START

0023440

Final

Meeting Minutes Transmittal/Approval
Unit Manager's Meeting: 100 Aggregate Area/100 Area Operable Units
450 Hills Street, Richland, Washington
July 29, 1992

FROM/APPROVAL: Eric Goller Date 8-26-92
Eric D. Goller, 100 Area Unit Manager, RL (A5-19)

APPROVAL: Darci Teel Date 8-26-92
Darci Teel, 100 Aggregate Area Unit Manager, WA Department of Ecology

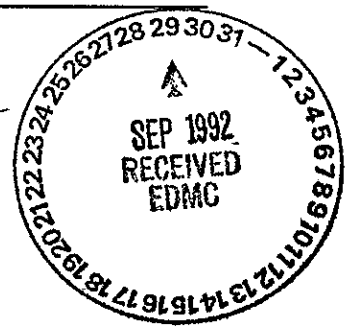
APPROVAL: Dennis Faulk Date 8-26-92
Dennis Faulk, 100 Aggregate Area Unit Manager, EPA (B5-01)

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

Attachment #1	-	Meeting Summary
Attachment #2	-	Agenda
Attachment #3	-	Attendance
Attachment #4	-	Action Item Status List
Attachment #5	-	Status of 100 Area Wide Activities Schedule
Attachment #6	-	100-HR-1 Tasks, July 1992
Attachment #7	-	100-HR-3 Activities
Attachment #8	-	100-DR-1 Operable Unit Activities
Attachment #9	-	100-BC-1 Source Operable Unit Schedule & Work Summary
Attachment #10	-	100-BC-5 Operable Unit Schedule
Attachment #11	-	100-KR-4 Operable Unit Schedule
Attachment #12	-	100-KR-4 and 100-NR-2 Drilling Status
Attachment #13	-	N-Area Soil Gas Survey
Attachment #14	-	N-Area Surface Radiation Survey
Attachment #15	-	100-FR-1 and 100-KR-1 Status
Attachment #16	-	DOW Schedule for 100-KR-1, 100-FR-1 and 100-NR-1
Attachment #17	-	Entrance Requirements for Exclusion Zones in Hazardous Waste/Radioactive Sites Memorandum from Kevin Kytola
Attachment #18	-	Hazardous Waste Worker Status Report
Attachment #19	-	100 NPL Agreement/Change Control Form #25
Attachment #20	-	100 NPL Agreement/Change Control Form #24

Prepared by: Suzanne Clarke Date: 8/26/92
Suzanne Clarke, Kay Kimmel, GSSC (A4-35)

Concurrence by: Bob Henckel Date: 8/26/92
Bob Henckel, WHC Coordinator (H4-55)



Attachment #1
Meeting and Summary of Commitments and Agreements

Unit Manager's Meeting: 100 Aggregate Area/100 Area Operable Units
July 29, 1992

1. SIGNING OF THE JUNE 100 AREA UNIT MANAGER'S MEETING MINUTES - Minutes were reviewed and approved with changes to Item 11. Eric Goller added information and changed the "is unable" to "was able".

2. ACTION ITEM UPDATE: (See Attachment 4 for status (before June meeting), items listed below for the update to Attachment 4 made during the June meeting):

   1HR3.32 Open (7/29/92). NEPA approval almost through. Probably one week.

   1AAMS.5 Open. Confirm that letter went out.

   1AAMS.7 Working with the sampling organization that receives the lab analyses to obtain the data and will work on getting the information to the regulators.

   1AAMS.9 Open. No Answer.

   1AAMS.13 Closed (7/29/92) with presentation. See Attachments #17 and #18.

3. NEW ACTION ITEMS (INITIATED JULY 29, 1992):

   1AAMS.14 Schedule a presentation on the Hanford Site Past Practice
   Eric Goller Strategy targeted for the middle-to-latter part of August.

   1AAMS.15 Provide response to April 2 EPA letter concerning river seeps.
   Eric Goller

   1AAMS.16 DOE should transmit Revision 1 of M-30-01.

4. 100 AREA ACTIVITIES: See Attachment #5 for the schedule.

   - Status Biota Samples: Holding times were exceeded for ecological samples for aquatic biota, tree leaves, and asparagus samples. Although the holding times have been exceeded, it is not anticipated that this will affect the data quality.

   - Status FS and Program Plans: Fred Roeck indicated that 100 Area Feasibility Study internal comments have been incorporated and the document is ready for transmittal with an August 15 delivery date. The methodology for documenting the change in the milestone (1 document rather than 3) is under discussion.

5. FIELD ACTIVITIES:

100-DR-1: change control form number 25 (Attachment #19) concerning elimination of the 132-D-3 effluent pumping station from the 100-DR-1 work plan schedule and DOW list was transmitted to EPA and Ecology.

100-DR-1: change control form number 24 (Attachment #20) concerning the soil gas surveys at the paint shop, was transmitted to EPA and Ecology.

KR-1 test pits: There is a possibility of moving this task forward from the November time-frame.

Well drilling update:
KR-4 near completion.
FR-3 initiate during the first week of August
NR-2 drilling is ongoing, at 50 feet.

6. WORK PLANS - Status was provided by Alan Krug and Roberta Day:

NR-1 and NR-2 are held until coordination with operations.
DR-1, HR-1 and HR-3 are in public comment.
BC-1 approved July 22, 1992.
BC-5 in process of transmittal to EPA for approval.
KR-1 is in the process of transmittal.
KR-4 and FR-3 meeting is scheduled Friday, July 31, to discuss schedules.
FR-1 all items are closed out and in the process of publication.

7. INFORMATION ITEMS

- Access Requirements: To be at the site only a badge is required. To get into the exclusion zone, in order for the regulators to obtain their own samples, see attachments #17 and #18, and also participate in the tailgate meeting (first thing in the morning). N and K areas have their own special training (held on Wednesdays).

- Status of Ecology Sampling Protocol: Existing Ecology protocol is not Hanford specific. Methods in preparation.

- Integrated Demonstrations: Tests with the cone penetrometer integrated demo may be possible in the 100 Areas. Push depths have varied from 30 to 147 feet. Provides continuous VOC monitoring of subsoil samples plus soil sampling capabilities. A larger rig was brought in this year as compared to last year (80,000 lb capacity).

- IRM and Treatability Study Program Plans: These are delayed due to the necessity of one month HQ review.

- Treatability Studies: Meeting concerning scoping of treatability studies is scheduled for 8:00am August 6 Conference Room. The meeting is scheduled to discuss near term treatability studies (FY 93).

- TPA Public Meeting: Some 100 area topics are on the agenda.
- Work Plans for the Next Fiscal Year: Three Work Plans are proposed; 100-BC-2, 100-DR-2, and either 100-KR-2 or 100-HR-2.
- New Work Plans: These will reference several "generic" elements (such as the QAPjP), and not include these in the documents.

Attachment #2
Agenda

Unit Manager's Meeting: 100 Aggregate Area/100 Area Operable Units

100 Area RI Status - Bob Henckel

- Work Plans - Alan Krug/Roberta Day

General Items

- Access Requirements
- Status of Ecology Sampling Protocol
- Status FS and Program Plans
- Status M-30-04 Methodology
- Status Biota Samples

100 Aggregate Area Unit Manager's Meeting
Official Attendance Record
July 29, 1992

Please print clearly and use black ink

PRINTED NAME	SIGNATURE	ORGANIZATION	O.U. ROLE	TELEPHONE
Suzanne Clarke	Suzanne Clarke	SWEC	GSSC to RL	372-0630
Billie Mauss	Billie Mauss	Ecology	Support CERCLA	509-~~783~~-546-2993
Jeff Phillips	Jeff Phillips	Ecology	Unit Manager	509-546-2968
Larry Gadbois	LE Gadbois	EPA	Unit Manager	509 376-9884
Darci Teel	Darci Teel	Ecology	CERCLA Support	509 5452312
Steve Goss	Steve Goss	"	"	206 4596675
Robert Henckel	RP Henckel	WHC	100 Area	509 376-2091
Alan D. Krug	A D Krug	WHC	100 Area Ecology Sites	509 376 5634
Brian Drost	Brian Drost	USGS	EPA support	206-593-6510
R.E. Day	RE Day	WHC	100 Areas	376-7602
Pamela Innis	Pamela Innis	EPA	Unit Manager	509/376-4919
Eric Goller	Eric Goller	RL	100 Areas Unit Mgr	509-376-7826
Kay Kimmel	Kay Kimmel	SWEC	GSSC	509-372-0610
Jim Patterson	Jim Patterson	WHC	RI Program	509-376-0568
Andree DeAngeles	Andree DeAngeles	PRC	EPA Support	206-624-2692
Mike Barnes	MW Barnes	USACE	-	509-376-1275
Jon Spreckles	Jon Spreckles	Brown and Caldwell	Ecology Support	(503) 244-7005
Richard Hibbard		Ecology	Engineering Support	(206) 493-9367
W.E. Green	W E Green	WHC	DOE Technical Coord	376-3886
Karl N. Pool	Karl N. Pool	WHC	OSM	509-373-3137
Steve Weiss	S G Weiss	WHC	100 Area River, Ecology + Modeling	509 376-1683
Steve Vukelich	Steve Vukelich	WHC	100 HR-3	509 376-5158
Kevin Kitola	K Kitola	WHC		2-1662
Dennis Faulk	Dennis Faulk	EPA	Unit Manager	6-8631
Steve Balone	S M Balone	DOE	HQ Proj. Mgr.	301 903-7607

100 Aggregate Area Unit Manager's Meeting
Official Attendance Record
July 29, 1992

Please print clearly and use black ink.

PRINTED NAME	SIGNATURE	ORGANIZATION	O.U. ROLE	TELEPHONE
J. M. Ayres		WHC	100-HR-1	(509) 376-3918
Chuck Cline		Ecology	100 HR3 O.U. NR2 Mgr	(206) 438-7554
Jerry Hunacek		N Reactor	100N	373-1673
Ward Staubitz		USGS	EPA Support	(206) 553-6510

Attachment #4
Action Item Status List

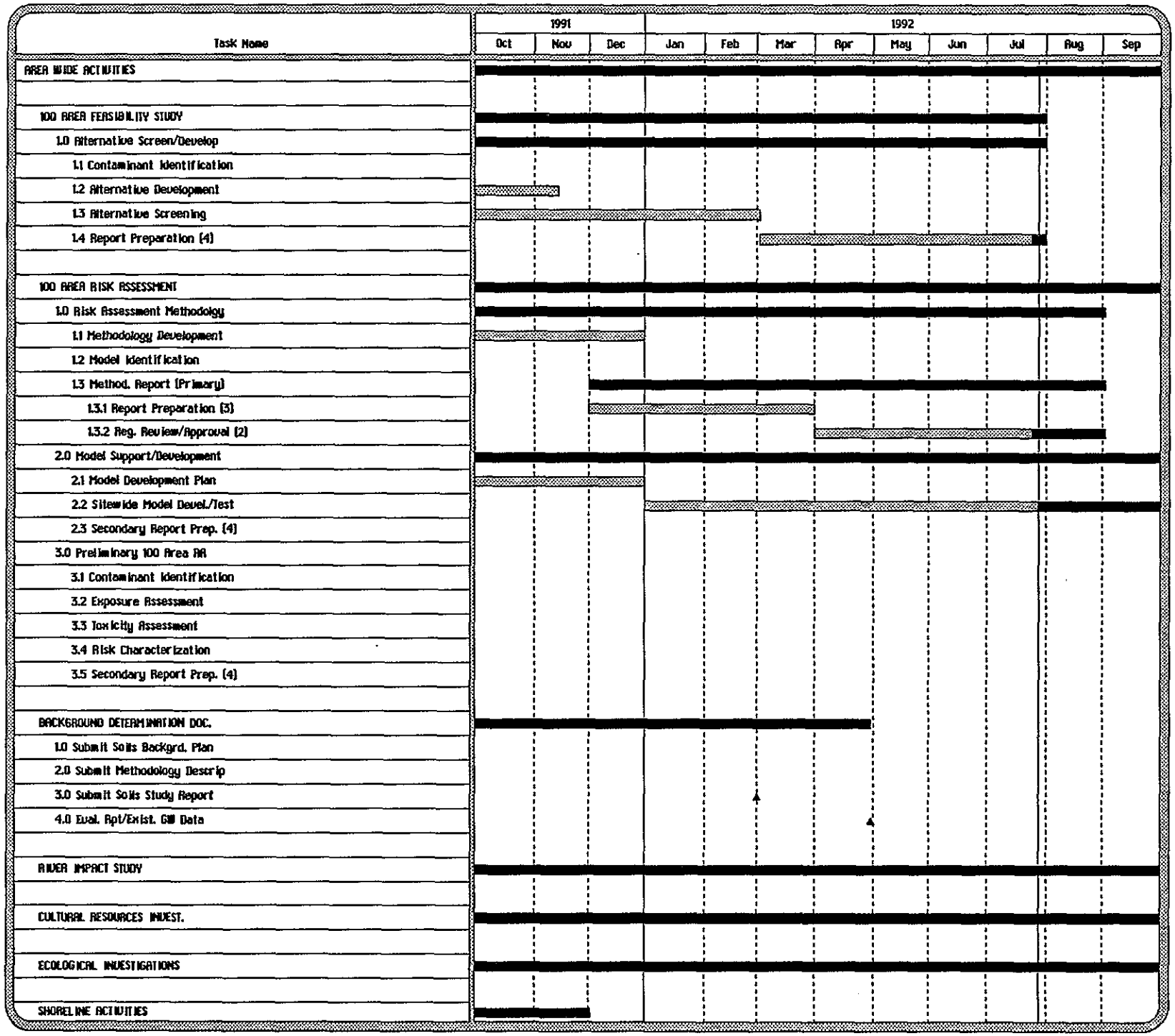
Unit Manager's Meeting: 100 Aggregate Area/100 Area Operable Units
July 29, 1992

ITEM NO.	ACTION	STATUS
1HR1.28	Determine when the topographic mapping will be available on HEIS, who is responsible for digitizing the mapping, and when it will be available. Action: Alan Krug (11/15/90)	Closed 6/24/92. Don't know when the data will be in HEIS.
1HR3.29	Provide regulators with information about the situation concerning the cooling-water discharge pipeline/vent pipes on the island opposite D reactor. Action: Jim Goodenough (11/15/90)	Closed 6/24/92. 3 parts: 1) approval from Benton County Shoreline Management 2) Dept. of Fisheries wanted NEPA document for wetlands 3) USACE approval pending.
1HR3.32	Regarding the removal of the vent pipes, WHC will: 1) Determine the need for an ACE permit; 2) obtain a letter from ACE that gives approval to begin work before the need for the permit is determined; and, 3) draft letters on the matter to the Natural Resources Trustees. Action: A. Krug (1/15/90)	Open: Pending overall resolution (7/18/91). NEPA wetlands approval pending. USACE approval: resolution pending. 6/24/92 NEPA signed by Wagner, at HQ 7/29/92.
1AAMS.1	The 100 Area schedule assumptions presented by Merl Lauterbach are to be discussed with the regulators and resolved. Action: Doug Sherwood, Larry Goldstein, Mike Thompson (9/19/91)	Closed 6/24/92.
1AAMS.2	WHC, DOE and the regulators are to meet to resolve questions on the 100 Area investigations. Topics to be discussed include geophysical logging, physical testing, archiving of "hot" samples, aquifer testing, etc. This meeting is tentatively scheduled for November 26, 1991. Action: Merl Lauterbach (11/21/91)	Closed 6/24/92.
1AAMS.3	Clarify the level above which RAD samples can not be shipped off site. Action: DOE (12/17/91)	Closed 6/24/92.

ITEM NO.	ACTION	STATUS
1AAMS.4	Provide a plan for incorporating the comments of EPA and Ecology into the work plans. Action: RL (12/17/91)	Closed 6/24/92.
1AAMS.5	Ecology and EPA are to be provided with sampling data on mulberries from N-Springs as well as data from the vegetation eradication program. The specific herbicides that were used are to be included. Action: T. Poston and J. Goodenough. (1/23/92)	Open. Confirm that letter went out 6/24/92.
1AAMS.7	Provide information to the regulators on how to retrieve rad counting data from the 222-S Lab. Action to Jeff Lerch (2/27/92). Action: Karl Pool (6/24/92)	Open. How does WHC get their data for shipping? Working with the sampling organization that receives the lab analyses to obtain the data and will work on getting the information to the regulators (8/5/92).
1AAMS.8	Present a comparison of 222-S rad counting data, field screening data and geophysical logging results at the March UMMs. The data set used should include 2 or 3 boreholes, preferably holes in which both gross and spectral logs have been run. Action: Merl Lauterbach (2/27/92)	Closed 6/24/92.
1AAMS.9	DOE shall send a letter to Ecology, suggested from S. H. Wisness to D. Jansen with a cc. to EPA, explaining what is included in the ER Program for the N Reactor Area and how the multiple programs will be handled organizationally. Action to J. D. Goodenough (2/27/92). Action: E. D. Goller (5/27/92).	Open. Related to the N Areas Issues Papers. No answer 7/29/92.
1AAMS.10	Arrange a meeting on the 100 Area Feasibility Studies, Phases I and II, with the regulators for the week of April 6th. Action to E. D. Goller (RL) 3/26/92.	Closed 6/24/92.
1AAMS.12	Ecology requested that sampling on oil and grease well network be restarted in down-gradient wells N-3, N-8, and N-16 through N-26 (5/22/92 letter to Eric Goller from Steve Cross). Action to E.D. Goller (RL) 5/27/92	Open. No action 7/29/92.

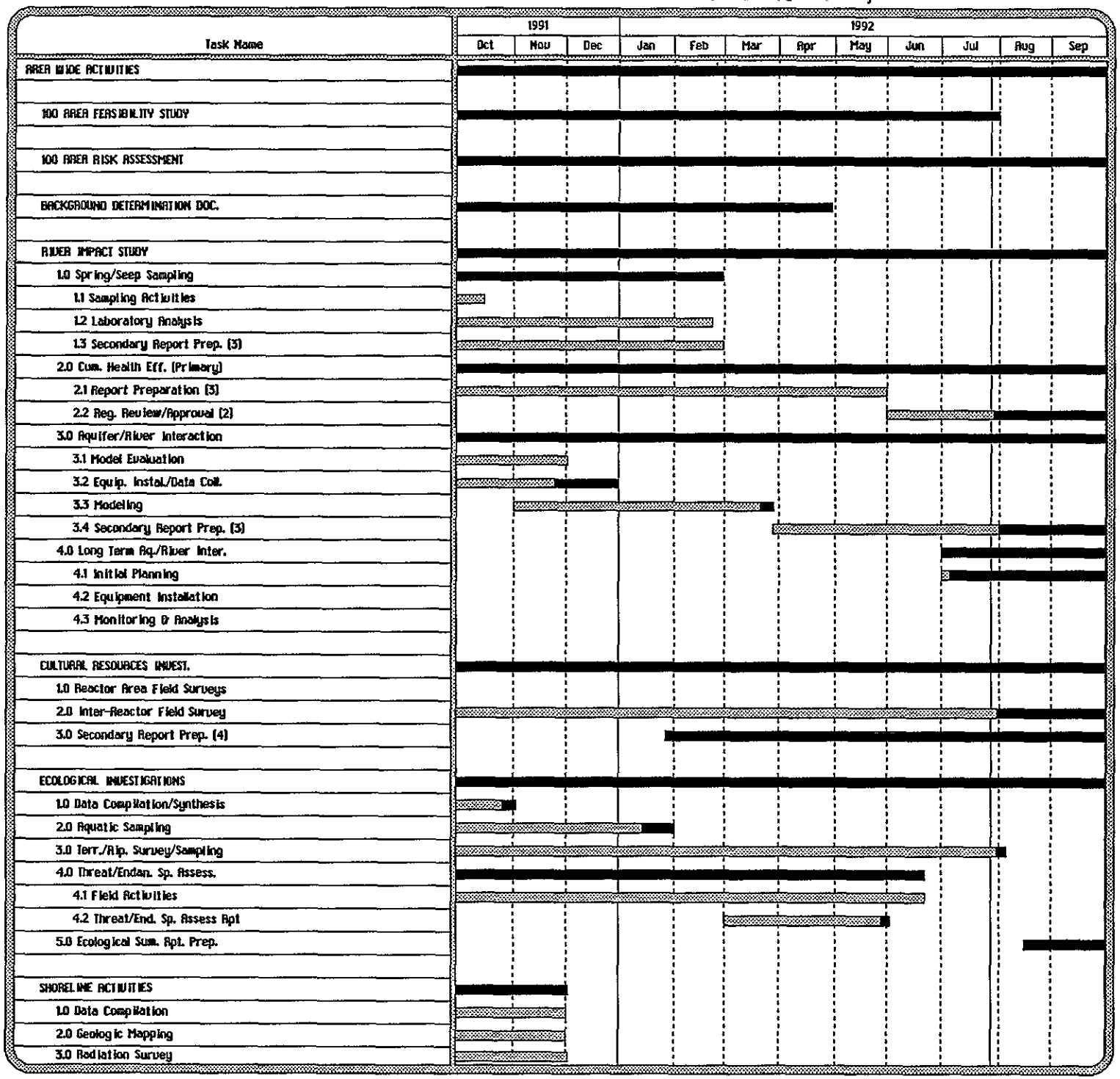
ITEM NO.	ACTION	STATUS
1AAMS.13	To contact appropriate parties to develop a checklist of all requirements (training and health and safety) necessary for personnel to gain access to radiation exclusion zones. Action: Eric Goller (6/24/92).	Closed 7/29/92.
1AAMS.14	Schedule a presentation on the Hanford Site Past Practice Strategy targeted for the middle-to-latter part of August. Action: Eric Goller (RL) (7/29/92).	Open (7/29/92).
1AAMS.15	Provide response to April 2 EPA letter concerning river seeps. Action: Eric Goller (RL) 7/29/92.	Open (7/29/92).
1AAMS.16	DOE should transmit Revision 1 of M-30-01.	Open (7/29/92).

100 AREA WIDE ACTIVITIES

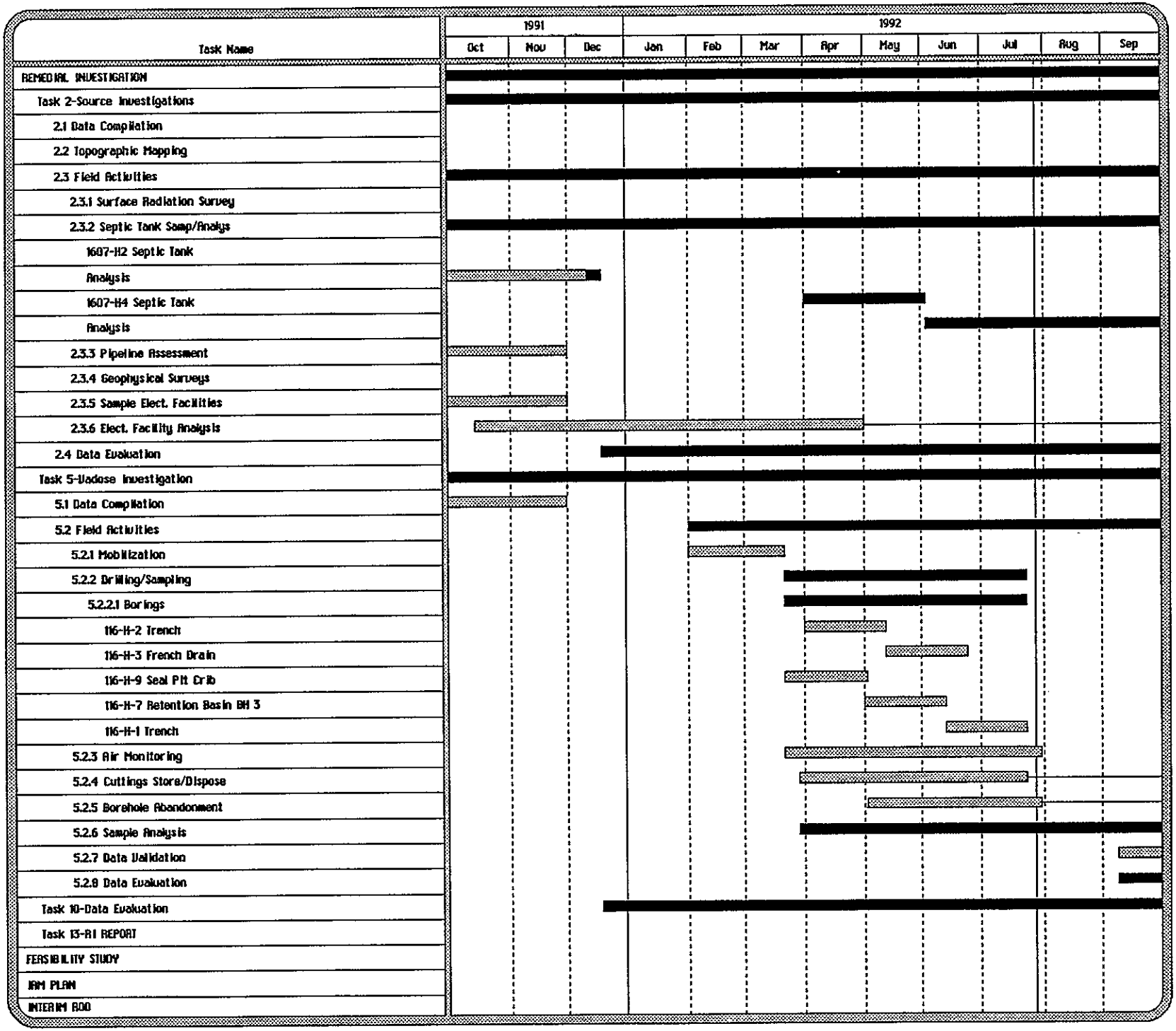


Attachment #5

100 AREA WIDE ACTIVITIES



100-HR-1 Operable Unit - Jeff Ayres



Attachment #6

100-HR-1 TASKS, JULY 1992

Task 1, Project Management

-On Going

Task 2, Source Investigation

-Data Compilation, Completed (Dec 91)
-Topographic Mapping, Completed (Aug 91)
-Site Walkover, to be completed Spring-Summer 1992
-Surface Radiation Survey, Completed (Oct 91)
-Geophysical Survey-Completed (June 91)
-Septic Tanks, To be completed August 3, 1992.
-Pipeline Assessment- Completed (Jan 92)
-Electrical Facilities, Completed Sampling Dec 91

Task 3, Geological Investigation

-Performed as part of 100-HR-3

Task 4, Surface Water and Sediment Investigation

-Performed as part of 100-HR-3

Task 5, Vadose Zone Investigation

-Drilling started on 26 Feb 1992
-Drilling completed on 13 Mar 1992
-5 Boreholes Completed
  116-H-1 (Disposal Trench)
  116-H-2 (Disposal Trench)
  116-H-3 (French Drain)
  116-H-7 (Retention Basin)
  116-H-9 (Seal Pit Crib)

Task 6, Groundwater Investigation

-Performed as part of 100-HR-3

Task 7, Air Investigation

-Activity being performed as routine health and safety air monitoring in support of investigation activities.

Task 8, Ecological Investigation

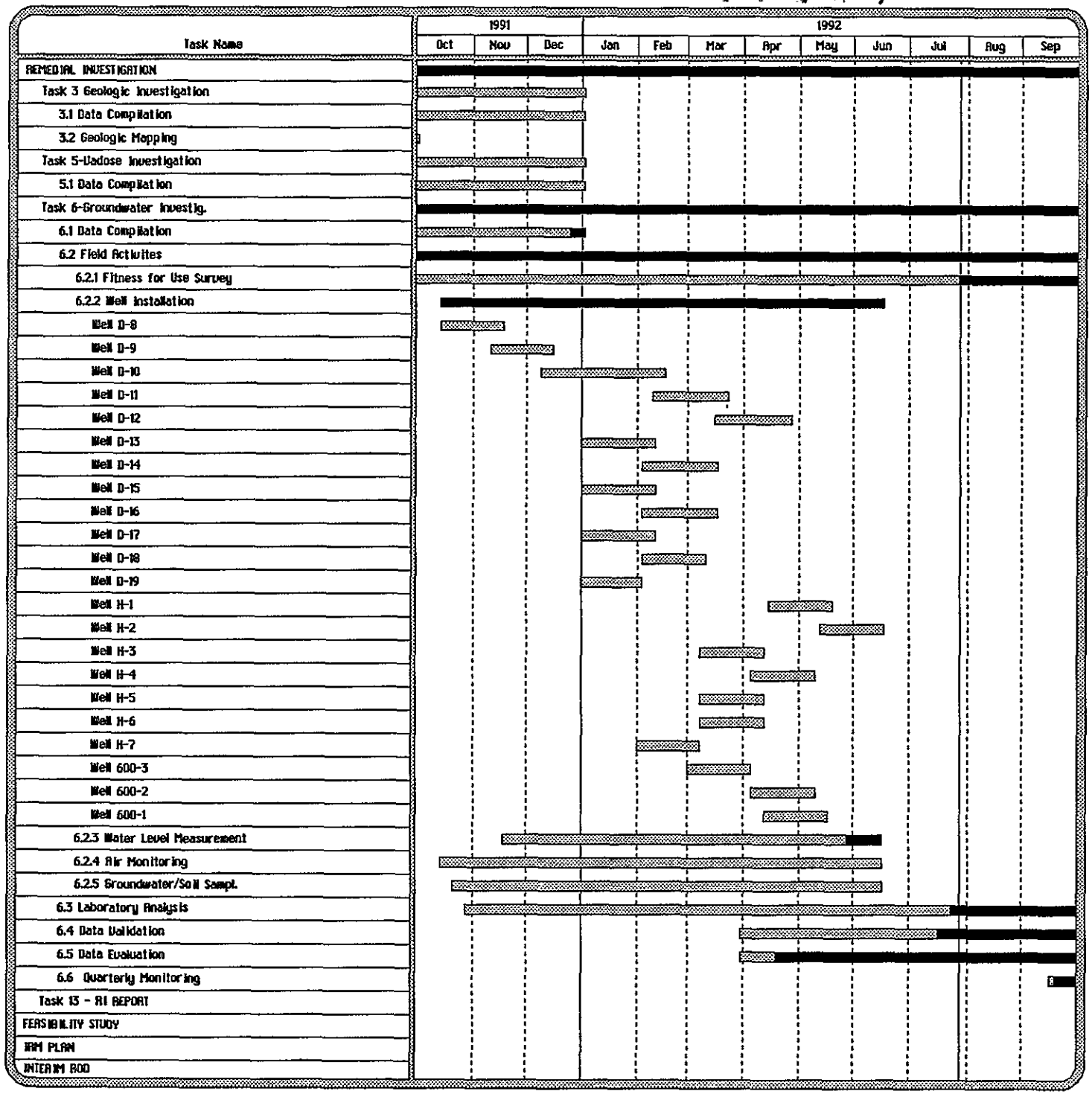
-Performed as part of 100-HR-3

100-HR-1 DOW Schedule,				3/20/92
Title & Document Number of DOW		One Week DOE-RL review starting:	Two week Regulatory review starting:	Sampling Activity starting:
1	100-H & 100-B Area Electrical Facilities Source Sampling, WHC-SD-EN-AP-064, Rev. 1	Completed	Completed	December 9, 1991
2	Description of Work for the 100-HR-1 Source Operable Unit, WHC-SD-EN-AP-066	Completed	Completed	February 26, 1992
3	1607-H4 Septic Tank Sampling (DOW in review)	Approx. June 1992	Approx. July 1992	Approx. Aug 3,1992
4				
5				

100-HR-1 DOCUMENTS

- 100-HR-1 GEOPHYSICAL SURVEYS WHC-MR-0263
- 100-HR-1 RADIOLOGICAL SURVEYS WHC-MR-0275
- Engineering Report for H Area Process Effluent Line Examination WHC-SD-NR-ER-092

100-HR-3 Operable Unit - Steve Lukelich



Attachment #7

100 HR-3 GROUNDWATER OPERABLE UNIT
WORK SUMMARY 7/21/92

TASK 3 - GEOLOGIC INVESTIGATION

Data Compilation - WHC released a report titled, "Geologic Information Summary for the Northern Portion of the Hanford Site". A Geologic Map should be completed in June, 1992.

TASK 5 - VADOSE INVESTIGATION

Data Complilation - WHC released a report titled, "Hydrologic and Geologic Data Available for the Region North of Gable Mountain".

TASK 6 - GROUNDWATER INVESTIGATION

Data Complilation - WHC plans to release a report titled, "Hydrologic Information Summary for the Region North of Gable Mountain" in August, 1992.

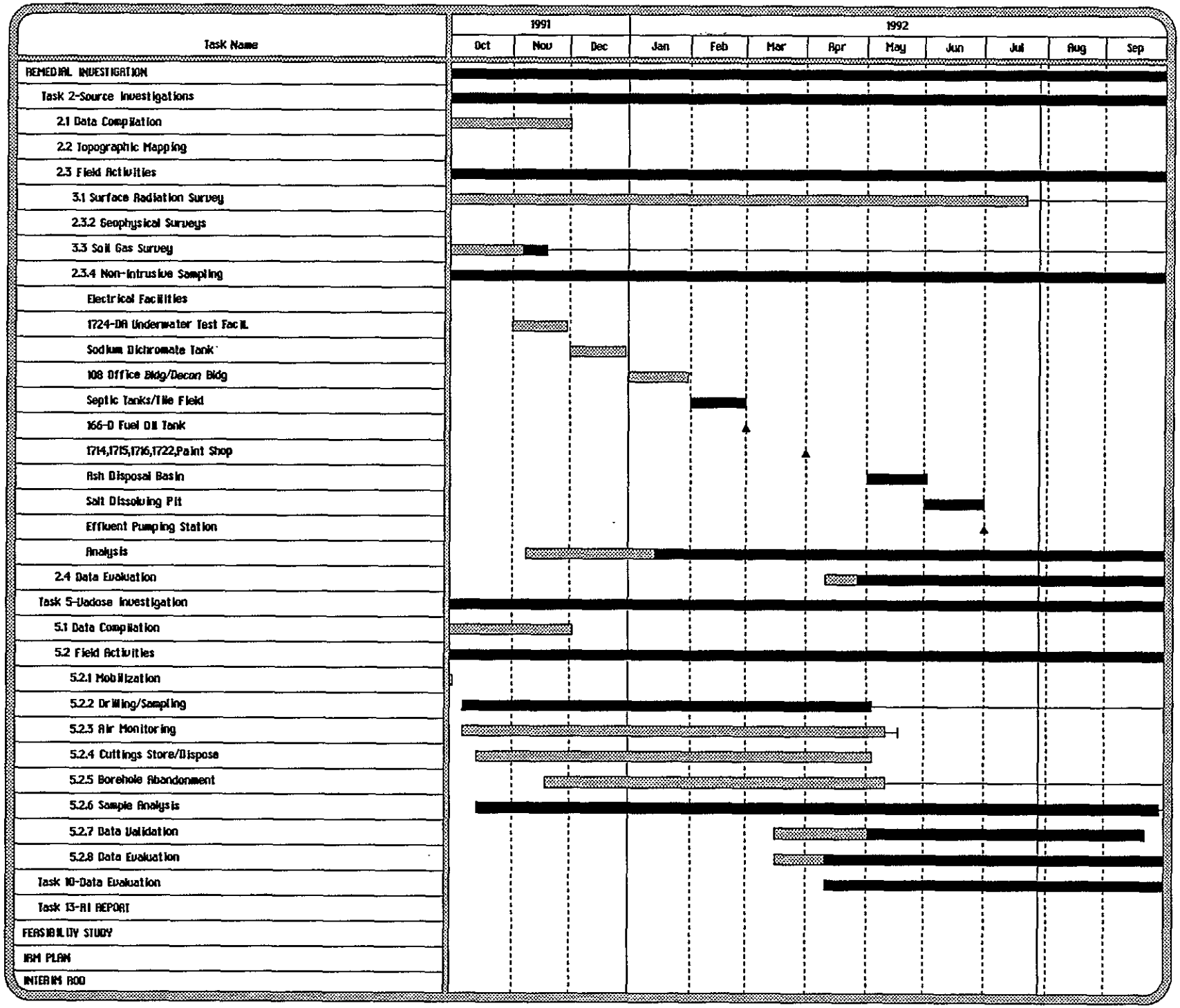
Quarterly Monitoring - One round of groundwater samples has been taken. The second round will be taken in late July/early August.

Attachment #8

UNIT MANAGER'S MEETING
100-DR-1 OU
July 22-23, 1992
Room 47, 450 Hills

Presenter - N. M. (Naik) Naiknimbalkar

100-DR-1 Operable Unit - N. Naiknimbalkar



100-DR-1 Remedial Investigation

TASK NO.	ACTIVITY		STATUS
Task 2	SOURCE INVESTIGATION		
Task 2.1	DATA COMPILATION		COMPLETED DECEMBER 1992
Task 2.2	TOPOGRAPHIC MAPS		COMPLETED AUGUST 1991
Task 2.3.1	SURFACE RADIATION SURVEY		COMPLETED APRIL 1992
	SITES:	100-DR-1 Area with the exception of Controlled Zones.	
Task 2.3.2	GEOPHYSICAL SURVEY		COMPLETED MAY 1991
	SITES:	116-D-2 Pluto Crib Waste Acid Disposal Reservoir 1607-D4 Septic Tank Questionable Septic Tank (Routine surveys were conducted to locate drill hole sites & non-intrusive sites).	
Task 2.3	Soil Gas Surveys	See Table 1.	

Task 2.3.3

Table 1
100-DR-1 Operable Unit Soil Gas Surveys
Activity Completion Dates

Site Name	Probes Installed	Screened for Total VOC*	Sampled	Analyzed	Results Validated
1713-D	08-07-91	08-16-91	09-10-91	09-12-91	12-15-91
1714-D	07-24-91	08-16-91	09-09-91	09-10-91	12-15-91
1715-D	07-24-91	08-16-91	09-09-91	09-10-91	12-15-91
1716-D	08-06-91	08-16-91	09-05-91	09-07-91	12-15-91
1722-D	08-07-91	08-16-91	09-10-91	09-12-91	12-15-91
Paint Shop Near 182-D	08-30-91 06-15-92	Did Not Screen for VOC	09-09-91 6-24-92	09-10-91 6-24-92	12-15-91
184-DA UST	08-06-91	08-16-91	09-09-91	09-10-91	12-15-91
166-D Tank and Piping	08-01-91	08-16-91	09-11-91	09-13-91	12-15-91
103-D	01-30-92	02-03-92	02-06-92	02-07-92	
1607-D4 Septic Tank	02-20-92	02-26-92	02-26-92	02-28-92	
Burial Ground 4A	02-25-92	02-26-92	02-26-92	02-28-92	
Burial Ground 4B	02-07-92	02-11-92	02-11-92	02-13-92	02-14-92
Burial Ground 18	01-23-92	01-28-92	02-19-92	02-21-92	
126-D-2 Landfill	11-25-91	12-17-91	06-24-92	06-24-92	

VOC* - Volatile Organic Compounds

Task 2.3.4 Non-Intrusive

See Table 2

Task 2.3.4

Table 2
Non-Intrusive

OPER. UNIT	SAMPLES	SAMPLING ACTIVITY	BEGINNING SAMPLING DATE	ENDING SAMPLING DATE	DATE DATA IS DUE FROM THE LAB.	VALIDATION COMPLETION DATE	REPORT MILESTONE DATE
100-DR-1	3	1724-DA Underwater Test Facility	10/16/91	10/16/91	3/16/92	4/6/92	6/30/92
	5	Sodium Dichromate Tank	1/16/92	1/16/92	6/16/92	7/6/92	8/30/92
	5	108-D Office Bldg/Decon Bldg	5/1/92	5/1/92	10/1/92	10/22/92	11/30/92
	5	Septic Tank/Tile Field	5/1/92 / 9/15/92	5/1/92 / 9/15/92	10/1/92 / 1/1/93	10/22/92 / 1/22/93	11/30/92 / 2/28/93
	5	Ash Disposal Basin	9/15/92	9/15/92	2/1/93	2/22/93	3/30/93
	6	Salt Dissolving Basin	9/15/92	9/15/92	2/1/93	2/22/93	3/30/93
	5	103-D Green Metal Storage	9/15/92	9/15/92	2/1/93	2/22/93	3/30/93
100-DR-1	25	Electrical Facilities*	9/11/91	9/11/91	2/11/92	3/1/92	5/1/92

*
Electrical Facilities Locations:

183-D (C4-S3), 185-D (C4-S11), 189-D (C4-S10), 190-D (E4-S9), 105-D (E4-S2), 151-D (A4), 190-DR (E4-S12/E4-S13), 181-D (C4-S1), 186-D (C4-S12), 105-DR (E4- S11), 190-D (C4-S13) and Pole East of D-Area along perimeter road.

Descriptions Of Work (DOW's): See Table 3

Table 3
Descriptions Of Work

DOW	One Week DOE-RL Review Starting:	Two Week Regulatory Review starting:	Sampling Activity Starting:
108 Office Building	3-04-92	3-18-92	5-27-92
Septic Tanks/Tile Fields	3-04-92/8-3-92	3-18-92/8-17-92	5-27-92/9-15-92
Ash Disposal Basin	8-3-92	8-17-92	9-15-92
100-D Salt Dissolving Pit	8-3-92	8-17-92	9-15-92
103-D Green Metal Storage Building	8-3-92	8-17-92	9-15-92

Task 2.4 Data Evaluation

Task 3 Geological Investigation
-Performed as part of 100-HR-3

Task 4 Surface Water and Sediment Investigation
-Performed as part of 100 Area wide task

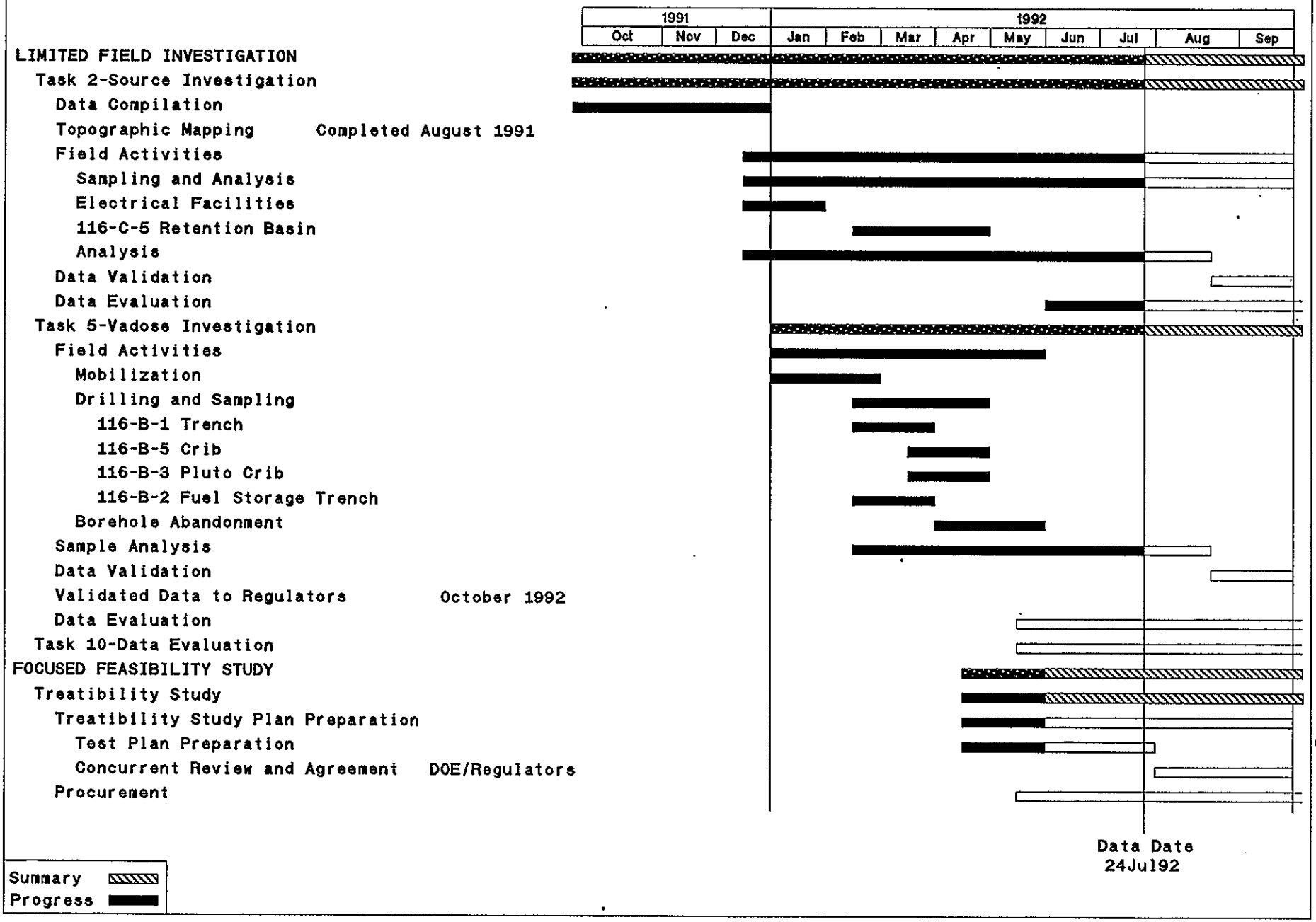
Task 5	Vadose Investigation	
Task 5.1	Data Compilation	Completed December 1991
Task 5.2	Field Activities	
Task 5.2.1	Mobilization	Completed
Task 5.2.2	Drilling/Sampling	Completed
Task 5.2.3	Air Monitoring	Continued as planned
Task 5.2.4	Cuttings Store/	Continued as planned
Task 5.2.5	Borehole Abandonment	Continued as planned
Task 5.2.6	Sample Analysis	Continued as planned
Task 5.2.7	Data Validation	
Task 5.2.8	Data Evaluation	

Report List for 100-DR-1 See Table 4

Table 4

Report List for 100-DR-1
WHC-SD-EN-DP-015, Summary Report Source Data Compilation for 100-HR-3 Operable Unit
WHC-SD-EN-AP-067. 100-DR-1 Area Nonintrusive Source Investigation Activities, December 26, 1991.
WHC-SD-EN-AP-067. Rev. 1, 100-DR-1 Area Nonintrusive Source Investigation Activities. (TBI).
WHC-SD-EN-AP-061, Rev.1. Description of Work for the 100-DR-1 Source Operable Unit. November 12, 1991.
WHC-SD-EN-AP-061, Rev.0. Description of Work for the 100-DR-1 Source Operable Unit. October 11, 1991.
WHC-MR-0257, 100-DR-1, Geophysical Surveys. May 1991.

100-BC-1 OPERABLE UNIT



Attachment #9

100-BC-1 SOURCE OPERABLE UNIT WORK SUMMARY
July 24, 1992

Task 2 - Source Investigation:

Source Data Compilation: Activity completed February, 1992. Identified documents are in the process of being cleared for external distribution.

Topographic Mapping: Activity completed August, 1991.

Field Activities:

Electrical Facility Sampling: Activity completed December, 1991.

116-C-5 Retention Basin Sampling: Activity completed April 28, 1992.

Task 5 - Vadose Investigation:

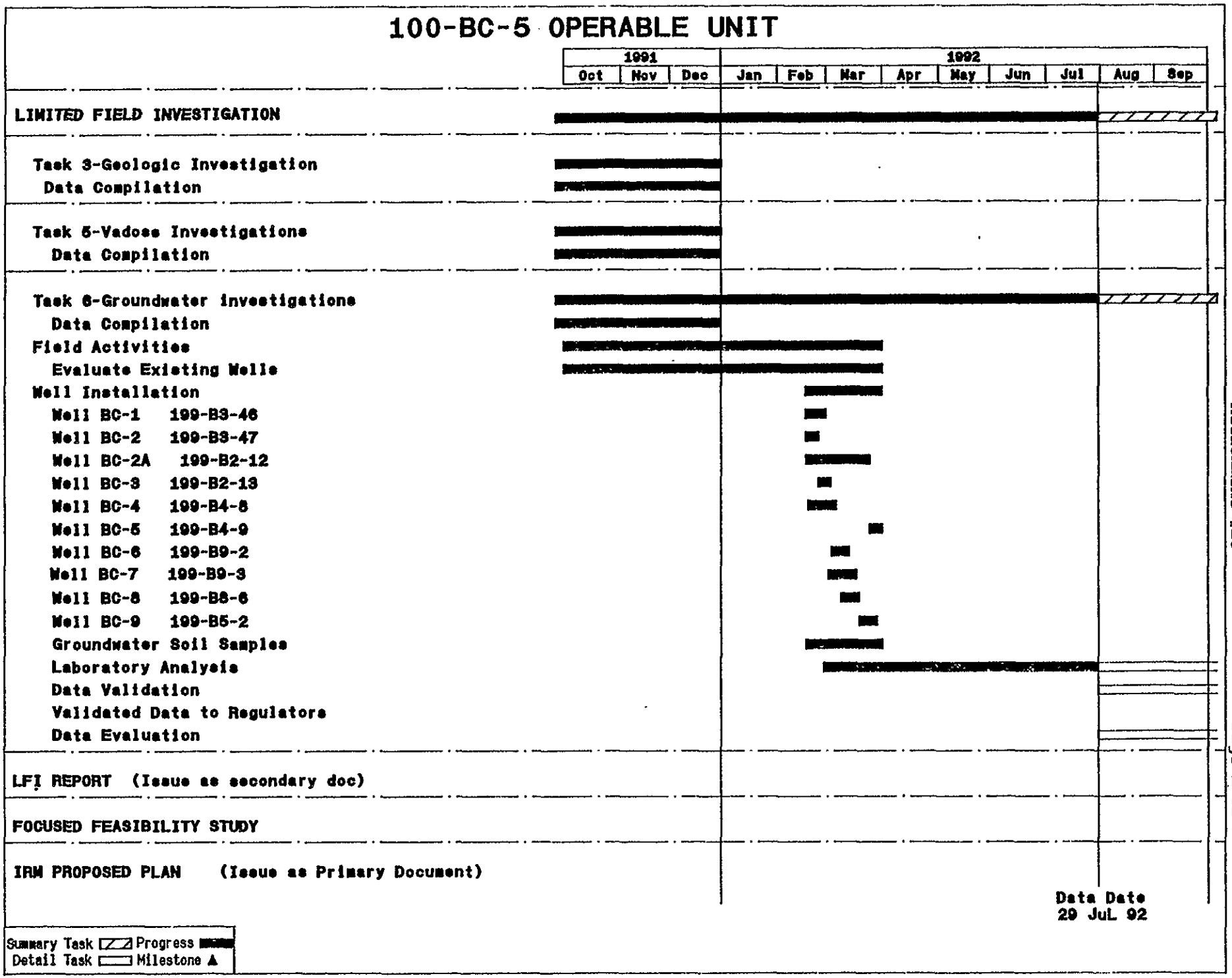
See attached table for specific vadose information.

Vadose Drilling: Activity completed April, 1992.

Vadose Test Pit: Activity completed June, 1992.

100-BC-1 Vadose Investigation Summary					
Location	Total Depth	# of Samples	Logging	Highest Rad & Depth (Ludlum)	Start/Finish Date
116-B-1 Borehole	28 feet	4 Chemical 2 Physical	Spectral	14,000 cpm (200 cpm GM) 17-19	3/19 - 3/26
116-B-2 Borehole	23 feet	4 Chemical	Spectral	8,000 cpm (750 cpm GM) 12-14	3/19 - 3/30
116-B-3 Borehole	20 feet	3 Chemical	Spectral	8,000 cpm (400 cpm GM) 6-7	4/2 - 4/8
116-B-5 Borehole	25 feet	3 Chemical	Spectral	2,000 cpm	4/13 - 4/22
Retention Basin Test Pit	20 feet	7 Chemical	N/A		6/10

100-BC-5 OPERABLE UNIT

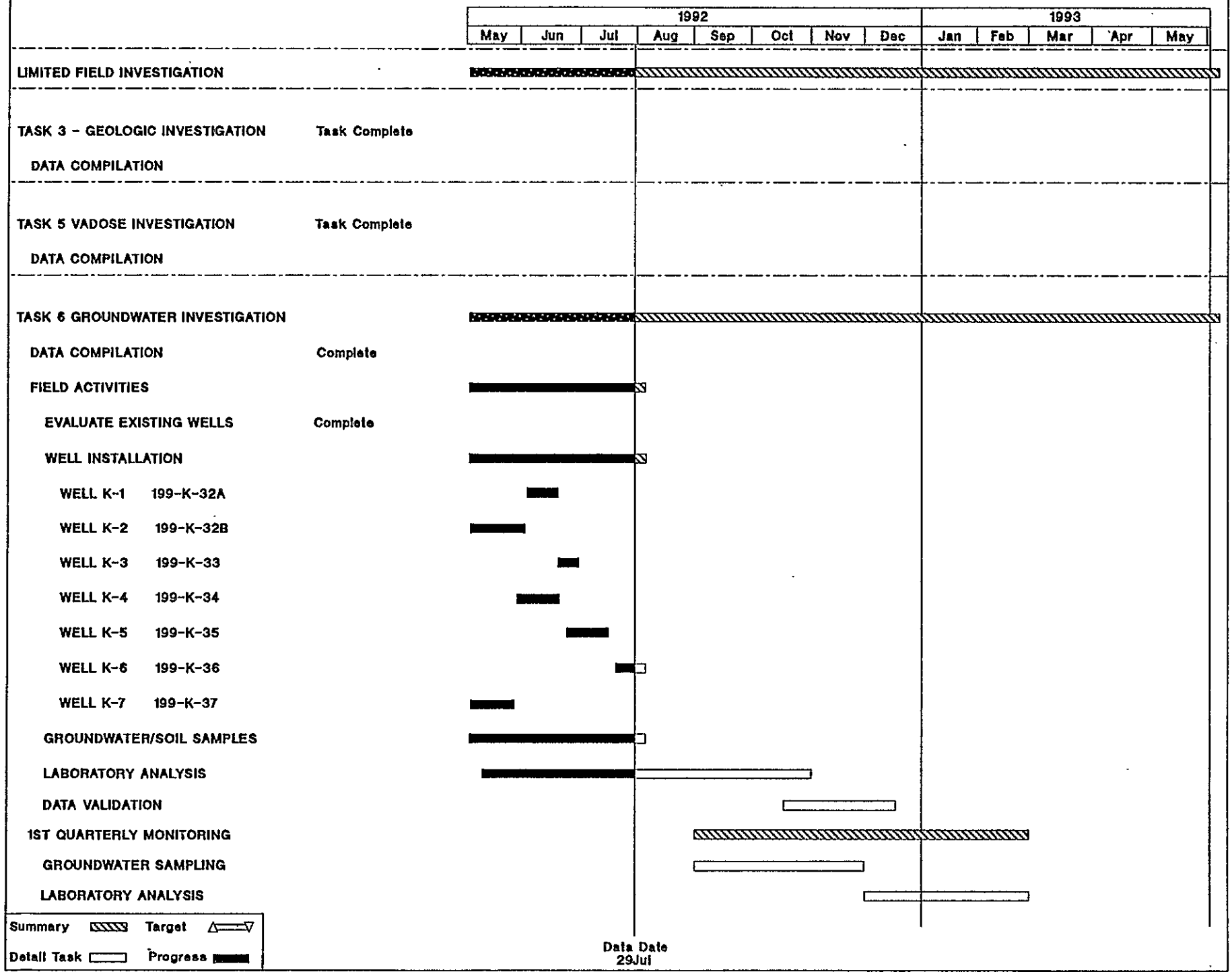


Attachment #10

Page 1 of 1

9 2 1 2 0 2 1 2 7 2

100-KR-4 OPERABLE UNIT



Attachment #11

Page 1 of 1

100-KR-4 DRILLING STATUS

WELL NUMBER	START DATE	COMPLETION DATE	CURRENT DEPTH	INST. READINGS	SCREEN INSTALLED
199-K-37	5/4/92	5/26/92	TD 70 ft	N/A	6/23/92
199-K-32A	6/8/92	6/16/92	TD 70 ft	N/A	7/21/92
199-K-32B	5/4/92	6/5/92	TD 175 ft	H^+	
199-K-33	6/19/92	6/29/92	TD 66 ft	N/A	
199-K-34	5/29/92	6/17/92	TD 89 ft	N/A	
199-K-35	6/23/92	7/15/92	TD 116 ft	H^+	
199-K-36	7/20/92		23 ft	H^+	

100-NR-2 DRILLING STATUS

WELL NUMBER	START DATE	COMPLETION DATE	CURRENT DEPTH	INST. READINGS	SCREEN INSTALLED
199-N-80	7/10/92		66 ft	N/A	

N-AREA SOIL GAS SURVEY
7/92 UPDATE

START DATE: 6/92

PROJECTED COMPLETION DATE:
SURVEY: 8/92
REPORT: 9/92

AREA:
MAIN FUEL OIL UNLOADING STATION
DIESEL OIL UNLOADING STATION
OUTLET OF EACH 166-N STORAGE TANK
UN-100-N-17 SITE

HGP BURN PIT (INCLUDES SCREENING FOR METALS)
128-N-1 BURN PIT (INCLUDES SCREENING FOR METALS)

AREA COMPLETED AS OF JUNE 22, 1992: NONE (ACTIVITY TO DATE CONFINED TO ACQUISITION OF EQUIPMENT, SUPPLIES, AND PERMITS IN ADDITION TO A SITE WALK-OVER)

AREAS ABOVE BACKGROUND FOUND: NONE

PROBLEMS: NONE

N-AREA SURFACE RADIATION SURVEY
7/92 UPDATE

START DATE: 4/92

PROJECTED COMPLETION DATE:
SURVEY: 9/92
REPORT: FY 1993

AREA:
AREA SURVEY: @ 227 acres
ROAD SURVEY: @ 200 acres
TOTAL AREA: @ 427 acres

AREA COMPLETED AS OF JULY 20, 1992: @ 166 acres

AREAS ABOVE BACKGROUND FOUND: NONE

PROBLEMS: A) EQUIPMENT MODIFICATION

B) MECHANICAL AVAILABILITY

CAN STILL MEET SCHEDULE

UNIT MANAGERS MEETING
(7/29 & 30, 1992)

100-FR-1

Task 2--Source Investigation: 132-F-1 Chronic Feeding Barn

Sampling completed

100-KR-1

Task 5--Vadose Investigation: Test pits 116-KW-3B, 116-KW-3C, 116-KE-4B and 116-KE-4C

It appears that there is a POSSIBILITY that funds can be located from underruns of other projects to allow excavation of these test pits during FY 1992. Planning is proceeding in anticipation of this possibility.

7/20/92

100-KR-1 DOW Schedule,				
	Title & Document Number of DOW	One Week DOE-RL review starting:	Two week Regulatory review starting:	Sampling Activity starting:
1	Vadose Drilling & Trenching, WHC-SD-EN-AP-083	June 29, 1992	July 9, 1992	December 15, 1992

100-FR-1 DOW Schedule,				
	Title & Document Number of DOW	One Week DOE-RL review starting:	Two week Regulatory review starting:	Sampling Activity starting
1	Source Investigations, WHC-SD-EN-AP-094	May 18, 1992	June 1, 1992	July 14, 1992
2	Vadose Investigations, WHC-SD-EN-AP-091	August 3, 1992	August 17, 1992	March 15, 1993

100-NR-1 DOW Schedule,				
	Title & Document Number of DOW	One Week DOE-RL review starting:	Two week Regulatory review starting:	Sampling Activity starting:
1	NR-1 Vadose Drilling and Trenching, WHC-SD-EN-AP-084	July 27,1992	August 10, 1992	December 15,1992

From: Kevin Kytola
H4-55
372-1662

To: Distribution

Date: July 17, 1992

Subject: Entrance requirements for exclusion zones in hazardous waste/radioactive sites.

It was recommended at the June 24, 1992 Unit Managers Meeting that a list of requirements for entrance into exclusion zones at hazardous waste and radioactive sites within the Hanford Reservation be provided for the Department of Ecology and EPA field representatives. The attached list explains the training, medical and safety requirements that are a minimum.

The 40 hour hazardous waste training can be obtained from any accredited source. Radiation training information can be obtained by contacting Sue Wilcox at 376-4206. Fire extinguisher training information can be obtained by contacting Vivian Knight at 373-4186. This training consists of a short video tape. The physical examination, mask fit and whole body counts can be obtained at the Hanford Environmental Health Foundation.

Site specific equipment and training requirements may be available in the Hazardous Waste Operations Permit (HWOP) and Radiation Work Permit (RWP) documents for the specific field activity. Area specific training is also required for some of the areas on the Hanford Reservation. For information regarding area specific training, contact Kerry Adamson at 373-1307.

It is anticipated that this information will allow all personnel to access the information necessary to obtain the required training/equipment for field activities at the Hanford Reservation.

cc: Bob Hobbs; Environmental Field Services
Dick Beutler; Training Coordinator
Bob Henkel; Manager

GENERAL REQUIREMENTS TO ENTER EXCLUSION ZONES AT HAZARDOUS WASTE/RADIOACTIVE SITES WITHIN THE HANFORD RESERVATION

TRAINING AND MEDICAL REQUIREMENTS

1. 40/8 hour haz. waste training/refresher
2. Radiation training
3. Annual physical
4. Mask fit
5. Whole body count
6. Fire extinguisher training
7. Training that may be required depending on site:
   a. Hearing conservation
   b. SKA-PAK training
   c. Chest count
   d. Confined space
   e. Area specific training

GENERALLY REQUIRED EQUIPMENT

1. Hard hat
2. Safety glasses
3. Steel-toed boots (leather)
4. Additional equipment needed will be site specific and should be provided at the site

HAZARDOUS WASTE WORKER STATUS REPORT

NAME: PR.NO.

BASIC TRAINING AND MEDICAL REQUIREMENTS

Record first expiration date from basic training and medical information below.

First Expiration Date

40/8 HOUR HAZ. WASTE TRAINING/REFRESHER: **EXPIRATION:**

24/8 HOUR HAZ. WASTE TRAINING/REFRESHER: **EXPIRATION:** (Visitor Training) **EXPIRATION:**

HEARING CONSERVATION: ANNUAL PHYSICAL:

RADIATION TRAINING: MASK FIT:

SKA-PAK TRAINING: CHEST COUNT:

CPR: WHOLE BODY COUNT:

24 HOUR On-The-Job TRAINING: (Date Completed/Initial Training Only)

ADDITIONAL TRAINING REQUIREMENTS

EXPIRATION: **EXPIRATION:**

WASH. ST DRILLER'S LIC. NO: FIRST AID:

CONFINED SPACE: SCBA TRAINING:

MSA 260 TRAINING: FIRE WATCH:

FIRE EXTINGUISHER TRAINING: ASBESTOS TRAINING:

GENERATOR HAZARDS: OTHER:

8 HOUR HAZ. WASTE SUPERVISOR TRAINING: (Date Completed/Initial Training Only)

BIOASSAY REQUIREMENTS

LAST SAMPLE: **LAST SAMPLE:**

STRONTIUM 90: PLUTONIUM 239:

URANIUM: TRITIUM:

The Employee named above is medically cleared to perform hazardous waste work. The required training has been verified as complete and the employee is qualified to perform work on a hazardous waste site.

If there are changes that affect the status of either the medical clearance or the training certification during the duration of the work (such as medical restrictions or expired training), the employee's cognizant manager will be notified.

Verified By: May 28, 1992 Date:

100 NPL Agreement/Change Control Form

Control Number		Date Submitted:
25	___ Change ___ Agreement _X_ Information Operable Unit(s) 100-DR-1	07-21-92 Date Approved:

Document Number & Title:

DOE/RL-89-09, Draft D, RCRA Facility Investigation/Corrective Measures Study Work Plan for the 100-DR-1 Operable Unit, Hanford Site, Richland, Washington.

Date Document Last Issued:

April 1992

Originator: N.M. Naiknimbalkar

Phone: 376-8739

Summary Description:

The 132-D-3 Effluent Pumping Station. Elimination from 100-DR-1 work plan schedule and DOW list for nonintrusive sites.

Justification and Impact of Change: 132-D-3 Effluent Pumping Station is considered a high priority liquid waste disposal facility. The work plan required one borehole which was drilled on 2/19-20/92. Samples were collected and sent to the laboratory for analysis.

The earlier work plans, Draft A (October 1989) & Draft B (August 1990) required a shallow boring for this site. These work plans recommended that after the nature of the contaminants is defined, the boring should be deepened.

During the rescoping of the work plan, Draft C (September 1991), the 132-D-3 effluent pumping station site was included in the high priority site category. Inadvertently this site was also included in the surface sampling work plan schedule.

The sampling requirements for this site have been met by the vadose drilling and therefore this site will be eliminated from the 100-DR-1 surface sampling schedule and DOW list.

N.M. Naiknimbalkar N.M. Naiknimbalkar 7/21/92
WHC Operable Unit Coordinator Date

E.D. Goller E D Goller 7/21/92
DOE Unit Manager Date

D. Teel D. Teel 7-21-92
Lead Regulatory Unit Manager Date

Per Action Plan for Implementation of the Hanford Consent Order and Compliance Agreement Section 9.3.

100 NPL Agreement/Change Control Form

Control Number		Date Submitted:
24	X Change ___ Agreement ___ Information Operable Unit(s) 100-DR-1	06-30-92 Date Approved:

Document Number & Title:	Date Document Last Issued:
DOE/RL-89-09, Draft B, RCRA Facility Investigation/Corrective Measures Study Work Plan for the 100-DR-1 Operable Unit, Hanford Site, Richland, Washington, August 1990.	September 1991

Originator: N.M. Naiknimbalkar

Phone: 376-8739

Summary Description:

Section 5.1.2.3.5 Activity 2c-5--Soil Gas Survey
o Paint Shop (west of 182-D reservoir).

Justification and Impact of Change: Paint Shop is a low priority support facility. The soil gas surveys were conducted at this site. The samples contained less-than detectable or insignificant concentrations of t-12-DCE, BENZENE, TOLUENE, ETHYLBENZENE, TOTAL XYLENES, 1,1,1-TCA, TCE and PCE chlorinated solvent vapors. In summary no significant contamination was encountered at this site. See attached 100-DR-1 Soil Gas Survey Results.

Based upon the above documented information, it is recommended that no further activities be conducted at this location at this time.

Please review and approve upon concurrence for the postponement of the activities.

N.M. Naiknimbalkar N.M. Naiknimbalkar 7/21/92
WHC Operable Unit Coordinator Date

E.D. Goller E.D. Goller 7-21-92
DOE Unit Manager Date

D. Teel D. Teel 7-21-92
Lead Regulatory Unit Manager Date

Per Action Plan for Implementation of the Hanford Consent Order and Compliance Agreement Section 9.3.

With Attachments:
- o Soil Gas Measurements
- o Map showing Sample Points
- o General Background for the 100-DR-1 Work Plans

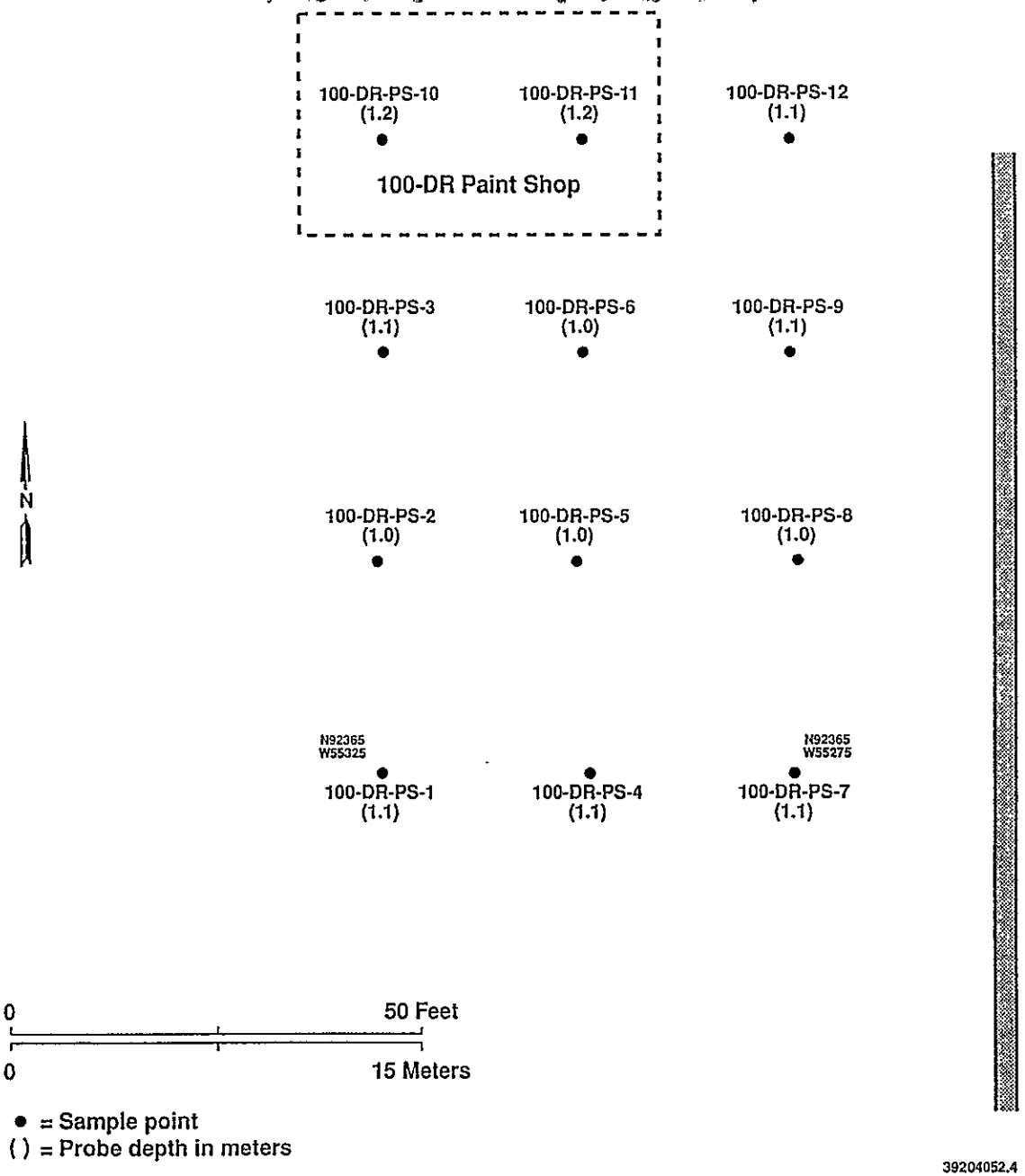
Table 1. Temporary Paint Shop Near 182-D Reservoir Soil Gas Monitoring Data

Soil Gas Measurements (ppm-v)

Probe #	Depth (m)	Sample Date	Analysis Date	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	t-1,2-DCE	1,1,1-TCA	TCE	PCE
100-DR-PS-1	1.1	09/09/91	09/10/91	<0.3	<0.25	<0.2	0.24	<0.25	<0.1	<0.1	<0.1
100-DR-PS-2	1.0	09/09/91	09/10/91	<0.3	<0.25	<0.2	0.2	<0.25	<0.1	<0.1	<0.1
100-DR-PS-3	1.1	09/09/91	09/10/91	<0.3	<0.25	<0.2	<0.2	<0.25	<0.1	<0.1	<0.1
100-DR-PS-4	1.1	09/09/91	09/10/91	<0.3	<0.25	<0.2	<0.2	<0.25	<0.1	<0.1	<0.1
100-DR-PS-5	1.0	09/09/91	09/10/91	<0.3	<0.25	<0.2	0.2	<0.25	<0.1	<0.1	<0.1
100-DR-PS-6	1.0	09/09/91	09/10/91	<0.3	<0.25	<0.2	0.2	<0.25	<0.1	<0.1	<0.1
100-DR-PS-7	1.1	09/09/91	09/10/91	<0.3	<0.25	<0.2	0.2	<0.25	<0.1	<0.1	<0.1
100-DR-PS-8	1.0	09/09/91	09/10/91	<0.3	<0.25	<0.2	<0.2	<0.25	<0.1	<0.1	<0.1
100-DR-PS-9	1.1	09/09/91	09/10/91	<0.3	<0.25	<0.2	<0.2	<0.25	<0.1	<0.1	<0.1
100-DR-PS-10	1.2	06/24/92	06/24/92	<0.3	<0.25	<0.2	<0.2	<0.5	<2.5	<3.0	<0.5
100-DR-PS-11	1.2	06/24/92	06/24/92	<0.3	<0.25	<0.2	<0.2	<0.5	<2.5	<3.0	<0.5
100-DR-PS-12	1.1	06/24/92	06/24/92	<0.3	<0.25	<0.2	<0.2	<0.5	<2.5	<3.0	<0.5

Quality Control Samples (ppm-v)

Type of QC Sample	Sample Date	Analysis Date	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	t-1,2-DCE	1,1,1-TCA	TCE	PCE
Ambient Air	09/09/91	09/10/91	<0.3	<0.25	<0.2	<0.2	<0.25	<0.1	<0.1	<0.1
Equipment Blank	09/09/91	09/10/91	<0.3	<0.25	<0.2	<0.2	<0.25	<0.1	<0.1	<0.1
100-DR-PS-5 Duplicate	09/09/91	09/10/91	<0.3	<0.25	<0.2	<0.2	<0.25	<0.1	<0.1	<0.1
Ambient Air	06/24/92	06/24/92	<0.3	<0.25	<0.2	<0.2	<0.5	<2.5	<3.0	<0.5
100-DR-PS-11 Duplicate	06/24/92	06/24/92	<0.3	<0.25	<0.2	<0.2	<0.5	<2.5	<3.0	<0.5


100-DR-PS-10
(1.2)
100-DR-PS-11
(1.2)
100-DR-PS-12
(1.1)
100-DR Paint Shop
100-DR-PS-3
(1.1)
100-DR-PS-6
(1.0)
100-DR-PS-9
(1.1)
N
100-DR-PS-2
(1.0)
100-DR-PS-5
(1.0)
100-DR-PS-8
(1.0)
N92365
W55325
N92365
W55275
100-DR-PS-1
(1.1)
100-DR-PS-4
(1.1)
100-DR-PS-7
(1.1)
0
50 Feet
0
15 Meters
● = Sample point
( ) = Probe depth in meters
39204052.4

GENERAL BACKGROUND FOR THE 100-DR-1 WORK PLANS

The Work Plans for 100-DR-1 have evolved through revisions from Draft A (October, 1989), Draft B (August, 1990), Draft C (September, 1991) and Draft D to be released in June 1992. Several significant changes were made during these revisions. As an example the Draft A and B contained Sampling and Analysis Plans but the subsequent drafts eliminated the Sampling Plans. Different revisions were used for conducting different activities. For the soil gas survey activities the Draft B was used.

The following low priority sites, being considered for postponement for any further investigative work at this time, were included in the Draft B (August 1990) Work Plan for Soil Gas Survey.

- 1713-D instrument and electrical development laboratory
- 1714-D solvent storage building
- 1715-D oil and paint storage
- 1716-D gas station
- 1722-D equipment development laboratory
- Paint Shop (west of 182-D reservoir)

The plan describes the process of soil gas survey as follows:

"Probes will be installed from 1 m to 2 m (3 ft to 6 ft) deep in backfill around the buried tanks and pipelines, and other relatively small facilities (assumed for the purpose of this workplan to encompass an area of less than 930 square m (10,000 square ft) on about 7.6 m (25-ft) centers. The extent of contamination will be determined by installing additional probes until no detectable contamination is found in two adjacent probes bounding the area. Areas of contamination detected during the soil gas survey may be sampled during Task 5, Vadose Zone Investigation, as needed, to define the vertical extent of the contamination."

The soil Gas surveys have been completed for these sites and no significant contamination was encountered. Based on this documented data it is recommended that these sites be postponed from any further activities at this time and be considered at the time of final remedy selection phase as described in Figure 4-1 (Final Remedy Selection Process) of the 100-DR-1 Work Plan, Draft D.

Distribution
Unit Manager's Meeting: 100 Aggregate Area/100 Area Operable Units
July 29, 1992

Julie K. Erickson . . . . . Chief, Env. Remed. Br., DOE-RL, ERD (A5-19)
Mike Thompson, ... DOE-RL, EAP/RPB (A5-19)
Diane Clark, ... DOE-RL, TSD/SSB (A5-55)
Steve Balone, ... DOE-HQ (EM-442)
Suzanne Clarke, SWEC . . . . . GSSC to DOE-RL (A4-35)

Dennis Faulk . . . . . 100 Aggregate Area Manager, EPA (B5-01)
Ward Staubitz, USGS . . . . . Support to EPA
Audree DeAngeles, PRC . . . . . Support to EPA

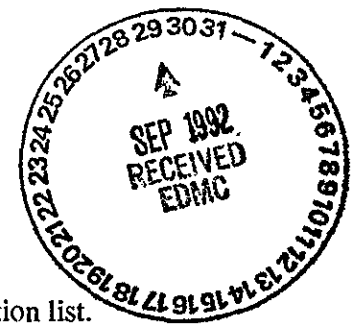
Darci Teel . . . . . 100 Aggregate Area Manager, WDOE (Kennewick)
Larry Goldstein . . . . . WDOE (Lacey)

Lynn Albin . . . . . Washington Dept. of Health

Tom Wintczak, WHC . . . . . (L4-92)
Mel Adams, WHC . . . . . (H4-55)
Bob Henckel, WHC . . . . . (H4-55)
L.D. Arnold, WHC . . . . . (B2-35)
A.D. Krug, WHC . . . . . (H4-55)
Roberta, Day, WHC . . . . . (H4-55)
Powers, Linda L., WHC . . . . .

Chris Abraham, ... GAO (A1-80)

ADMINISTRATIVE RECORD: 100 AAMS; Care of EDMC, WHC (H4-22)



Please inform Suzanne Clarke (SWEC) of deletions or additions to the distribution list.