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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

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

Concurrence by: *Bob Henckel* Date: 5/27/92
 Bob Henckel, WMC 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 The regulators will review the data concerning RLS Borehole
Dennis Faulk Surveys (see Attachment 14) and present their decision on
Darci Teel the need for further analysis at the May UMM.

1AAMS.10 DOE will send a letter with a white paper to the regulators
Eric Goller 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:

Agreement: 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.

Agreement: 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 FLYOR | William Flyor | SWRC | GSSC | 509-376-9920 |
| Brian Drost | Brian Drost | USGS | EPA Support | 206-593-6510 |
| Ward Stambitz | Ward Stambitz | USGS | EPA Support | 206-593-6510 |
| Don Sheerwood | Don Sheerwood | EPA | Observed | 509-376-9529 |
| Jerry Shuster | Jerry Shuster | PRC | EPA Support | 206-624-2812 |
| STEVE VUKELICH | Steve Vukelich | WHC | 100HR-3 | 509-376-5158 |
| RANDALL PRICE | Randall Price | WHC | BOREHOLE GEOPHYSICS | 509-372-1120 |
| Steve Weiss | Steve Weiss | WHC | 100 Aggregate Area | 509-376-1683 |
| BOB PETERSON | Bob Peterson | WHC | 100 Aggregate Area | (509) 376-5858 |
| Steve Cook | Steve Cook | Ecology | CERCLA | 206-459-6675 |
| William J. Mallie | William J. Mallie | SWRC | GSSC | (509) 376-6995 |
| Jim Roberts | Jim Roberts | WHC | 100-BC-5 100-KR-4 | (509) 376-5164 |
| Mike Stankovich | Mike Stankovich | WHC | 100 Area | (509) 376-2493 |
| Darc Teel | Darc Teel | Ecology | 100 AREA ONLY | 509-575-2312 |
| Maul Beaver | Maul Beaver | EPA | Unit Manager | 509-376-8665 |
| NM Naiknimbalkar | NM Naiknimbalkar | WHC | DR-1 OP. Unit Coord | 509-376-8739 |
| Laurence Gadbois | Laurence Gadbois | EPA | Unit Manager | 509-376-9884 |
| Dennis Faulk | Dennis Faulk | EPA | Unit Manager | 376-8631 |
| Billie Mauss | Billie Mauss | Ecology | CERCLA-GA | (509) 546-2893 |
| Richard Hibbard | N/A | Ecology | UNIT Support | (206) 493-9367 |
| RICH MULLEN | N/A | PARAMETRIX | Ecology Support | (206) 455-2330 |
| BOB HENCKEL | Bob Henckel | WHC | 100 Area Mgr | (509) 376-2091 |
| Jon Sprecher | Jon Sprecher | PRC | Ecology Support | (509) 244-7005 |

Attachment #4
Action Item Status List

Unit Manager's Meeting: 100 Aggregate Area/100 Area Operable Units
March 26, 1992

| Item No. | Action | Status |
|----------|--|---|
| IHR1.28 | 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) |
| IHR3.29 | 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) |
| IHR3.32 | 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) |
| INR.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) |
| IAAMS.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 |

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.

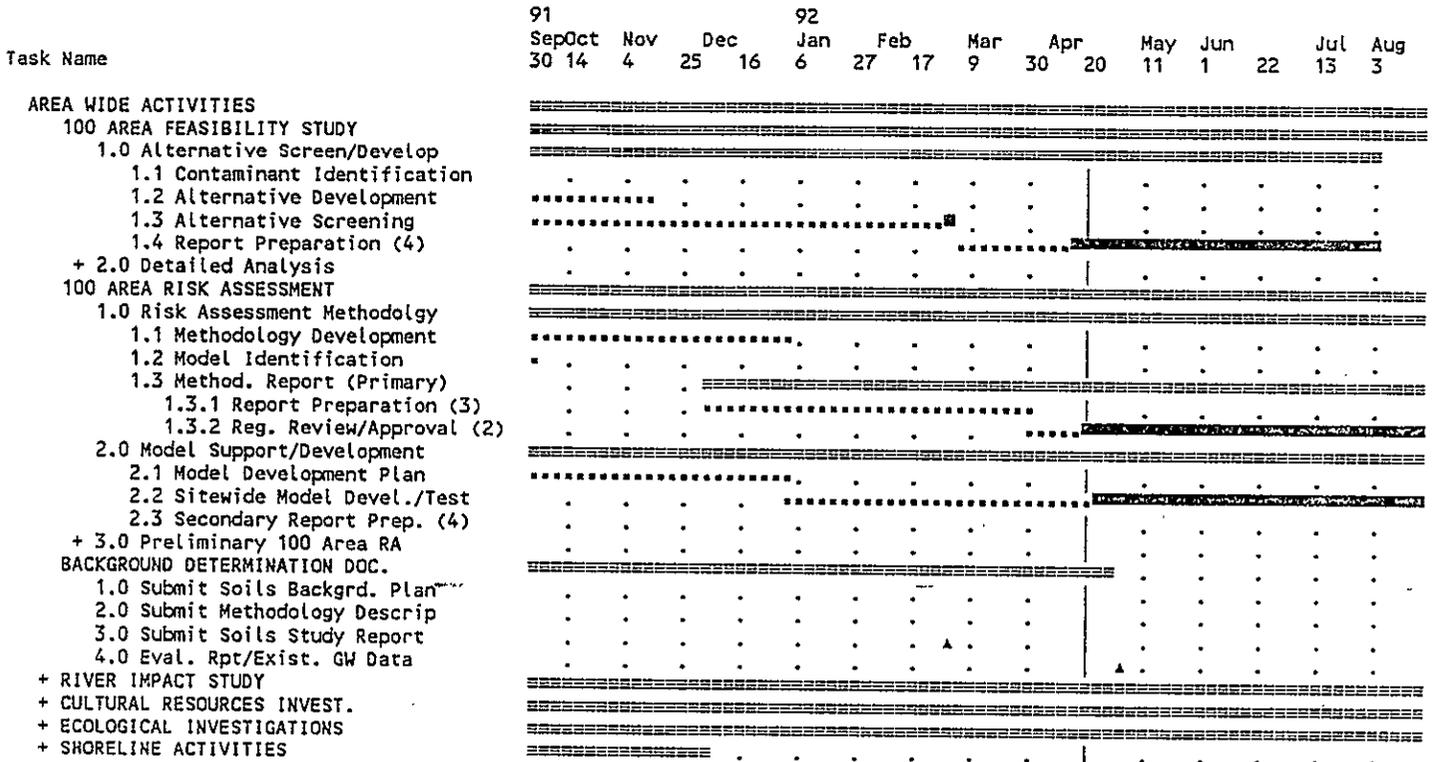
Open DOE will send a letter with a white paper to the regulators in late April/early May concerning the proposed structure of the 100 Area Feasibility Studies reports. A meeting is scheduled for Monday, May 11, 1:00 PM at the EPA-Richland office to confer with the regulators on this subject. 4/23/92

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Attachment #5

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

Schedule File : DECSTAT

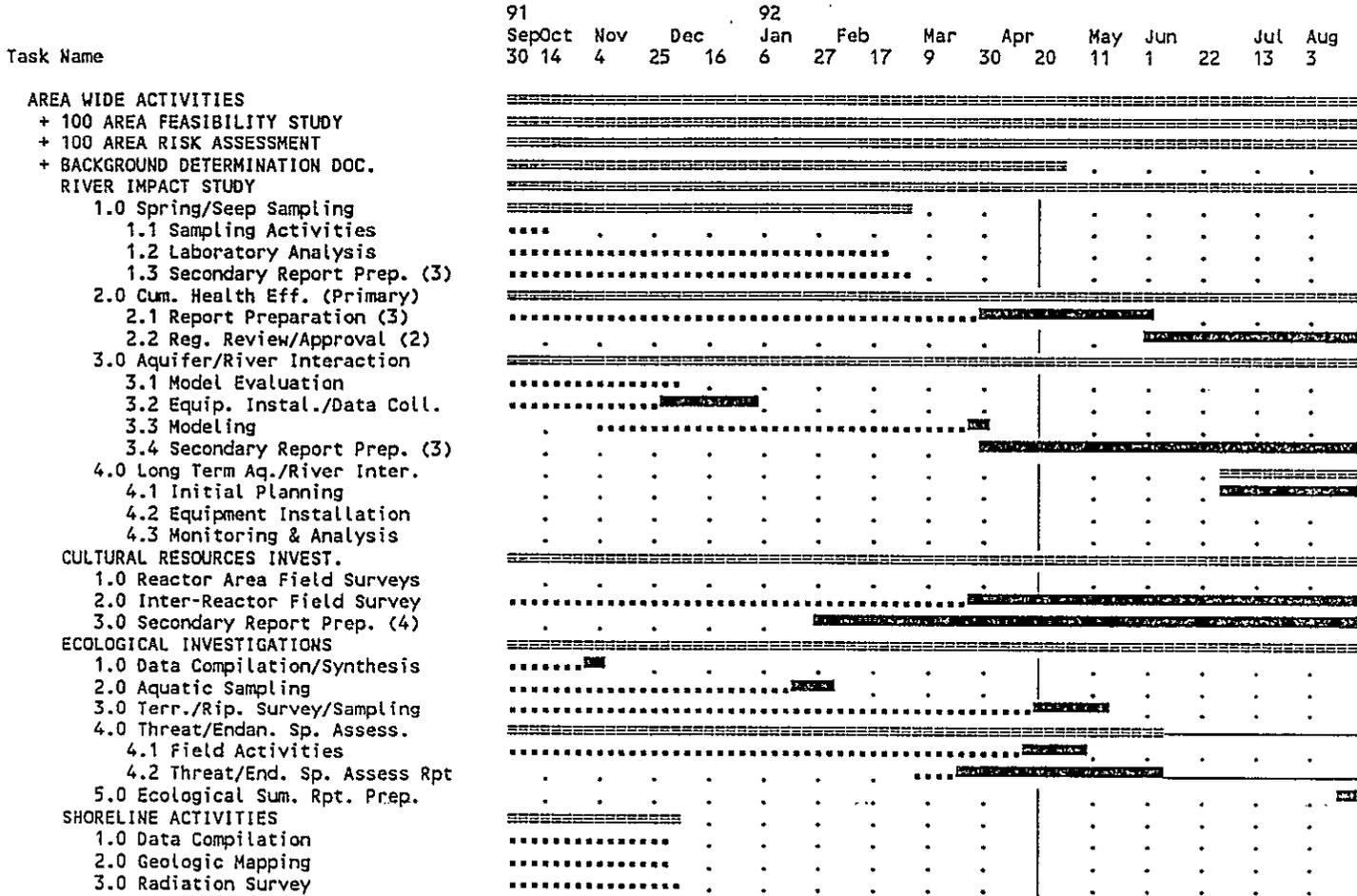


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 ■ Detail Task ■ Summary Task ○○○○ Baseline
 ■ (Progress) ■ (Progress) ▶▶▶ Conflict
 ■ (Slack) ■ (Slack) .. Resource delay
 Progress shows Percent Achieved on Actual ▲ Milestone
 ----- Scale: 3 days per character -----

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

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 ■■■■ Detail Task ■■■■ Summary Task ○○○○ Baseline
 ■■■■ (Progress) ■■■■ (Progress) ▶▶▶ Conflict
 ■■■■ (Slack) ■■■■ (Slack) ..■ Resource delay
 Progress shows Percent Achieved on Actual ▲ Milestone
 ----- Scale: 3 days per character -----

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 feasibility 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

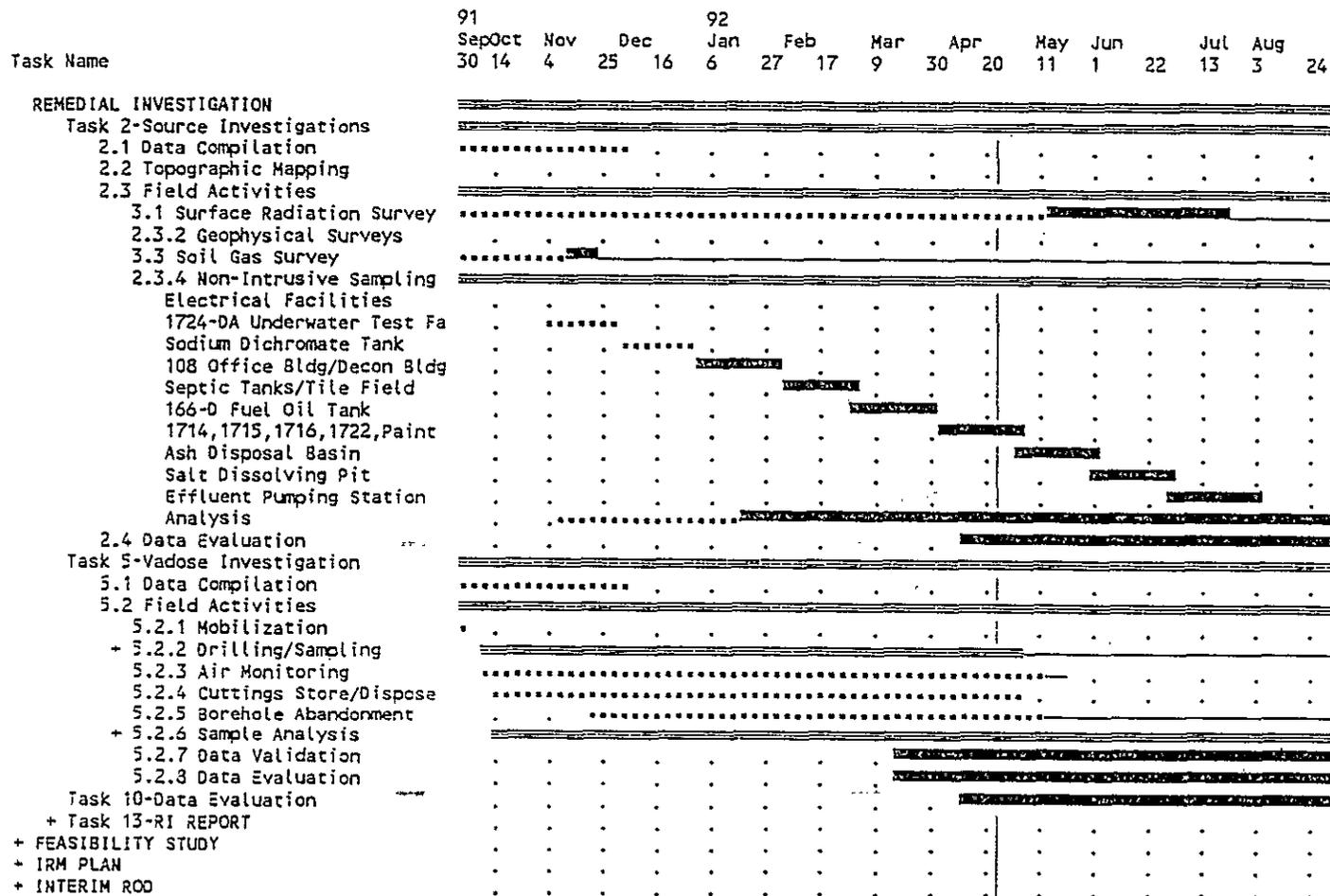
Presenter - N. M. (Naik) Naiknimbalkar

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

Schedule File : DR1

Dependencies : REMEDIAL INVESTIGATION



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 ■ Detail Task ■ Summary Task ○○○○ Baseline
 ●● (Progress) == (Progress) ►► Conflict
 — (Slack) == (Slack) .. Resource delay
 Progress shows Percent Achieved on Actual ▲ Milestone
 ----- Scale: 3 days per character

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 | SAMPL ES | 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

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

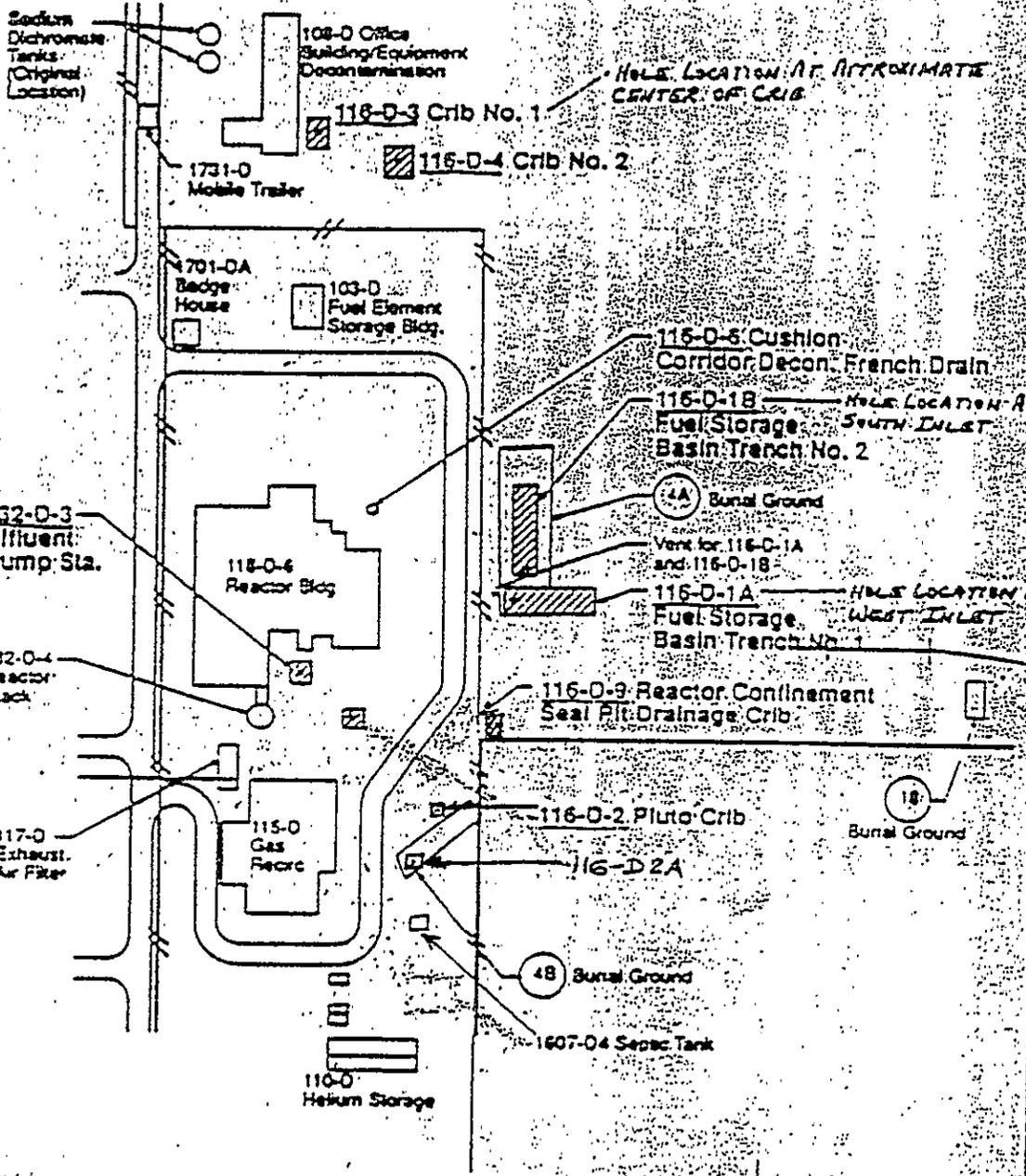
9 2 1 2 6 4 3 1 7 8 0

Table 5

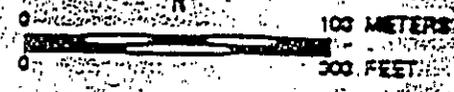
| Report List for 100-DR-1 |
|--|
| WHC-SD-EN-DP-015, Summary Report Source Data Compilation for 100-HR-3 Operable Unit |
| WHC-SD-EN-AP-067. 100-DR-1 Area Nonintrusive Source Investigation Activities, December 26, 1991. |
| WHC-SD-EN-AP-067. Rev. 1, 100-DR-1 Area Nonintrusive Source Investigation Activities. (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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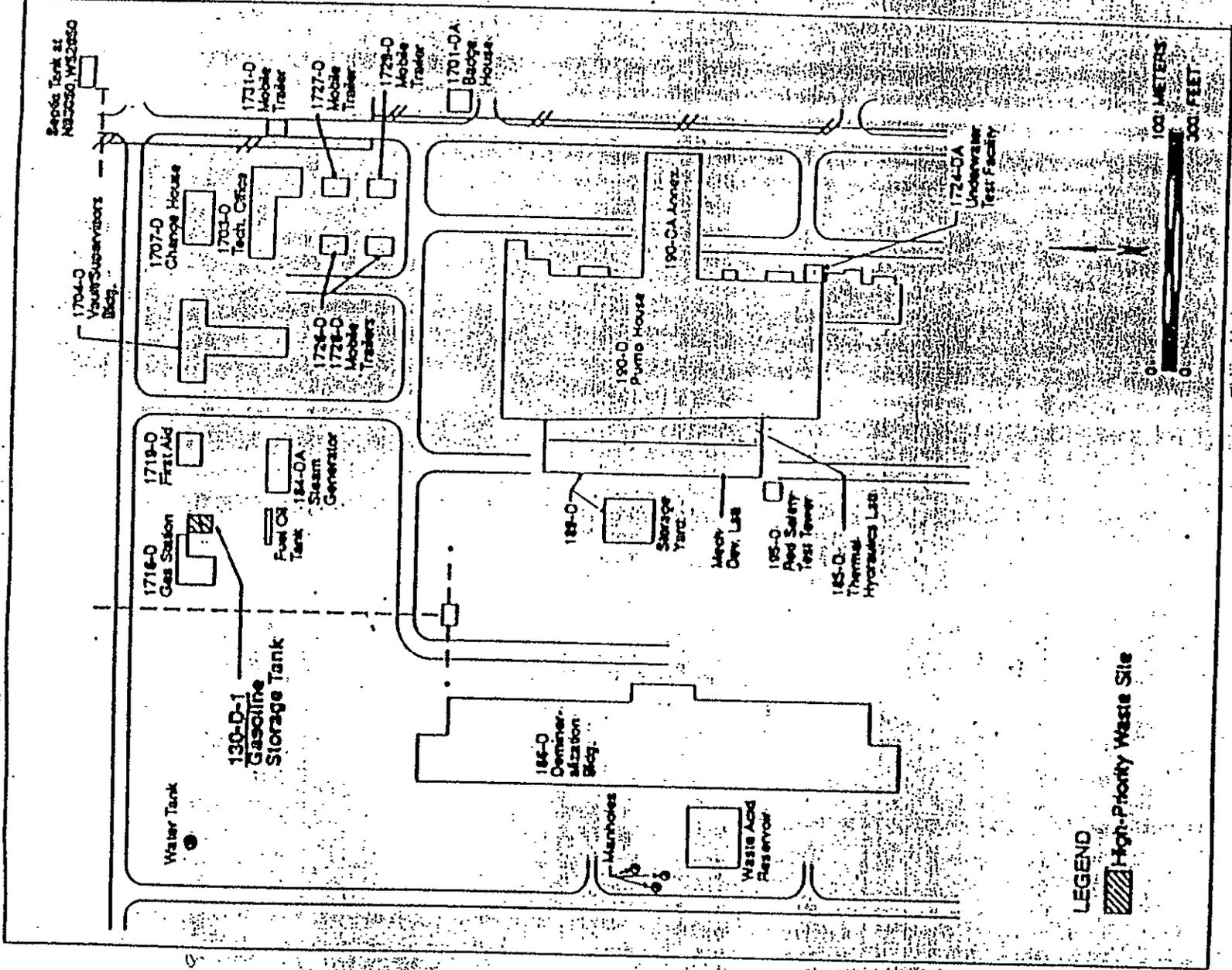
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1
2
6
4
3
7
8
2



LEGEND
 High-Priority Waste Site



20' FROM BASIN.
 F WEST SID
 2' OF TRENCH JUNCTION
 & AVOID



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

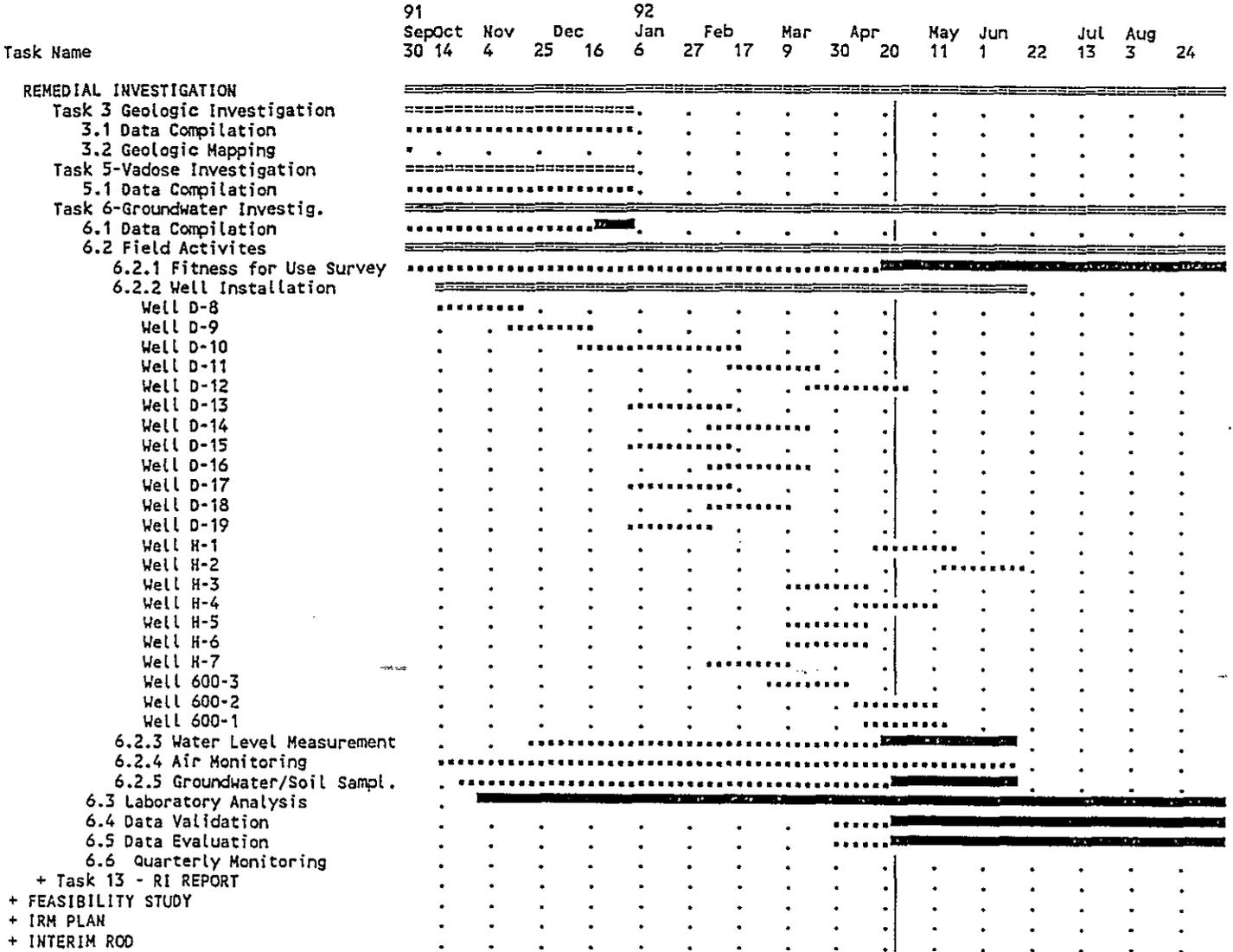
Data Complilation is almost complete. WHC plans to release a report titled, "Hydrologic Information Summary for the Region North of Gable Mountain" in May, 1992.

9 2 1 2 6 4 3 1 7 3 4

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

Schedule File : HR3

INVESTIGATION



9 2 1 2 6 4 3 1 7 9 5

 ■ Detail Task ■ Summary Task ○○○○ Baseline
 ■ (Progress) ■ (Progress) >>> Conflict
 ■ (Slack) ■ (Slack) ■ Resource delay
 Progress shows Percent Achieved on Actual ▲ Milestone
 ----- Scale: 3 days per character -----

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

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.

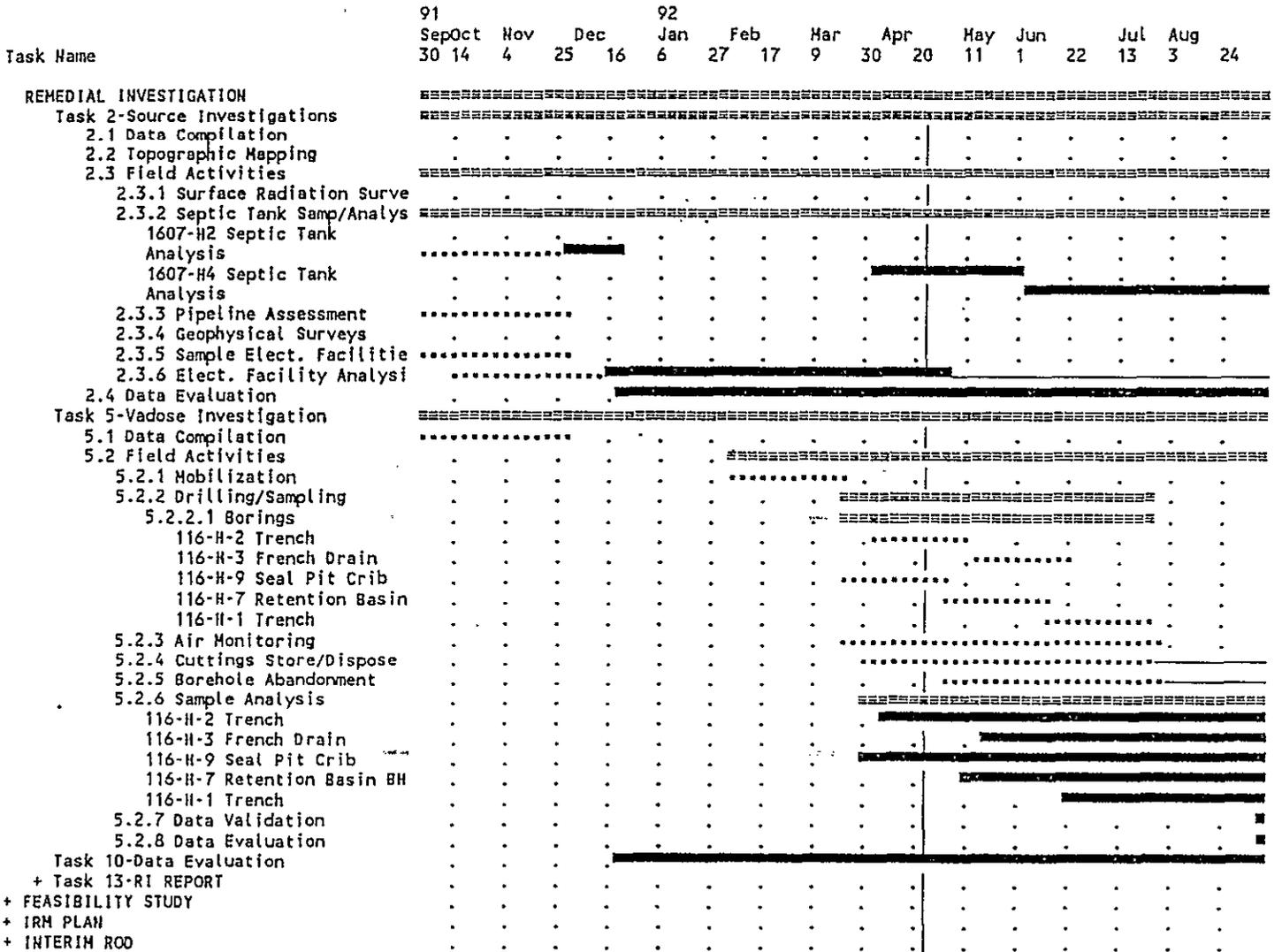
Task 8, Ecological Investigation

-Performed as part of 100-HR-3

9 2 1 2 6 4 3 1 7 3 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 3 8

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

| 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

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

9 2 1 2 6 4 3 1 7 9 0

Attachment #10

100-BC-1 SOURCE OPERABLE UNIT WORK SUMMARY
April 22, 1992Task 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 unforeseen 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.

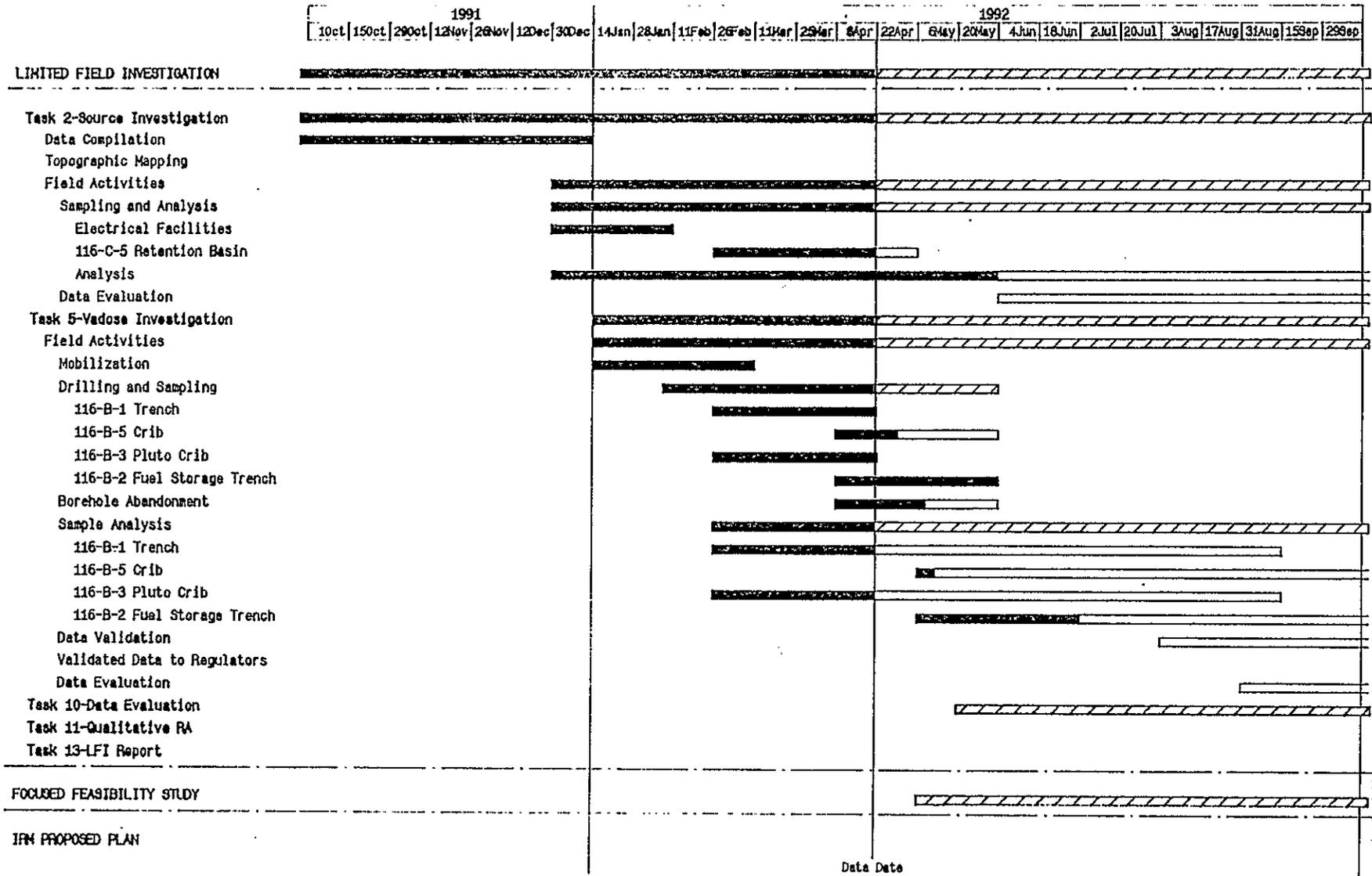
The DOW was approved by EPA on March 2, 1992. Mobilization activities began the first week of March. Drilling at the 116-B-1, 116-B-2, and 116-B-3 waste sites have been completed. Drilling at the 116-B-5 waste site has been initiated and is scheduled to be completed by April 24, 1992. See attached table 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 | 2 6 4 3 | 7 9 |

9 2 1 2 6 4 3 1 7 9 2

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

9 2 1 2 6 4 3 1 7 9 3

| 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 #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

| | 1991 | | | 1992 | | | | | | | | |
|---|--|-----|-----|------|-----|-----|-----|-----|-----|-----|-----|-----|
| | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
| LIMITED FIELD INVESTIGATION | [Progress bar from Oct 1991 to Sep 1992] | | | | | | | | | | | |
| Task 3-Geologic Investigation Data Compilation | [Progress bar] | | | | | | | | | | | |
| Task 5-Vadose Investigations Data Compilation | [Progress bar] | | | | | | | | | | | |
| Task 6-Groundwater investigations Data Compilation | [Progress bar from Oct 1991 to Sep 1992] | | | | | | | | | | | |
| Field Activities | [Progress bar from Oct 1991 to Mar 1992] | | | | | | | | | | | |
| Evaluate Existing Wells | [Progress bar from Oct 1991 to Mar 1992] | | | | | | | | | | | |
| Well Installation | | | | | | | | | | | | |
| Well BC-1 199-B3-46 | [Progress bar in Feb 1992] | | | | | | | | | | | |
| Well BC-2 199-B3-47 | [Progress bar in Feb 1992] | | | | | | | | | | | |
| Well BC-2A 199-B2-12 | [Progress bar in Feb 1992] | | | | | | | | | | | |
| Well BC-3 199-B2-13 | [Progress bar in Feb 1992] | | | | | | | | | | | |
| Well BC-4 199-B4-8 | [Progress bar in Feb 1992] | | | | | | | | | | | |
| Well BC-5 199-B4-9 | [Progress bar in Mar 1992] | | | | | | | | | | | |
| Well BC-6 199-B9-2 | [Progress bar in Mar 1992] | | | | | | | | | | | |
| Well BC-7 199-B9-3 | [Progress bar in Mar 1992] | | | | | | | | | | | |
| Well BC-8 199-B8-6 | [Progress bar in Mar 1992] | | | | | | | | | | | |
| Well BC-9 199-B5-2 | [Progress bar in Mar 1992] | | | | | | | | | | | |
| Groundwater Soil Samples Laboratory Analysis | [Progress bar from Mar 1992 to Apr 1992] | | | | | | | | | | | |
| Data Validation | [Progress bar from Aug 1992 to Sep 1992] | | | | | | | | | | | |
| Validated Data to Regulators | [Progress bar from Aug 1992 to Sep 1992] | | | | | | | | | | | |
| Data Evaluation | [Progress bar from Aug 1992 to Sep 1992] | | | | | | | | | | | |
| LFI REPORT (Issue as secondary doc) | | | | | | | | | | | | |
| FOCUSED FEASIBILITY STUDY | | | | | | | | | | | | |
| IRM PROPOSED PLAN (Issue as Primary Document) | | | | | | | | | | | | |

Date Date
20Apr

Summary Task Progress
Detail Task Milestone

100-BC-5 DRILLING STATUS

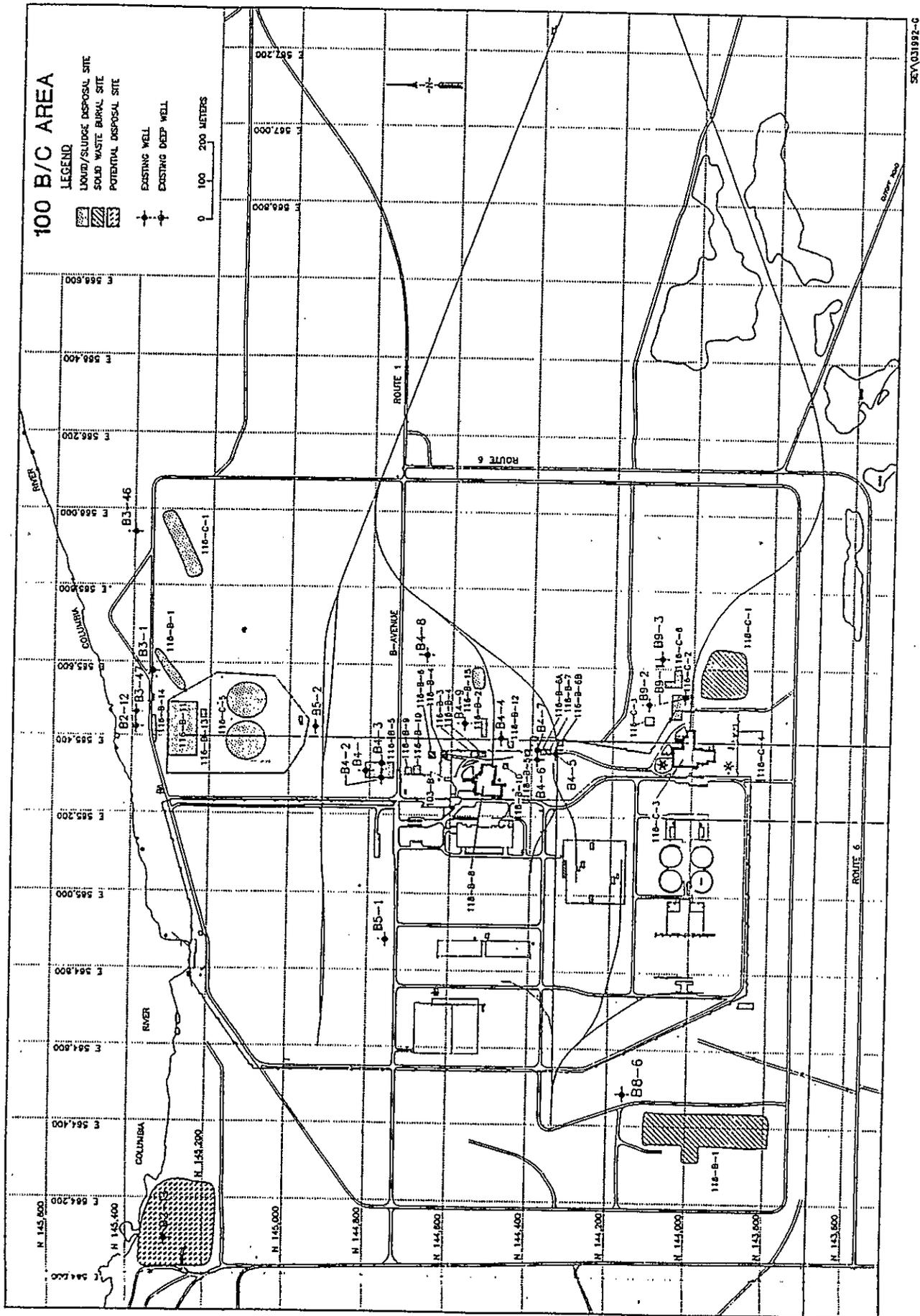
| WELL NUMBER | START DATE | COMPLETION DATE | CURRENT DEPTH | INST. READINGS | SCREEN INSTALLED |
|-------------|------------|-----------------|---------------|-----------------------|------------------|
| 199-B3-46 | 2/19/92 | 2/28/92 | TD 67' | N/A | 3/30/92 |
| 199-B3-47 | 2/19/92 | 2/25/92 | TD 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

92126431797

9 2 1 2 6 4 3 1 7 9 8



SE\031912-C

| 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 | |

9 2 1 2 6 4 3 1 8 0 0

100-AREA AGGREGATE AREA

REVIEW

RLS BOREHOLE SURVEYS WITH
FIELD SCREENING

PREPARED BY: GEOPHYSICS TEAM, APRIL 1992

Attachment #14

CATEGORIES OF FIELD SCREENING RESULTS

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

- 0 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

- 0 THIRTEEN (13) BOREHOLES MEET CRITERIA.
- 0 RLS SURVEY ACQUIRED IN ALL BOREHOLES.
- 0 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

0 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) | | | | DEPTH RANGE |
|----------|------|--------------------------|--------|--------|--------|-------------|
| | | Co-60 | Cs-137 | Eu-152 | Eu-154 | |
| 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)

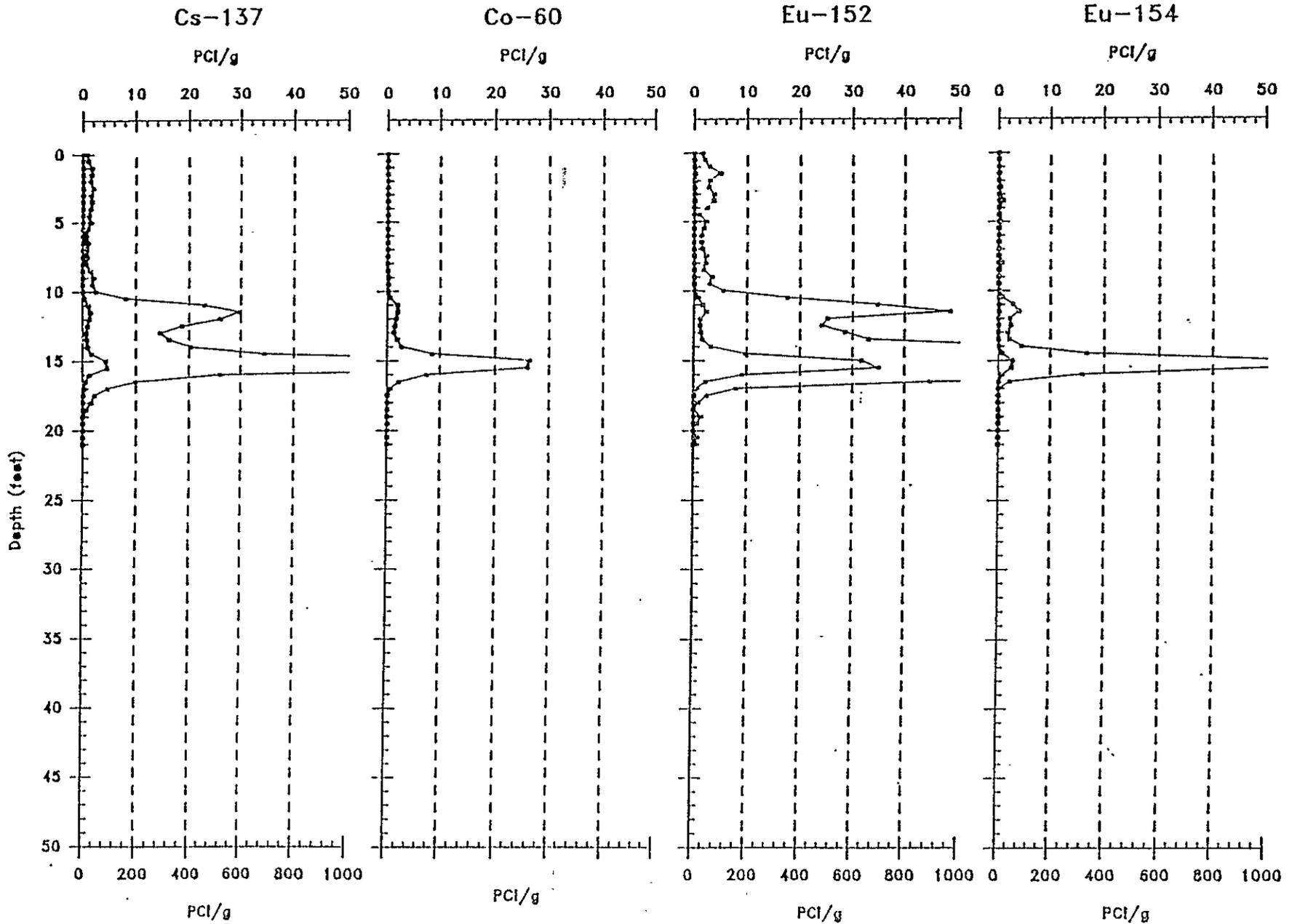
CATEGORY 2: RADIATION DETECTABLE BY FIELD SCREENING (CONT)

| BOREHOLE | * | RADIONUCLIDE AVG (pCi/g) | | | | DEPTH |
|----------|------|--------------------------|--------|--------|--------|--------|
| | | Co-60 | Cs-137 | Eu-152 | Eu-154 | 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)

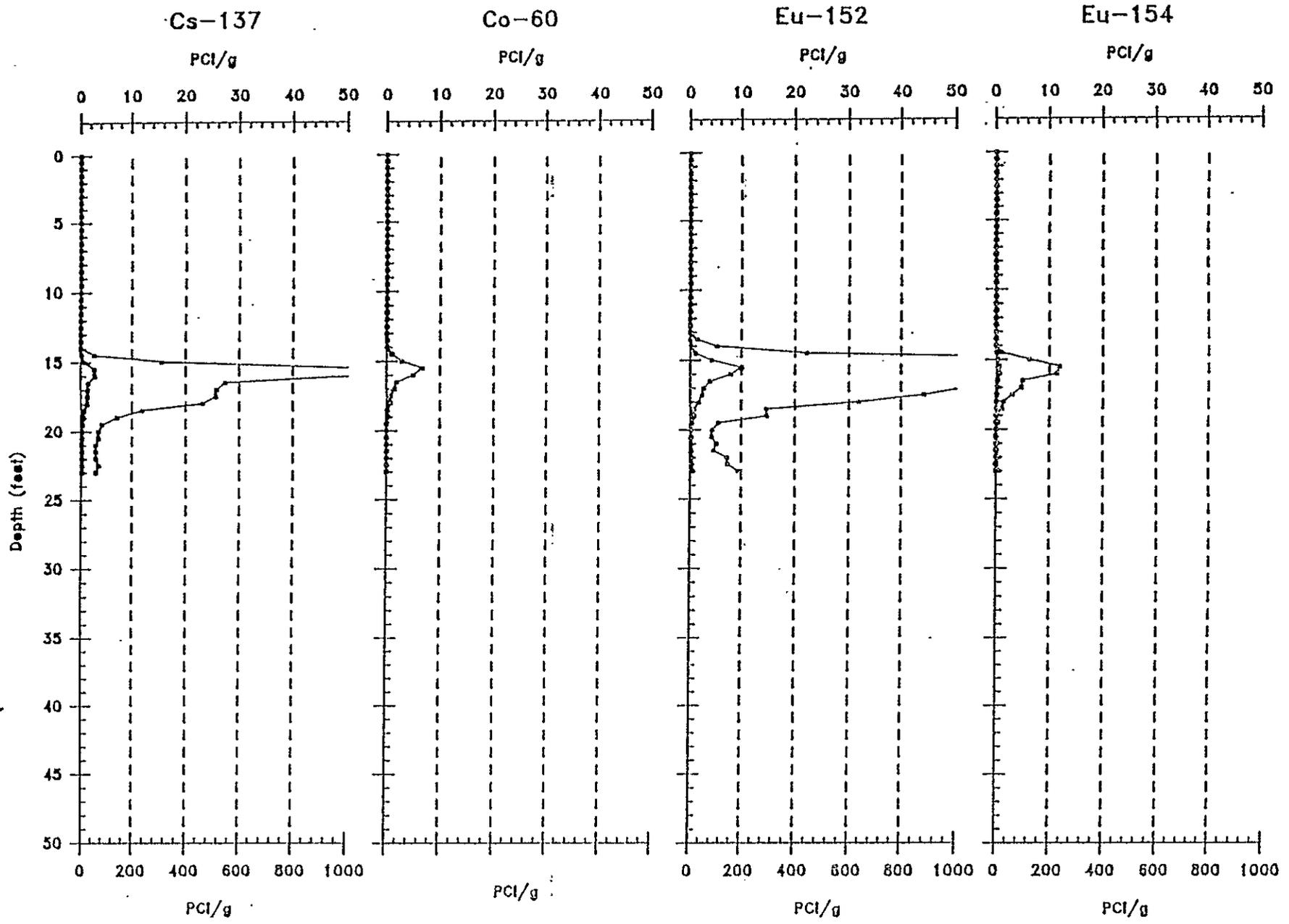
9 2 1 2 6 4 3 1 8 0 6

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



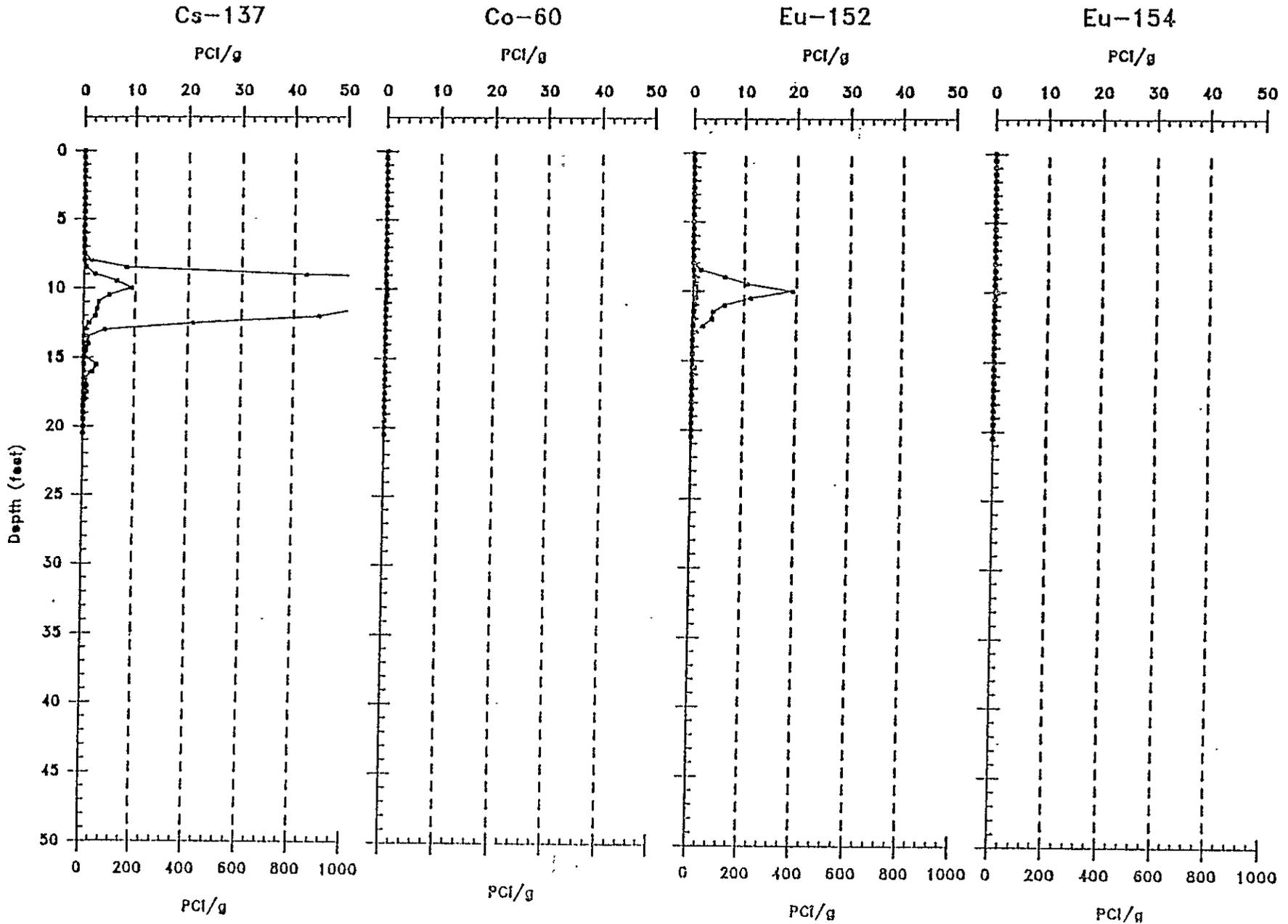
9 2 1 2 6 4 3 1 8 0 7

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



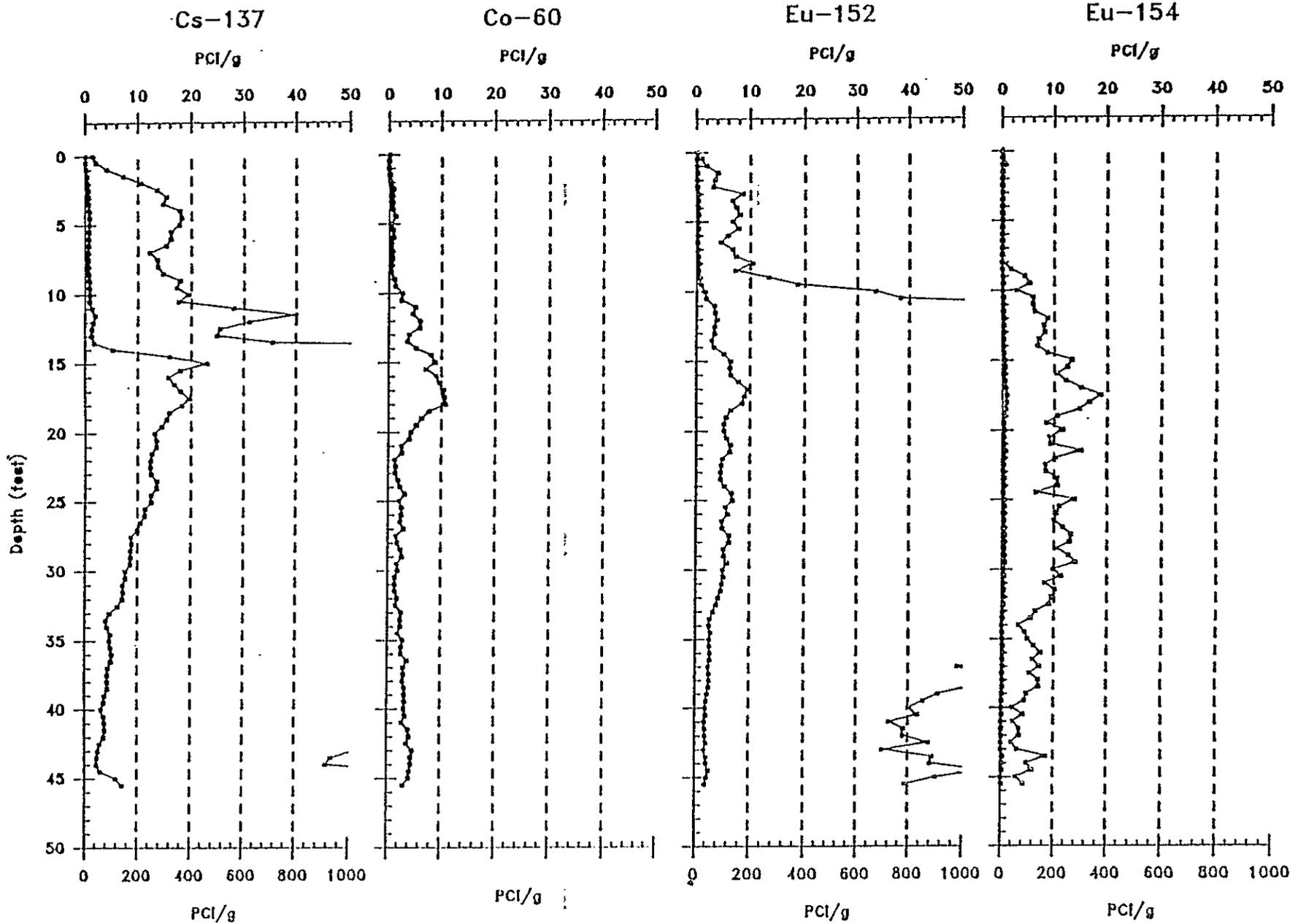
9 2 1 2 6 4 3 1 8 0 8

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



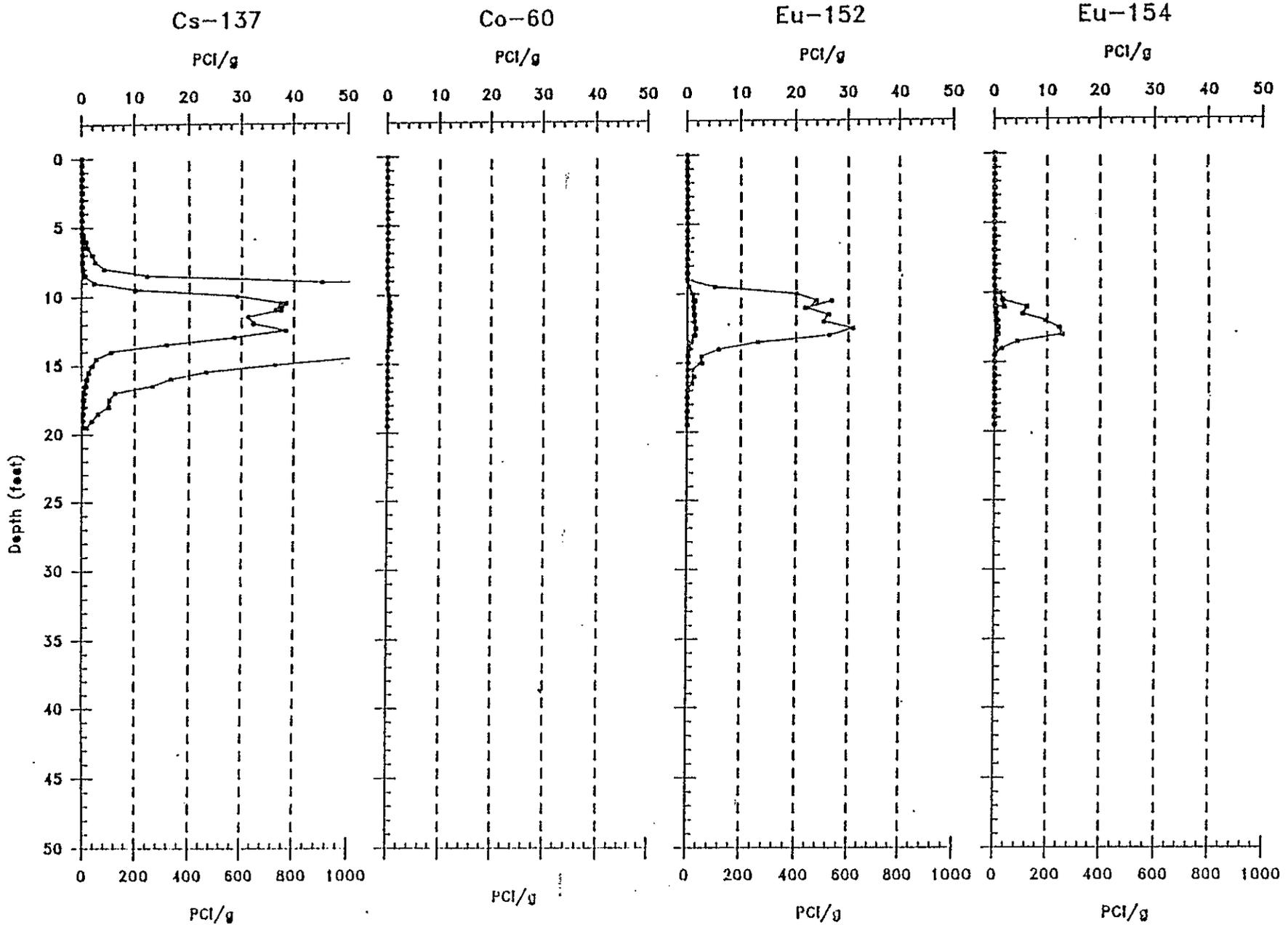
9 2 1 2 6 1 3 1 8 0 9

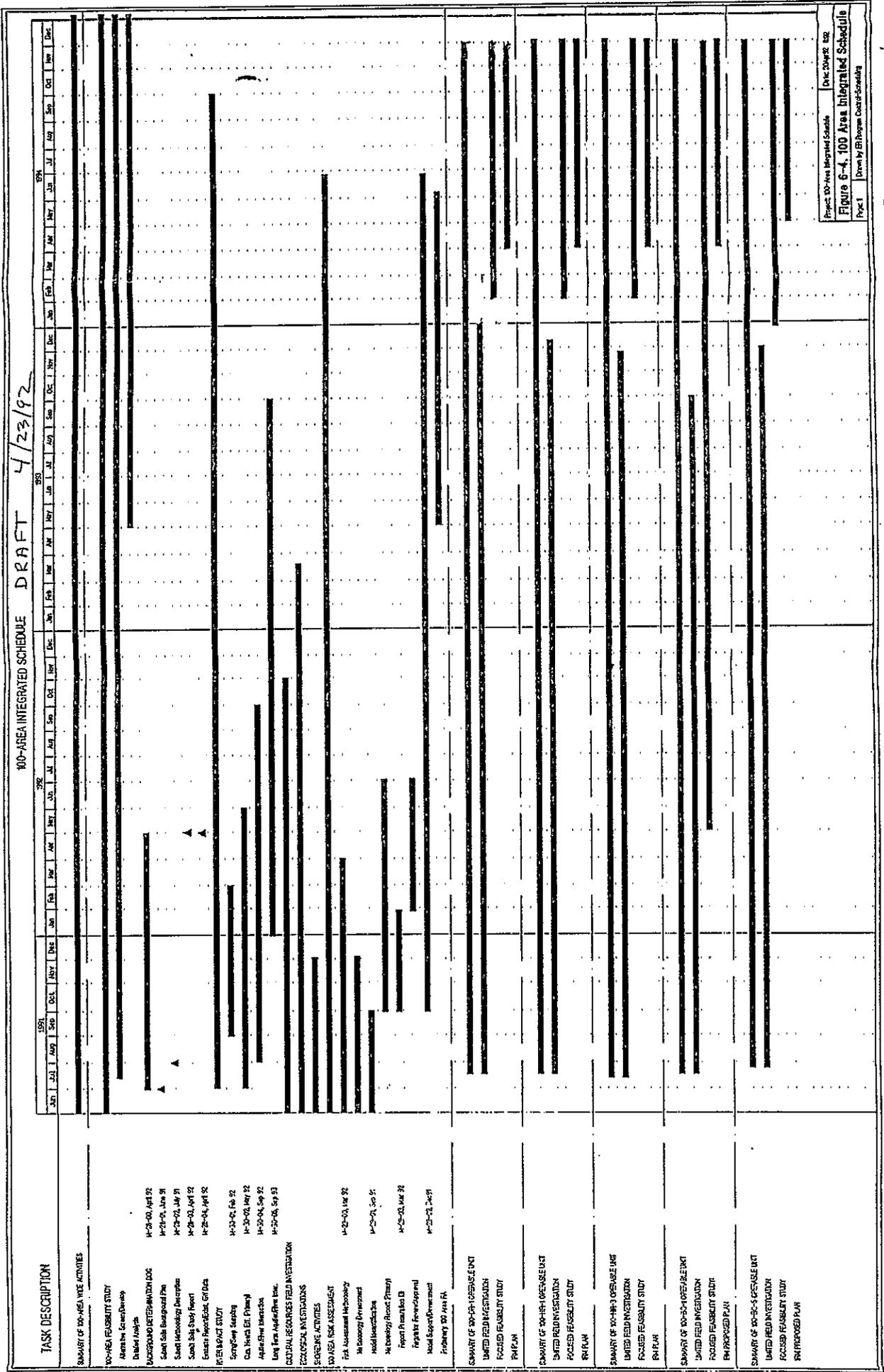
RLS SURVEY OF BOREHOLE 116-D-1A
LOGGED ON 11/27/91



9 2 1 2 6 4 3 1 8 1 0

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





Project 100-Area Integrated Schedule
 Figure 6-4, 100 Area Integrated Schedule
 Page 1 Drawn by BR Program Control-Scheduling

Draft - 4/23/92

AGREEMENT ACTIVITY NOTIFICATION

OPERABLE UNIT 100-KR-4

DATE 4/23/92

TSD _____

Eric Goller
UNIT MANAGER

OTHER _____

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

9 2 1 2 6 4 3 1 8 1 2

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 individual may be required to meet the training requirements of Environmental Investigation Instruction 1.7.

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.

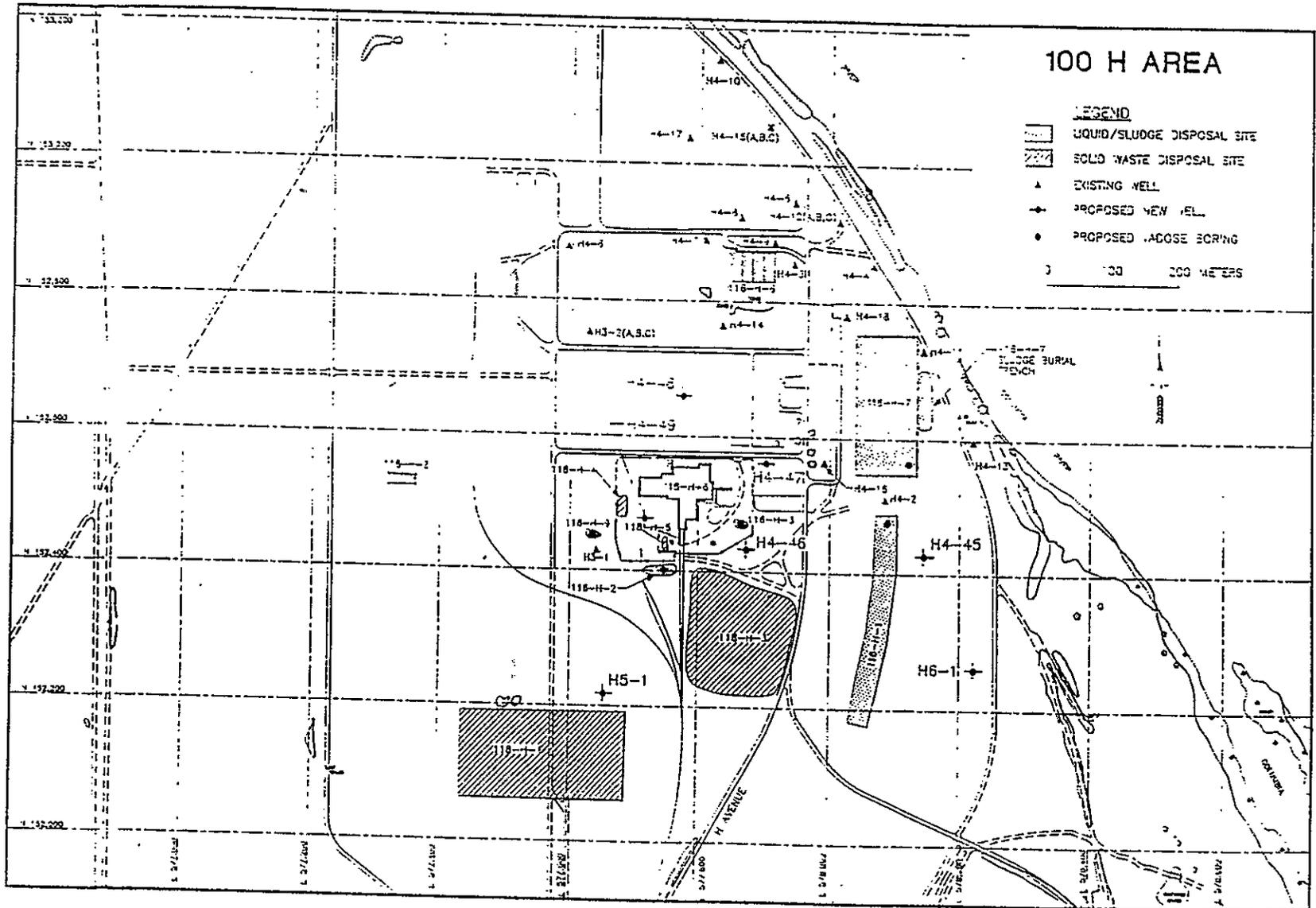
9 2 | 2 6 4 3 | 3 1 3

SAMPLING OBJECTIVES
FOR
100 HR-3 GROUNDWATER MONITORING NETWORK

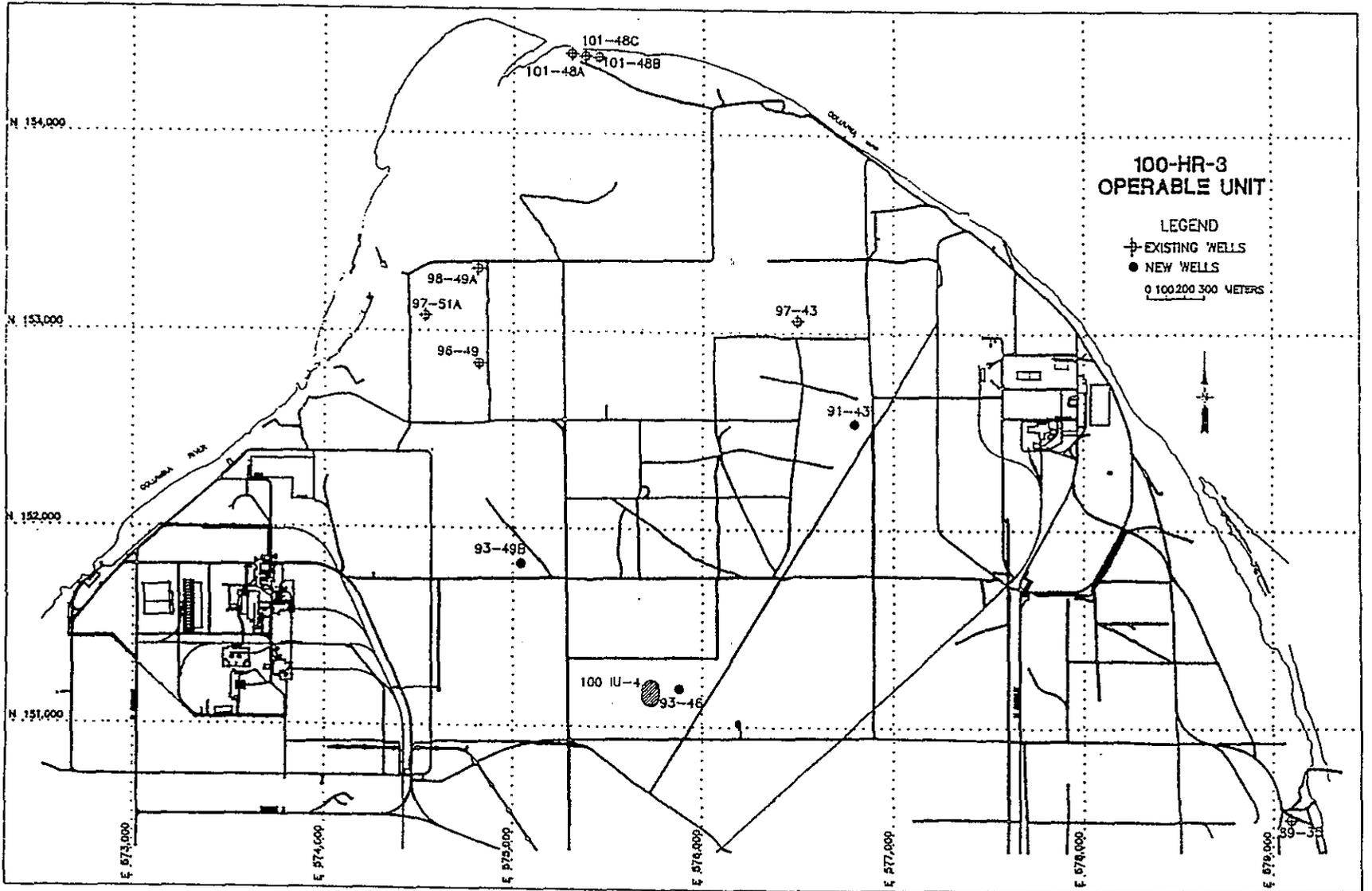
| WELL # | TYPE | PURPOSE | ANALYSES |
|--------|----------|---|-------------|
| D8-53 | CERCLA | Between 116 DR-1 site and River | Full Suite |
| D8-54A | CERCLA | Between 116 D-7 site and River | Full Suite |
| D8-54B | CERCLA | Deep well between 116 D-7 site and River | Full Suite |
| D8-55 | CERCLA | 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.



H-166111991-1



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.

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