

# START

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Meeting Minutes Transmittal and Approval  
RCRA Groundwater Monitoring Program  
740 Stevens Center, Room 1600  
Richland, Washington  
April 21, 1993

Approval: M. J. Furman  
M. J. Furman, U.S. Department of Energy  
Richland Operations Office, Richland

Date: 7-22-93

Approval: K. Kowalik  
K. Kowalik, State of Washington  
Department of Energy Ecology <sup>RDG 7/26/93</sup>

Date: 8/17/93

Attendees

U. S. Department of Energy  
Richland Operations Office

M. J. Furman

State of Washington Department  
of Ecology

K. Kowalik  
A. R. Rainey

Westinghouse Hanford Company

M. A. Immele H6-06  
R. L. Jackson H6-06  
J. F. Keller L4-96  
K. D. Reynolds H6-06  
L. C. Swanson H6-06  
R. R. Thompson L4-96  
B. A. Williams H6-06

Distribution

Attendees  
M. R. Adams H6-01  
R. C. Bowman H6-24  
M. W. Cline H6-24  
K. R. Fecht H6-06  
D. G. Horton H6-06  
R. E. Lerch B3-63  
S. M. Price H6-23  
W. H. Price N3-05  
F. A. Ruck, III H6-23  
T. B. Veneziano L4-96  
R. F. Wood R4-01  
R. D. Wojtasek H6-27

EDMC



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

- Attachment 1 - Summary Meeting Minutes
- Attachment 2 - Agenda
- Attachment 3 - Status of Current RCRA TPA and Supported drilling Projects.
- Attachment 4 - Grout Facility Well Location Status/TOX Issue
- Attachment 5 - 216 U-12 Crib Assessment Monitoring Program
- Attachment 6 - Overview and Status of Well Administrator Team

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Attachment 1

SUMMARY MEETING MINUTES  
April 21, 1993

1. AGENDA. Refer to Attachment 2 for the agenda of the meeting. The primary purpose of this meeting was to:
- Brief Ecology on the CY 1993 RCRA Drilling status and contractor activities for TPA Milestone M-24-00.
  - Discuss status of the CY 1993 Grout Treatment Facility (GTF) well locations and update of TOX issue.
  - Present and review the 216 U-12 Crib assessment monitoring program and schedule.
  - Discuss the status of the well remediation and abandonment program.
  - Discuss the contents of a "RCRA Facility Briefing Book".
2. OPENING REMARKS: Ms. Kowalik requested that meetings are held on an as needed basis instead of monthly due to the drilling under TPA M-24-00.
- In the future, Ecology plans to focus on issues of integration and the overall site wide management of RCRA/Operational/CERCLA projects (i.e., C-018H and W-049H). It is Ecology's intent to address issues and integrate through the use of the Tri-Party Agreement.
3. TPA MILESTONE M-24-00/PROJECT W-152 DRILLING STATUS. Mr. J. F. Keller provided a status of current RCRA TPA and RCRA supported drilling Projects (see attachment 3) and the use of a new offsite drilling subcontractor. Mr. Keller indicated that P.C. Drilling out of Boseman, Montana, was selected as the new subcontractor to KEH to support RCRA drilling (Project W-152) in CY 1993. P.C. Drilling will provide their own safety and geological support under terms of the contract agreement. Drilling under the new contractor will begin sometime toward the end of May. Ms. Kowalik raised concerns about the roles and responsibilities of the subcontract geologist in regard to the interface with Westinghouse Geosciences Group. She also requested clarification as to who will be the technical liaison to Ecology. Mr. Furman indicated that Westinghouse Hanford Company (WHC) legal should be consulted on WHC's legal responsibilities before going any further. Action was delegated to Mr. Keller.
4. GROUT TREATMENT FACILITY WELL LOCATION STATUS/TOX ISSUE UPDATE: Mr. Swanson also summarized the proposed locations and drill depths of the 1993 Grout Wells (M-24-32) as determined from prior discussions with Ecology and WHC. Ecology verbally approved the final well locations.

ECOLOGY K. E 8/19/93  
DOE HTH 7/24/93

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Mr. Swanson also reviewed WHC's action on the elevated TOX at GTF well 299-E25-37, explaining the apparent critical mean exceedance was caused by the chemist laboratory. A recent laboratory audit revealed that only half the TOX data was forwarded to WHC. Since the average TOX contamination no longer exceed the critical mean, a letter stating this will not be forwarded to Ecology.

5. 216-U-12 CRIB ASSESSMENT MONITORING SCHEDULE: Mr. B. A. Williams presented a short overview of the 216-U-12 Crib Facility, including a brief history of operations, current RCRA groundwater monitoring activities, and statistical results leading to the discovery of contamination in the groundwater below the crib. An assessment monitoring schedule and list of deliverables was also included (see attachment 5).
6. WHC WELL REMEDIATION AND ABANDONMENT PROGRAM: Mr. Williams provided an overview and status of the Well Administrator Team, an integrated team of responsible organizations and company representatives. Representatives are actively addressing the issues, organizational problems, and solutions to establishing a Site Wide Well Management Group (see attachment 6). Ms. Kowalik indicated that well abandonment activities need to be place as an important priority to be funded in future years. Furman indicated that funding for this scope of work has yet to be funded at a significant level.

Ecology specified well abandonment should be prioritize on established criteria, such as immediate threat or hazard to the environment, and the age and depth of wells. Mr. R. R. Thompson, WHC, indicated that his program was responsible for RCRA and Operational groundwater well abandonment and remediation.
7. REVISION OF TPA MILESTONE M-24-00: This discussion was deferred until later or until time can be allowed to reformulate the milestone description and provide justification for the change.
8. ECOLOGY RCRA FACILITY BRIEFING BOOK: Mr. R. L. Jackson requested clarification from the Ecology pertaining to contents and costs to prepare the briefing book. Ms. Kowalik indicated that most of the RCRA projects are now managed from the Kennewick Office and that a briefing book is needed by Ecology to provide a quick summary of facilities. Further clarification on the contents of the briefing book were deferred to later time. Action was assigned to R. L. Jackson.
9. 1324-N FACILITY CHANGE REQUEST: Mr. R. R. Thompson indicated that a Class II change request to reduce the number of wells drilled at the 1324-N facility from two to one (Cy 1993) was transmitted to DOE-RL for review and approval.

ECOLOGY *K.L.* 3/17/95  
DOE *M.J.* 2/22/93

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10. ACTIONS:

- Ms. Kowalik indicated that Projects needs to provide a written delegation of responsibility for all drilling, safety, inspection, and characterization activities now covered under the agreement so that WHC Geosciences can perform as the user organization. Mr. Furman requested that WHC Projects consult with legal before any further action on the drilling subcontract with PC Drilling.
- Mr. R. Thompson provide drilling status to Ms. Kowalik on a schedule established between WHC, DOE-RL and Ecology.

11. PAST ACTIONS:

- Signed January 27, 1993 meeting minutes (complete).
- Ecology approved the CY 1993 RCRA well locations at the Grout Facility (in progress).
- Ecology review of Engineering Change Notices (in progress)

12. NEXT MEETING: The next monthly meeting will be conducted in Richland on May 24, 1993 at 9:00 AM. The meeting will take place in conference room 2200, 740 Stevens Center.

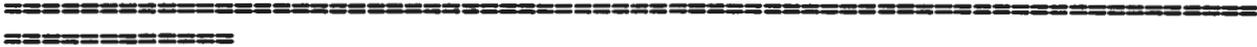
ECOLOGY 8/19/93 ←  
DOE 7/22/93

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AGENDA

RCRA GROUNDWATER MONITORING PROJECT

U. S. Department of Energy-Richland Operations Office  
Washington State Department of Ecology  
Westinghouse Hanford Company



April 21, 1993 10:00A  
740 Stevens, Room 1200  
Richland, Washington

- o Opening Remarks-K. Kowalik (WDOE)/M. J. Furman (DOE-RL)
- o CY 93 Planning Status (contract drilling) and Schedule for TPA Milestone M-24-00-J. F. Keller
- o Grout Treatment Facility well location status for TPA Milestone M-24-32 and update on TOX status-L. C. Swanson
- o 216-U-12 Crib assessment monitoring schedule-B. A. Williams
- o Status of WEC Well Remediation and Abandonment Program-B. A. Williams
- o Planning for Ecology's RCRA Facility Briefing Book-K. Kowalik/R. L. Jackson
- o Closeout or revision of TPA Milestone M-24-00 M. J. Furman
- o Change Request at 1324-N Facility, one CY 93 well-R. R. Thompson
- o Past Actions
  - Invitation to permitting for program overview
  - Signing of January 27, 1993 meeting minutes
  - Formal Approval of ECNs submitted to Ecology
  - Approval of outstanding variance requests for W-017H (W18-27)
  - Final verbal approval of CY 93 well locations at Grout facility
- o Action Items and Next Meeting-K. Kowalik/M. J. Furman

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## TPA STATUS

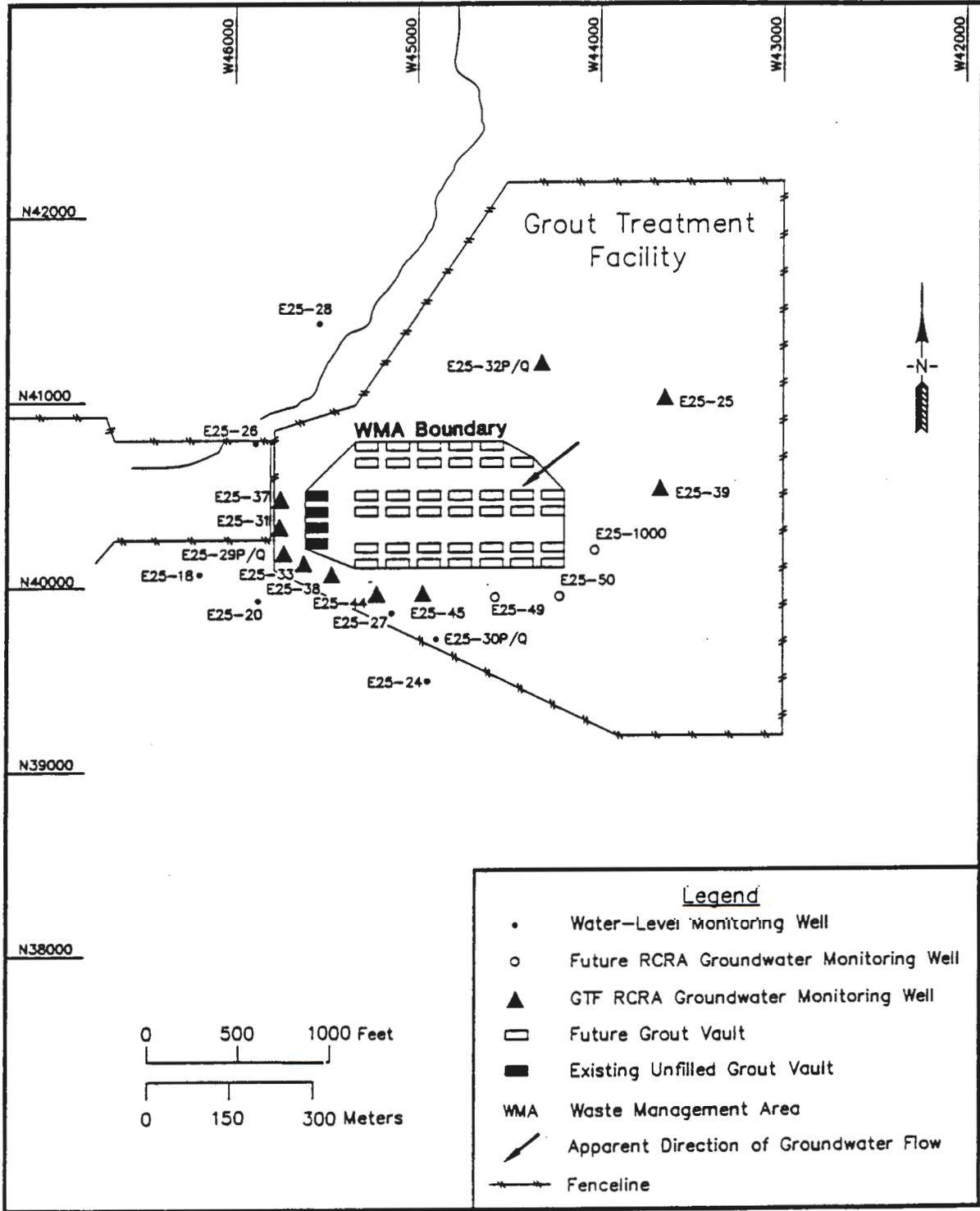
### **M-24-00E (6) WELLS**

- (1) Well N-81 has been completed, is currently being developed.

### **M-17-13A U-14 Ditch (6) Wells**

- (2) Wells W-18-250 and W-18-251 are at total depth.
- (2) Wells W-23-16 at 30' and W-23-17 at 105' drilling in progress.

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# U-12 CRIB ASSESSMENT SCHEDULE

April 12, 1993

## PURPOSE:

Present an overview of the facility and current status of the Phase I assessment.

## BRIEF HISTORY OF THE 216-U-CRIB:

- In operation from April, 1960 to 1972, and November, 1981 to February 1988
- Disposal of process effluent from UO<sub>3</sub> Plant and 224-Bldg (200 West)
- Waste Stream contained dilute and neutralized nitric acid wastes

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- Groundwater monitoring network established in 1990 (WHC-SD-EN-AP-019)
- Groundwater monitoring began September, 1991 (GWQ, CI, DW, SS)
- Detection of specific conductance above established statistical background on September, 1992
- Verification sampling completed on December 10, 1992
- Assessment Plan (WHC-SD-EN-AP-108) delivered to Ecology on February 2, 1993 (9300848).

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## **INTERIM:**

- **Status Groundwater Quality Assessment Plan for the 216-U-12 Crib.**

## **PHASE 1 OBJECTIVES:**

- **Determine if the source of the elevated values of specific conductance in downgradient wells 299-W22-41 and 299-W22-42 are indicative of contamination in the groundwater from the 216-U-12 Crib.**

# **SCHEDULES OF ACTIVITIES AND DELIVERABLES:**

**Completion Date**

**Remediation of Wells 299-W22-22  
and 299-W22-23 . . . . . April 93**

- Vintage "1960s" well design
- Plug back exposed sampling intervals
- Redevelop and install pumps

**Continuous Quarterly Sampling  
beginning 2nd Qrtr 1993 . . Sept 93**

- Contamination Indicator parameters
- Site specific parameters
- Review of waste stream analytical data and discharge volumes
- Evaluation of historical groundwater flow

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# Assessment Report of Ecology July 94

- Results of assessment program
- Findings and recommendations

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# WELL REMEDIATION AND ABANDONMENT PROGRAM

Well Administrator Team  
Westinghouse Hanford Company

April 21, 1993

## PROGRAM STATUS:

- Well Administrator Team established (POC - JW Linderg 6-5005)
  - Integrated team of well users/responsible organizations
  - Biweekly meetings on develop program strategy and resolve issues

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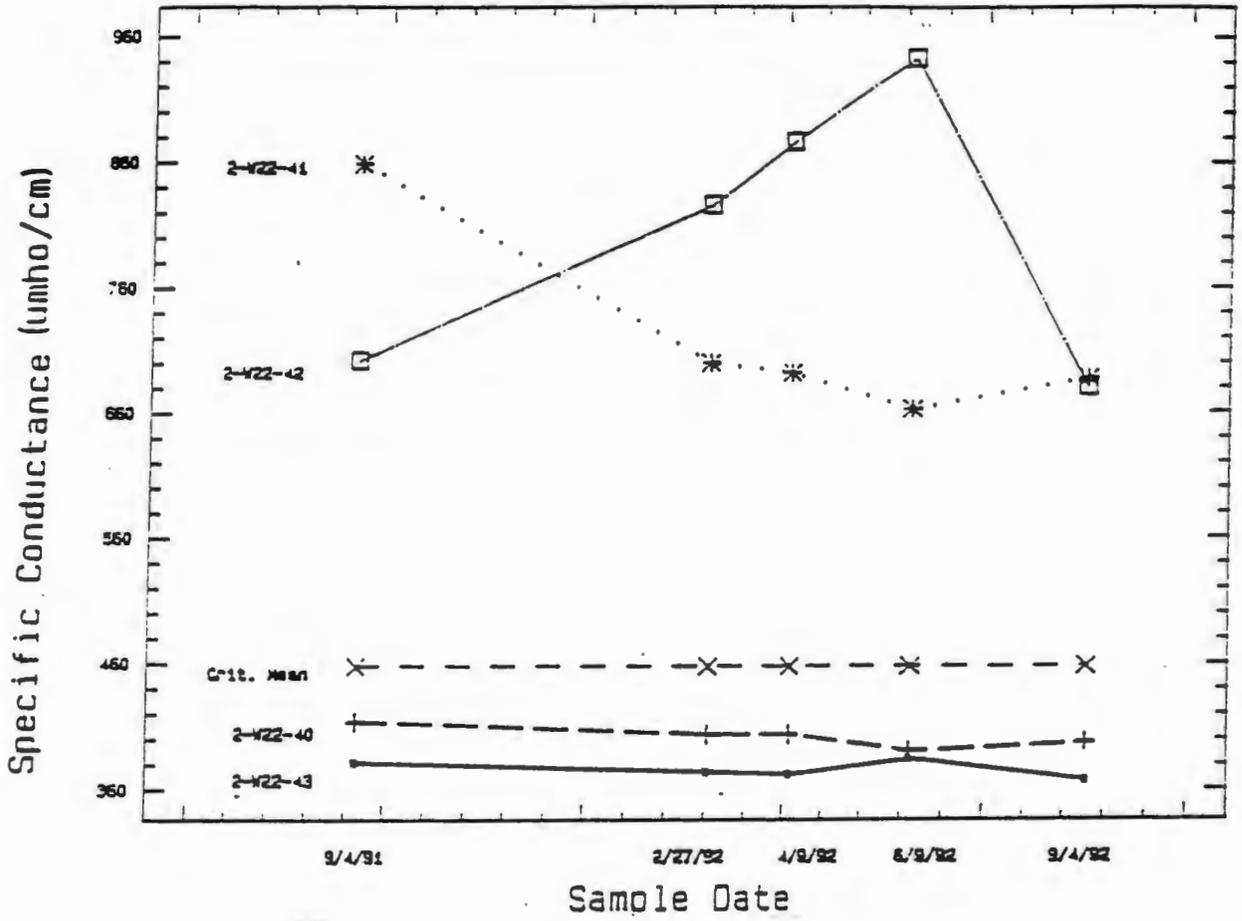
- **Hanford Well Inventory**
  - **3600 Well identified**
  - **Start with wells south of N.20,000 (Wye Barricade)**
  - **Establish electronic database for easy data access and map reproduction**
- **Identify well ownership/responsible organization**
  - **Define all well users**
- **Orphan wells**
  - **Define use and need**
  - **Ownership**

● **Establish Well Administrator Team Protocols**

- **Address remediation and abandonment coordination**
- **Transfer of responsibilities**
- **Record keeping and log libraries**

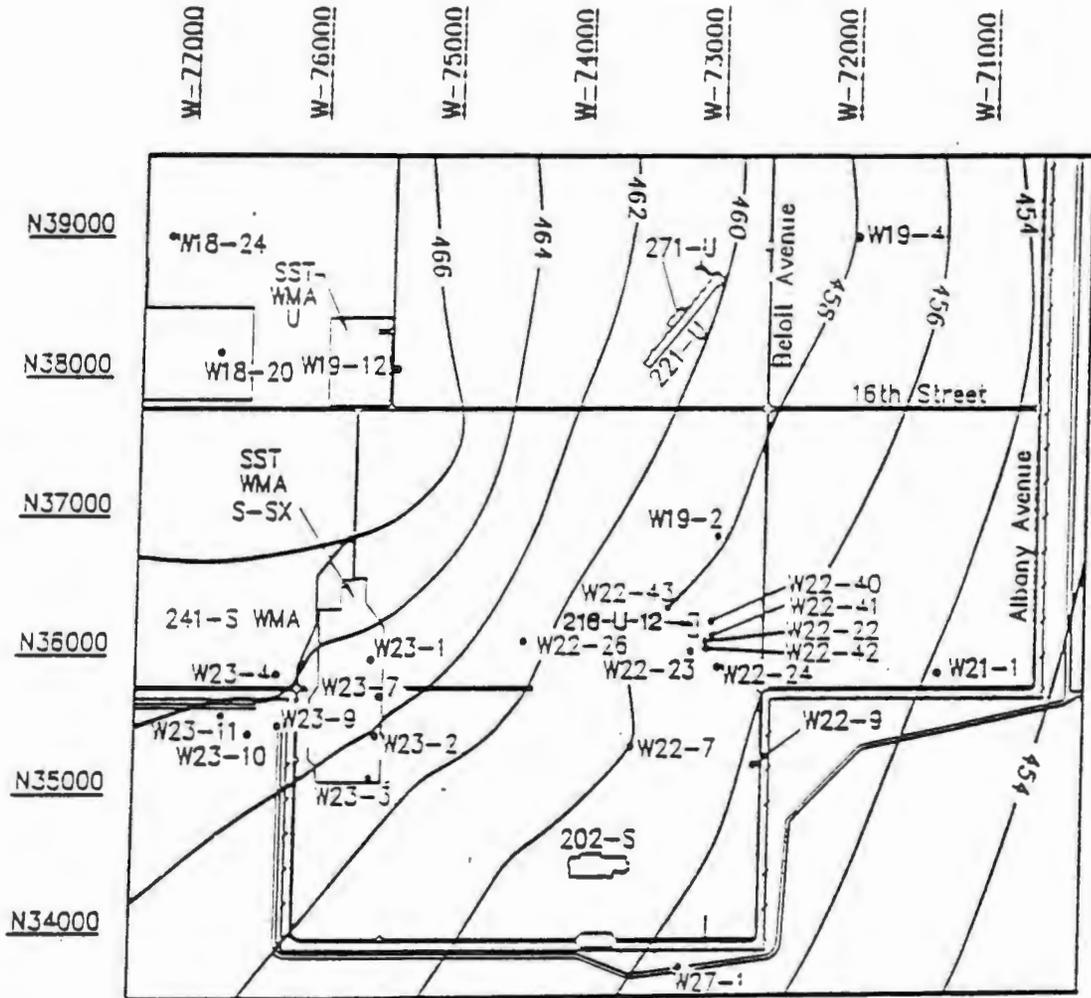
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Specific Conductance Concentration Versus Time  
 Plot for the 216-U-12 Crib.



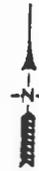
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Water Level Elevations in Wells at the 216-U-12 Crib  
and a Water Table Map Indicating the General Direction of  
Groundwater Flow, September 1992.



Legend

- Groundwater Monitoring Well
- W23-2 Well Used in Creating Water Table Map (Number Prefixes by 299-)
- 466— Water Table Contour, Feet Above Mean Sea Level
- LLWMA Low-Level Waste Management Area
- WMA Waste Management Area

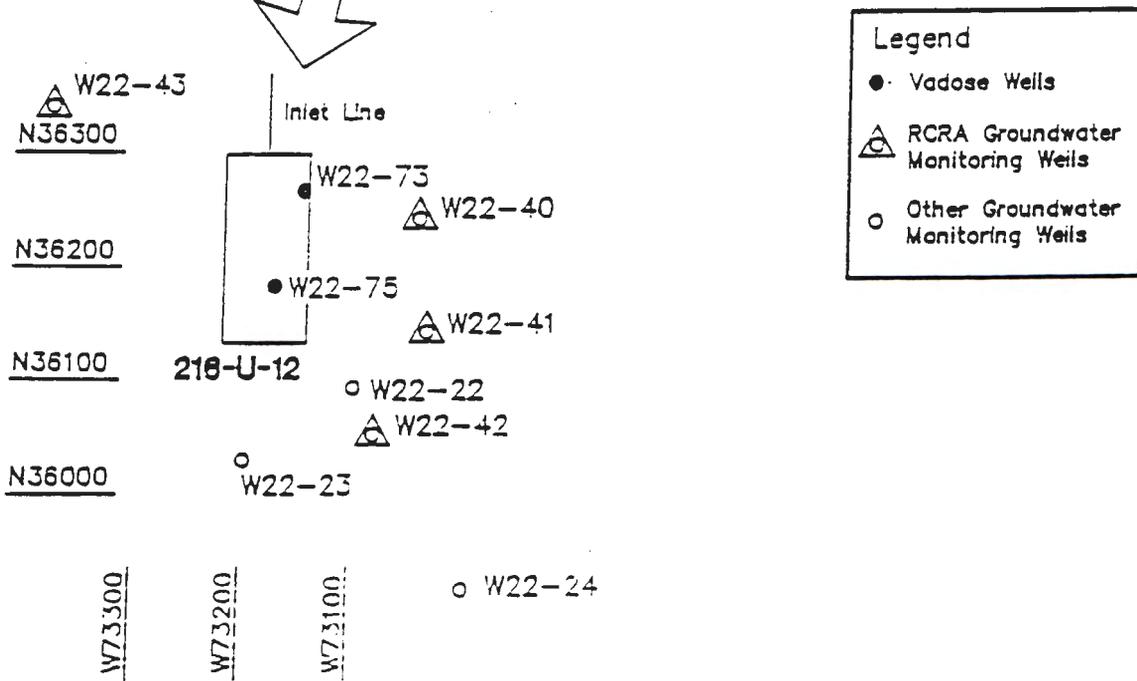
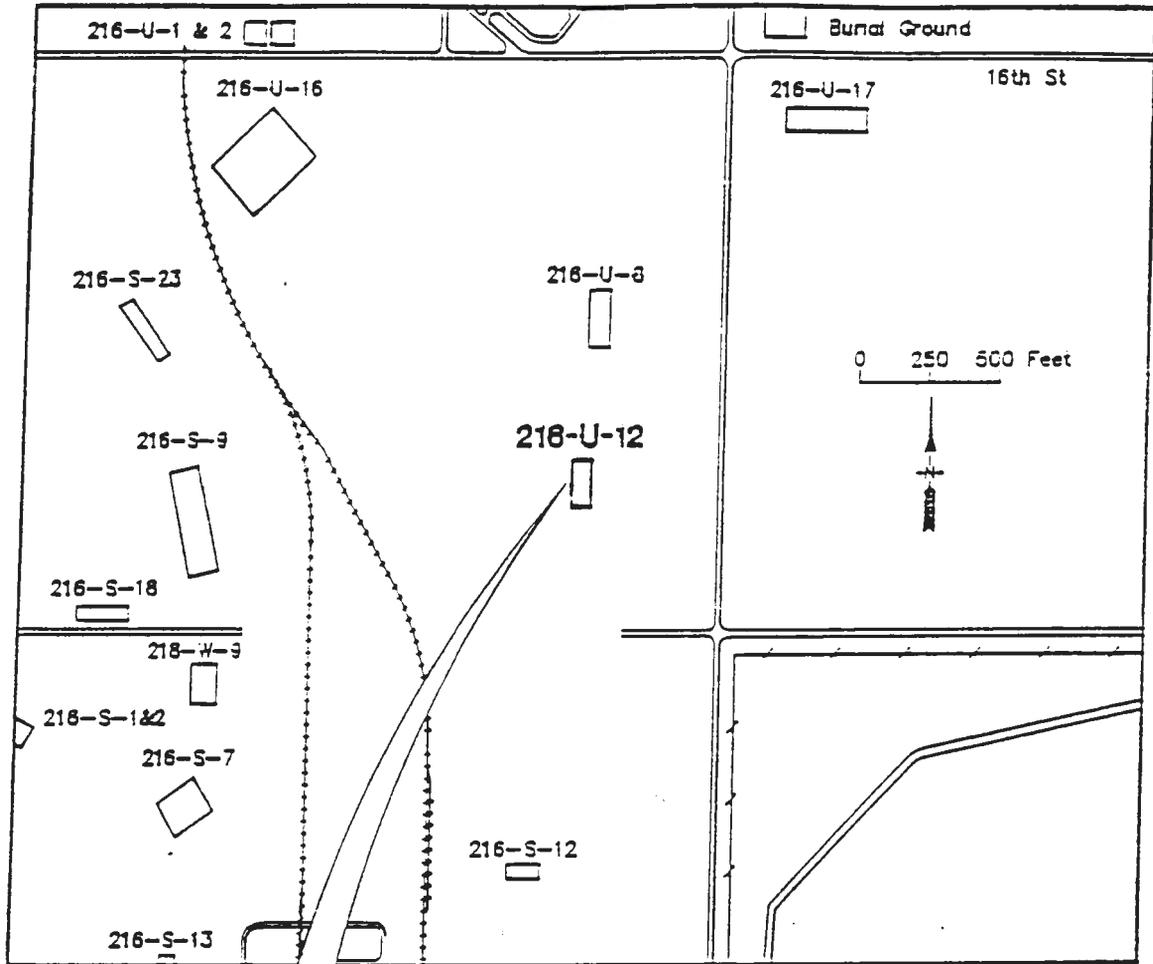


0 1000 2000 Feet

0 500 Meters

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Location Map of the 216-U-12 Crib in the 200 West Area.



**Legend**

- Vadose Wells
- △ RCRA Groundwater Monitoring Wells
- Other Groundwater Monitoring Wells

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