Record
- Attachment #3 - Meeting Summary/Summary of Commitments and Agreements



Prepared by: [Signature] Date 4/24/96
Joan Woolard, ERC (H0-17)

Concurrence by: [Signature] Date 4/24/96
Greg Eidam/Joan Woolard BHI Remedial Action Projects (H0-17)

**AGENDA - 200 AREA STRATEGY WORKSHOP
APRIL 10, 1996**

1. Introduction
 - 1- Participants Check-In
 - 2- Review Agenda
 - 3- Expectations
2. Field Trip Review
 - 1- Feedback
 - 2- Followup Work
3. Meeting Minutes Review and Sign-off
 - 1- Collect Comments
 - 2- Review Minutes to Get All Up to Speed
 - 3- Sign-off, if Appropriate
4. Strategy Outline Review
 - 1- Collect Comments
 - 2- Review Outline
5. Action Items
 - 1- Values: Collect, Discuss, Reach Consensus
6. Parking Lot Items
 - 1- Land Use
 - 2- 100 mrem/yr
 - 3- 200 Area Waste Disposal
7. Status of Waste Site Grouping Subteam
 - 1- Specific Waste Site Grouping for Characterization
 - 2- Remediation Groupings
 - 3- Priorities/Process
8. Characterization/Documentation/Prioritization
 - 1- Small Group Brainstorming
 - 2- Large Group Consolidation/Refinement/Development

200 Areas Strategy Meeting Grid

Participants	3/20/96 (mtg)	3/21/96 (mtg)	3/22/96 (mtg)	4/4,5,8/96 (char. grouping)	4/9/96 (tour)	4/10/96 (mtg)	4/18/96			
Bryan Foley	X	X	X	X	X	X				
Paul Beaver	X	X	X	X	X	X				
Dennis Faulk		X								
Joan Bartz	X	X	X			X				
Suzanne Dahl	X	X	X	X	X	X				
Jack Donnelly	X	X	X		X	X				
Alissa Huckaby	X	X	X							
Moses Jaraysi	X	X	X							
Dave Lundstrom	X	X	X		X					
Shri Mohan	X				X	X				
Laura Russell	X	X			X	X				
Joan Woolard	X	X	X		X	X				
Greg Mitchem	X	X	X		X	X				
Greg Eidam	X	X	X		X	X				
Mike Galgoul	X	X	X		X	X				

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200 Area Source Operable Units Strategy Workshop Continued
Meeting Notes
April 10, 1996

1.0 INTRODUCTION

This meeting was a continuation of the 200 Areas Strategy meeting held on March 20-22, 1996. Not all of the agenda items were addressed during the March meeting; specifically streamlining and prioritization of activities. The April 10, 1996, meeting was convened to work on these two topics and to address action items/parking lot items from the March meeting and other ongoing activities (see attached agenda).

2.0 FIELD TRIP FEEDBACK

The following are comments made by the workshop participants who attended the 200 Areas Tour on April 9, 1996.

- The ponds cover a very large area.
- Overall acreage occupied by the 200 Area waste sites (can we get to it all? - sinking feeling)
- Vadose zone contamination "Fingers" of contamination versus "Fronts" of contamination
 - Think "bigger area for identification of contamination" than one small sample
- The distinction between ditches versus trenches seems very confusing
- There are obvious waste-site areas that are out away from other facilities, obstructions, etc. (clutter). Other waste sites are located in congested areas.
- 200 N Area. Are there wells in the area and is there associated groundwater contamination?
- "Full" characterization and evaluate all "alternatives" will be overwhelming
- Many similarities exist between processes and within processes
- Integration with other programs will be needed
 - Tank farms, D&D, shadows of facility
- Infrastructure impediments for both characterization and remediation
- In some areas ditches were used until they reach their surface exposure limit, then another ditch would be dug right next to it
 - These multiple ditches can be treated as one for characterization (operational history is the same)
- Pipeline lengths are much greater than in the 100 Areas - could be problematic
- Focus on remediation of the perimeter locations to shrink the 200 Areas

Field Follow-On Work

Additional follow-on work is listed below:

- Is there 200 N groundwater contamination?
- Ditches versus trenches (and cribs; label open, closed, ????)
- Are any septic tile fields around Z Plant active?
- Why are contamination signs located around B and C lobe?
- Tour action items
- Waste-site groupings need field review to see how they fit (reality check)
- B/C controlled area "risk" with windy season coming up and other surface contamination issues in the 200 Areas

3.0 MARCH 1996 MEETING MINUTES REVIEW AND SIGN-OFF

The meeting minutes were reviewed and discussed. Minor changes were identified. The minutes will be ready for approval at the next scheduled meeting.

4.0 STRATEGY OUTLINE REVIEW

The strategy outline that was transmitted to the team last week for review was discussed. Comments were collected by Greg Mitchem. A revised outline will be provided for the April 18, 1996, meeting.

5.0 ACTION ITEMS FROM MARCH 1996 MEETING (consensus item)

An action item from the March 1996 meeting was to discuss the values that were generated during that meeting and to determine if there were new values that should be added. The team consensus was that the values would not become part of the 200 Areas Strategy document, but that we would include the following statement: "The group considered key public values previously identified in past public involvement activities."

6.0 PARKING LOT ITEMS FROM MARCH 1996 MEETING

The team discussed whether or not to include a land-use assumption for the strategy. Consensus could not be reached on this issue and it will be elevated to the three decision makers.

7.0 STATUS OF WASTE-SITE GROUPING SUBTEAM (consensus item)

Paul Beaver, Suzanne Dahl, Bryan Foley, and ERC staff participated in a subtask to group sites for characterization. The subteam came up with nine waste-site groupings based on the criteria developed during the March 20, 1996, meeting; the groupings are based on process. The attached tables describe the nine groupings and the associated waste sites within many of those groups. Table 1 is a chart that shows the nine subgroups. Table 2 identifies some subdivisions within six of the nine groups. Table 3 identifies the waste sites that belong in five of the nine groups. Additional work is required to identify sites for all groups. The entire strategy team reached consensus on the nine groupings. Remediation groupings were not further discussed.

8.0 PRIORITIZATION/IMPLEMENTATION

The strategy team broke into two groups: one to brainstorm priorities and the other to brainstorm streamlining the implementation/process steps. The following lists were generated by both teams.

Priorities for Characterization

- * • Impacts to groundwater: past and present
- * • Immediate future of groundwater impacts
- No characterization information
- Limited characterization information
- Not a well understood chemistry of environment and waste
- Minimum expected contamination; maximum area to be remediated
- High risk
- Low risk
- Long versus short half-lives
- Easier versus more difficult to characterize and/or remediate
- More mobile constituents versus less mobile constituents
- * • Sites subject to driving force
- Sites near perimeter of plateau versus core
- Expected near-surface sites
- Sites with contaminants that have identified potential treatability technologies associated with them
- Sites with current work plans
- Good candidate analogous sites
- Sites without analogous investigations completed
- Fill-in-the-gaps sites
- Group with largest geographic proximity

- Organics
- U
- Pu

Remedial Action Prioritization

- Outside in
- Easiest first
- High risk (unacceptable current risk)
- Current spreading of contamination (surface groundwater)
- Proximity to other facilities
- Interferences from ongoing activities and site infrastructure
- Efficiency through remediation of large geographic area
- Coordination of worker skills
- Coordination with other programs
- Early action
- In parallel with characterization

Implementation/Streamlining

- Two work plans per group for a total of 18 work plans (9 groups total)
- Divide work plans into subgroups within each grouping (could be more ≥ 18 work plans)
- One work plan per grouping (9 work plans total). Each work plan could have multiple sampling and analysis plans.
- Use Focused Feasibility Studies (FFS) with appendices with *Resource Conservation and Recovery Act of 1976* (RCRA) issues
- Implement interim remedial measures using Environmental Evaluations/Cost Analysis/Descriptions of Work for landlord (simple processes)
- Use Records of Decision (ROD)/permit modifications to get work done, versus document needed to end Remedial Investigation/Feasibility Study process
- Use focus sheets versus FFS
- Paradigm of *Comprehensive Environmental Response, Compensation, and Liability Act of 1980* (CERCLA) Operable Unit process with Treatment, Storage, and Disposal (TSD) closure may change due to new waste-site grouping; may be more efficient now (RCRA Past Practice [RPP] and TSD)

- Risk assessment done for groundwater protection if using *Model Toxics Control Act* (MTCA) for soil cleanup. Remedial Action (RA) is based on contaminants
- Use field screening to maximum extent, with limited laboratory analysis (use onsite lab, when possible)
- Maximize geophysical techniques
- Use of test pits may be more useful than boreholes for near-surface contamination
- Electronic work plan (save money)
- Electronic data evaluation (e.g., Hanford Environmental Information System [HEIS]/RA data)
- Work plans - multiple volumes or phase I, phase II (high/low)
 - Prioritize - one ROD for each group.

9.0 NEW ACTION ITEMS

The following documents action items identified during this meeting or the subtask of characterization groupings.

Characterization Grouping Actions

- How is first cycle supernatant related to high-level waste definitions? (ERC)
- Where did the muck removed from 361 tanks go? (ERC)
- Is A-39 in the tank farm? (ERC)
- Where is A-43 and A-44? (ERC)
- Is there a new 200 E Powerhouse Pond? (ERC)
- Need additional inventory information from the miscellaneous waste group sites to subcategorize.
- QA check on the waste-site type designations used in the grouping process (e.g., process condensate). Check with Stenner et al. (ERC)
- Capture grouping philosophy - Narrative from subteam (Suzanne and Paul)

April 10, 1996, Action Items

- Strategy document describe "linkage" of final grouping criteria statements
- Provide adequate explanation of flowchart in strategy document

- Prepare participants grid for all the meetings
- Close out characterization waste site grouping open items
- Get the meeting minutes from this meeting out early
- Each team member to review lists generated in Section 8.0 to come up with additional brainstorming ideas on implementation and prioritization. These should be sent to Joan Woolard before the meeting.
- Submit revised annotated outline before meeting.

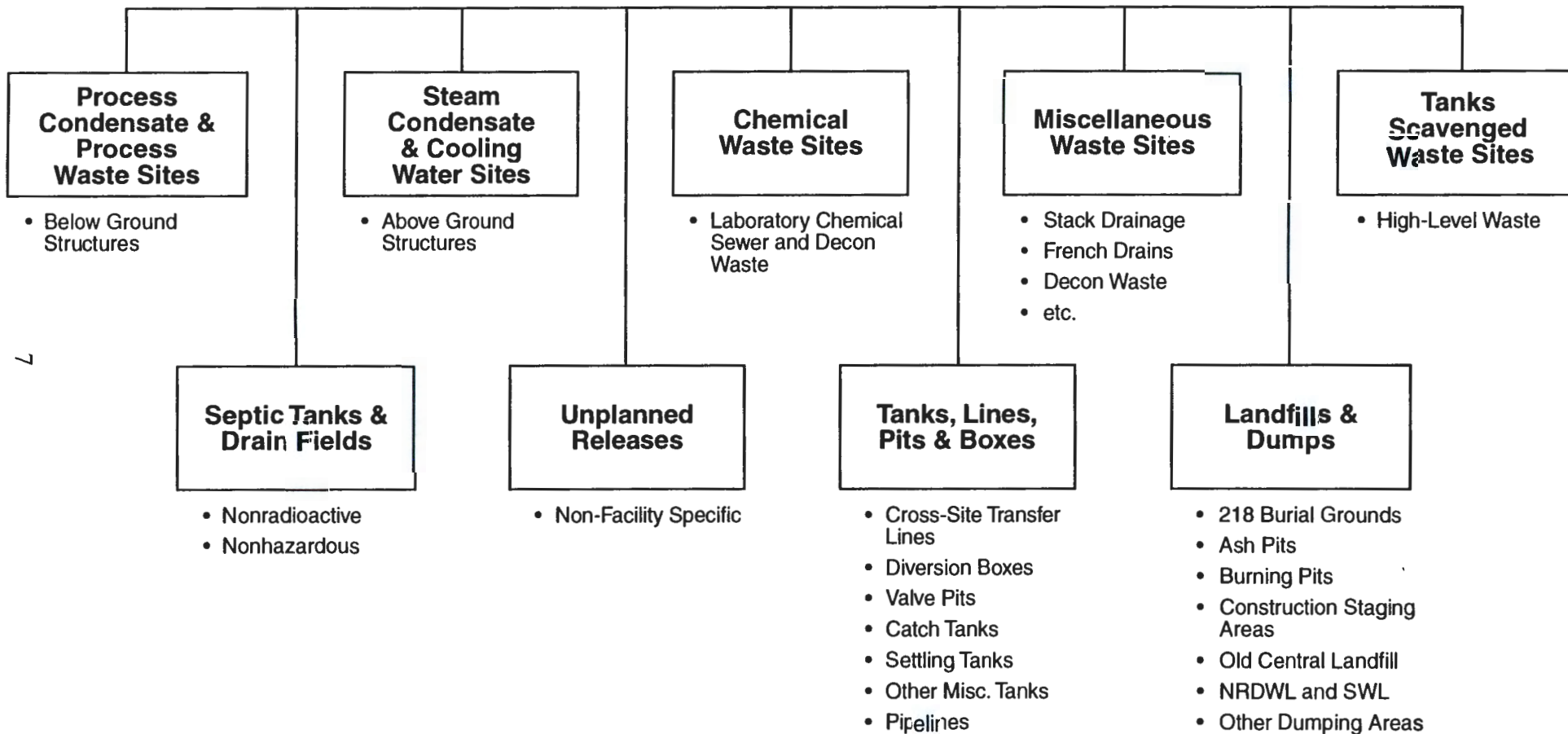
10.0 AGENDA FOR APRIL 18, 1996, MEETING

Group lunch; time limit for parking lot issues; team building 1 hour maximum.

Agenda

- Consensus on annotated outlines
- Strategy writing - identify team to write draft sections
- Consolidate/refine - implement/priorities
- Apply prioritization process for the nine groupings
- Parking lot issues - at end of day
- Land use - Dave or Jack and Paul discuss findings
Consensus on assumption or delete it.

200 Area Source Waste Site Groups



Excluded: Single and Double Shelled Tanks, Everything Within Tank Farm Fences and Ancillary Facilities.

Workshop characterization = process type, contamination type, and waste site type (crib, trench, etc.).

We systematically went through every Source Aggregate Area Management Study Report (Purex, B Plant, S Plant, etc.) and other sources. We looked at each waste site for the following:

- Description of where the waste came from (process or processes responsible)
- Type of contaminants discharged (inventory history)
- Type of waste site
- Looked at volume of liquid discharged.

Six major categories were developed for these waste sites to be grouped under. The major categories are as follows: Process Condensate/Process Waste (under ground), Steam Condensate/Cooling Water (above ground), Chemical Lab Waste, Miscellaneous (Stack drainage, French drains, Decon), Tank/Scavenged Waste, and Burial Grounds.

We looked at contaminant type within each major category (organic, acidic, uranium, plutonium, inorganic, etc.). We were able to make some further divisions in some of the major categories, but not all.

Process Condensate/Process Waste (under ground)

organic
plutonium/americium
uranium
other (process related)

Steam Condensate/Cooling Water (above ground)

geographic
process similarity

Chemical Lab Waste

200 Area waste
300 Area waste
lab decon

Miscellaneous (Stack drainage, French drains, Decon)

needs more work

Tank/Scavenged Waste

scavenged waste
first cycle supernate
plutonium
tank waste not scavenged (cascade)

Burial Grounds

- 218 burial grounds
- ash pits
- burning pits
- construction laydown areas
- NRDWL/SWL
- old central landfill

Every waste site identified was grouped under one of the major six groups and, when possible, grouped under the subgroups within the major group.

LIQUID WASTE SITE GROUPINGS

Process Condensate/ Process Waste	Steam Condensate/ Cooling Water	Chemical Waste	Miscellaneous Waste	Tank/Scavenged Waste
B-9, B-11A & B	B-2, B-3	B-4, B-6, B-10A&B	B-13	B-5 ^{TRU,GW} , B-42
B-12, B-57, B-59, B-62	B-3 Pond System	T-2, T-8, T-34, T-35	B-56 & B-61 ^{Not used}	B-43 thru B-49
B-55 & B-60 (higher activity)	B-63 ^{Chem Sewer}	T-2-8	T-9, T-10, T-11, T-12	B-14 thru B-34 ^U (BC)
T-6, T-19 T-25 ^{U, Pu}	207-B	U-4, U-4A & -4B	T-13, T-29, T-33	B-7A&B, B-8
U-1&2 ^U , U-3, U-5 ^U	T-1 ^{Chem Sewer}	S-20, S-26	W-LWC	B-35 thru B-41 (1st cycle)
U-6 ^U , U-7, U-8 ^U , U-12 ^U	T-4-1 & -2 P&Ds	A-2 ^O , A-4	U-13	B-52
U-15 ^O , U-16, U-17	200W Powerhouse Pond		S-12	T-3 ^{TRU} , T-5, T-7
S-21	U-9, U-10, U-11		Z-8, Z-13, Z-14, Z-15	T-14 thru T-17 (1st Cycle)
S-1&2, S-3, S-4	U-14 ^U		A-11 thru A-17, A-21	T-18, T-32
S-7, S-8, S-9, S-13 ^O	Z-1D, Z-11, Z-19		A-22, A-23A & B	T-21 thru T-24
S-14 ^O , S-15 ^O (Prox. to S- 3) S-22, S-23, S-25	207-U		A-26A & B, A-27, A-28	T-26, T-27, T-28
Z-1 ^{Pu} , Z-1A ^{Pu} , Z-2 ^{Pu}	S-5 & S-6 (prox. to P&D)		A-32, A-34, A-35, A-41	T-32
Z-3 ^{Pu} , Z-9 ^{Pu} , Z-12 ^{Pu}	S-10 P&D, S-11		A-33 & A-38 ^{Not used}	B-51 ^{BC Pipeline Flush}
Z-18 ^{Pu} (PFP Source)	S-16 P&D, S-17 P&D		299-E24-111	B-53A&B, B-54
Z-4, Z-5 ^{Pu} , Z-6, Z-6A	S-19		C-2, C-7, C-8	B-58 (BC; Pu recycle test reactor waste 300 Area)
Z-7 ^{Pu} (300A Waste)	207-S		Gatehouse French Drains	
Z-10, Z-16, Z-17 (Z-231 Source)	Z-1, Z-11, Z-19		Criticality Mass Dry Wells	
C-1, C-3, C-4 ^O	Z-20*, Z-21		BC Control Area	
C-5, C-6, C-10	207-Z		UN-200-E-38	
A-1 ^{U?} , A-3 ^U , A-5, A-6	N-1, N-2, N-3, N-4			
A-7, A-8 ^{U?} , A-9 A-10 ^{U?}	N-5, N-6, N-7, N-8			
A-18 ^U , A-19 ^U A-20 ^{U?}	A-25, A-29, A-40			
A-24, A-30 A-31 ^O	A-42			
A-36A ^{Hot&B}	C-9			
A-37-1&2, A-45	200E Powerhouse P&D			

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Table 3

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Distribution
Unit Manager's Meeting: 200 Area Remedial Action
200 Area Remedial Action Strategy Work Shop
April 10, 1996

Bryan Foley	DOE-RL (H0-12)
Jim Hanson	DOE-RL (H0-12)
Donna Wanek	DOE-RL (H0-12)
Beth Ward	DOE-RL (H0-12)
Dennis Faulk	EPA (B5-01)
Paul Beaver	EPA (B5-01)
Joan Bartz	WDOE (Kennewick)
Suzanne Dahl	WDOE (Kennewick)
Alisa Huckaby	WDOE (Kennewick)
Moses Jaraysi	WDOE (Kennewick)
Dave Lundstrom	WDOE (Kennewick)
Shri Mohan	WDOE (Kennewick)
Laura Russell	WDOE (Kennewick)
Jack Donnelly	WDOE (Kennewick)
Greg Eidam, BHI	ERC (H0-17)
Karl Fecht	ERC (H0-02)
Linda Mihalik	ERC (H9-12)
Greg Mitchem	ERC (H0-17)
Michael Galgoul	ERC (H9-12)
Joan Woolard	ERC (H0-17)
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