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Final

Meeting Minutes Transmittal/Approval
Unit Manager's Meeting: 100 Aggregate Area/100 Area Operable Units
450 Hills Street, Richland, Washington
April 23, 1992

FROM/APPROVAL: Eric D. Goller Date 5-27-92
Eric D. Goller, 100 Area Unit Manager, RL (A5-19)

APPROVAL: Darci Teel Date 5-27-92
Darci Teel, 100 Aggregate Area Unit Manager, WA Department of Ecology

APPROVAL: Dennis Faulk Date 5-27-92
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 Aggregate Area Investigations Status
- Attachment #7 - 100 DR-1 Status of Schedule and Activities
- Attachment #8 - 100-HR-3 Groundwater Operable Unit Work Summary
- Attachment #9 - 100-HR-1 Tasks
- Attachment #10 - 100-BC-1 Source Operable Unit Work Summary
- Attachment #11 - 100-KR-1 DOW Schedules
- Attachment #12 - 100-BC-5 Groundwater Operable Unit Work Summary
- Attachment #13 - DOW Schedule for remaining 100 Area Operable Units
- Attachment #14 - Review: RLS Borehole Surveys with Field Screening
- Attachment #15 - Draft: 100-Area Integrated Schedule
- Attachment #16 - Agreement Activity Notification: 7 groundwater wells at 100-KR-4
- Attachment #17 - 100-HR-3 Groundwater Monitoring Network

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Prepared by: Date:
Bill Fryer, Suzanne Clarke, GSSC

Concurrence by: Date: 5/27/92
Bob Henckel, WHC Coordinator

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Attachment #1
Meeting and Summary of Commitments and Agreements

Unit Manager's Meeting: 100 Aggregate Area/100 Area Operable Units
April 23, 1992

1. SIGNING OF THE MARCH 100 AREA UNIT MANAGER'S MEETING MINUTES:

Minutes from the March 100 Areas Unit Manager's Meeting were reviewed and approved after changes initiated by Ecology and EPA were incorporated.

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

1AAMS.8 Dennis Faulk Darci Teel	The regulators will review the data concerning RLS Borehole Surveys (see Attachment 14) and present their decision on the need for further analysis at the May UMM.
1AAMS.10 Eric Goller	DOE will send a letter with a white paper to the regulators in late April/early May concerning the proposed structure of the 100 Area Feasibility Studies reports. A meeting is scheduled for Monday, May 11, 1:00 PM at the EPA-Richland office to confer with the regulators on this subject.

3. NEW ACTION ITEMS (INITIATED APRIL 23, 1992):

- No new action items were initiated at this meeting.

4. SCREENING/LOGGING COMPARISONS:

- Randall Price presented a comparison of the field screening data (RLS borehole surveys) with the geophysical logs. Viewgraphs from this presentation are reproduced in Attachment 14.

5. 100 AREA ACTIVITIES:

- The status of 100 Area wide activities schedule is shown in Attachment 5.

- The 100 Aggregate Areas investigations status is presented in Attachment 6.

- Data Compilation Reports were distributed to the regulators, including: Columbia River Monitoring Data Compilation, Hydrologic and Geologic Data Available for the Region North of Gable Mountain, and Geology of the Northern Part of the 100 Areas. A list of these documents is given on page 2 of Attachment 6.

- DOE responded to an inquiry regarding M-30-04. A status update will be arranged for later in May.

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6. WORK PLANS:

- Informal agreements concerning the inclusion of schedules in work plans:

  <u>Agreement</u>: Drilling schedules will appear in each of the 1st five 100 Area Work Plans, with the disclaimer that they are for information only and not binding on other Operable Units. Attachment 15 shows draft format and content as an example.

  <u>Agreement</u>: The 100 Area Integrated Schedule included in each of the 1st five work plans will cover only the 1st five Operable Units. The schedule will include the disclaimer that they are for information only and not binding on other Operable Units. The Integrated Schedule will be updated as schedules for additional work plans are approved.

- Meetings for comment disposition on 1st five work plans:

  - Final comment disposition for 100-HR-1, HR-3, and DR-1 is scheduled for Wednesday, April 29, at 8:30 AM in Lacey.

  - Initial comment disposition for 100-NR-1 and NR-2 is scheduled for Tuesday, May 5, at 8:30 AM in Lacey.

- WHC indicated they could supply the final 100-BC-1 Work Plan to EPA about May 4th. EPA will supply DOE with copies of their required distribution list.

7. STATUS OF 100 OPERABLE UNIT FIELD ACTIVITIES:

- Field Activity Reports were presented by Operable Unit Managers (see Attachments 7 - 13).

- USGS will talk with WHC about delays in installing conductivity probes in 100-BC-5 wells.

- DOE provided the Agreement Activity Notification to the regulators for well drilling in the 100-KR-4 Operable Unit, see Attachment 16.

100-HR-3 GROUNDWATER WELL NETWORK:

- The proposal for the 100-HR-3 groundwater monitoring network was presented by Steven Vukelich (WHC)(see Attachment 17). Following discussion, Eric Goller (DOE-RL) indicated that the proposal will be reconsidered internally, and presented again later.

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Attachment #2

100 Areas Unit Managers Meeting
April 23, 1992
10:00 - 12:00

RI (RFI) Status

- Screening/Logging Comparisons - R. Price

- 100 Area Activities

  Risk Assessment - Steve Clark
  Feasibility Studies - L. Bergmann
  River Impact Study - S. Weiss
  Ecological Investigations - S. Weiss

- Work Plans - Alan Krug/Roberta Day

  Inclusion of Drilling and Integrated Schedules in work plans
  Set dates for final comment dispositions on:
  100-HR-1
  100-HR-3
  100-DR-1
  Set dates for initial comment dispositions on:
  100-NR-1
  100-NR-2

- Field Activities -

  100-DR-1 - N. Naiknimbalkar
  100-HR-1 - J. Ayres
  100-HR-3 - S. Vukelich
  100-BC-1 - R. Day
  100-BC-5 - J. Roberts
  Other OUs - A. Krug/R. Day

- 100-HR-3 Groundwater Well Network - S. Vukelich

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Attachment #3

100 Aggregate Area
Official Attendance Record
April 23, 1992

Please print clearly and use black ink

PRINTED NAME	SIGNATURE	ORGANIZATION	O.U. ROLE	TELEPHONE
WILLIAM FRYER	[signature]	SWEC	GSSC	509-376-9930
Brian Drost	[signature]	USGS	EPA Support	206-593-6510
Ward Stanbitz	[signature]	USGS	EPA Support	206-593-6510
Doug Sherwood	[signature]	EPA	Observer	509-376-9529
Jerry Shuster	[signature]	PRC	EPA Support	206-624-2912
STEVE VULKELICH	[signature]	WHC	100HR-3	509 376-5158
RANDALL PRICE	[signature]	WHC	BOREHOLE GEOPHYSICS	509-372-1120
Steve Weiss	[signature]	WHC	100 Aggregate Area	509 376 1683
BOB PETERSON	[signature]	WHC	100 Aggregate Area	(509) 376-5858
Steve Cross	[signature]	Ecology	CERCLA	206 459 6615
William J. MALLIO	[signature]	SWEC	GSSC	(509) 376-6995
Jim Roberts	[signature]	WHC	100-BC-5 100-KR-4	(509) 376-5164
Mike Stankovich	[signature]	WHC	100 Area	(509) 376-2493
Darci Teel	[signature]	Ecology	100 Area OU Mang	509 5752312
Paul Beaver	[signature]	EPA	Unit Manager	509 376-8665
N M Naiknimbalkar	[signature]	WHC	DR-1 OP. Unit Coord	509-376-8739
Lawrence Gadbois	[signature]	EPA	Unit Manager	509-376-9884
Dennis Faulk	[signature]	EPA	Unit Manager	376-8631
Billie Mauss	[signature]	Ecology	CERCLA-QA	(509) 546-2993
Richard Hibbard	N/A	Ecology	UNIT Support	(206) 493-9367
RICH MULLEN	N/A	PARAMETRIX	Ecology Support	(206) 455-2550
BOB HENCKEL	[signature]	WHC	100 Area Mngr	(509) 376-2691
Jon Sprecher	[signature]	B&C	Ecology Support	(503) 244-7005

Attachment #3

100 Aggregate Area
Official Attendance Record
April 23, 1992

Please print clearly and use black ink

PRINTED NAME	SIGNATURE	ORGANIZATION	O.U. ROLE	TELEPHONE
A.D. Krug	AD Krug	WHC	100 Area H,D,N	6-5634
RE Day	RE Day	WHC	100 Areas	6-7602
PAMELA INNIS	Pamela Innis	EPA	Unit Manager	376-4917
CHUCK CLINE	Charles L. Cline	Ecology	Unit Mgr.	(206) 438-7556
Suzanne Clarke	Suzanne Clarke	SWEC	GSSC	(509) 372-0630
Eric Geller	Eric Geller	RL	100 Area Unit Mgr.	(509) 376-7326

Attachment #4
Action Item Status List

Unit Manager's Meeting: 100 Aggregate Area/100 Area Operable Units
March 26, 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)	Open: Remains open on the question of when the data will be in HEIS. (7/18/91)
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)	Open: WHC sent a letter to DOE requesting guidance on the extent of NEPA documentation required and is awaiting DOE's response. (7/18/91)
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)
1NR.3	Provide to Ecology (and EPA if desired) the DOE guidance documents that are needed. Action: Larry Goldstein (7/18/91)	Open: Larry Goldstein will send a letter specifying exactly what supporting documents Ecology would like to receive. (7/18/91)
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)	Open

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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)	Open
1AAMS.3	Clarify the level above which RAD samples can not be shipped off site. Action: DOE (12/17/91)	Open
1AAMS.4	Provide a plan for incorporating the comments of EPA and Ecology into the work plans. Action: RL (12/17/91)	Open
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
1AAMS.6	The N-Springs IRM program is to be reviewed and comments and recommendations are to be made to RL by 1/31/92. Action: L. Goldstein. (1/23/92)	Open
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)	Open
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 to Merl Lauterbach (2/27/92)	Open **The regulators will review the data concerning RLS Borehole Surveys (see Attachment 14) and present their decision on the need for further analysis at the May UMM. 4/23/92**

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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).	Open
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.	Open **DOE will send a letter with a white paper to the regulators in late April/early May concerning the proposed structure of the 100 Area Feasibility Studies reports. A meeting is scheduled for Monday, May 11, 1:00 PM at the EPA-Richland office to confer with the regulators on this subject. 4/23/92**

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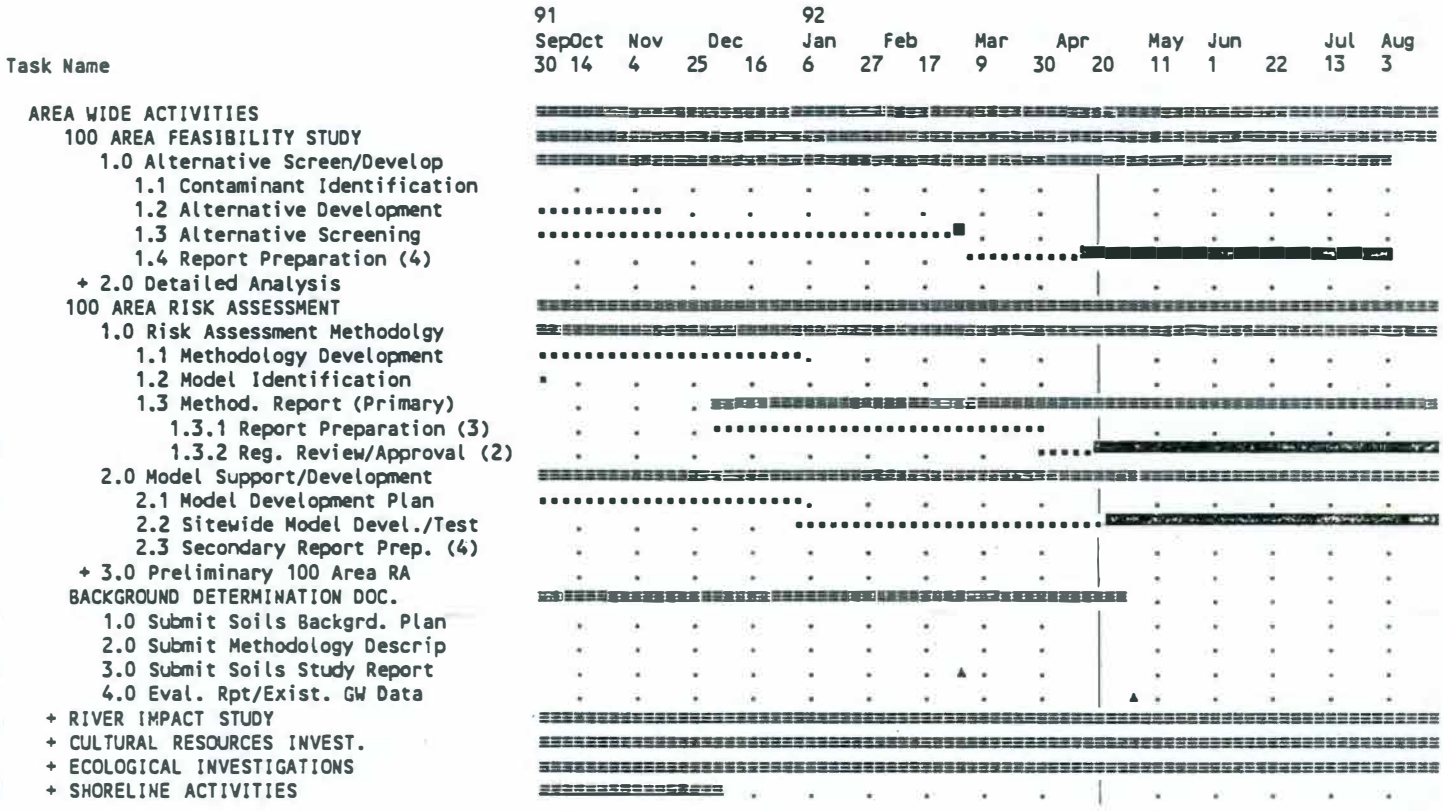
Attachment #5

Schedule Name : 100 Area Wide Activities
Responsible :
As-of Date : 20-Apr-92 Schedule File : DECSTAT



Detail Task — Summary Task — Baseline
(Progress) — (Progress) — Conflict
(Slack) — (Slack) — Resource delay
Progress shows Percent Achieved on Actual — Milestone
Scale: 3 days per character

TIME LINE Gantt Chart Report, Strip 1, Page 1

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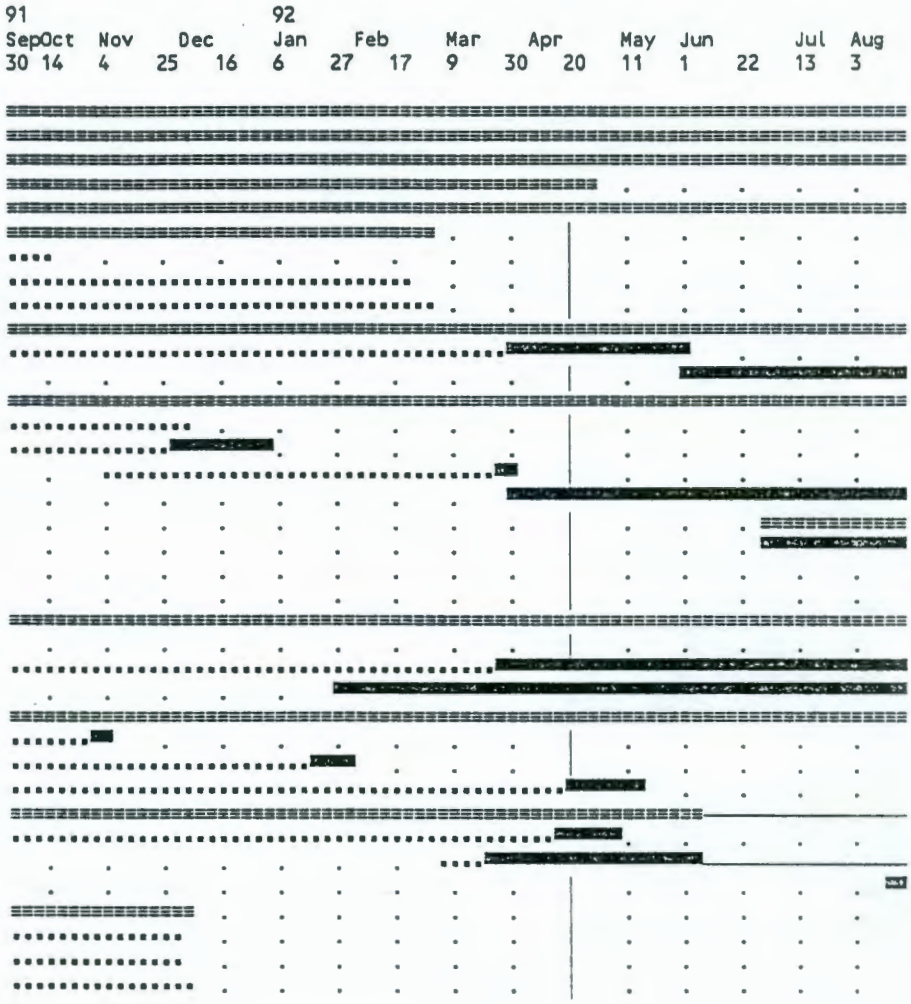
Schedule Name : 100 Area Wide Activities
Responsible :
As-of Date : 20-Apr-92 Schedule File : DECSTAT



Detail Task — Summary Task — Baseline
(Progress) — (Progress) — Conflict
(Slack) — (Slack) — Resource delay
Progress shows Percent Achieved on Actual — Milestone
Scale: 3 days per character

TIME LINE Gantt Chart Report, Strip 1, Page 1

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Attachment #6

Date: April 23, 1992
Subject: 100 Aggregate Area Investigations Status

RIVER IMPACT STUDIES

2.0 Cumulative Health Effects (Milestone M-30-02) Work and review of the approach are proceeding.

3.0 Aquifer/River Interaction (Milestone M-30-04) The feasability of approaches is complete; the application of approach (cyclic fluctuations in water levels to infer aquifer properties) using data from the installed loggers is in progress.

3.2 River Stage Recorder Installation: One-half of the equipment is installed (2 river recorders and 9 well transducers; installation of 2 river recorders and 7 well transducers is in progress.

CULTURAL RESOURCES SURVEYS:

Cultural Resources Work on consultations with Native Americans, interior HR-3 surveys, coordination with drilling, etc, is continuing.

ECOLOGICAL INVESTIGATIONS:

1.0 Data synthesis (evaluation) report: A draft of the ecological data evaluation and synthesis has been peer reviewed. The comments are waiting to be incorporated.

2.0 Aquatic investigations: No change

3.0 Terrestrial Surveys and Sampling: A draft of the FY 1991 report has been published. A DOW is in review for FY 1992 sampling. Quick turnarounds are requested to be able to sample at the optimal times.

4.0 Threatened and Endangered Species Biological Assessment and Bald Eagle Site Management Plan: All expected review comments on the drafts of the Bald Eagle Site Management Plan and Biological Assessments for wildlife and for plants have been received and are being incorporated.

100 AGGREGATE AREA SHORELINE INVESTIGATIONS

3.0 Shoreline Radiation Surveys The radiation surveys of the HR-3 and KR-4 shorelines have been completed.

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DOCUMENTS

CULTURAL RESOURCES:

FY 1991 Report on Archaeological Surveys of the 100 Areas, Hanford Site (in clearance)	April 1992

ECOLOGICAL:

FY 1991 100 Areas CERCLA Ecological Investigations WHC-EP-0448	April 1992*
Ecological Data Compilation Investigations Status Report for the 100 Area Operable Units WHC-MR-0272	November 1991*
Biological Assessment for Rare and Endangered Plant Species WHC-EP-0526	April 1992
Vascular Plants of the Hanford Site WHC-EP-0554	May 1992

SHORELINE/AGGREGATE AREA:

Columbia River Data Compilation WHC-SD-EN-DP-024	February 1992*
Spring and Seep Sampling Report (M-30-01) DOE/RL-92-12	February 1992*
Hydrologic and Geologic Data for the Region North of Gable Mtn WHC-D-EN-TI-006	February 1992*
Geology of the Northern Part of the Hanford Site: An Outline of Data Sources and the Geologic Setting of the 100 Areas WHC-SD-EN-TI-011	March 1992*

* Documents completed and distributed

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Attachment #7

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

Presenter - N. M. (Naik) Naiknimbalkar

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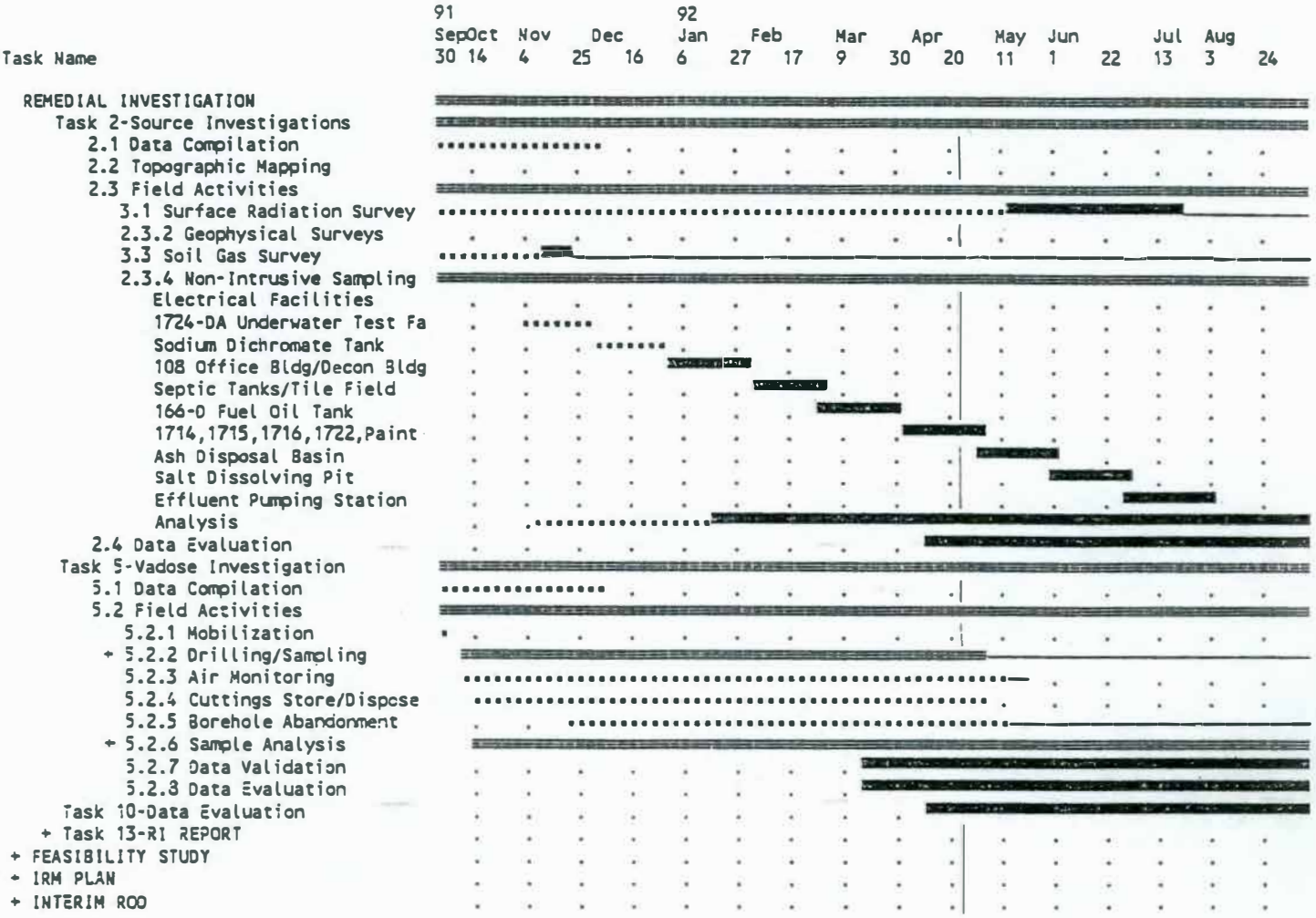
Schedule Name : 100-DR-1
Responsible : N. Naiknimbalkar
As-of Date : 23-Apr-92 Schedule File : DR1

Dependencies : REMEDIAL INVESTIGATION



Detail Task — Summary Task — Baseline
(Progress) — (Progress) — Conflict
(Slack) — (Slack) — Resource delay
Progress shows Percent Achieved on Actual — Milestone
Scale: 3 days per character

TIME LINE Gantt Chart Report, Strip 1, Page 1

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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.

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OPER. UNIT	SAMPLES	SAMPLING ACTIVITY	BEGINNING SAMPLING DATE	ENDING SAMPLING DATE	DATE DATA IS DUE FROM THE LAB.	VALIDATION COMPLETION DATE	REPORT MILESTONE DATE
	5	1722-D Equipment Development Lab	7/13/92	7/13/92	11/1/92	11/22/92	1/30/93
	5	Paint Shop (west of 182-D)	7/13/92	7/13/92	11/1/92	11/22/92	1/30/93
	5	Ash Disposal Basin	7/1/92	7/1/92	12/1/92	12/22/92	2/30/93
	6	Salt Dissolving Basin	7/1/92	7/1/92	12/1/92	12/22/92	2/30/93
	5	132-D-2 Effluent Pumping Station	7/1/92	7/1/92	12/1/92	12/22/92	2/30/93
	5	103-D Green Metal Storage	7/1/92	7/1/92	12/1/92	12/22/92	2/30/93
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

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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	5-1-92
Septic Tanks/Tile Fields	3-04-92	3-18-92	5-1-92
166-D Fuel Tank	NA	NA	NA
1714-D, 1715-D, 1716-D, 1722-D and Paint Shop	5-25-92	6-8-92	7-13-92
Ash Disposal Basin	5-25-92	6-8-92	7-1-92
100-D Salt Dissolving Pit	5-25-92	6-8-92	7-1-92
132-D-3 Effluent Pumping Station	5-25-92	6-8-92	7-1-92
103-D Green Metal Storage Building	5-25-92	6-8-92	7-1-92

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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	See following borehole Summary Table 4.

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Table 4
Complete 100-DR-1 Boreholes Data-Summary

Borehole No.	Total Depth	Number of Samples to Off-site Lab.	Gross Gamma / Spectral Gamma	Highest Rad Counts/Depth (HPT-GM)	Start/Finish Date
116-D-1A Trench	53.2 ft.	13	Gross Gamma / Spectral Gamma	1500/18 ft.	10-22/ 11-1-91
116-D-1B Trench	36.8 ft.	9	None	1100/15-20 ft.	10-25/ 11-4-91
116-DR-1 Trench	40.2 ft.	6+2 Physical	Gross Gamma	900/18 ft.	11-13/ 11-13 -91
116-DR-2 Trench	37.0 ft.	7	Gross Gamma	400/15 ft.	11-15/ 11-19-91
116-D-4 French Drain	23.0 ft.	4	Gross Gamma	< BKGRD*	12-2/ 12-2-91
116-D-9 Crib	27.8 ft.	2	Gross Gamma	< BKGRD*	12-9/ 12-9-91
116-D-3 French Drain	22.4 ft.	4	Gross / Spectral Gamma	< BKGRD*	12-10/ 12-11-91
116-D-7 Retention Basin	36.6 ft.	4	Gross Gamma	2000/3 to 4 ft.	12-13/ 12-31-91
116-DR-9 (A) Reten. Basin	36.9 ft.	10	Gross Gamma	14000/2 ft.	1-10/ 1-15-92

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Borehole No.	Total Depth	Number of Samples to Off-site Lab.	Gross Gamma/ Spectral Gamma	Highest Rad Counts/Depth (HPT-GM)	Start/Finish Date
116-DR-9 (B) Retention Basin	37.4 ft.	6	Gross Gamma	7000/4 ft.	1-20/ 1-23-92
116-DR-9 (C) Retention Basin	37.5 ft	5	None	2000/4 ft.	1-27/ 2-6-92
116-D-5 Outfall Structure	27 ft.	2	Gross Gamma/ Spectral Gamma	< BKGRD*	1-24/ 1-28-92
130-D-1 Gasoline Storage Tank	37 ft.	9	Gross Gamma	< BKGRD*	2-6/ 2-10-92
116-DR-5 Outfall Structure	27.5 ft.	2	Gross Gamma/ Spectral Gamma	< BKGRD*	2-4/ 2-10-92
132-D-3 Effl. Pump Sta.	38.5 ft.	4	Gross Gamma/ Spectral Gamma	< BKGRD*	2-19/ 2-20-92
116-D-6 French Drain	22 ft.	5	Gross Gamma/ Spectral Gamma	< BKGRD*	2-18/ 2-19-92
116-D-2 Pluto Crib	6 ft.	Abandoned**			
116-D-2A*** Pluto Crib	25 ft.	3	Gross Gamma/ Spect. Gamma	2000/12 ft.	2-18/ 2-19-92

* Background= 150 Counts per minute.

** 116-D-2: Original location of 116-D-2 shown in Figure 5-1, Draft C of 100-DR-1 Work Plan, is actually a location of water tower. Prior to drilling

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for 116-D-2 Pluto Crib a walkover was conducted with R. Richards and a new location was established based on Mr. Richards recommendations. A hole was started at this location but was abandoned after intercepting unexpected cement slab.

*** 116-D-2A: A GPR survey, in the meanwhile, was being conducted for soil gas activities in the same area to locate 1607-D4 Septic Tank, suggested a disturbance 70 feet South and 30 feet West of the abandoned hole. This new location appeared to be the pluto crib because of the size and depth. Also, there was only one another disturbance in the area, the one intercepted for 1607-D4 Septic Tank. A hole was drilled to a depth of 25 feet and was designated as 116-D-2A. The drilling appears to confirm that this was the pluto crib because it encountered contamination beginning at 10 feet as expected.

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 5

9 2 1 2 6 1 3 1 7 8 0

Table 5

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.

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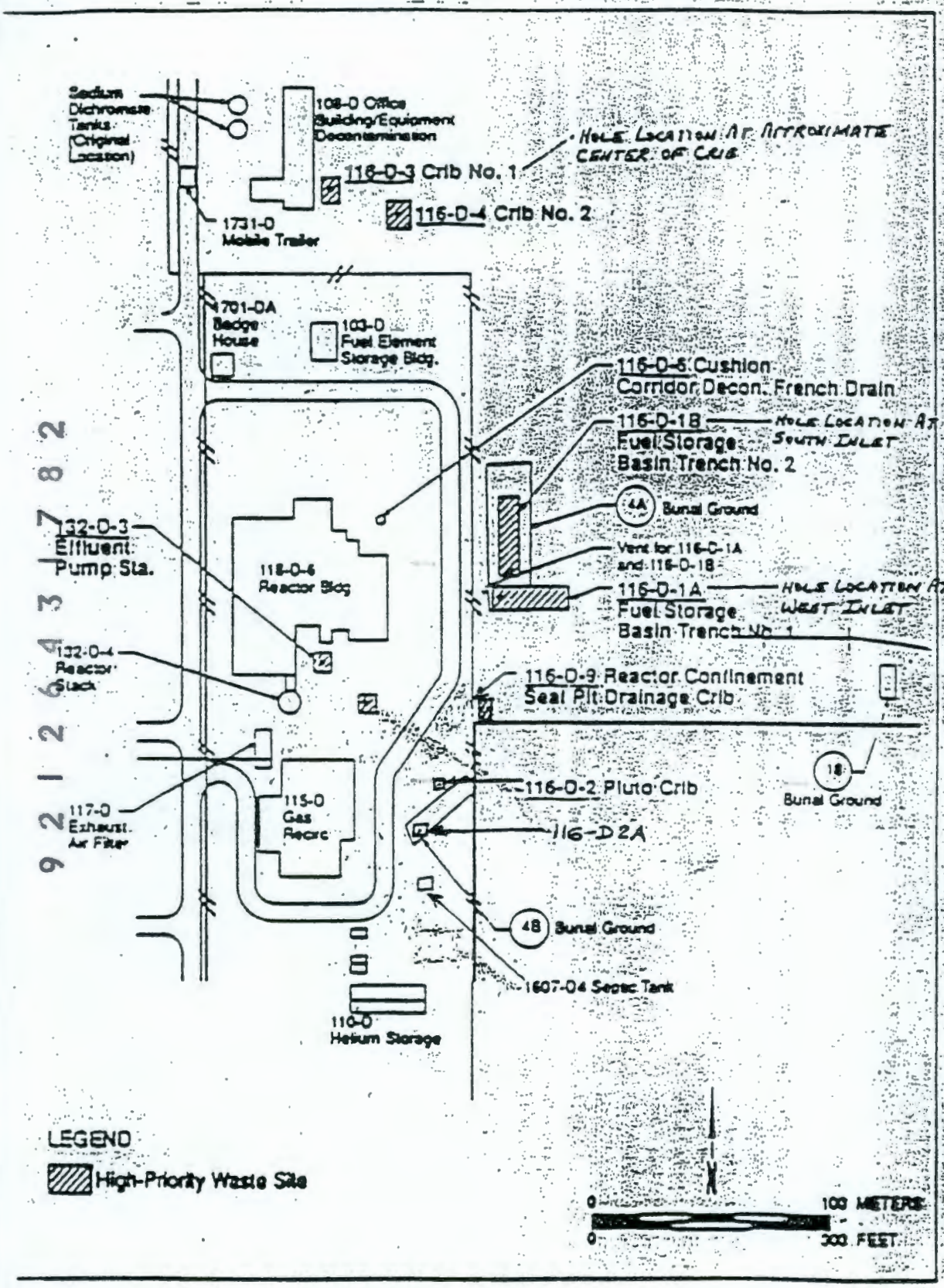
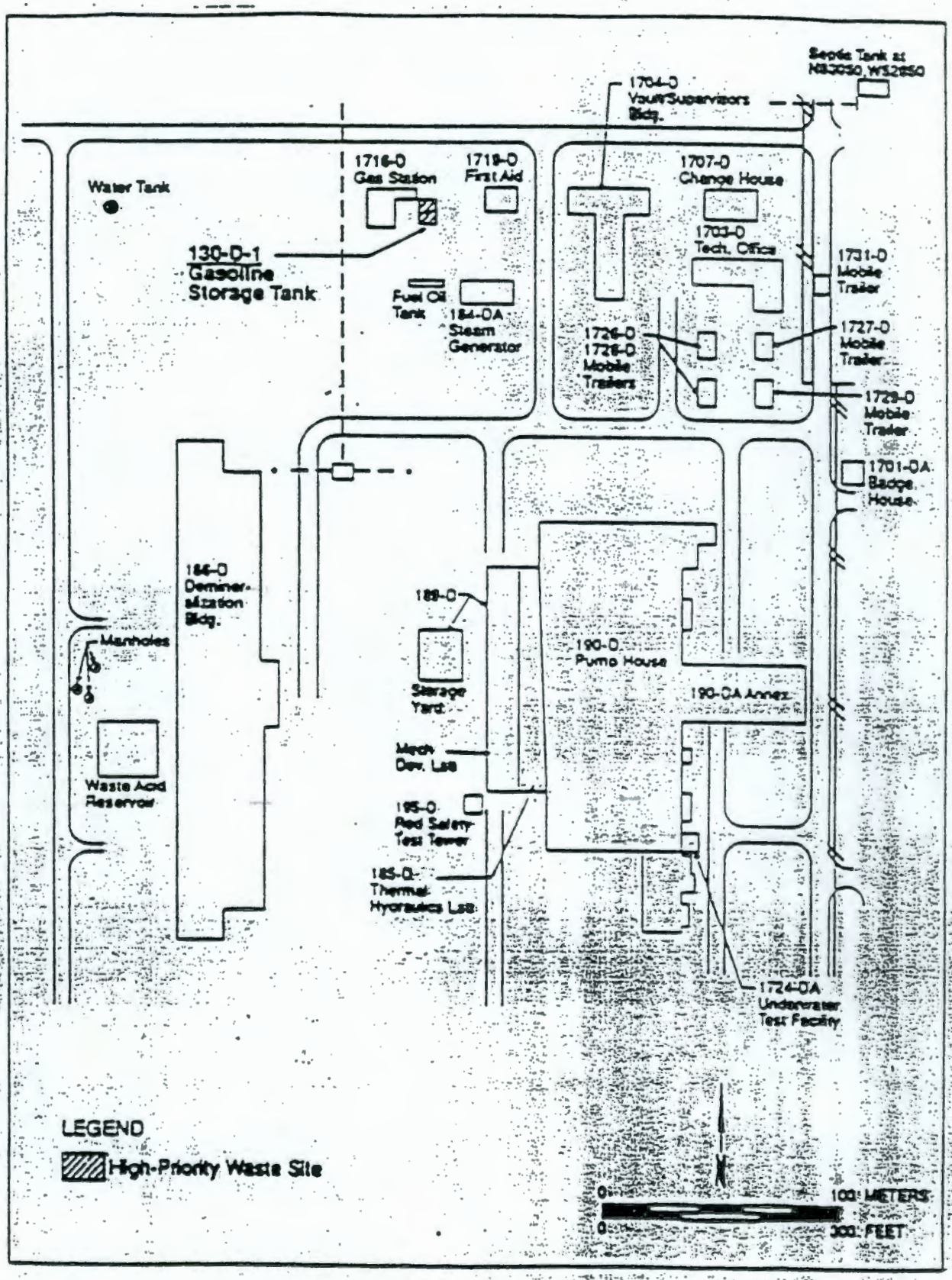

Sodium Dichromate Tanks (Original Location)
108-0 Office Building/Equipment Decontamination
116-0-3 Crib No. 1
HOLE LOCATION AT APPROXIMATE CENTER OF CRIB
116-0-4 Crib No. 2
1731-0 Mobile Trailer
1701-0A Badge House
103-0 Fuel Element Storage Bldg.
116-0-6 Cushion Corridor Decon. French Drain
116-0-1B Fuel Storage Basin Trench No. 2
HOLE LOCATION AT SOUTH INLET
4A Burial Ground
Vent for 116-0-1A and 116-0-1B
116-0-1A Fuel Storage Basin Trench No. 1
HOLE LOCATION AT WEST INLET
132-0-3 Effluent Pump Sta.
118-0-6 Reactor Bldg
132-0-4 Reactor Stack
116-0-9 Reactor Confinement Seal Pit Drainage Crib
116-0-2 Pluto Crib
18 Burial Ground
117-0 Exhaust Air Filter
115-0 Gas Recirc
116-D2A
48 Burial Ground
1607-04 Septic Tank
110-0 Helium Storage
LEGEND
High-Priority Waste Site
N
0 100 METERS
0 300 FEET



9 2 1 2 6 4 3 1 7 8 3

Attachment #8

100 HR-3 GROUNDWATER OPERABLE UNIT
WORK SUMMARY 4/20/92

TASK 3 - GEOLOGIC INVESTIGATION

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

TASK 5 - VADOSE INVESTIGATION

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

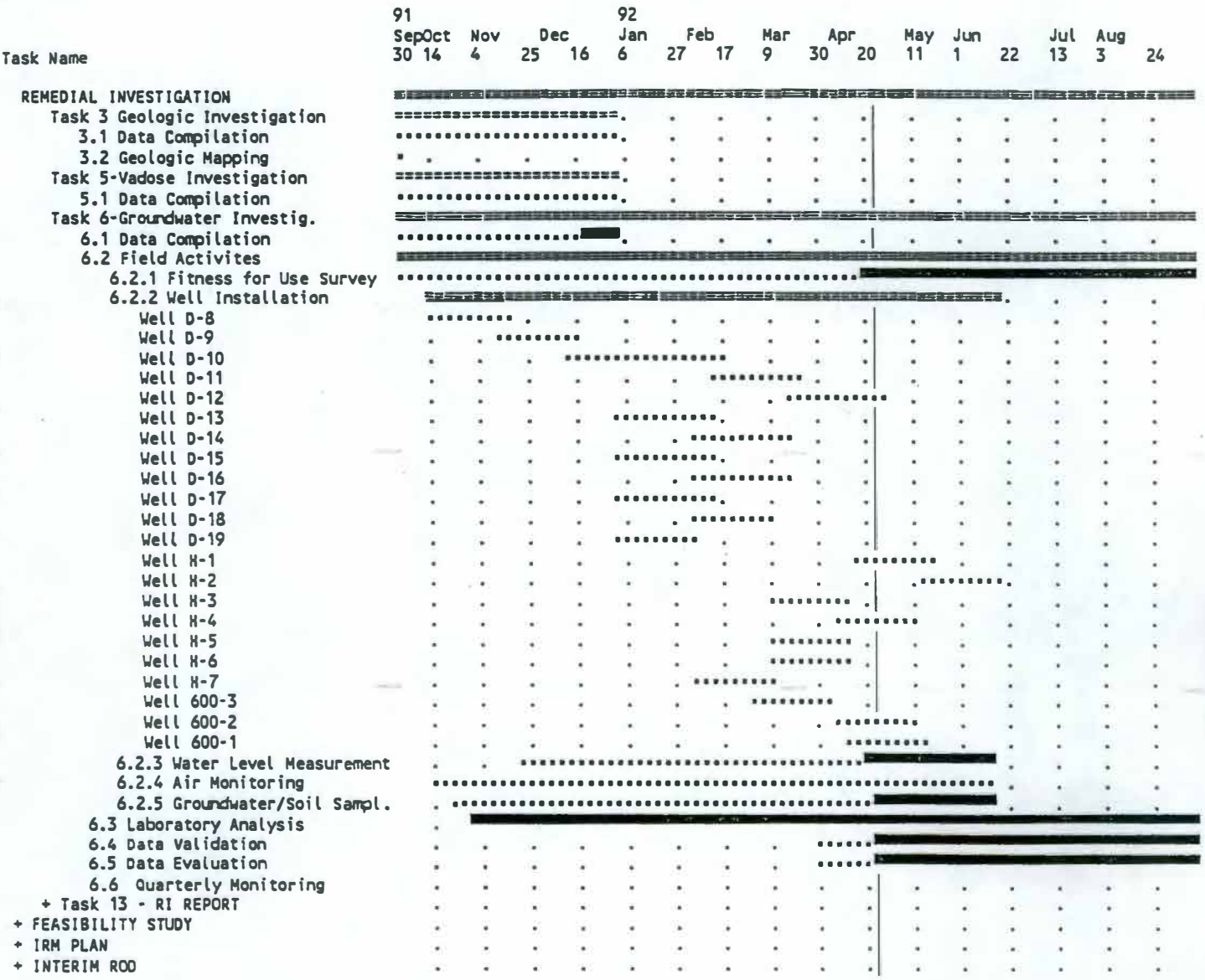
TASK 6 - GROUNDWATER INVESTIGATION

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

9 2 1 2 6 4 3 1 7 8 4

Schedule Name : 100-HR-3
Responsible : Steve Vukelich
As-of Date : 23-Apr-92 Schedule File : HR3

INVESTIGATION



Detail Task — Summary Task — Baseline
(Progress) — (Progress) — Conflict
(Slack) — (Slack) — Resource delay
Progress shows Percent Achieved on Actual — Milestone
Scale: 3 days per character

TIME LINE Gantt Chart Report, Strip 1, Page 1

9 2 1 2 6 4 3 1 7 8 5

100 HR-3
GROUNDWATER WELL DRILLING
STATUS 4/20/92

Well #	Start Date	Present Depth (ft)	Finish Date	Status
1	1/29/92	55 TD	2/6/92	Screen Installed
2	1/17/92	57 TD	1/27/92	Developed
3	1/23/92	62 TD	1/29/92	Developed
4	1/23/92	60 TD	1/29/92	Developed
5	1/30/92	62 TD	2/4/92	Developed
6	1/31/92	60 TD	2/10/92	Developed
7	1/29/92	57 TD	2/11/92	Screen Installed
8	10/17/91	70 TD	11/5/91	Developed
9	11/7/91	77 TD	11/21/91	Developed
10	10/17/91	149 TD	11/12/91	Developed
11	11/25/91	75 TD	12/16/91	Developed
12	12/11/91	112 TD	1/15/92	Developed
13	12/16/91	100 TD	1/8/92	Developed
14	1/9/92	115 TD	1/28/92	Developed
15	12/17/91	100 TD	1/7/92	Developed
16	12/20/91	95 TD	1/7/92	Developed
17	1/8/92	113 TD	1/14/92	Developed
18	1/10/92	101 TD	1/22/92	Developed
19	1/15/92	102 TD	1/22/92	Developed
20	2/5/92	83 TD	2/11/92	Screen Installed
21	2/10/92	46 TD	2/19/92	Screen Installed
22	2/10/92	51 TD	2/12/92	Screen Installed

* Soil samples are collected for laboratory analysis at 10 ft. above, 5 ft. above and 5 ft. below the expected groundwater table.

9 2 1 2 6 4 3 1 7 8 6

Attachment #9

100-HR-1 TASKS, APR 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 Summer 1992
-Pipeline Assessment- Completed (Jan 92)
-Electrical Facilities, Completed Sampling Dec 91 (8 Samples), Awaiting Analytical Results

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

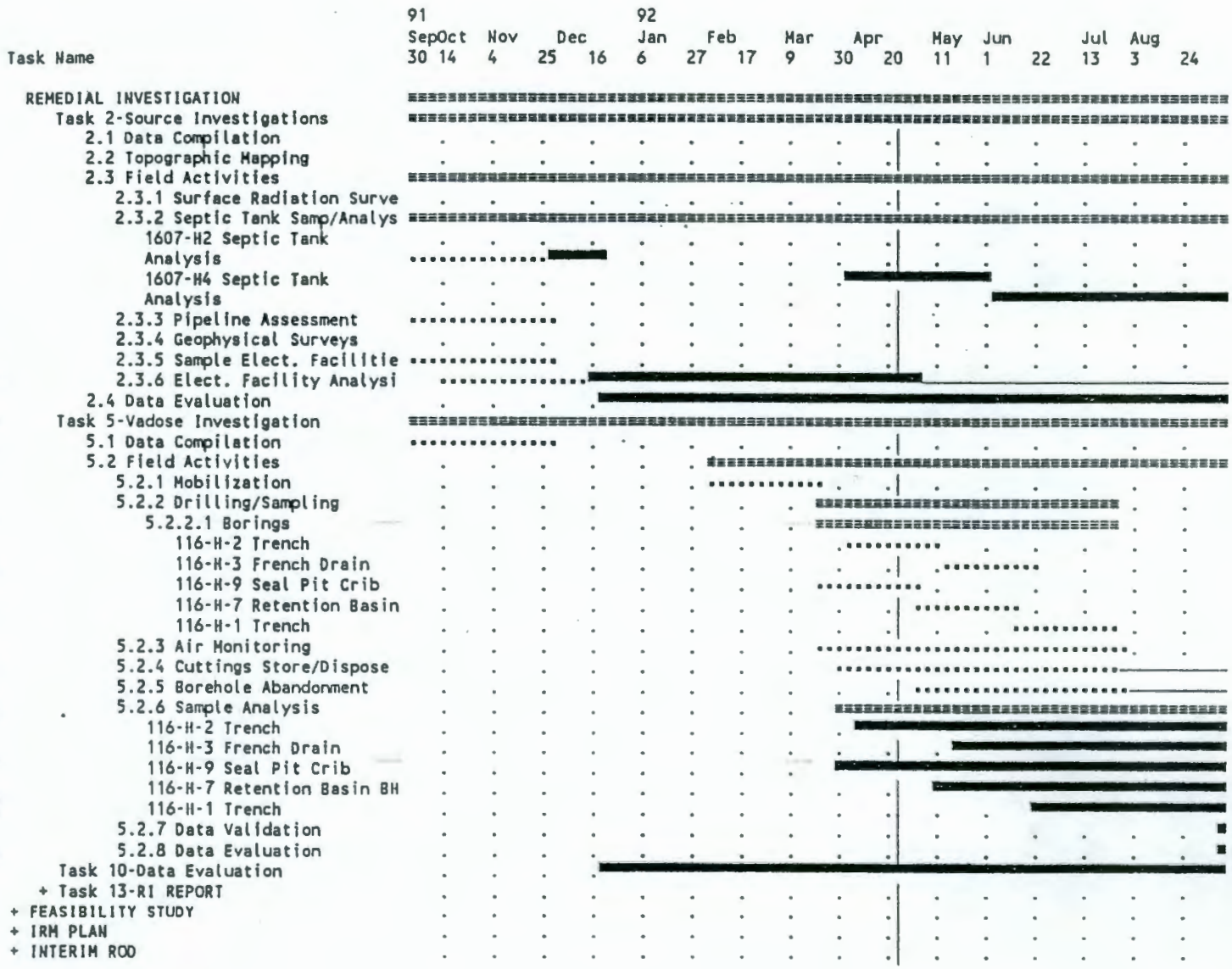
-Activity being performed as routine health and safety air monitoring in support of investigation activities.

Task 8, Ecological Investigation

-Performed as part of 100-HR-3

9 2 1 2 5 4 3 1 7 8 7

Schedule Name : 100-Hr-1 Operable Unit
Responsible : J. Ayres
As-of Date : 23-Apr-92 Schedule File : HR-1



9 2 1 2 6 4 3 1 7 8 8

Detail Task ===== Summary Task ooooo Baseline
(Progress) ===== (Progress) ▸▸▸ Conflict
(Slack) ===— (Slack) Resource delay
Progress shows Percent Achieved on Actual ▲ Milestone
Scale: 3 days per character

TIME LINE Gantt Chart Report, Strip 1, Page 1

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 Currently Being Written)	Approx. May 1992	Approx. May 1992	Approx. June 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

9 2 1 2 6 4 3 1 7 9 0

Attachment #10

100-BC-1 SOURCE OPERABLE UNIT WORK SUMMARY
April 22, 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. Preliminary (unvalidated) laboratory data has been received.

116-B-2 Fuel Storage Trench Sampling: Sampling has been removed as a source investigation activity and moved into the vadose drilling. One vadose borehole will be drilled in this trench.

116-C-5 Retention Basin Sampling: On Schedule. Pre-activities have begun. Sampling initially scheduled for the week of April 20, 1992. Due to unforseen circumstances, the sampling activity is being rescheduled. The EPA comments on the DOW were discussed during the April 10, 1992 meeting. Comments were incorporated into the DOW and signature was obtained from the lead regulatory agency on Thursday, April 16, 1992.

Task 5 - Vadose Investigation:

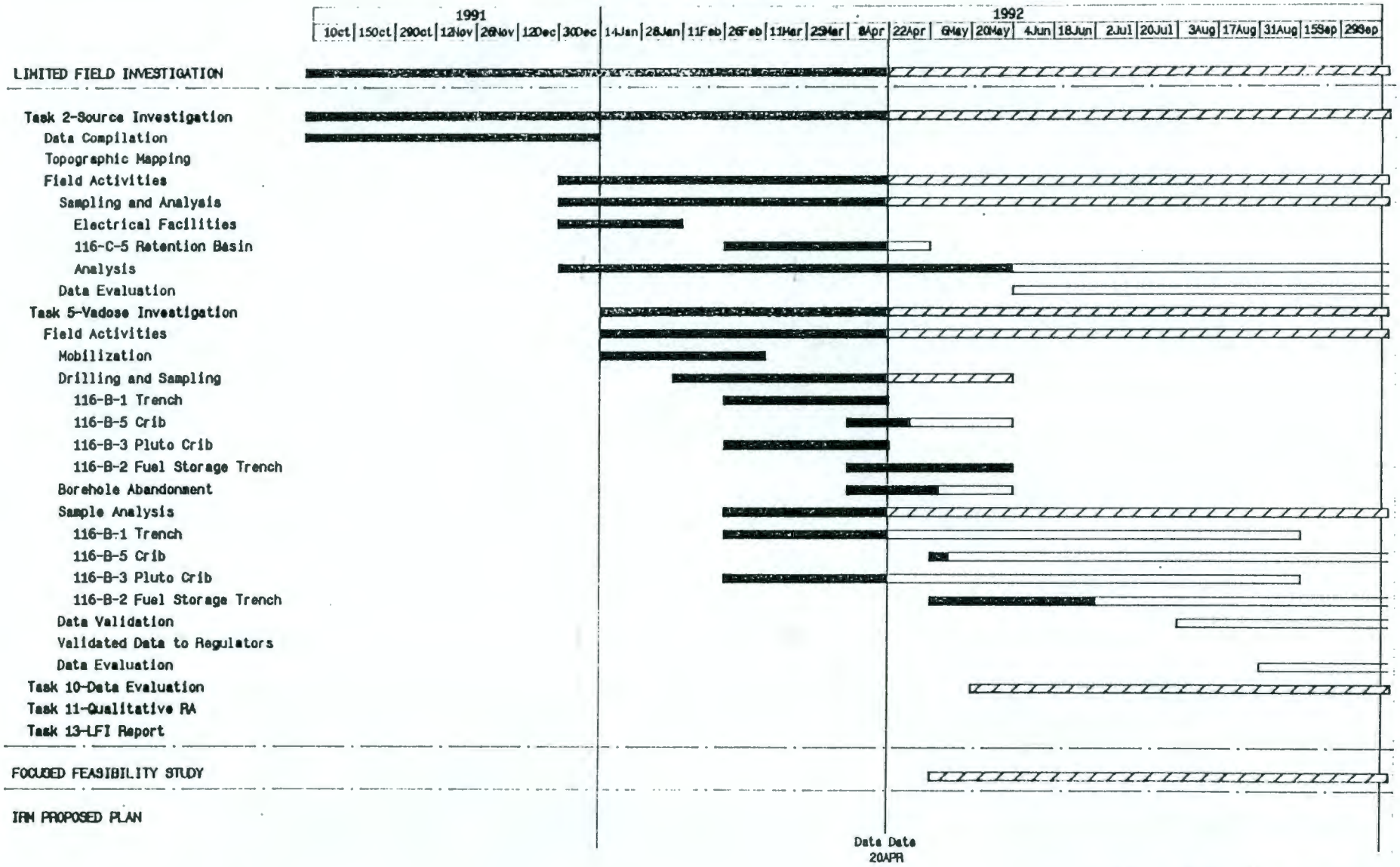
One additional vadose borehole has been added due to comment disposition with the US Environmental Protection Agency during the January 16, 1992 meeting. This vadose borehole will replace the source investigation activities, mentioned in the above section, at the 116-B-2 Fuel Storage Trench.

The DOW was approved by EPA on March 2, 1992. Mobilization activities began the first week of March. Drilling at the 116-B-1, 116-B-2, and 116-B-3 waste sites have been completed. Drilling at the 116-B-5 waste site has been initiated and is scheduled to be completed by April 24, 1992. See attached table for specific drilling information.

Due to the relocation of well B5-2, EPA has suggested that a test pit be added to the vadose activities. The DOW for vadose activities is currently under revision to include a test pit between the 116-C-5 and 116-B-11 retention basins. The schedule for this activity at this point is undetermined.

9 2 1 2 6 4 3 1 7 9 1

100-BC-1 OPERABLE UNIT



Summary Task ▨ Progress ▬
Detail Task ▭ Milestone ▲

Project: 100-BC-1	100-BC-1	Date: 20Apr92 7:46
100-BC-1 OPERABLE UNIT		
Page: 1	Drawn by ER Program Control-Scheduling	

Borehole No.	Total Depth	# of Samples	Logging	Highest Rad & Depth (Ludlum)	Start/Finish Date
116-B-1	28 feet	4 Chemical 2 Physical	Spectral	14,000 cpm 17-19	3/19 - 3/26
116-B-2	23 feet	4 Chemical	Spectral	8,000 cpm 12-14	3/19 - 3/30
116-B-3	20 feet	3 Chemical	Spectral	8,000 cpm 6-7	4/2 -
116-B-5			(Spectral)		

100-BC-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-BC-1 OU Vadose Zone Investigation Activities, WHC-SD-EN-AP-074	February 3,1992	February 19, 1992	March 16, 1992
3	Source Investigation Field Activities for the 100-BC-1 Operable Unit Description of Work, WHC-SD-EN-AP-080	March 13, 1992	March 27, 1992	April 20, 1992

4/13/92

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	May 4, 1992	May 18, 1992	October 5, 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	May 4, 1992	May 18, 1992	July 6, 1992
2	Vadose Investigations, WHC-SD-EN-AP-091	May 11, 1992	May 25, 1992	Feb. 11, 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	May 11,1992	May 25, 1992	December 7,1992

Attachment #11

Attachment #12

100-BC-5 GROUNDWATER OPERABLE UNIT WORK SUMMARY 3/26/92

TASK 2 - SOURCE INVESTIGATIONS

This investigation is being conducted under the 100-BC-1 source operable unit.

TASK 3 - GEOLOGIC INVESTIGATION

Activity coordinated with all 100 Area Groundwater OU's (100-HR-3, 100-BC-5, 100-KR-4, 100-NR-2, and 100-FR-3).

The Data Compilation and Geologic Mapping is complete. In March, WHC released a report titled "Geology of the Northern Part of the Hanford Site: An Outline of Data Sources and the Geologic Setting of the 100 Areas".

TASK 4 - SURFACE WATER AND SEDIMENTS INVESTIGATION

This investigation is being conducted under the 100 Aggregate Area Study.

TASK 5 - VADOSE INVESTIGATION

This investigation will be conducted under the 100-BC-1 source operable unit. The data compilation activity shall be coordinated with all 100 Area Groundwater OU's (100-HR-3, 100-BC-5, 100-KR-4, 100-NR-2, and 100-FR-3).

The Data Compilation is complete. In February, WHC released a report titled "Hydrologic and Geologic Data Available for the Region North of Gable Mountain".

TASK 6 - GROUNDWATER INVESTIGATION

The data compilation activity shall be coordinated with all 100 Area Groundwater OU's (100-HR-3, 100-BC-5, 100-KR-4, 100-NR-2, and 100-FR-3). This activity is almost complete. WHC plans to release a report titled "Hydrologic Information Summary for the Region North of Gable Mountain" in April, 1992.

Drilling activities are scheduled to be complete by April 21, 1992.

TASK 7 - AIR INVESTIGATION

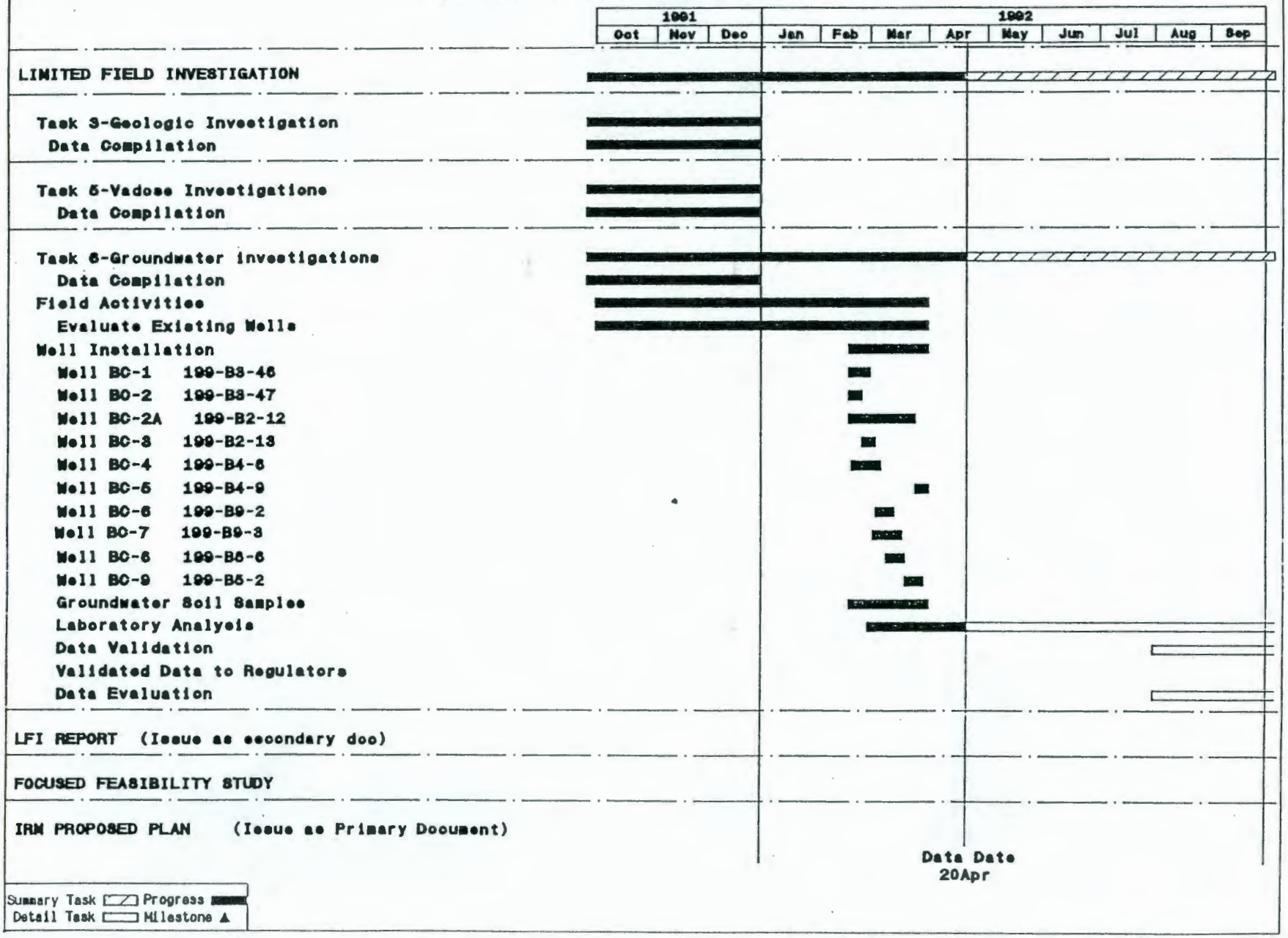
Activity being performed as routine health and safety air monitoring in support of investigation activities.

TASK 8 - ECOLOGICAL INVESTIGATION

This investigation is being conducted under the 100 Aggregate Area Study.

9 2 1 2 6 4 3 1 7 9 5

100-BC-5 OPERABLE UNIT



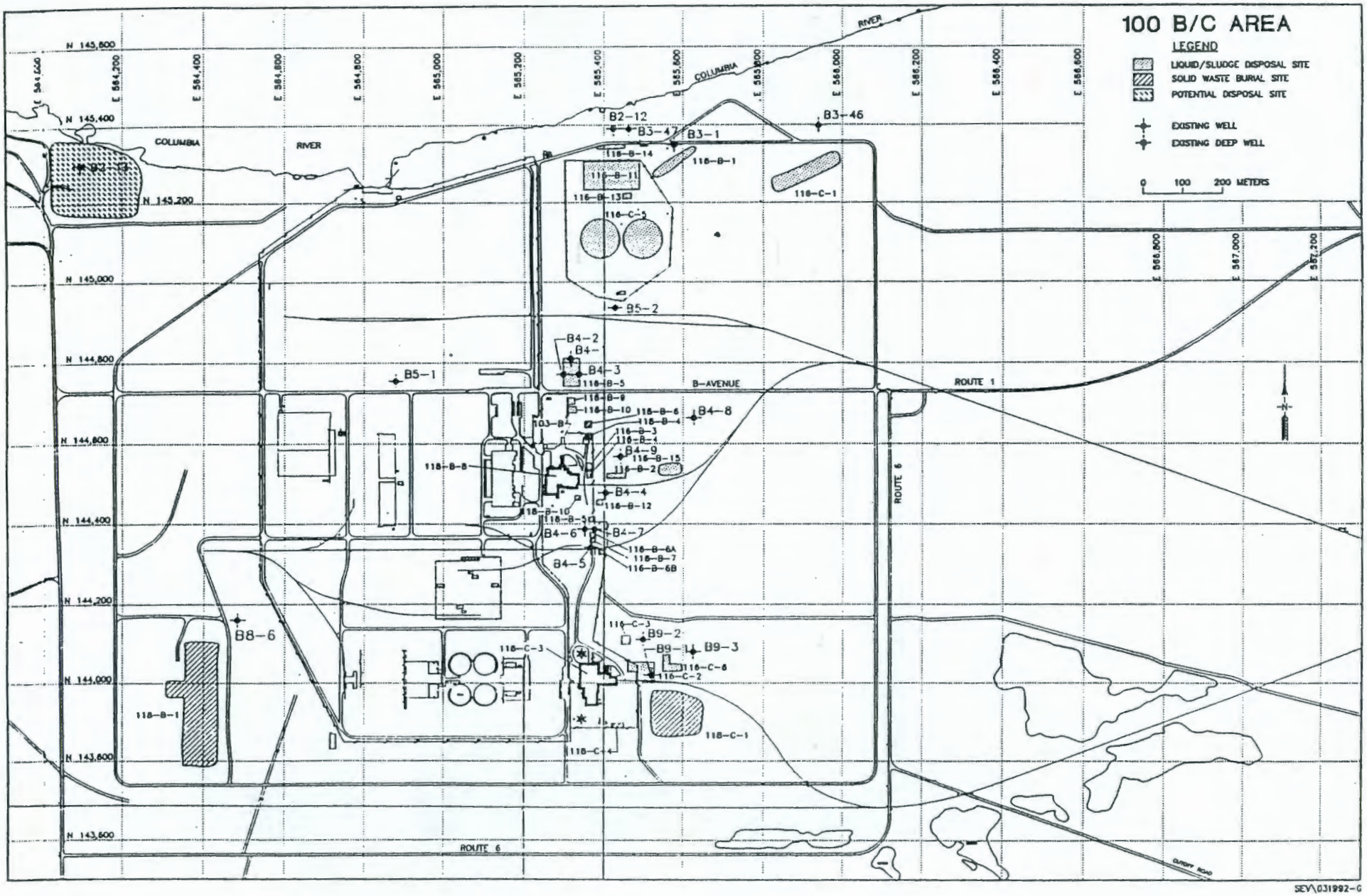
100-BC-5 DRILLING STATUS

WELL NUMBER	START DATE	COMPLETION DATE	CURRENT DEPTH	INST. READINGS	SCREEN INSTALLED
199-B3-46	2/19/92	2/28/92	TD 67′	N/A	3/30/92
199-B3-47	2/19/92	2/25/92	TD 61′	N/A	
199-B2-12	2/19/92	4/1/92	TD 179′	H^+, 144′	
199-B2-13	2/26/92	3/3/92	TD 40′	N/A	3/25/92
199-B4-8	2/20/92	3/5/92	TD 90′	N/A	4/1/92
199-B4-9	4/6/92	4/21/92	TD 90′	400cpm 16-23′	
199-B9-2	3/4/92	3/12/92	TD 118′	N/A	
199-B9-3	3/3/92	3/18/92	TD 109′	N/A	4/8/92
199-B8-6	3/10/92	3/23/92	TD 89′	H^+, 50′	4/3/92
199-B5-2	3/25/92	4/10/92	TD 76′	N/A	

100-BC-5 DOCUMENTS

Description of Work for the 100-BC-5 Groundwater Operable Unit, WHC-SD-EN-AP-070, Rev. 2

9 2 1 2 6 4 3 1 7 9 7


100 B/C AREA
LEGEND
LIQUID/SLUDGE DISPOSAL SITE
SOLID WASTE BURIAL SITE
POTENTIAL DISPOSAL SITE
EXISTING WELL
EXISTING DEEP WELL
0 100 200 METERS
COLUMBIA RIVER
B-AVENUE
ROUTE 1
ROUTE 6
N 145,600
N 145,400
N 145,200
N 145,000
N 144,800
N 144,600
N 144,400
N 144,200
N 144,000
N 143,800
N 143,600
E 564,200
E 564,400
E 564,600
E 564,800
E 565,000
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E 565,600
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E 566,400
E 566,600
E 566,800
E 567,000
E 567,200
B2-12
B3-47
B3-1
B3-46
116-B-14
116-B-1
116-B-11
116-B-13
116-C-5
116-C-1
B5-2
B4-2
B4-3
116-B-5
B5-1
116-B-9
116-B-10
116-B-6
116-B-4
B4-8
103-B-1
116-B-3
116-B-4
B4-9
116-B-15
116-B-2
116-B-8
B4-4
116-B-12
116-B-5
B4-6
B4-7
116-B-6A
116-B-7
116-B-6B
B4-5
B8-6
116-C-3
B9-2
B9-3
116-C-6
116-C-2
116-B-1
116-C-1
116-C-4
SEV\031992-G

DOW Schedule for the Remaining 100 Area Groundwater Operable Units				4/23/92
	Title & Document Number of DOW	One Week DOE-RL review starting:	Two week Regulatory review starting:	Sampling Activity starting:
1	DESCRIPTION OF WORK FOR THE 100-KR-4 GROUNDWATER OPERABLE UNIT WHC-SD-EN-AP-082	3/16/92	3/26/92	4/17/92
2	DESCRIPTION OF WORK FOR THE 100-NR-2 GROUNDWATER OPERABLE UNIT WHC-SD-EN-AP-088	4/27/92	5/8/92	
3	DESCRIPTION OF WORK FOR THE 100-FR-3 GROUNDWATER OPERABLE UNIT WHC-SD-EN-AP-089	5/11/92	5/22/92	

Attachment #13

100-AREA AGGREGATE AREA

REVIEW
RLS BOREHOLE SURVEYS WITH
FEILD SCREENING

PREPARED BY: GEOPHYSICS TEAM, APRIL 1992

CATEGORIES OF FIELD SCREENING RESULTS

- RADIATION IS LESS THAN DETECTABLE
  IE. FIELD SCREENING OF DRILLING SAMPLES INDICATED RADIONUCLIDES LESS THAN DETECTABLE.

- DETECTABLE RADIATION LEVELS
  IE. FIELD SCREENING OF DRILLING SAMPLES INDICATED THAT RADIATION LEVELS WERE DETECTABLE AND GREATER THAN BACKGROUND.

CATEGORY 1: RADIATION LESS THAN DETECTABLE

- Thirteen (13) boreholes meet criteria.
- RLS Survey Acquired in All Boreholes.
- Eight (8) of 13 contained only Natural Radionuclides.

1	199-B2-12
2	116-D-3
3	116-D-5
4	116-DR-5
5	199-D8-54B
6	116-H-2
7	116-H-9
8	199-H4-45

CATEGORY 1: RADIATION LESS THAN DETECTABLE BUT RLS LOCATED MAN-MADE RADIONUCLIDES

o Five (5) of 13 RLS Borehole Surveys Indicated Presence of Man-made Radionuclides

Borehole	Nuclide	Maximum Concentration
199-B3-47	Cs-137	0.7 (pCi/g)
199-D8-55	Cs-137	2.
132-D-3	Co-60	0.2
"	Cs-137	2.
"	Eu-152	2.
116-D-6	Eu-152	3.
* 116-H-3	Co-60	0.4
"	Eu-152	5.
"	Eu-154	< 0.5

* Base of Man-made Radionuclide Not Reached

CATEGORY 2: RADIATION DETECTABLE BY FIELD SCREENING

Five (5) Boreholes Identified Radation

Borehole	*	Radionuclide avg (pCi/g) Co-60	Cs-137	Eu-152	Eu-154	Depth Range
116-H-1	<D	-	2	3	-	0-10ft
	200	2	25	30	3	10-14
	1500	30	90	700	55	14-16
	<D	2	5	2	-	16-18
116-B-1	<D	1	5	20	1	14-15ft
	300	10	50	200	12	15-17
	250	2	25	30	3	17-19
	<D	-	5	10	-	19-23
116-B-2	200	-	10	1	-	8- 9ft
	750	1	200	20	1	9-11
	250	-	50	8	-	11-13
	500	-	3	-	-	13-18

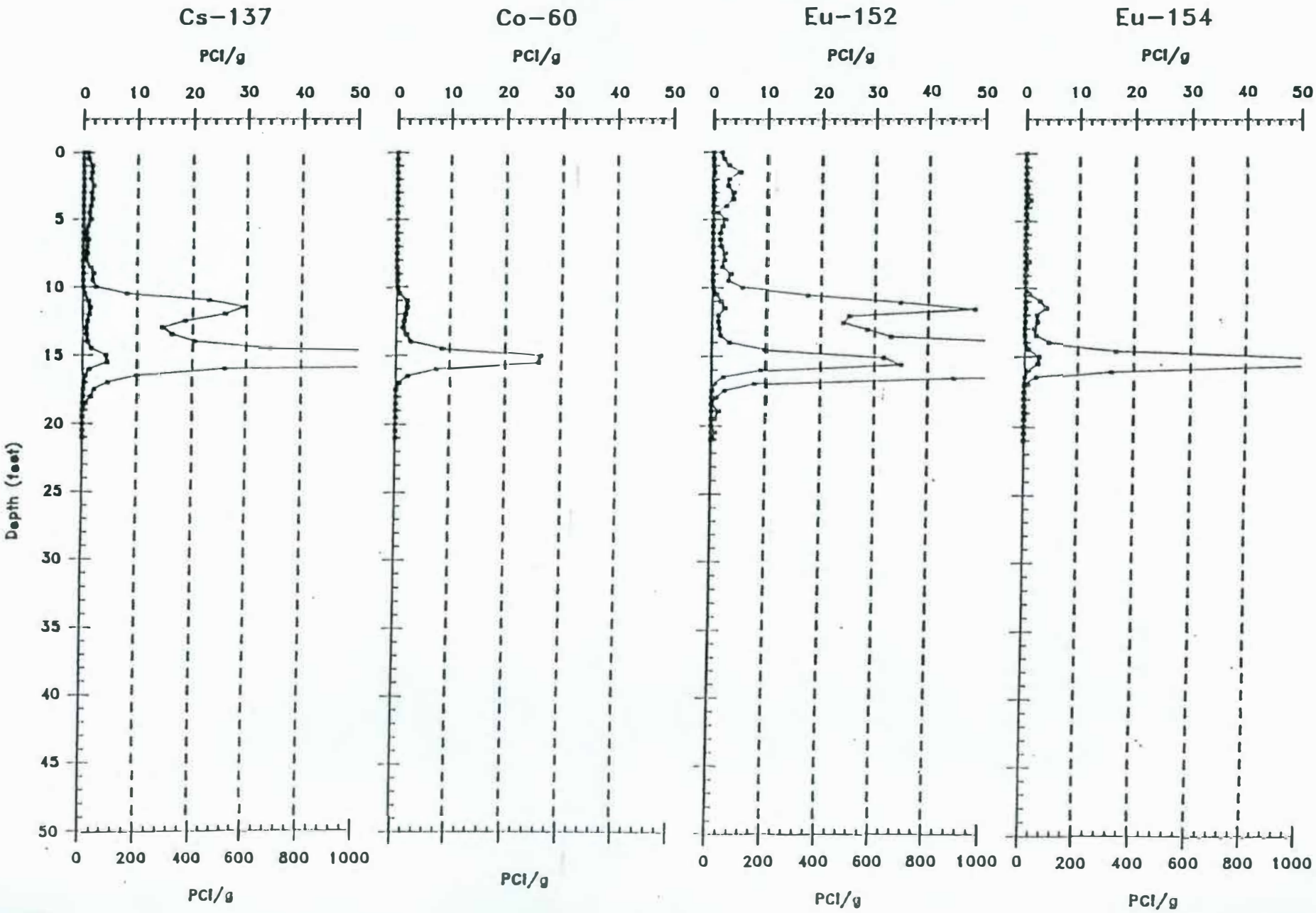
* Field screening readings (cpm)

CATEGORY 2: RADIATION DETECTABLE BY FIELD SCREENING (CONT)

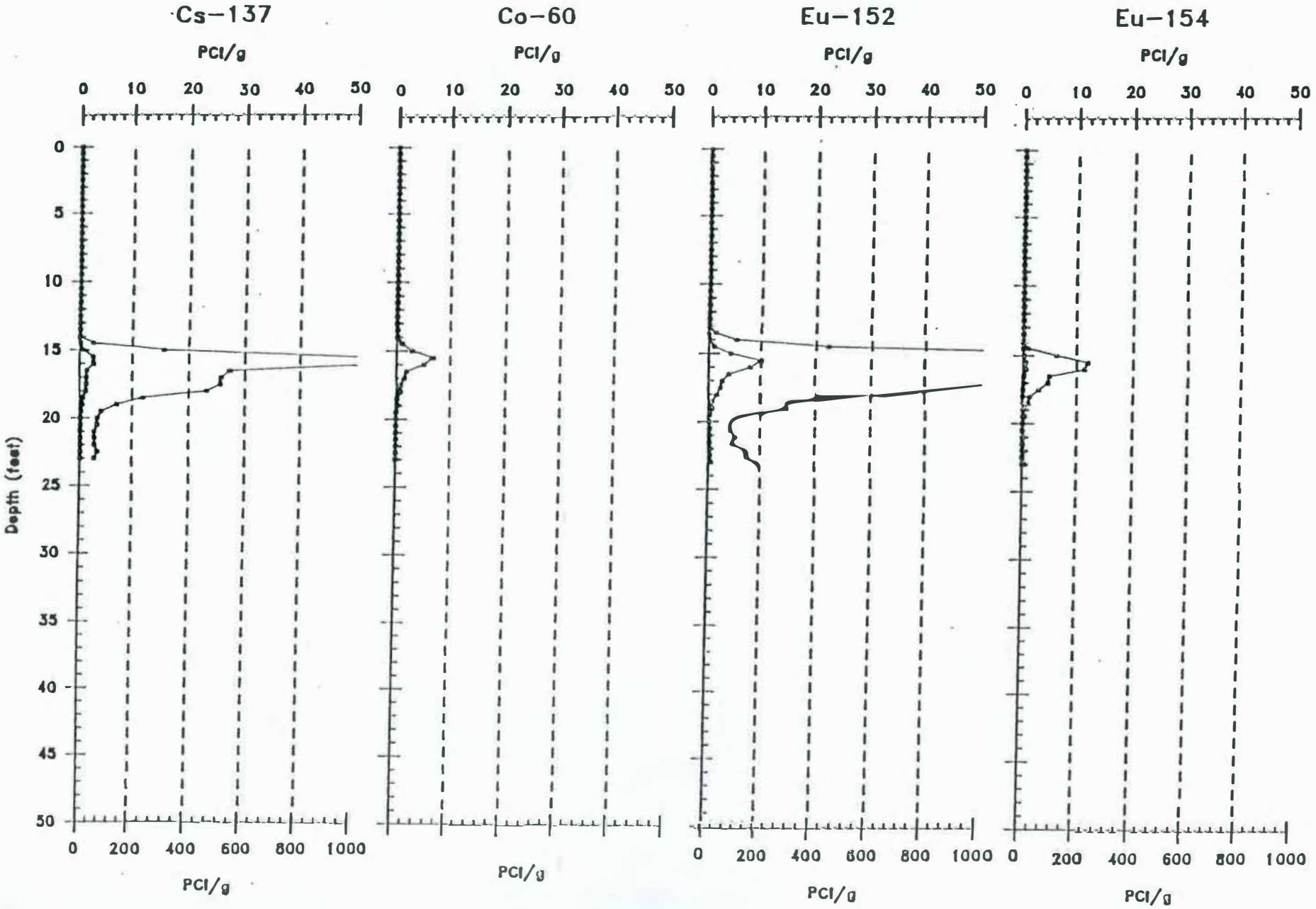
Borehole	*	Radionuclide avg (pCi/g) Co-60	Cs-137	Eu-152	Eu-154	Depth Range
116-D-1A	<D	-	3	2	-	0- 2ft
	200	1	20	10	-	2- 9
		6	40	80	6	9-14
	1500	10	400	200	20	14-18
	1100	5	250	120	15	18-25
	450	3	180	100	12	25-32
	400	3	100	60	6	32-39
	250	4	80	40	4	39-42
	200	5	60	45	5	42-44
	<D	4	120	50	6	44-46
116-D-2A	<D	-	5	1	-	5- 8ft
	<D	-	20	2	-	8- 9
	2000	1	800	30	2	9-13
	500	-	60	5	-	13-15
	150	-	20	2	-	15-17
	<D	-	5	1	-	17-19

* Field screening readings (cpm)

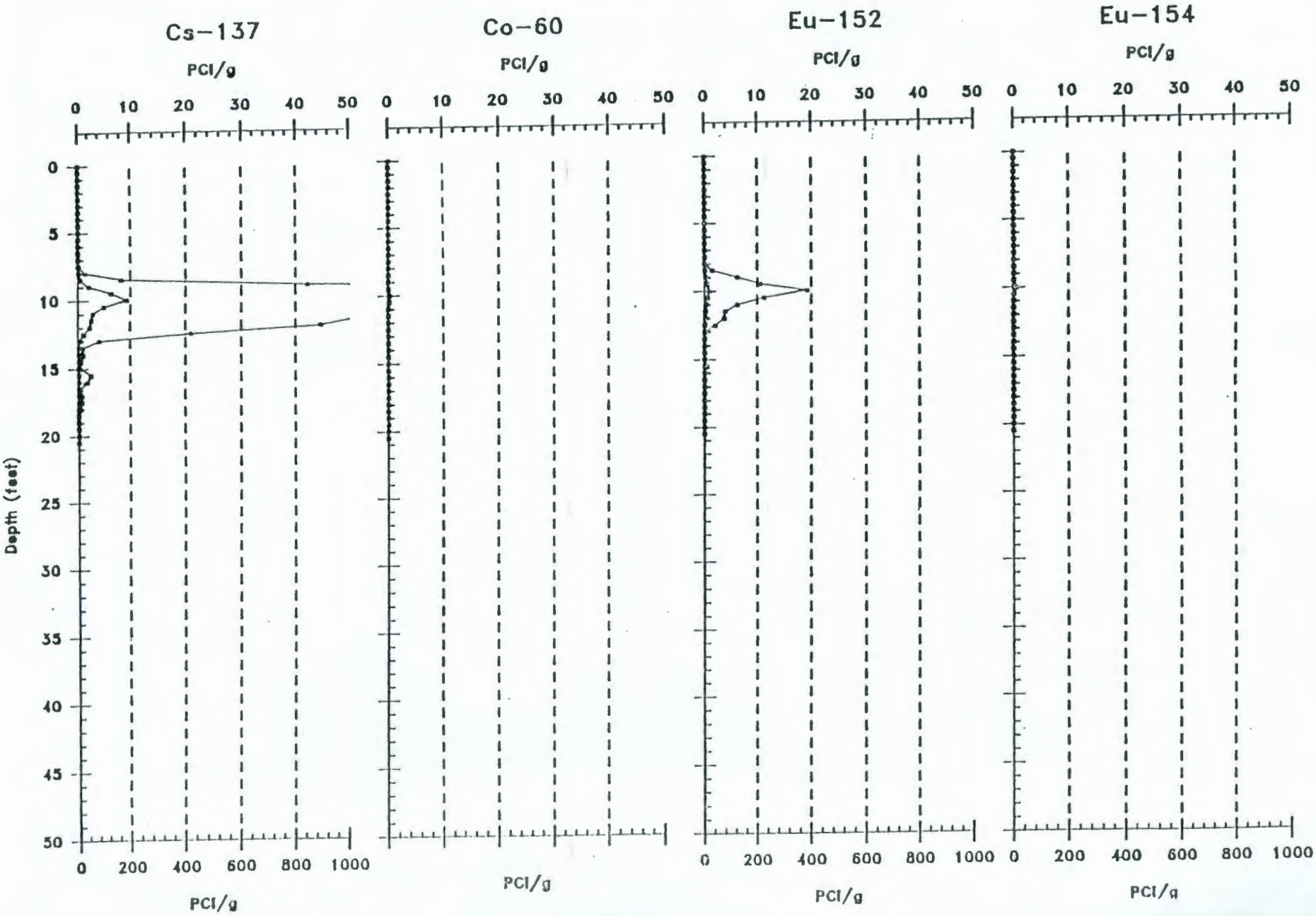
RLS SURVEY OF BOREHOLE 116-H-1
LOGGED ON 3/11/92



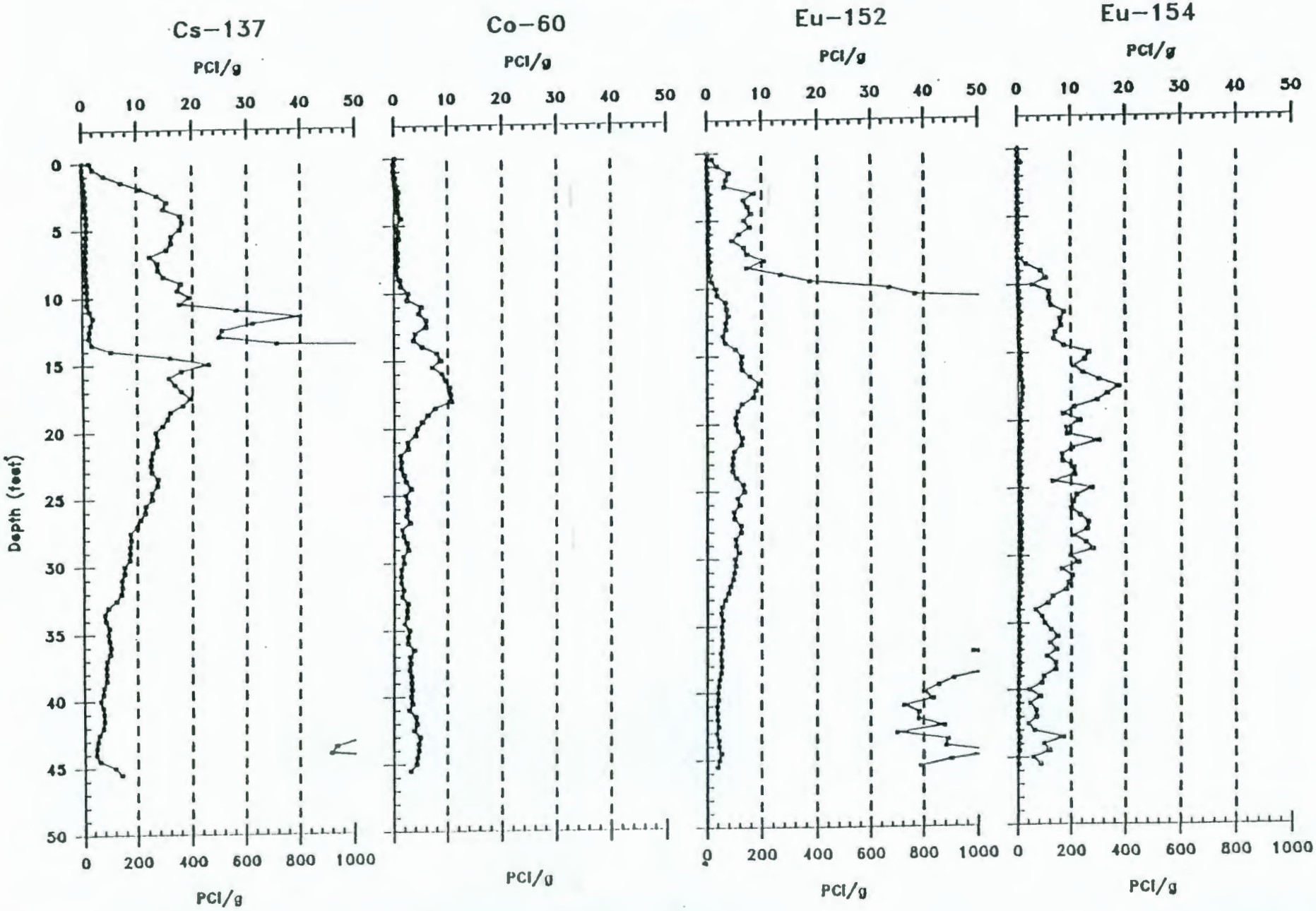
RLS SURVEY OF BOREHOLE 116-B-1
LOGGED ON 3/25/92



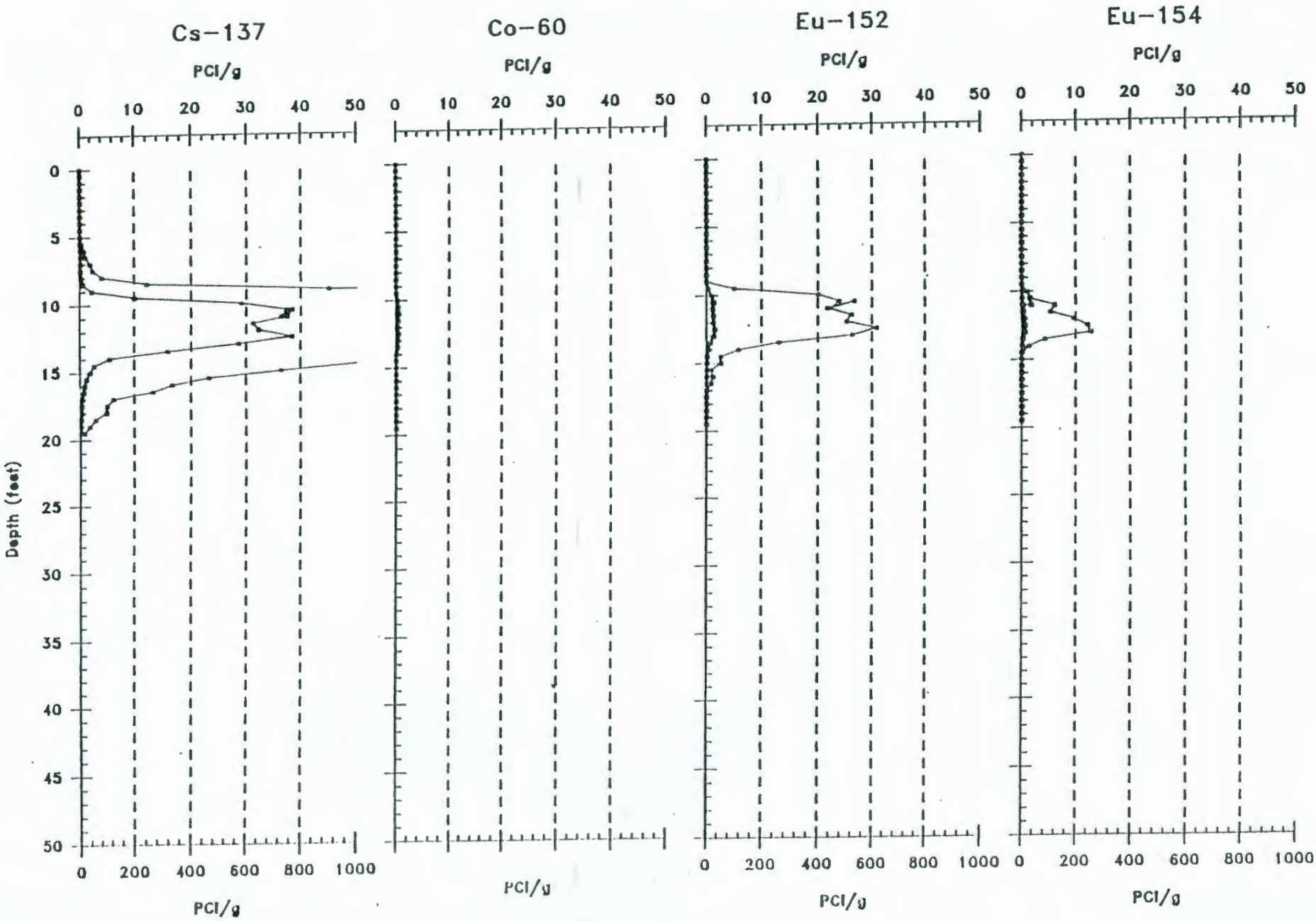
RLS SURVEY OF BOREHOLE 116-B-2
LOGGED ON 3/26/92



RLS SURVEY OF BOREHOLE 116-D-1A
LOGGED ON 11/27/91

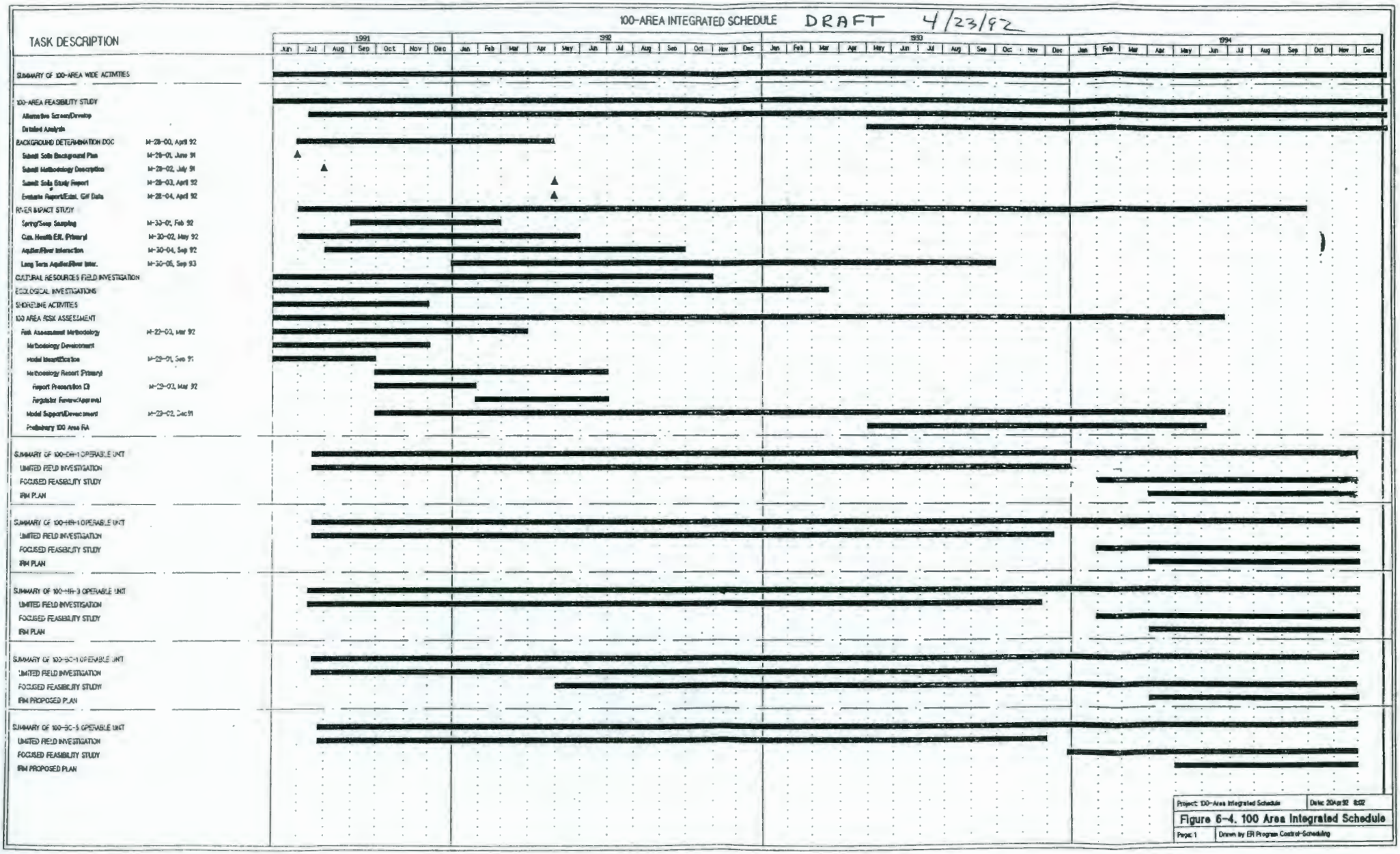


RLS SURVEY OF BOREHOLE 116-D-2A
LOGGED ON 2/20/92



9 2 1 2 6 4 3 1 8 1 1

Attachment #15



Draft - 4/23/92

Attachment #16

AGREEMENT ACTIVITY NOTIFICATION

Page _ of _

OPERABLE UNIT 100-KR-4

DATE 4/23/92

TSD

OTHER

Eric Goller
UNIT MANAGER

ACTIVITY PERIOD April 29, 1992 - May 29, 1992

ACTIVITIES	SCHEDULED START DATE
Begin drilling 7 groundwater wells	April 29, 1992

Eric Goller 4-23-92
UNIT MANAGER

EPA/Ecology/DOE representatives that may want to observe any of the listed activities should verify the start date with the Unit Manager. Depending on the activity, location, and the individual's needs relative to observation/participation, the indiviual may be required to meet the training requirements of Environmental Investigation Instruction 1.7.

9 2 1 2 6 4 3 1 8 1 2

Attachment #17

April 22, 1992

100 HR-3
GROUNDWATER MONITORING NETWORK

Groundwater samples will be collected from the following 100 HR-3 wells beginning in mid-May.

D AREA

1. Twelve new wells drilled in FY 92 under the 100 HR-3 Work Plan.

2. Four RCRA wells drilled in FY 92 to monitor the 100 D Pond.

3. Existing wells D2-5, D5-12 and D8-3.

H AREA

1. Seven new wells drilled in FY 92 under the 100 HR-3 Work Plan.

2. Twenty-five RCRA wells drilled to monitor the 183 H Solar Basins.

600 AREA

1. Three new wells drilled in FY 92 under the 100 HR-3 Work Plan.

2. Existing wells 96-49, 97-51A, 97-43 and 98-49A.

9 2 1 2 5 3 1 8 1 3

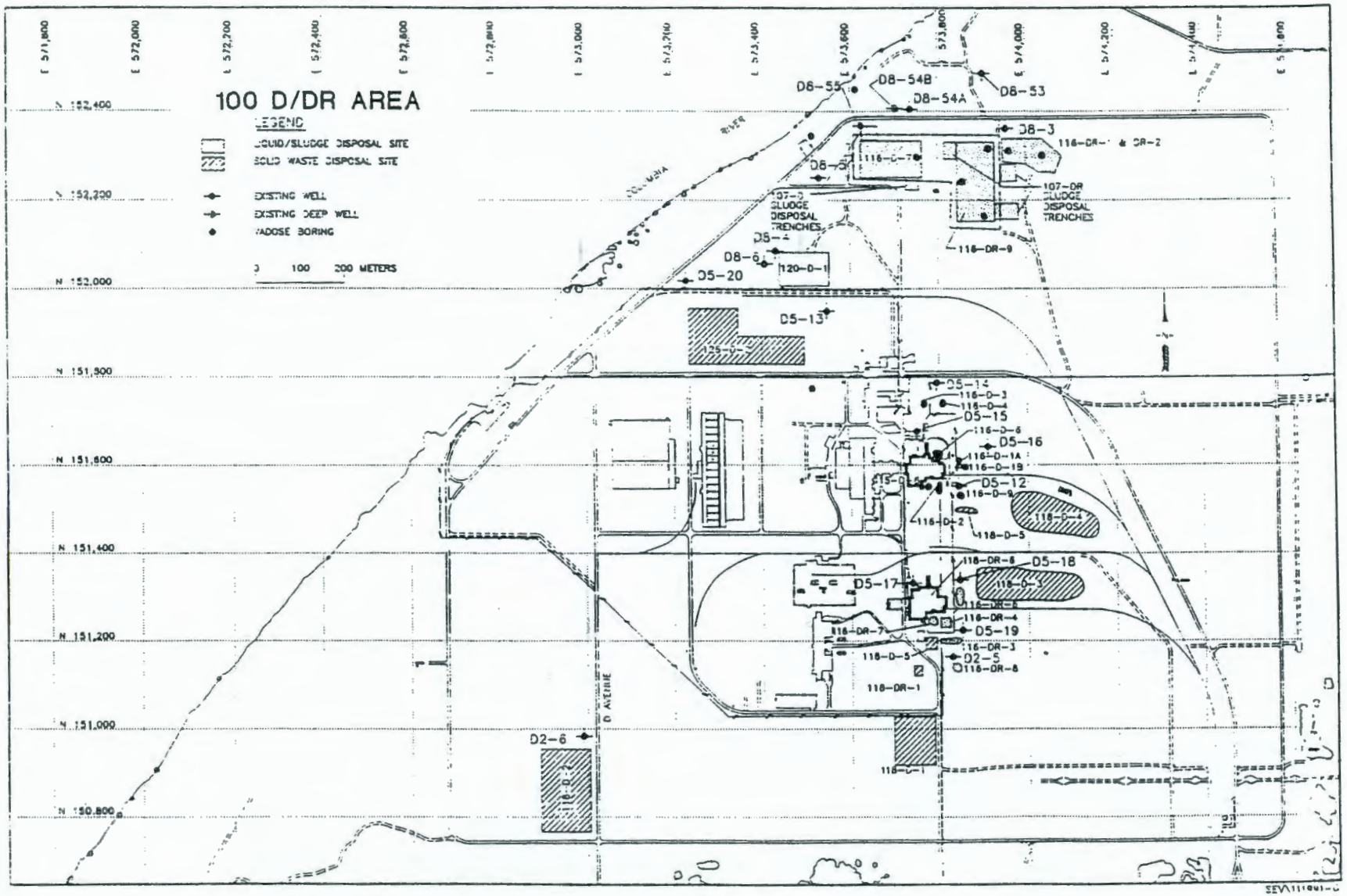
April 22, 1992

SAMPLING OBJECTIVES FOR 100 HR-3 GROUNDWATER MONITORING NETWORK

WELL #	TYPE	PURPOSE	ANALYSES
D8-53	CERCLA	Between 116 DR-1 site and River	Full Suite
D8-54A	CERCLA	Between 116 D-7 site and River	Full Suite
D8-54B	CERCLA	Deep well between 116 D-7 site and River	Full Suite
D8-55	CERCLA	Between 116 D-7 site and River	Full Suite
D2-6	CERCLA	Monitors 118 D-2 site	Full Suite
D5-14	CERCLA	Monitors 116 D-3 and 116 D-4 sites	Full Suite
D5-15	CERCLA	Monitors D Reactor site	Full Suite
D5-16	CERCLA	Monitors 116 D-1A and 116 D-1B sites	Full Suite
D5-17	CERCLA	Monitors DR Reactor site	Full Suite
D5-18	CERCLA	Monitors 116 DR-6 site	Full Suite
D5-19	CERCLA	Monitors 116 DR-3 site	Full Suite
D5-20	CERCLA	Between 126 D-2 site and River	Full Suite
D8-3	EXISTING	Between 116 DR-1 and 116 DR-2 sites and River	Full Suite
D5-12	EXISTING	Monitors 116 D-9 site	Full Suite
D2-5	EXISTING	Monitors 116 D-8 site	Full Suite
D5-13	RCRA	Monitors 120 D-1 site	*Full Suite
D8-4	RCRA	Monitors 120 D-1 site	*Full Suite
D8-5	RCRA	Monitors 120 D-1 site	*Full Suite
D8-6	RCRA	Monitors 120 D-1 site	*Full Suite
H4-45	CERCLA	Between 116 H-1 site and River	Full Suite
H4-46	CERCLA	Monitors 116 H-3 and 118 H-3 sites	Full Suite
H4-47	CERCLA	Monitors H Reactor site	Full Suite
H4-48	CERCLA	Monitors elevated Chromium levels	Full Suite
H4-49	CERCLA	Monitors 118 H-4 and 116 H-9 sites	Full Suite
H5-1	CERCLA	Monitors 118 H-1 site	Full Suite
H6-1	CERCLA	Between 116 H-1 site and River	Full Suite
H3-1	RCRA	Monitors 116 H-9 site	*Full Suite
H3-2A	RCRA	Monitors 116 H Solar Basin site	*Full Suite

WELL #	TYPE	PURPOSE	ANALYSES
H3-2B	RCRA	Monitors 116 H Solar Basin site	*Full Suite
H3-2C	RCRA	Monitors 116 H Solar Basin site	*Full Suite
H4-3	RCRA	Monitors 116 H Solar Basin site	*Full Suite
H4-4	RCRA	Monitors 116 H Solar Basin site	*Full Suite
H4-5	RCRA	Monitors 116 H Solar Basin site	*Full Suite
H4-6	RCRA	Monitors 116 H Solar Basin site	*Full Suite
H4-7	RCRA	Monitors 116 H Solar Basin site	*Full Suite
H4-8	RCRA	Monitors 116 H Solar Basin site	*Full Suite
H4-9	RCRA	Monitors 116 H Solar Basin site	*Full Suite
H4-10	RCRA	Monitors 116 H Solar Basin site	*Full Suite
H4-11	RCRA	Monitors 116 H Solar Basin and 116 H-7 sites	*Full Suite
H4-12A	RCRA	Monitors 116 H Solar Basin site	*Full Suite
H4-12B	RCRA	Monitors 116 H Solar Basin site	*Full Suite
H4-12C	RCRA	Monitors 116 H Solar Basin site	*Full Suite
H4-13	RCRA	Monitors 116 H Solar Basin and 116 H-7 sites	*Full Suite
H4-14	RCRA	Monitors 116 H Solar Basin site	*Full Suite
H4-15A	RCRA	Monitors 116 H Solar Basin site	*Full Suite
H4-15B	RCRA	Monitors 116 H Solar Basin site	*Full Suite
H4-15C	RCRA	Monitors 116 H Solar Basin site	*Full Suite
H4-16	RCRA	Monitors 116 H Solar Basin site	*Full Suite
H4-17	RCRA	Monitors 116 H Solar Basin site	*Full Suite
H4-18	RCRA	Monitors 116 H Solar Basin site	*Full Suite
98-49A	EXISTING	Monitors offsite contaminant migration from D Reactor Area	Full Suite
97-51A	EXISTING	Monitors offsite contaminant migration from D Reactor Area	Full Suite
96-49	EXISTING	Monitors offsite contaminant migration from D Reactor Area	Full Suite
93-49B	CERCLA	Monitors offsite contaminant migration from D Reactor Area	Full Suite
93-46	CERCLA	Monitors 100 IU-4 site	Full Suite
91-43	CERCLA	Monitors offsite contaminant migration from D Reactor Area	Full Suite
97-43	EXISTING	Monitors offsite contaminant migration from D Reactor Area	Full Suite

* CERCLA will supplement the RCRA sampling to acquire a full suite of analytes from the well.


100 D/DR AREA
LEGEND
LIQUID/SLUDGE DISPOSAL SITE
SOLID WASTE DISPOSAL SITE
EXISTING WELL
EXISTING DEEP WELL
VADOSE BORING
0 100 200 METERS
COLUMBIA RIVER
D AVENUE
D8-55
D8-54B
D8-54A
D8-53
D8-3
D8-5
D8-6
D5-20
D5-13
D5-14
D5-15
D5-16
D5-12
D5-17
D5-18
D5-19
D2-5
D2-6
107-D SLUDGE DISPOSAL TRENCHES
107-DR SLUDGE DISPOSAL TRENCHES
116-DR-9
120-D-1
116-D-7
116-D-3
116-D-4
116-D-6
116-D-1A
116-D-19
116-D-9
116-D-2
116-D-5
116-DR-6
116-DR-5
116-DR-4
116-DR-7
116-DR-3
116-DR-8
116-DR-1
116-D-1
N 152,400
N 152,200
N 152,000
N 151,800
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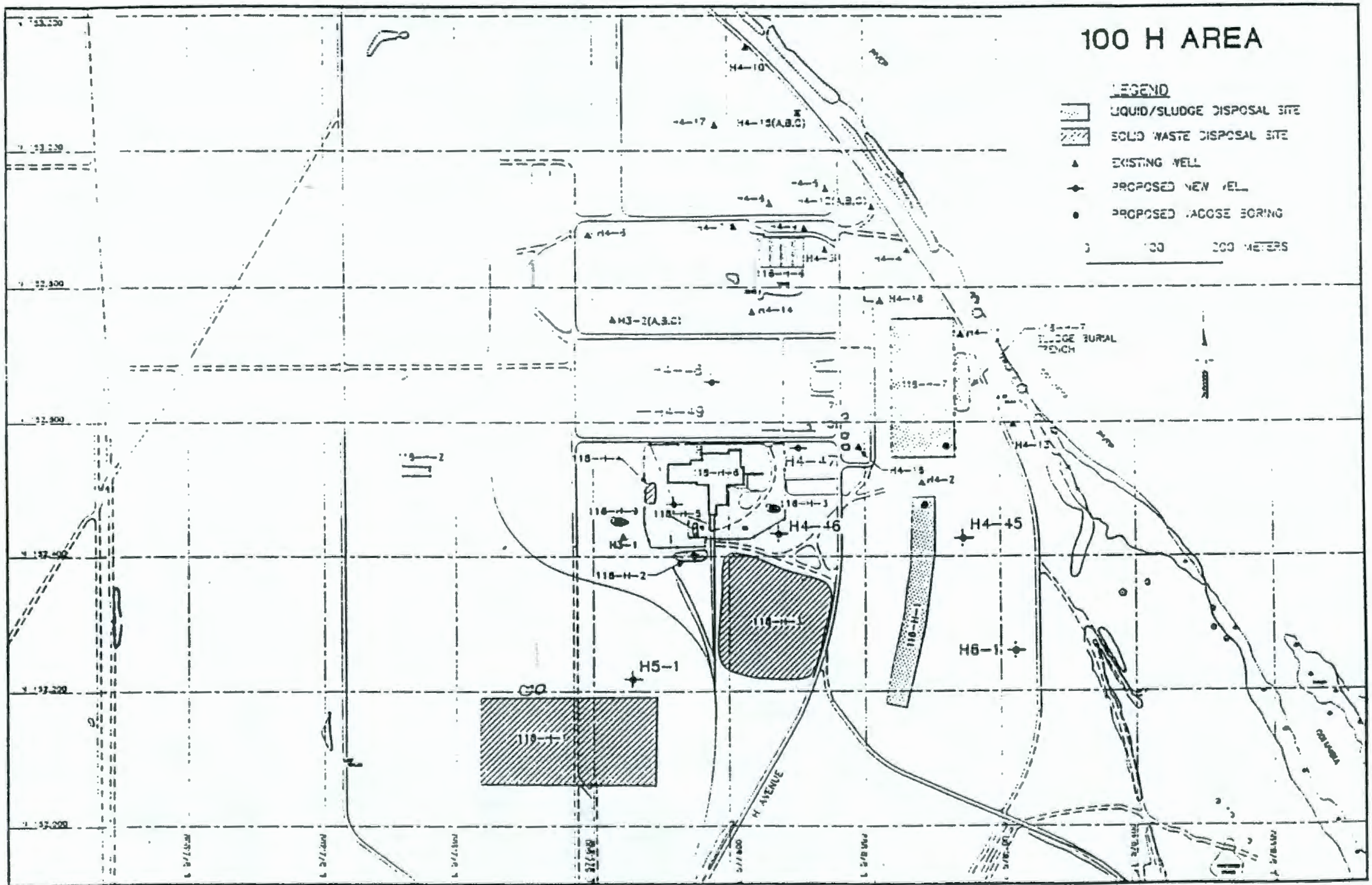
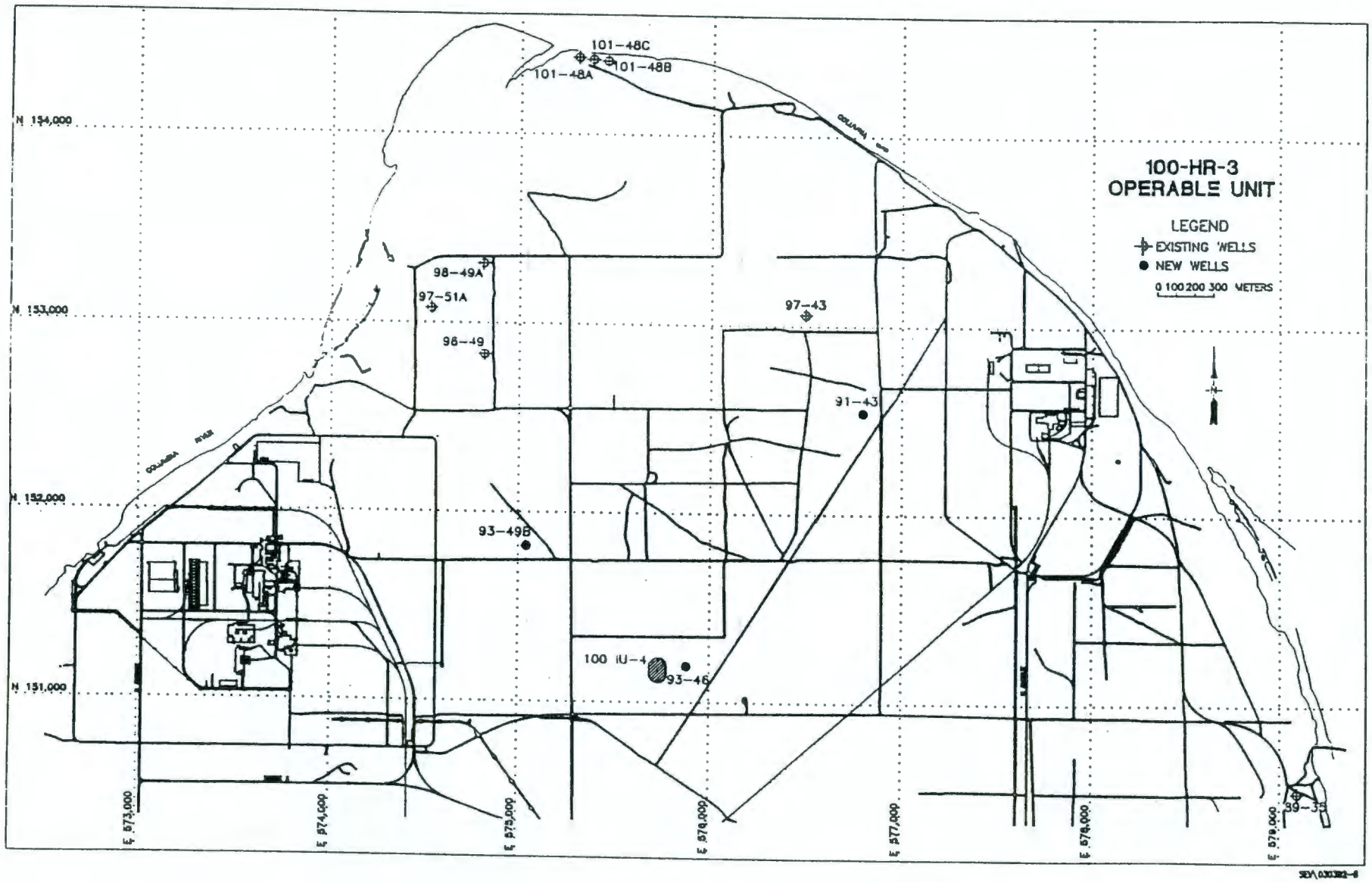
N 151,200
N 151,000
N 150,800


100 H AREA
LEGEND
LIQUID/SLUDGE DISPOSAL SITE
SOLID WASTE DISPOSAL SITE
EXISTING WELL
PROPOSED NEW WELL
PROPOSED VADOSE BORING
100
METERS
H4-10
H4-17
H4-47
H4-46
H4-45
H5-1
H6-1
H AVENUE

SEVN11991-H


100-HR-3
OPERABLE UNIT
LEGEND
EXISTING WELLS
NEW WELLS
0 100 200 300 METERS
N 154,000
N 153,000
N 152,000
N 151,000
E 573,000
E 574,000
E 575,000
E 576,000
E 577,000
E 578,000
E 579,000
COLUMBIA RIVER
101-48C
101-48B
101-48A
98-49A
97-51A
98-49
97-43
91-43
93-49B
100 IU-4
93-46
99-35

Distribution

Unit Manager's Meeting: 100 Aggregate Area/100 Area Operable Units
April 23, 1992

Julie K. Erickson . . . . . Chief, Env. Remed. Br., DOE-RL, ERD (A5-15)
Ronald E. Gerton . . . . . Director, DOE-RL (A6-80)
Mike Thompson, ... DOE-RL, EAP/RPB (A5-19)
Diane Clark, ... DOE-RL, TSD/SSB (A5-55)
~~Mary Harmon~~, ... DOE-HQ (EM-442)
Suzanne Clarke, SWEC . . . . . GSSC to DOE-RL (A4-35)

Dennis Faulk . . . . . 100 Aggregate Area Manager, EPA (B5-01)
~~Pamela Innis~~ . . . . . EPA (B5-01)
Ward Staubitz, USGS . . . . . Support to EPA
~~Donna Lacombe~~, PRC . . . . . Support to EPA

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

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 . . . . . .

Don Praast, ... 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.

9 2 1 2 6 4 3 1 8 1 9