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0015165

November 19, 1991

Meeting Minutes Transmittal/Approval
1100-EM-1 Operable Unit Managers Meeting
450 Hills St., Richland, Washington
October 17, 1991

FROM/APPROVAL: Robert K. Stewart Date 11/20/91
 Robert K. Stewart, 1100-EM-1 Operable Unit Manager (DOE-RL)

APPROVAL: David B. Egan Date 20 Nov 91
 Dave Egan, 1100-EM-1 Unit Manager, EPA

APPROVAL: Richard Hibbard Date 11/20/91
 Richard Hibbard, 1100-EM-1 Unit Manager, WA Department of Ecology

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

- Attachment #1 - Meeting Summary/Summary of Commitments and Agreements
- Attachment #2 - Attendance List
- Attachment #3 - Agenda For 1100-EM-1 Meeting
- Attachment #4 - Action Items Status List
- Attachment #5 - Schedule
- Attachment #6 - Map of Well Locations
- Attachment #7 - EMI Quadrature Map for HRL and Geologist's Logs for HRL Test Pits
- Attachment #8 - Procedure Change Authorization, #DD-00044
- Attachment #9 - Letter regarding Revision of RI Phase II Supplemental Work Plan
- Attachment #10 - Approved Document Change Control Form, #1100-EM-1-001

PREPARED BY: Wanda Feltz Date 11/20/91
 SWEC Support Services

CONCURRENCE BY: Wanda Feltz Date 11/20/91
 WHC RI Coordinator



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1100-EM-1 Unit Managers Meeting
October 17, 1991

Distribution:

Chuck Cline, WDOE
Ward Staubitz, USGS
Mike Thompson, DOE-RL (A6-95)
Mary Harmon, DOE-HQ, (EM-442)

John Stewart, ACE
Linda Powers, WHC (B2-35)
Tom Wintczak, WHC (B2-15)
Mel Adams, WHC (H4-55)
Steven Clark, WHC (H4-55)
Brian Sprouse, WHC (H4-22)
Diane Clark, DOE-RL (A5-55)
Bill Price, WHC (S0-03)
Don Kane, Battelle EMO (K1-74)
Donna Lacombe, PRC
Jim Patterson, WHC
Michael Beavers, WHC (G1-66)
Earl Oxford, WHC (G4-11)
David Pabst, WHC (B2-35)

Ronald D. Izatt (A6-95)
Director, DOE-RL, ERD
June M. Hennig (A5-21)
DOE-RL, WMD
Roger D. Freeberg (A6-95)
Chief, Rstr. Br., DOE-RL, ERD
Steven H. Wisness
TPA Proj. Mgr.
Richard D. Wojtasek (B2-15)
Prgm. Mgr. WHC

Dave Einan, EPA (B5-01)

Chuck Malody, ANF
Don Praast, GAO (A1-80)

ADMINISTRATIVE RECORD: 1100-EM-1; Care of Susan Wray, WHC (H4-51C)

Please contact Doug Fassett if there are any deletions or additions to this list.

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Attachment #1

Meeting Summary and Summary of Commitments and Agreements

1100-EM-1 Unit Managers Meeting
October 17, 1991

1. **Schedule:** John Stewart (USACE) began the meeting by presenting the 1100-EM-1 schedule (see Attachment #5). Mr. Stewart said the schedule was tight and a delay in almost any activity could turn into a one- to two-week delay of the critical path.
2. **Groundwater Sampling:** Wendell Greenwald (USACE) stated that the *groundwater validation report for the 5th and 6th round* would be distributed to the regulators and to Siemens Nuclear Power (SNP) within a few days of this meeting. It will take eight weeks to do the technetium analyses *for the August and September samples* with some quantification of the results. *If technetium is not the principal contributor to the gross beta, a second phase of speciation to identify the beta emitter will be required, and it will take another eight weeks.*
3. *To avoid prolonged delays caused by waiting for the phase II speciation,* Wendell Greenwald proposed additional speciation be performed for a few selected samples from wells with historically high beta counts (see Attachment #6). The wells where this analysis would be appropriate are MW-11, MW-12, and the SNP wells. Further speciation would be performed on four samples. John Stewart requested approval to proceed with the additional speciation of samples from the proposed wells. USACE will meet with the regulators and DOE on October 18, 1991, at 1:30 p.m. at the EPA offices to determine which wells would be used for full speciation.
4. **HRL Test Pits:** Wendell Greenwald updated the status of the Horn Rapids Landfill test pits. *The XR-F has shown some higher than background amounts of zinc and iron in some of the test pits.* Test pits #7, #3B, #1, and #11 have been started. The geologist's logs for the test pits are included in the minutes as Attachment #7.

- test pit #7 - stopped at 3 feet due to asbestos encountered
- test pit #3B - stopped at five feet due to asbestos
- pit contained paint cans and lids
- test pit #1 - completed to the full depth of 10 ft.
- paint encountered
- OVA readings of 262 ppm at the surface of paint
- test pit #11 - completed to full depth of 5 ft.
- no asbestos encountered

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- 9 3 1 2 4 1 0 3 1 7 7
5. **Change Control Form:** The change control form for the field procedures governing asbestos handling is included in the minutes as Attachment #8. *This is a change from the test pit depths agreed to at the July 25, 1991 meeting between DOE and the regulators and from earlier agreements regarding the disposition of the investigation derived wastes.*
 6. Water is being applied during excavation of the test pits to control air emissions of asbestos. Water is also being applied to the spoil pile to prevent it from drying out. *Wendell Greenwald estimated that a minimum of 4,000 gal/day is being used for all of the test pits. Dave Einan (EPA) expressed concern about the amount of water being used and the runoff into the test pits. Mr. Greenwald said that to *prevent visible* emissions to protect the health of workers the asbestos and soil must be wetted.
 7. **SNP Status:** Susan Keith (SNP Support) gave an update on the status of the SNP remedial investigation (RI) work at 1100-EM-1. The comments on Phase I Groundwater Sampling Plan will be transmitted by letter. SNP began drilling the first two wells on October 15, 1991. These are the upgradient wells in the south and southwest parts of the study area. The first well was drilled to about 30 ft. to define the depth of the silt aquitard. SNP is using the Odex drilling method and is putting in two groundwater monitoring wells per day to a depth of 30-35 ft. The wells are two inches in diameter and have stainless steel casings in the water table and plastic casings elsewhere.
 8. **Land Use and Risk Assessment Status:** DOE will be sending a letter to the regulators to indicate the DOE position on land use issues and to reserve the right to go to the dispute resolution process on disagreements. Dave Einan stated that EPA may choose not to respond to the letter.
 9. **Supplemental Work Plan Revision:** A meeting was scheduled for October 31, 1991, at 1:00 p.m. to discuss the update to the RI Phase II Supplemental Work Plan (see Attachment #9).
 10. **Phase I and II FS Status:** A meeting was scheduled for October 31, 1991, from 1:00 to 3:00 p.m. to discuss the comments on the Phase I and II FS Study with the regulators and SNP. John Stewart stated that USACE would prepare a list of what work plan activities would and would not be done. Mr. Stewart said the list would be ready prior to or at the October 31, 1991 meeting.
 11. The approved Document Change Control Form was signed by EPA at this meeting (see Attachment #10).

* A comment was made after the meeting to complete this statement to read: Wendell Greenwald estimated that a minimum of 4,000 gal/day is being used for *all the project, including dust control on roads.*

Action Items Status Update - also see Attachment #4

- 11EM1.55 Open; a letter will be drafted to transmit the report.
- 11EM1.64 Open; a meeting will be scheduled after the groundwater summary report is received.
- 11EM1.65C Closed
- 11EM1.65D Closed; this action item was replaced with 11EM1.65E.
- 11EM1.85 Closed; the meeting was canceled by the regulators. (9/19/91)
- 11EM1.88 Closed; Ward Staubitz met with Golder on 9/20/91.

Action Item #11EM1.65E: USACE will work with the sitewide monitoring program to develop an overall disposition plan for developing a monitoring plan for the 1100-EM-1 wells. This will be discussed with Siemens, EPA, Ecology, and the city of Richland. Action: John Stewart and Wendell Greenwald (10/17/91)

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Attachment #2

Attendance List
1100-EM-1 Unit Managers Meeting
October 17, 1991

Name	Organization	1100-EM-1 Responsibility	Phone
Stewart, Robert	DOE-RL	Unit Manager	409-376-6192
Cline, Chuck	Ecology	Geohydrology	206-438-7556
Cross, Steve	Ecology	CERCLA Unit	206-459-6615
Mullen, Richard	PMX	Ecology Support	206-455-2550
Greenwald, Wendell	USACE	Tech. Manager	509-386-9504
Stewart, John	USACE	PM	509-376-9101
Bushnell, Kristina	USACE	Corps Support	509-522-6834
Foote, Alden	USACE	Env. Eng. Br.	509-522-6870
Remington, Mike	USACE	Safety	509-522-6782
Lacombe, Donna	PRC	EPA Contractor	206-624-2692
Staubitz, Ward	USGS	EPA Support	206-593-6510
Drost, Brian	USGS	EPA Support	206-593-6510
Clark, Steve	WHC	Env. Engr.	509-376-1513
Pabst, David	WHC	TPA I/F	509-376-9048
Patterson, Jim	WHC	ER Programs	509-376-0568
Kessner, Joan	WHC	OSM	509-373-3507
Lerch, Jeff	WHC	OSM	509-373-3419
Knox, Kathy	CNES	GSSC, DOE-RL	509-376-5011
Fryer, Bill	SWEC	GSSC, DOE-RL	509-376-9830
Shigley, Diane	SWEC	GSSC, DOE-RL	509-376-5038
McClung, Bill	SWEC	GSSC, DOE-RL	509-376-1853
Minor, Doris	Siemens	Reg. Support	206-633-3208
Keith, Susan	GM for SNP		206-869-6321
Malody, Chuck	Siemens		509-375-8537

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AGENDA FOR 1100-EM-1 UNIT MANAGERS MEETING

October 17, 1991
7:30 to 9:30 am
450 Hills St./Rm. 47

- 07:30 - 07:35 Introduction
- 07:35 - 07:45 Overall Project Status
- 07:45 - 08:20 Field Work Progress
- Ground Water Sampling
 - Status of Analysis for August and September Sampling
 - Validated Data Report for 1st and 2nd round 1991
 - HRL Test Pits
 - Status and Summary of Material Excavated
 - Excavation of Asbestos
 - Agreements on Scope of Work (Change Control Form)
- 08:05 - 08:20 Siemens Nuclear Power Corporation Status
- 08:20 - 08:30 Land Use and Risk Assessment Status
- 08:30 - 08:40 Supplemental Work Plan Revision
- 08:40 - 08:50 Phase I & II Feasibility Study Status
- 08:50 - 09:30 Action Item Status

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Actions Items Status List

1100-EM-1 Operable Unit
October 17, 1991

Item No.	Action/Source of Action	Status
11EM1.55	WHC will review the Well Inventory Report to determine if the report is sufficient to send to the City of Richland and obtain an opinion from WHC Legal on the release. Action: Steve Clark (1/23/91, EM1-UMM)	Open. Draft a letter to transmit the report.
11EM1.64	Schedule a meeting with the City of Richland in mid-April to brief the city on the groundwater investigation and monitoring results, as they pertain to the city well field. ANF should be apprised of these activities. Action: Bob Stewart (DOE-RL), John Stewart (USACE), and Steve Clark (WHC) (3/20/91)	Open. Will be scheduled after ground water summary report received.
11EM1.65C	Dave Einan (EPA) will provide information regarding sampling and analysis for vinyl chloride, and investigate the handling of vinyl chloride issues on other EPA Region 10 sites. Action: Dave Einan (EPA) (3/1/91)	Open.
11EM1.65D	Contact appropriate DOE-RL and WHC personnel to investigate the possibility of having wells S37-E14, S40-E14, S41-E13A, S41-E13B and S43-E12 monitored under the site-wide monitoring program per section 2. Action Bob Stewart (DOE-RL) and Steve Clark (WHC) (3/1/91)	Open. Meeting W/ Site-Wide Monitoring on Sept. 27, 1991.

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Item No.	Action/Source of Action	Status
11EM1.72	Investigate use of the C-018 Water Treatment Facility to treat contaminated groundwater from the HRL plume. Action: Bob Stewart (5/24/91) - Wendell Greenwald (6/20/91).	Closed.
11EM1.85	Information on cost, schedule, and other constraints associated with technetium analyses is to be provided to the regulators. The information is to be provided in a meeting on Wednesday, August 21. Action: Wendell Greenwald (8/14/91).	Closed. Meeting canceled by Regulators
11EM1.86	EPA is to determine whether or not a notice is required 45 days before excavation begins on the test pits. The requirements for handling material excavated from the asbestos trench will also be determined. Action: Dave Einan (8/14/91).	Closed. Memo delivered Sept. 4, 1991.
11EM1.87	USACE and WHC are to provide to the regulators the strategy for handling decon water related to excavation of the test pits. The strategy will also be attached to the September UMM minutes. Action: Wendell Greenwald (8/14/91).	Closed.
11EM.88	Arrange a meeting between Golder and the regulators (Ward Staubitz) to review the latest geophysical survey. Action: Wendell Greenwald (9/18/91).	Open. Meeting on Sept. 20, 1991.

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OPEN PLAN 00
 Reports: GRAFBAR 1
 Project: 1600EM1A
 Time Now: 1700T04
 Date: 1000T04
 Time: 12:00:40
 Page: 1

1100-EM-1 Operable Unit RI/FS Progress

Walls Walls
 District.
 Corps of
 Engineers

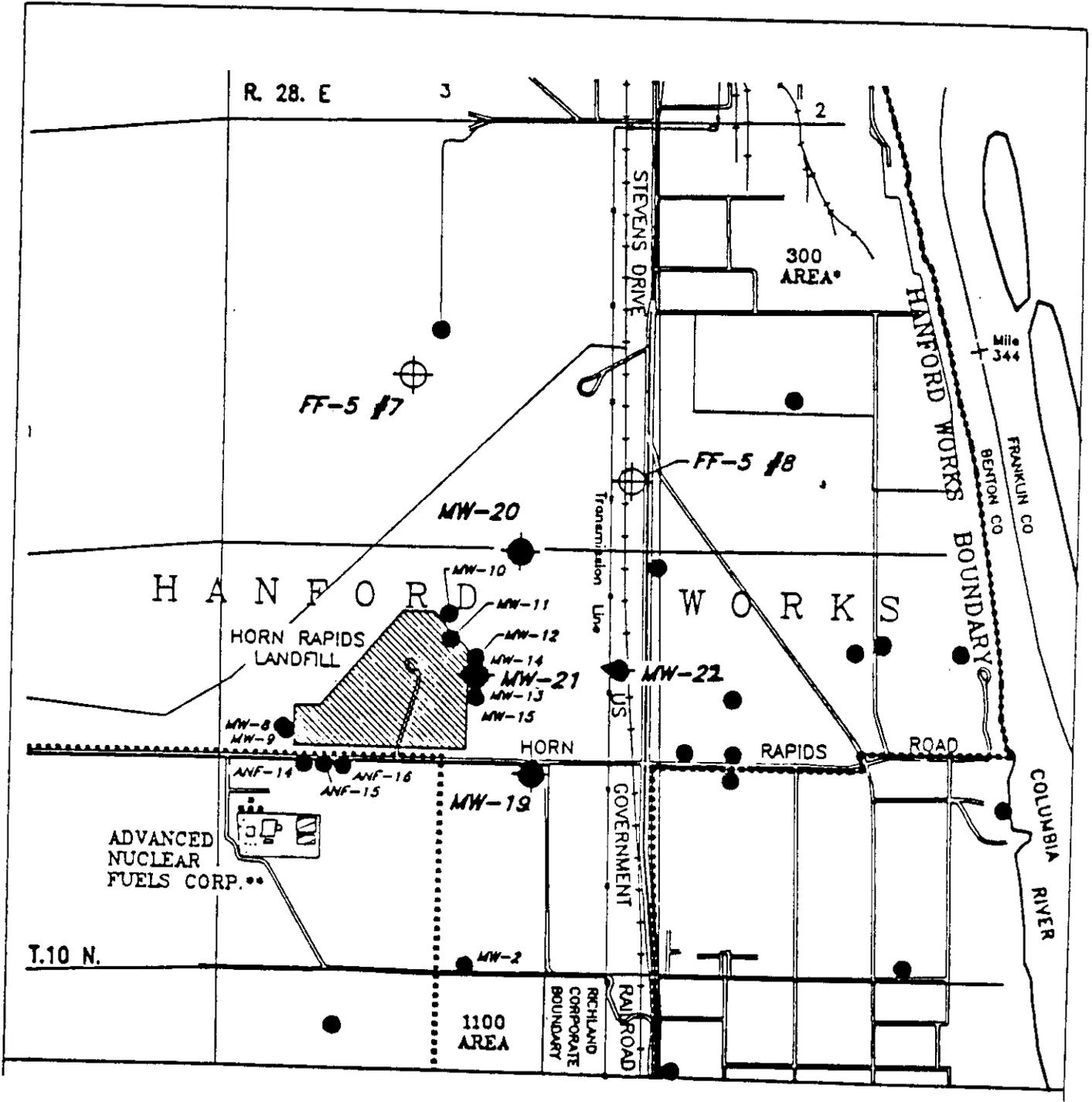
ACTIVITY	01 APR 91	01 JUL 91	01 OCT 91	01 JAN 92	01 APR 92	01 JUL 92	01 OCT 92	01 JAN 93
GW01	← Timendw							
GW02	MONITORING WELL INSTALLATION *COMPLETE*							
GW03	Coordinate Drilling *COMPLETE*							
GW04	Install FF-5 Wells No. 7 & 8 *COMPLETE*							
GW05	Install MW-19 thru MW-22 *COMPLETE*							
GW06	GROUNDWATER SAMPLING *COMPLETE*							
GW07	August Sampling *COMPLETE*							
GW08	Sample Analysis - August							
GW09	Sample Validation - August							
GW10	September Sampling *COMPLETE*							
GW11	Sample Analysis - September							
GW12	Sample Validation - September							
GW13	Summary and PARCC Evaluation							
VZ01	COMPILE & QUALIFY ANF GW DATA							
VZ02	GEOPHYSICAL INVESTIGATION *COMPLETE*							
VZ03	Safety Documentation *COMPLETE*							
VZ04	Field Work *COMPLETE*							
VZ05	Preliminary Report *COMPLETE*							
VZ06	Review Draft Report *COMPLETE*							
VZ07	BURIED TRENCH INVESTIGATIONS *COMPLETE*							
VZ08	Preparation for Field Work *COMPLETE*							
VZ09	Safety Documentation *COMPLETE*							
VZ10	Field Work							
VZ11	Sample Analysis							
VZ12	Sample Validation							
ZRPT01	Report							
ZRPT02	FINAL RI/FS REPORT *COMPLETE*							
ZRPT03	Dev Vadose Zone Concept Model							
ZRPT04	Dev GW Conceptual Model							
ZRPT05	Resolve Land Use Dispute							
ZRPT06	Fate and Transport Analysis							
ZRPT07	Risk Assessment (???)							
ZRPT08	Develop Contaminants of Con							
ZRPT09	Develop Remedial Action Obj							
ZRPT10	Dev. Screen. & Evaluate Alts							
ZRPT11	Write Final							
ZRPT12	Proposed Plan							
ZRPT13	CEMPC Review and Cmt Resolutn							
ZRPT14	CEMPC Review and Cmt Resolutn							
ZRPT15	Document Clearance							
ZRPT16	DOE-HQ Review and Cmt Resolutn							
ZRPT17	SUBMITTAL TO REGULATORS/DOE-RL							
ZRPT18	Signatures							

Legend
 [Symbol] - In progress
 [Symbol] - Planned
 [Symbol] - Critical
 [Symbol] - Baseline

Bar Chart Key: Early Dates against Baseline

Prep: _____
 Apprv: _____

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ADVANCED NUCLEAR FUELS CORP.**

HANFORD WORKS

HORN RAPIDS LANDFILL

HORN RAPIDS ROAD

HANFORD WORKS BOUNDARY

COLUMBIA RIVER

STEVENS DRIVE

Transmission Line

US GOVERNMENT

RAIN ROAD

1100 AREA

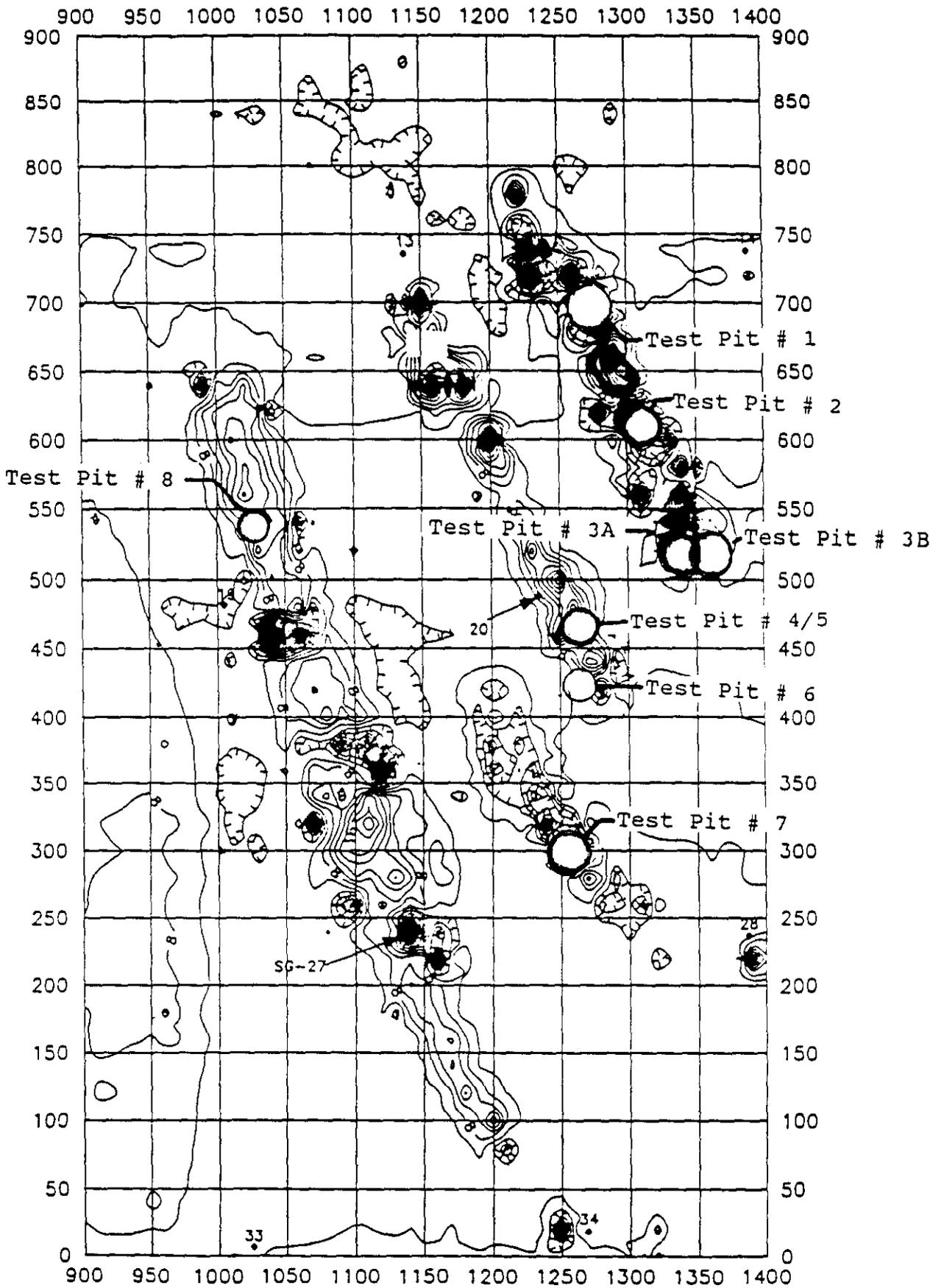
300 AREA*

Mile 344

FRANKLIN CO BENTON CO

R. 28. E

T.10 N.



Test Pit Locations for Horn Rapids Landfill Characterization
(EMI Quadrature Map)

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BOREHOLE LOG

Boring or Well No trunk #1 test pit
 Sheet 1 of 2

Location Hon Kupa's Landfill Project 1102 E17-1
 Elevation NA Drilling Contractor NA
 Driller C. Larson, bulldozer operator Drilling Method and Equipment Crow Buck 1700 780 40-62-5531
 Logged By _____ Date _____ Checked By _____ Date _____

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Depth (ft)	Sample		Graphic Log	Sample Description Soil Classification, Particle Size Distribution, Color, Moisture Content, Sorting, Angularity, Mineralogy, Reaction to HCl.	Comments Depth of Casing, Drilling Rate, Casing Size & Type, Bit Size, Water Level
	Type and No.	Blows or Recovery			
1				Sandy Gravel sand 43% gravel 52% silt 5% sand; 90% JCS, 0.5'-2.0' ss shavings; 10% m.s., subangular; 50% matrix ss. 4.0' hollow pipe; 50% felsic gravel; v.f. pebble 30% cable to mud, pebble 70%; rounded to subrounded; 55% felsic; 45% matrix; poorly sorted; NO reaction to HCl. 10ypt/2	
2	NA				
3					
4	NA				3.0'-10.0' large amounts of S.S. shavings pulled out of hole and set aside. Tires observed like little. Refer to photos on p. 5 of logbook WMC-N-376 2
5	(4.0' Shavings, 100% 4'-5'				
6	NA				6.0'-10.0' tires rotten drum was encountered with no visible contents. The drum was labeled "certified"
7					Plastic bags ~ 70' Tires rotten cap. full of sawdust

PROCEDURE CHANGE AUTHORIZATION		Impact Level 3	PCA No. DD-00044	Page 1 of <u>4</u>
PROCEDURE DWP-R-026-00013 A-0 <small>No. Rev/Mod Type</small> <hr/> <small>Time</small>		PCA EFFECTIVE DATE <hr/> PCA EXPIRATION DATE <hr/>		
FACTORY 1100-EM-1 Horn Rapids Landfill Controlled Location Codes Where PCA does <u>not</u> apply.		PCA TYPE <input type="checkbox"/> Supersedure <input type="checkbox"/> PCA Continuation sheet attached <input type="checkbox"/> Temporary <input type="checkbox"/> Annotated pages attached <input checked="" type="checkbox"/> Permanent <input type="checkbox"/> Annotated document attached		
INITIATED BY Wendell Greenwald/Merl Lauterbach <small>Name</small> Tech Coordinator / 1100 Area Manager <small>Title/Organization</small> USACE / Env. Engrg. 376-9698 <small>Phone</small>		REASON FOR CHANGE <p>Change 1 is required because of recent agreements with Environmental Health Physi regarding HPT monitoring of the site. Continuous monitoring is no longer necessary.</p> <p>Change 2 is required to allow for the eventual disposal of asbestos encountered during excavation at the site.</p> <p>Change 3 is required to avoid confusion over whether the 90 day time limit for temporary storage of hazardous waste is applicable to decontamination fluids.</p> <p>Change 4 is required because of recent geophysical survey work and agreements with the regulators regarding depth of excavation for the test pits.</p> <p>Change 5 is required to accommodate the excavation of asbestos material.</p>		
APPROVAL <i>Wendell Greenwald</i> <u>27 Sept-91</u> <small>Cognizant Engineer</small> <small>Date</small> <i>M.A. Adams</i> <u>9/27</u> <small>Cognizant Engineer's Manager</small> <small>Date</small>				
<small>Technical</small> <small>Date</small> <i>[Signature]</i> <u>9-30-91</u> <small>Quality Assurance</small> <small>Date</small>				
<small>Safety</small> <small>Date</small> <i>[Signature]</i> <u>10-1-91</u>				
OPTIONAL APPROVAL <input type="checkbox"/> Safeguards Material Control <small>Date</small> <input type="checkbox"/> Operations Support Services <u>10/2/91</u> <small>HANFORD FIELD OPERATIONS</small> <small>Date</small>				
FINAL APPROVAL <small>Approval Authority</small> <small>Date</small>		WORK COMPLETION/CANCELLATION DUE TO <input type="checkbox"/> Work Completed (prior to expiration) <input type="checkbox"/> Other - Explain:		
<small>Operational/Title</small> <small>Date</small> <small>Technical/Title</small> <small>Date</small>		SIGNATURES <hr/> <hr/> <hr/> <hr/>		
DISTRIBUTION: Engineering Configuration Management <small>(for SOPs, JPAs, POPs only)</small> Manager, Technical Component QA Representative		Information Copies <hr/> <hr/> <hr/> <hr/>		

PROCEDURE CHANGE AUTHORIZATION

Impact Level

PCA No

3

DD-00044

Page 2 of 4

DESCRIPTION OF CHANGE (page no/step no /change)

CHANGE 1:

Section 9.3 shall be changed to indicate that samples for radiological monitoring will be collected at regular intervals, at a minimum of every tenth backhoe bucket. Radiological screening will be performed on these samples during the normal schedule of monitoring by the HPT (once in the morning and once in the afternoon).

CHANGE 2:

Upon completion of the test pit, a minimum of 9 inches of crushed rock shall be placed over the surface of the test pit (this will meet the requirements of 40 CFR 61.151 as requested by EPA). This crushed rock shall be equivalent to the "1-1/4 inch minus crushed roadbase" material available from ACME Materials & Construction Co., 955 Lacey, Richland.

CHANGE 3:

The term hazardous (in suspected hazardous waste) shall be changed to unknown in section 10.5.1.

CHANGE 4:

The table shown in Section 8.2 and on the comments portion of the Document Acceptance Review form shall be changed to the following:

<u>Test Pit #</u>	<u>Depth (ft)</u>
1	8-10
2	no excavation
3A	20
3B	6
4/5	12
6	10
7	6
8	5
11	5

The order of excavation, originally shown in the table, will no longer be applicable.

CHANGE 5:

5.1 An operational zone, identified as an Asbestos Regulated Area (ARA), shall be established by the Field Team Leader (FTL) around the excavation prior to removal of asbestos contaminated materials (ACM). The ARA shall conform to the requirements of the Hazardous Waste Operations Permit (HWOP).

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PROCEDURE CHANGE AUTHORIZATION

Impact Level

3

PCA No

DD-00044

Page 3 of 4

DESCRIPTION OF CHANGE (page no /step no /change)

5.2 The Site Safety Officer (SSO) shall be responsible for site air monitoring and personal air monitoring as required by the HWOP.

5.3 Removal of asbestos shall not proceed until an ARA is established and the ACM are thoroughly wetted. The water used for wetting the asbestos shall be mixed with a surfactant (amended) which is approved by the SSO.

5.4 Water shall be applied to the excavation surface as a fine mist. Water shall not be applied in a stream or deluge fashion.

5.5 The amount of water applied shall be varied to control the depth of saturation and prevent exposure of non-wetted ACM and generation of visible emissions.

5.6 Wetted ACM removed from the test pit shall be stockpiled on reinforced polyethylene sheeting within the ARA. The FTL shall designate persons working within the ARA who will inspect the material as it is removed from the test pit and apply water to surface material in the stockpile which is not adequately wetted.

5.6.1 The residual overflow accumulation of amended water and small floating debris shall be contained on sheeting or channeled back to its original test pit. This residual shall not come in contact with the soils until it physically enters the original test pit. As necessary, the FTL shall direct the excavation of channels to convey the residual water back to the test pit. These channels shall be lined with polyethylene sheets.

5.6.2 The stockpile shall be maintained in a wetted condition by continuing the application of water as necessary and covering the stockpile with plastic sheeting. Only that portion of the stockpile being actively added to or removed shall be uncovered. Individual sheets of plastic shall be overlapped a minimum of 4 feet. The plastic sheeting shall be anchored securely to the stockpile with ropes or weights to the satisfaction of the FTL or certified asbestos supervisor. The type of anchoring used and basis for selecting that anchoring method shall be documented in the FTL log book.

5.7 After backfilling is completed, the surface of the trench shall be smoothed over so that there is no surface variation greater than 4 inches over a distance of 5 feet. Plastic sheeting (the plastic sheeting previously used as a cover over the stockpile may be used) shall be folded and fitted to neatly cover the backfill surface to provide a membrane cover. A layer of crushed aggregate shall be placed over the surface of the plastic sheeting. This layer shall be a minimum of 9 inches in thickness and be equivalent to the "1-1/4 inch minus crushed roadbase" material available from ACME Materials & Construction Co., 955 Lacey, Richland.

DESCRIPTION OF CHANGE (page no./step no./change)

5.8 When the excavated material is relatively free of asbestos, except for some large, competent asbestos articles, the FTL or SSO may direct the removal of these asbestos articles from the stockpile.

5.8.1 Individual articles of asbestos shall be wetted before removal from the stockpile. Following separation from the stockpile, these articles shall be placed upon a separate sheet of polyethylene. Wetting shall continue until preparations are ready for bagging the asbestos articles.

5.8.2 Small portions of saturated asbestos material shall be transferred to double lined bags which are approved by the SSO for containing asbestos. The quantity of material placed into the bags shall be as directed by the SSO to avoid overloading.

5.8.3 Excess air shall be expelled from the bags before sealing the bag by twisting the neck, bending the neck double, and wrapping the neck with a minimum of three wraps of duct tape.

5.8.4 The outside of the bag shall be cleaned and the bagged material moved to a wash down station located adjacent to an equipment decontamination station. At the wash down station, the remaining air in the bag shall be evacuated with a HEPA filtered vacuum cleaner and double bagged with another approved bag. The second double bag shall be evacuated with the HEPA filtered vacuum cleaner and sealed as required for the first double bag.

5.8.5 Properly bagged materials shall be kept separated from other equipment and materials in an enclosure approved by the SSO until they are placed as backfill into the test pit. The enclosure area shall be clearly marked with signs indicating the contents. The bags shall not be moved from the enclosure area until placement in the test pit.

5.9 Decontamination of personnel shall be accomplished in an approved personnel decontamination facility provided by the Certified Asbestos Supervisor.

#9 16683



Department of Energy

Richland Operations Office
P.O. Box 550
Richland, Washington 99352
SEP 3 1991

91-ERB-181

Mr. Paul T. Day
Hanford Project Manager
U.S. Environmental Protection Agency
712 Swift Boulevard, Suite 5
Richland, Washington 99352

Mr. Timothy L. Nord
Hanford Project Manager
State of Washington
Department of Ecology
Mail Stop PV-11
Olympia, Washington 98504-8711

Dear Messrs. Day and Nord:

REVISION 1 OF THE REMEDIAL INVESTIGATION (RI) PHASE 2 SUPPLEMENTAL WORK PLAN FOR THE HANFORD SITE 1100-EM-1 OPERABLE UNIT (OU)

Copies of Revision 1 of the RI Phase 2 Supplemental Work Plan for the Hanford Site 1100-EM-1 OU (DOE, RL-90-37, September 1991) are enclosed. Transmittal of the revised plan is per requirements of the Hanford Federal Facility Agreement and Consent Order (Tri-Party Agreement), and agreements reached during resolution of the 1100-EM-1 dispute settled on August 29, 1991. It incorporates dispositions of the U.S. Environmental Protection Agency (EPA) and the State of Washington Department of Ecology (Ecology) comments transmitted to Mr. Robert K. Stewart, DOE Field Office, Richland by Mr. David R. Einar (EPA) on June 28, 1991. It also generally incorporates agreements reached during the dispute.

The document is an update to the Plan issued in April 1991, which in turn, was a revision of the original draft provided to EPA/Ecology in October 1990. It does not reflect the accomplishment of much of the workscope included, address all of the tasks required as a result of the agreement to combine the Phase 2 RI Report into a Final RI/Feasibility Study Report, nor provide detailed planning for all the agreements reached. To address these limitations we request Ecology and EPA's participation in a meeting to discuss a more thorough update.

If you have any questions about this letter or the revised plan, please call Mr. R. K. Stewart at (509) 376-6192.

Sincerely,

Steven H. Wisness
Steven H. Wisness
Hanford Project Manager

POUR COPY RECEIVED

ERD:RKS

Enclosure

cc: Attached

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Continuation

APPROVED DOCUMENT CHANGE
CONTROL FORM

Change Number 1100-EM-1-001

Description of Change

The following Horn Rapids Landfill, test pit excavation work items were discussed at the September 18, 1991 and October 17, 1991 Unit Manager's Meetings and agreed to by the Unit Managers. These agreements differ from previous agreements because of additional information provided by recent geophysical survey work and continuing discussions between the Unit Managers.

Investigation Derived Waste to be Containerized:

Relatively pure forms of hazardous wastes visually identified or indicated by very high concentrations of organic vapors or the predominance of one constituent on the XR-F spectrum shall be segregated from other materials and containerized separately.

Test Pit Depth:

The following depths of test pit excavation were agreed to based upon the geophysical surveys completed on September 12, 1991:

Test Pit #	Depth (ft)
1	8-10
2	no excavation
3A	20
3B	6
4/5	12
6	10
7	6
8 *	5
11	5

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