

FERNALD CLEANUP PROGRESS BRIEFING

JUNE 2000

6:30 p.m. Opening Remarks Gary Stegner

6:35 p.m. Project Updates

Waste Pits Remedial Action Project

Dave Lojek

On-Site Disposal Facility Projects

Jay Jalovec

Decontamination & Dismantlement

John Trygier

Silos Project

Nina Akgunduz

Aquifer Restoration/Wastewater Project

Rob Janke

Soil Characterization & Excavation Project

Rob Janke

Waste Generator Services

John Sattler

Question and Answer Session

8:30 p.m. Adjourn

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PROJECT NEWS

WASTE PITS REMEDIAL ACTION PROJECT

- Rail transportation
 - 23 trains (134,708 tons) to Envirocare
- Waste pit excavation
 - Pits 1, 2 and 3
- Dryer operations

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PIT 1 EXCAVATION

2412

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Photo taken June 2000

PIT 2 EXCAVATION



Photo taken April 2000

Graphics # 6416.IC 6/00 Photo # 6944-1088

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PIT 3 EXCAVATION

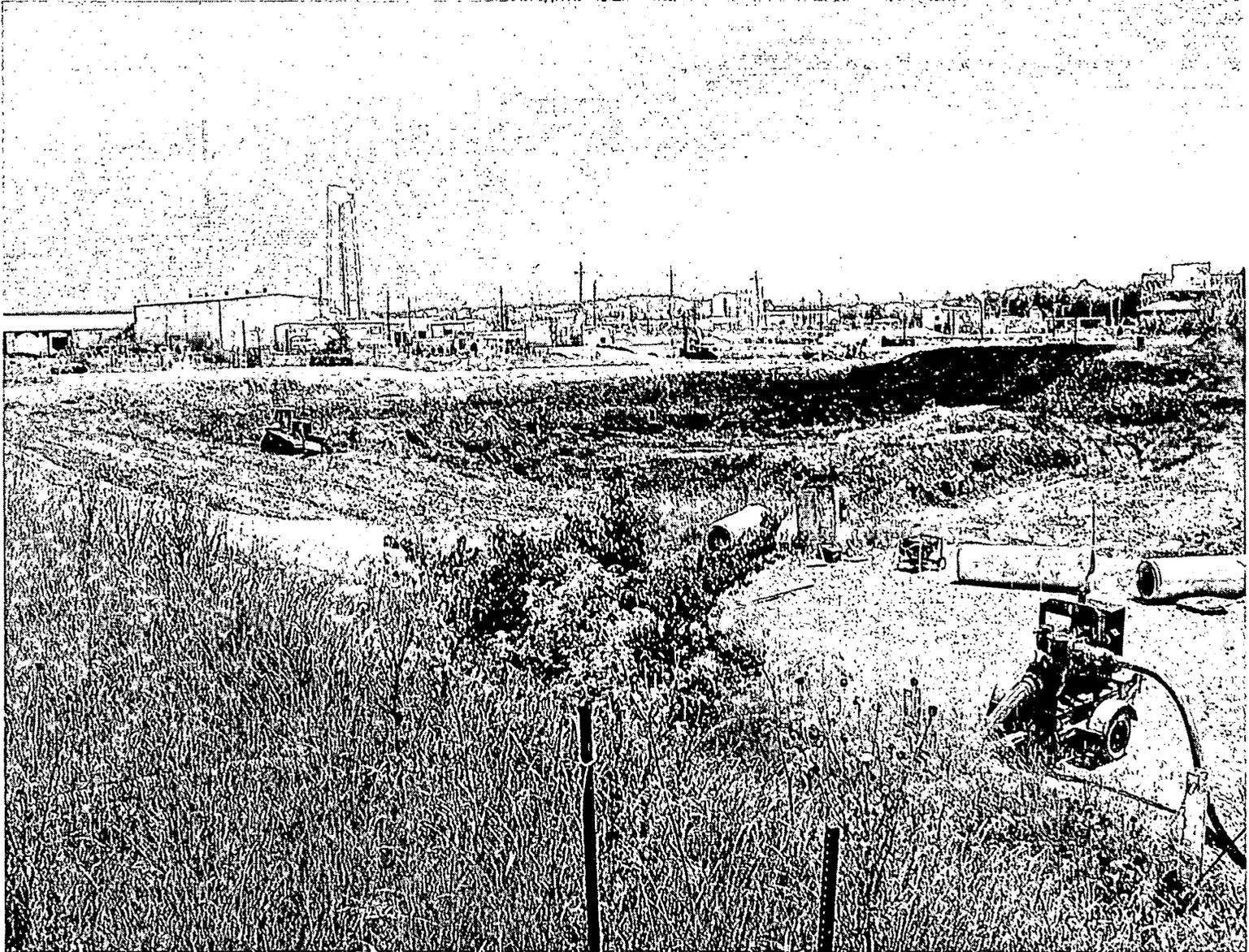


Photo taken June 2000

TRUCK WASH

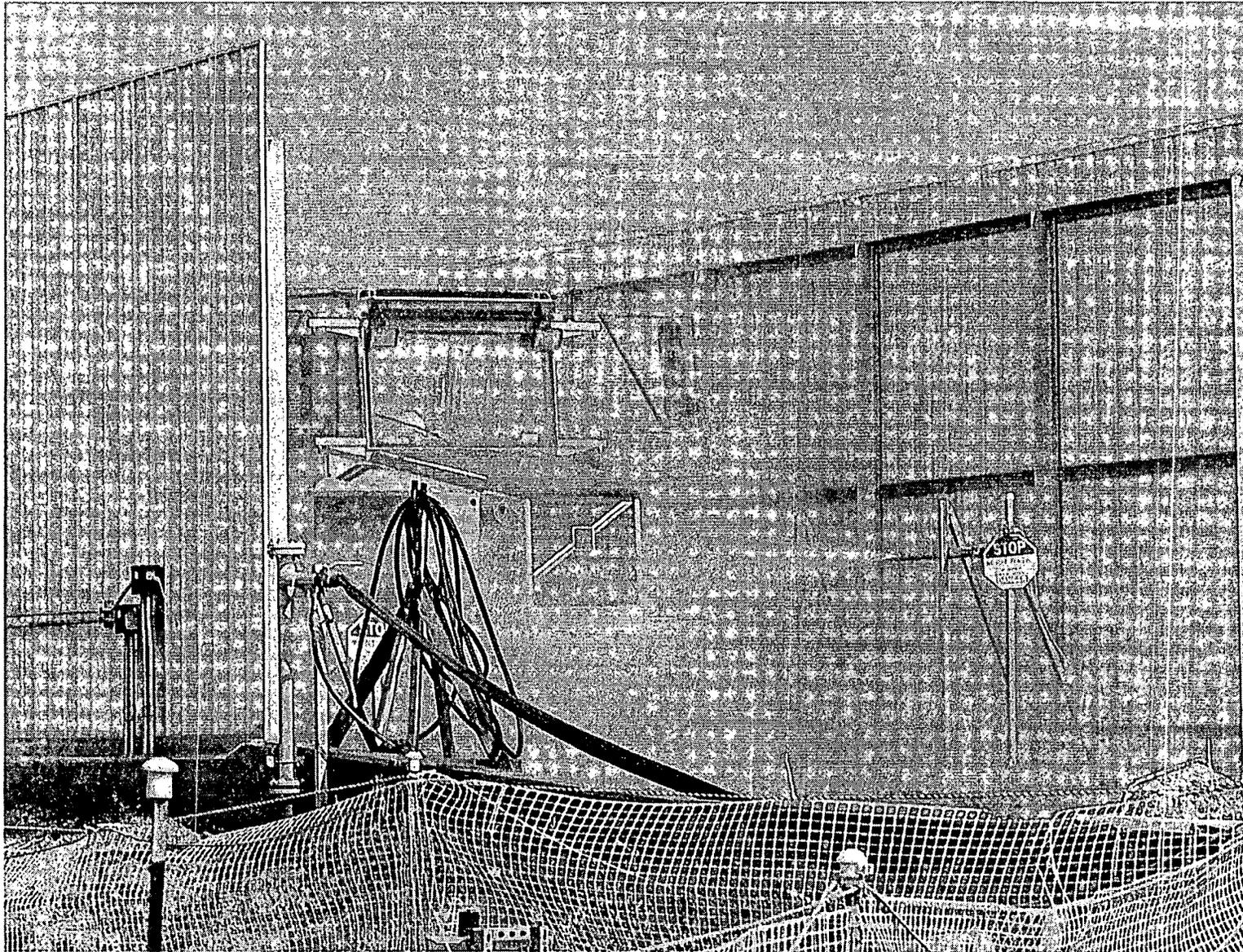


Photo taken April 2000

Graphics # 6416.1E 6/00 Photo # 6944-D1109

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PIT EXCAVATION



Photo taken April 2000

Graphics # 6416.1F 6/00 Photo # 6944-D1108

PROJECT NEWS

ON-SITE DISPOSAL FACILITY

PROJECT

- Waste Placement Status
 - Cell 1 is 85 percent complete; capping in 2001
 - Cell 2 is 45 percent complete
 - Cell 3 is 10 percent complete
- Revised design documents/submitted support plans to EPAs, May 22
- Initiated Enhanced Permanent Leachate Transmission System construction, May 30
- Completed North Entrance Road Traffic Impact Study, June 8



PROJECT NEWS

DECONTAMINATION & DISMANTLEMENT

- Plant 5
 - Completed demolition of Building 55A and B
 - Removed equipment in Building 5A
- Plant 6
 - Removed asbestos-containing materials
 - Began dismantlement of the No_x system
 - Dismantled interior and equipment in Building 70
- Security Building (28A) and Industrial Relations Building (28B)
 - Dismantled and removed concrete wall between 28B and the Administration Building
 - Constructed new egress
 - Reuse of T85 for new Security location

PROJECT NEWS

SILOS PROJECT

Silos 1 & 2 Draft Revised Feasibility Study/ Proposed Plan Project Status

- Received EPAs' approval of the Revised Feasibility Study/Proposed Plan (FS/PP), March 22 & 23
- Conducted public hearings both locally and in Nevada, April 25 & May 3
- Completed the formal public comment period on May 18 and initiated preparation of the draft Record of Decision Ammendment and Responsiveness Summary
- Anticipate submittal of the draft ROD and Responsiveness Summary to the EPAs by late June

PROJECT NEWS

SILOS PROJECT

Silos 1& 2 Accelerated Waste Retrieval Project Status

- EPAs approved the Site Preparation portion of Remedial Design Package, May 25
- Issued authorization to mobilize on May 15
- Finalizing Remedial Design Package for submittal week of June 19 for EPAs' review and approval
- Initiated site preparation field work week of June 5

PROJECT NEWS

SILOS PROJECT

Silo 3 Project Status

- EPAs approved Site Preparation Package, May 3
- Issued authorization to mobilize on May 31
- Remedial Design Package submitted to EPAs, May 19;
meeting enforceable milestone
- Begin construction end of June

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PROJECT NEWS

AQUIFER RESTORATION/ WASTEWATER PROJECT

- Completed Draft Re-Injection Demonstration Test report
 - Submitted to EPAs in May
 - Deemed successful, recommends addition of re-injection to aquifer remedy
- Conducted Investigation for Remediation of the Great Miami Aquifer in Waste Storage and Plant 6 Areas to confirm RI/FS findings
 - Collected uranium concentration data at 30 direct-push locations
 - Collected uranium concentration data at 11 existing wells
 - Performed groundwater modeling to determine the number of extraction wells needed

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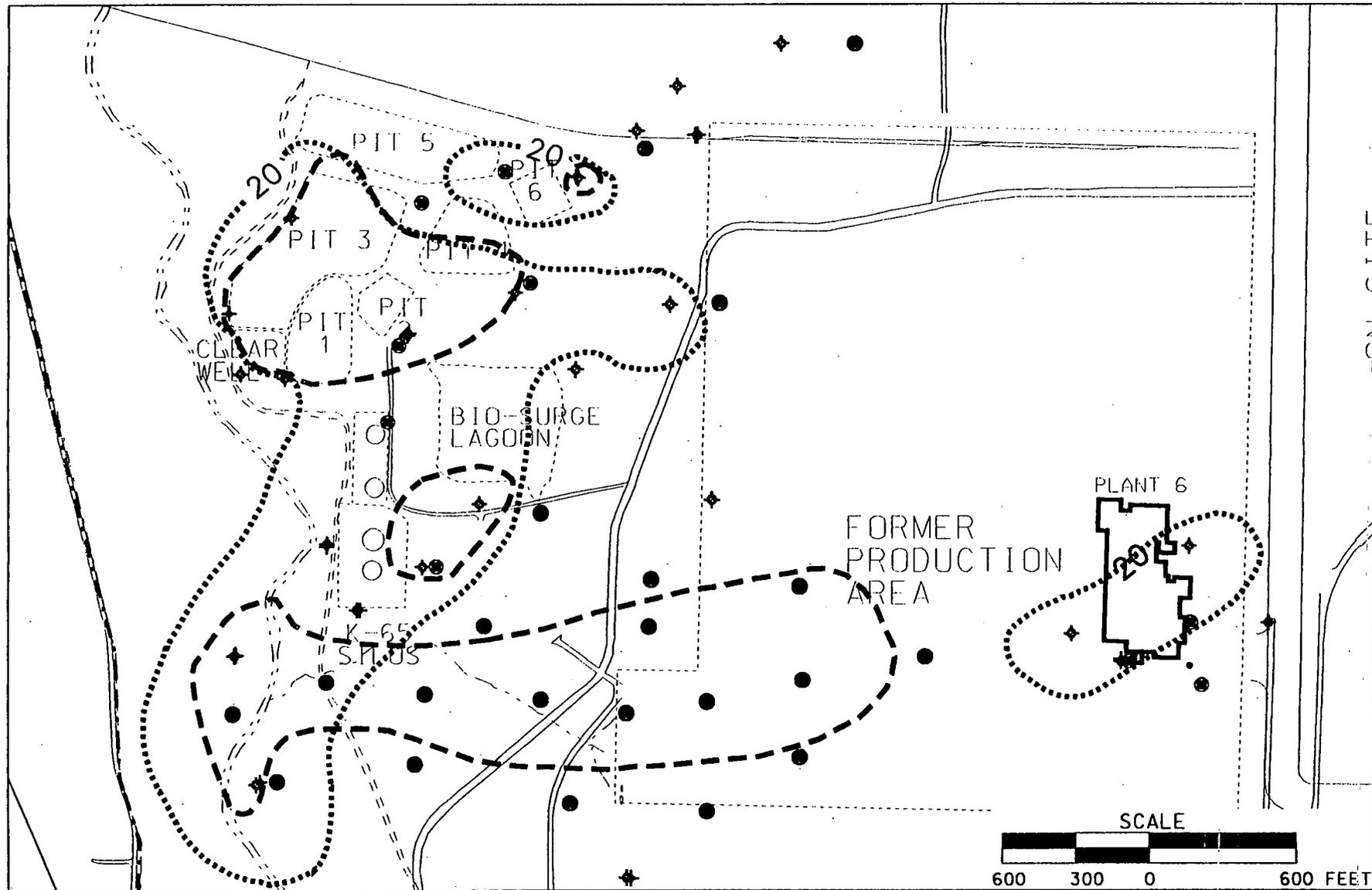
PROJECT NEWS

AQUIFER RESTORATION/ WASTEWATER PROJECT

Conceptual Design Report Conclusions

- Plant 6
 - Original model plume not present
 - No plume greater than 20 ppb exists
- Waste Storage Area
 - Plume smaller than RI/FS finding (55 acres versus 70 acres)
 - Identified three distinct plumes
 - Southern plume extends further east and has uranium concentration up to 566 ug/l

WASTE STORAGE AND PLANT 6 SAMPLING LOCATIONS



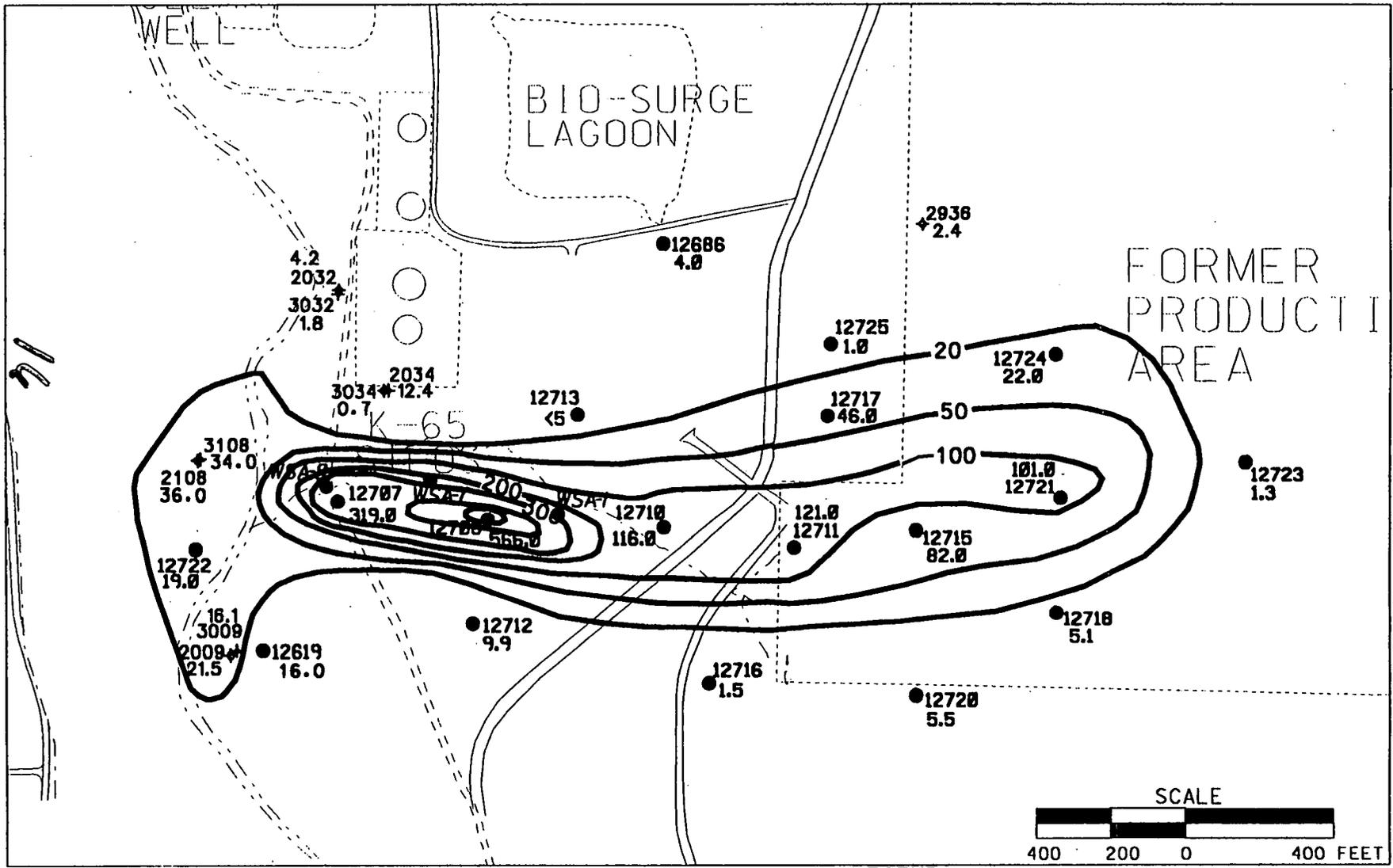
LEGEND:

- ◆ MONITORING WELL
- GEOPROBE
- 20 g/L TOTAL URANIUM CONTOUR
OU5uRI PLATE E-81
- - - - CURRENT 20 μg/L TOTAL URANIUM CONTOUR

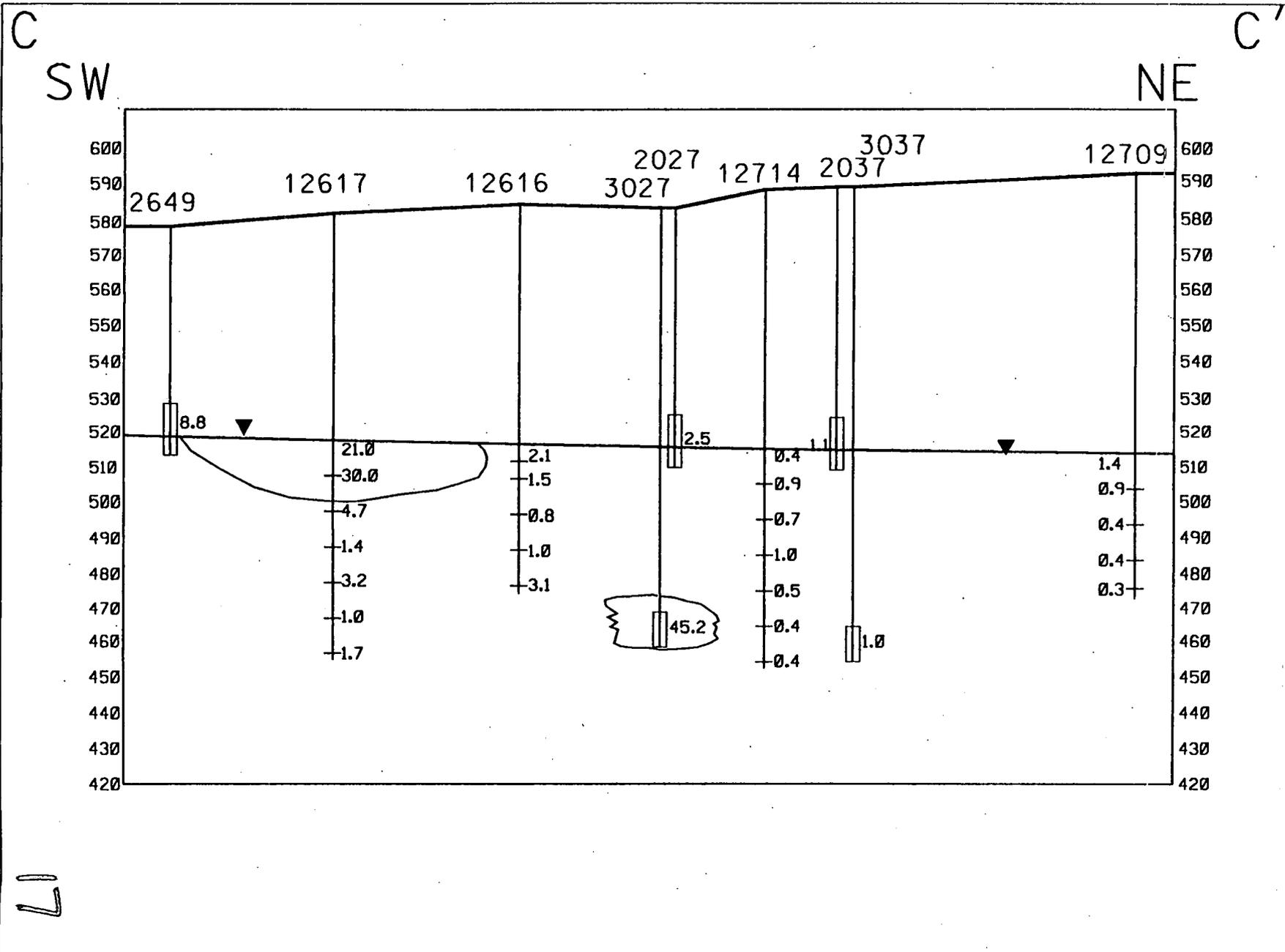
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PILOT PLANT DRAINAGE DITCH PLUME



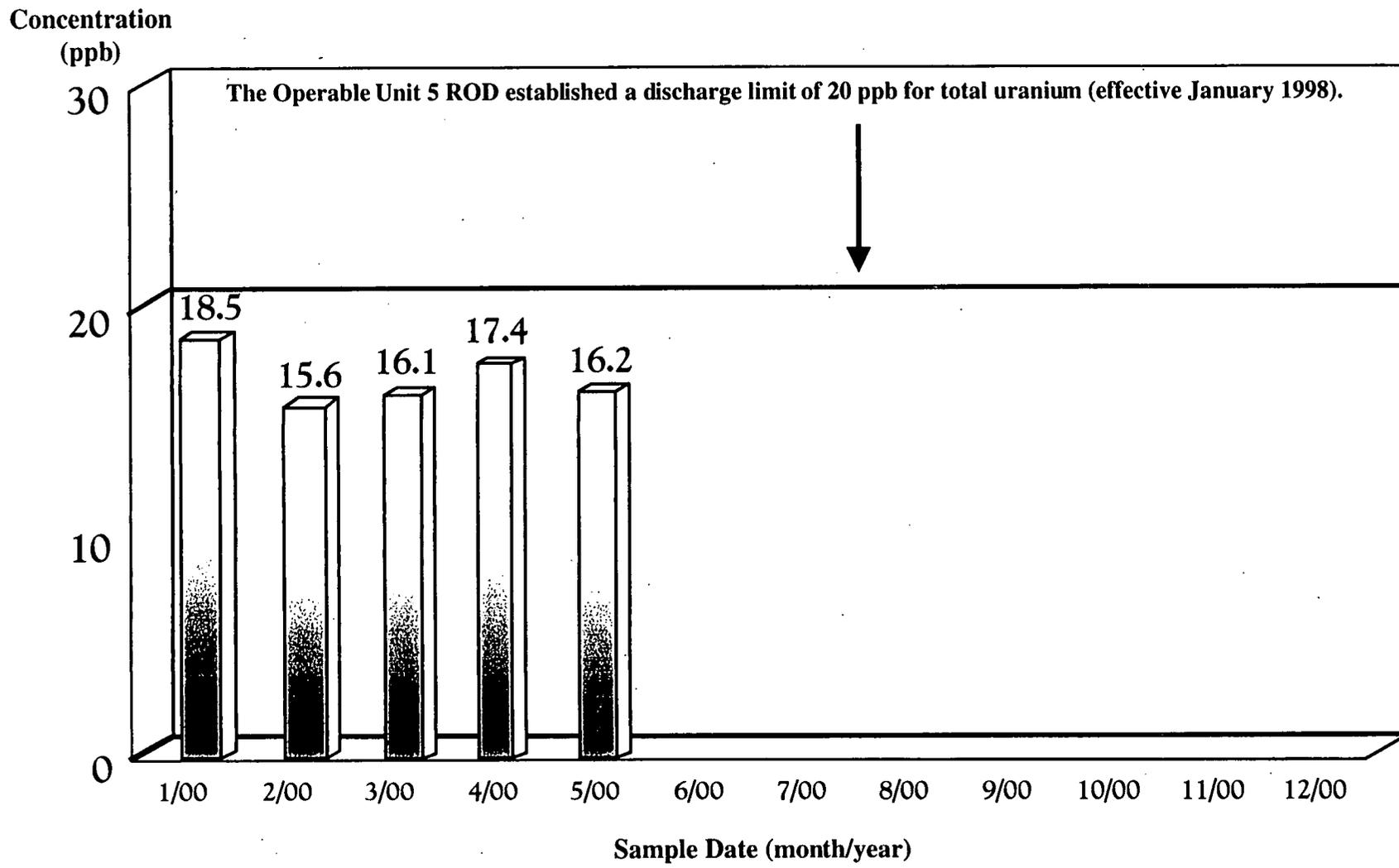
CROSS-SECTION C-C', SAMPLING RESULTS



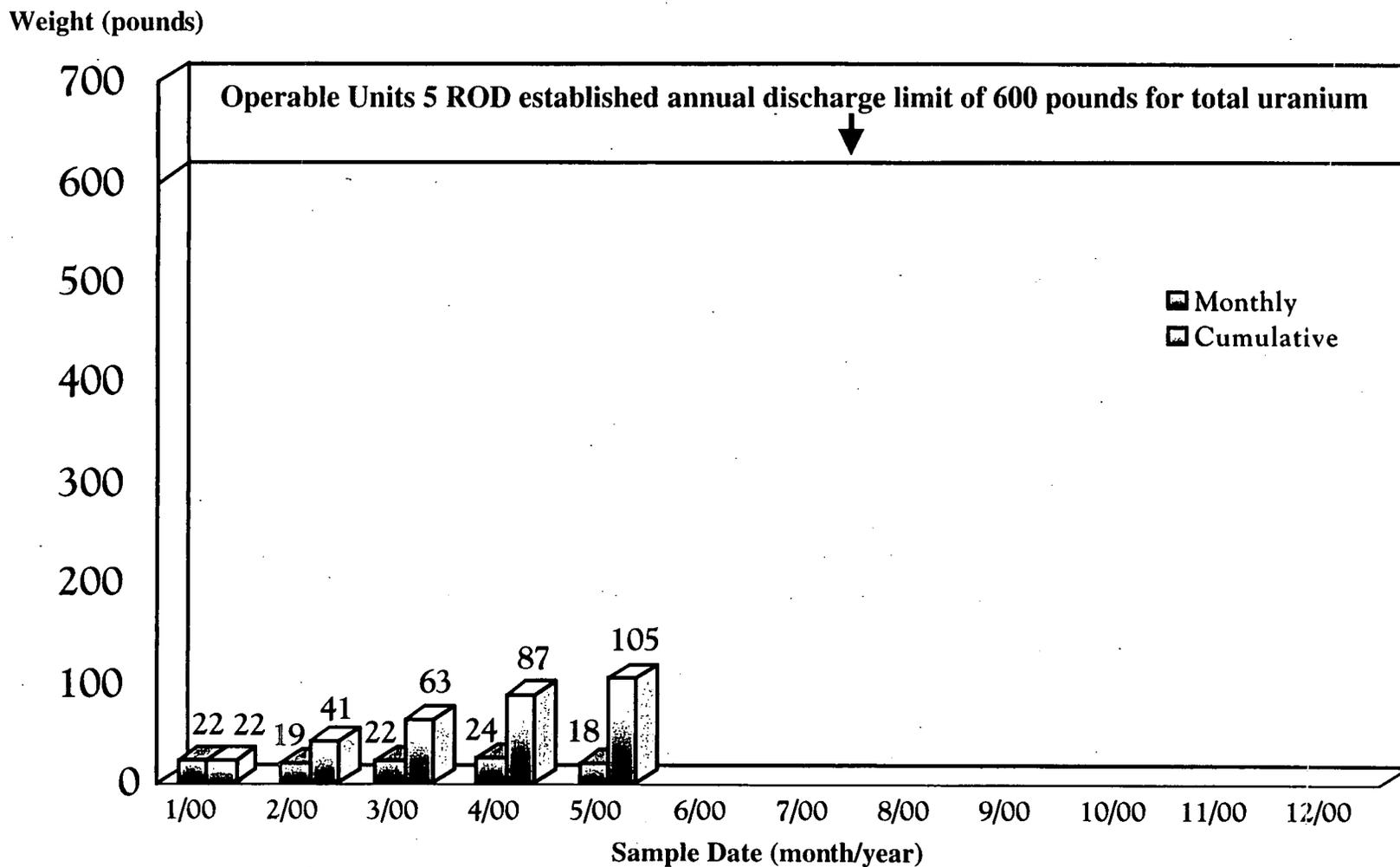
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AVERAGE MONTHLY TOTAL URANIUM CONCENTRATION DISCHARGED TO THE GREAT MIAMI RIVER IN 2000



POUNDS OF URANIUM DISCHARGED TO THE GREAT MIAMI RIVER IN 2000



Note: Sum of monthly discharges may not always agree with cumulative total because of rounding differences.

PROJECT NEWS

SOIL CHARACTERIZATION & EXCAVATION PROJECT

- Area 1, Phase II Certification
 - Submitted Summary Certification Report to EPA, May 5
 - Severson Environmental treated lead contamination in Trap Range, May 22
 - Final Area 1, Phase II Certification Report, completing certification work for the eastern corridor of Fernald

- Area 2, Phase I Excavation
 - Continue excavation/hauling from Southfield and Soil Pile 3
 - Completion is anticipated by the end of July
 - Excavated and hauled 70,000 cubic yards this construction season

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PROJECT NEWS

SOIL CHARACTERIZATION & EXCAVATION PROJECT

- Area 2, Phase III Excavation and Certification
 - Completed excavation of radium “hot spot,” May 16
 - Collected certification samples
 - Area 2, Phase III Certification Completion represents another 70 acres of Fernald ready for final land use decisions

- Area 8, Phase II Natural Resource Restoration Work
 - Completed construction of wetlands, ponds and drainage ditches
 - Planted 1317 trees
 - Completed spring project activities
 - Planning for fall planting activities

PROJECT NEWS

SOIL CHARACTERIZATION & EXCAVATION PROJECT

- Ongoing Certification Work
 - Area 1, Phase III
 - Area 8, Phase III (South)
- Other work
 - Submitted Areas 3A/4A IRDP to EPA
 - Excavated soil piles 2 and 4
 - Area 9, Phase I Pre-Design Investigation
 - Area 2, Phase II Pre-Design Investigation

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SOUTHERN WASTE UNITS

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Photo taken April 2000

NATURAL RESOURCE RESTORATION



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Photo taken May 2000

Graphics # 6416.6E 6/00 Photo # 7321-D49

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PROJECT NEWS

WASTE GENERATOR SERVICES

- Thoria gel shipments to Nevada Test Site
- Shipment of nuclear materials to Portsmouth, Ohio
 - Shipped 1,424.9 metric tons uranium
- Upcoming Request for Proposal for Truck-Rail-Truck Shipment to Nevada Test Site

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THORIA GEL SHIPMENT



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Photo taken May 2000

PREPARATION OF NUCLEAR MATERIALS

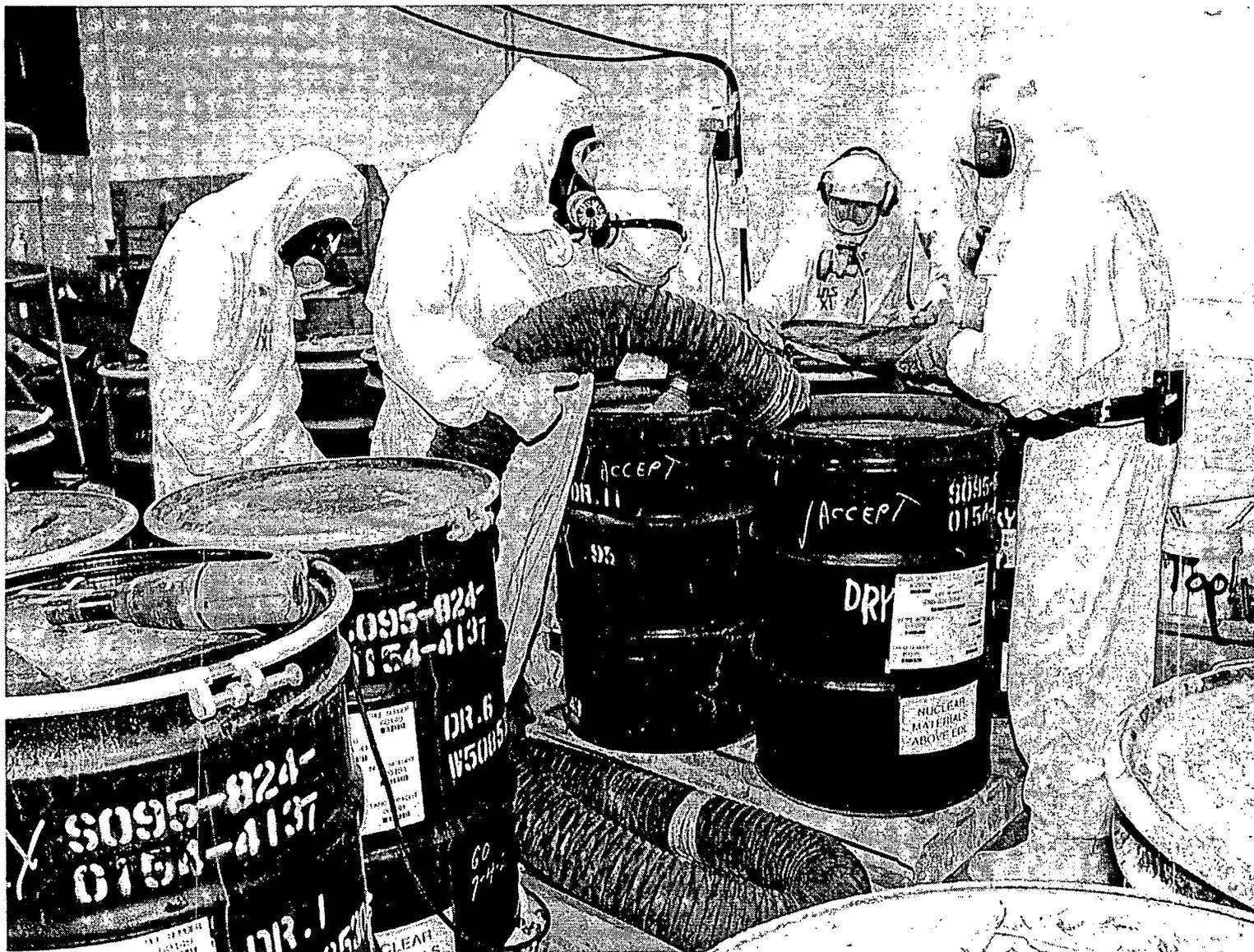


Photo taken May 2000

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