FERNALD CLEANUP PROGRESS BRIEFING
JANUARY 2000

6:30 p.m. Opening Remarks	Gary Stegner
6:35 p.m. Project Updates	
Waste Pits Remedial Action Project	Dave Lojek
Soil & On-Site Disposal Facility Projects	Rob Janke
Decontamination & Dismantlement	John Trygier
Silos Project	Dave Yockman
Aquifer Restoration/Wastewater Project	Dennis Carr
Waste Management	Carlos Tellez

Question and Answer Session

8:30 p.m. Adjourn

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Graphics # 6161.0A 1/00

PROJECT NEWS
WASTE PITS REMEDIAL ACTION PROJECT

- Transported 16 trains to Envirocare
- Currently excavating Waste Pits 3 and 5
- Initiated thermal drying operations

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Graphics # 6161.1A 1/00

WASTE PIT 5 EXCAVATION

Photo taken December 1999

Gr # 6161.1B 1/00 Photo # 6944-d988

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WASTE PIT 5 EXCAVATION

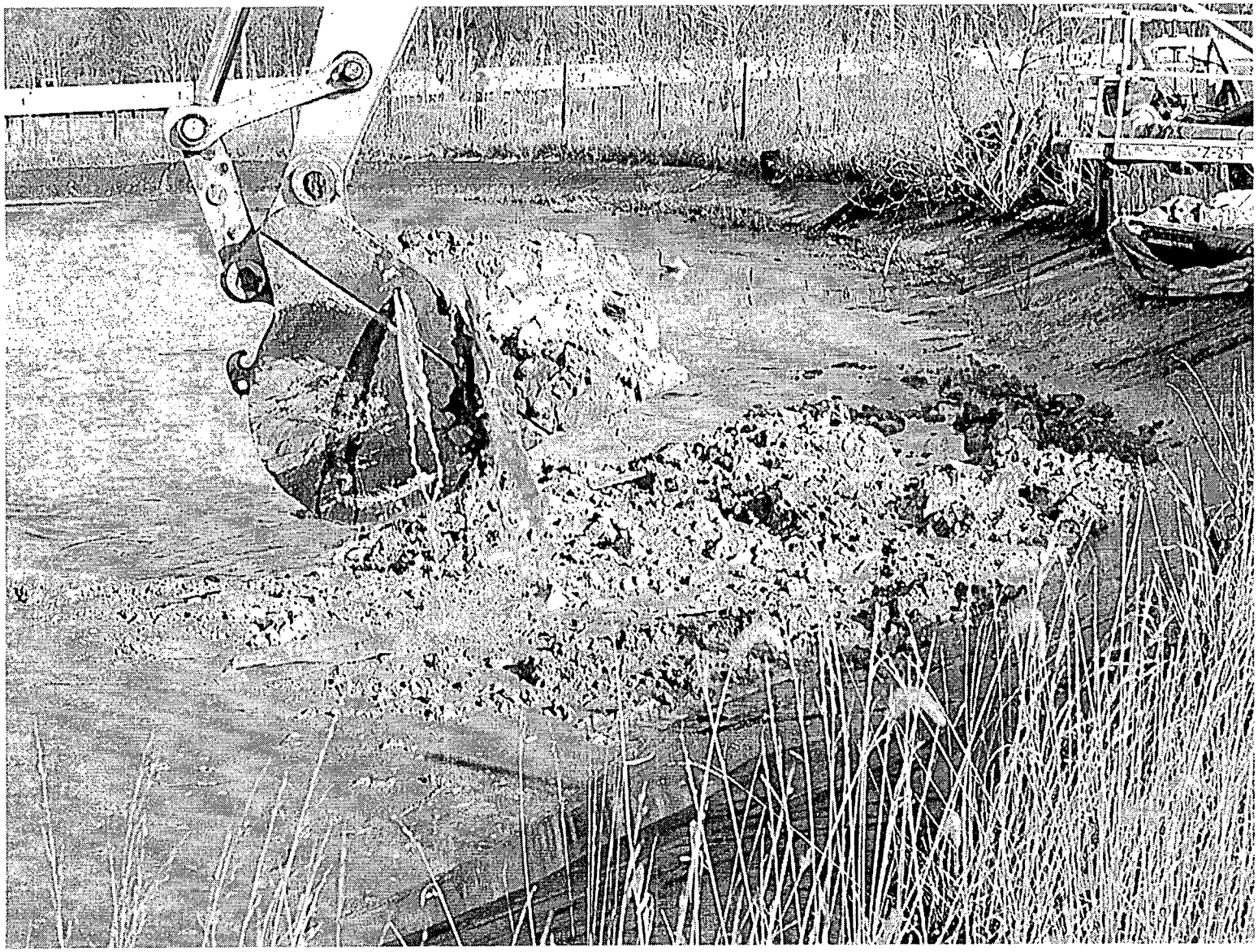

Photo taken December 1999

Graphics # 6161.1C 1/00 Photo # 6944-d992

WASTE PIT 3 EXCAVATION

Photo taken January 2000

Gra # 6161.1D 1/00 Photo #6944-D1006

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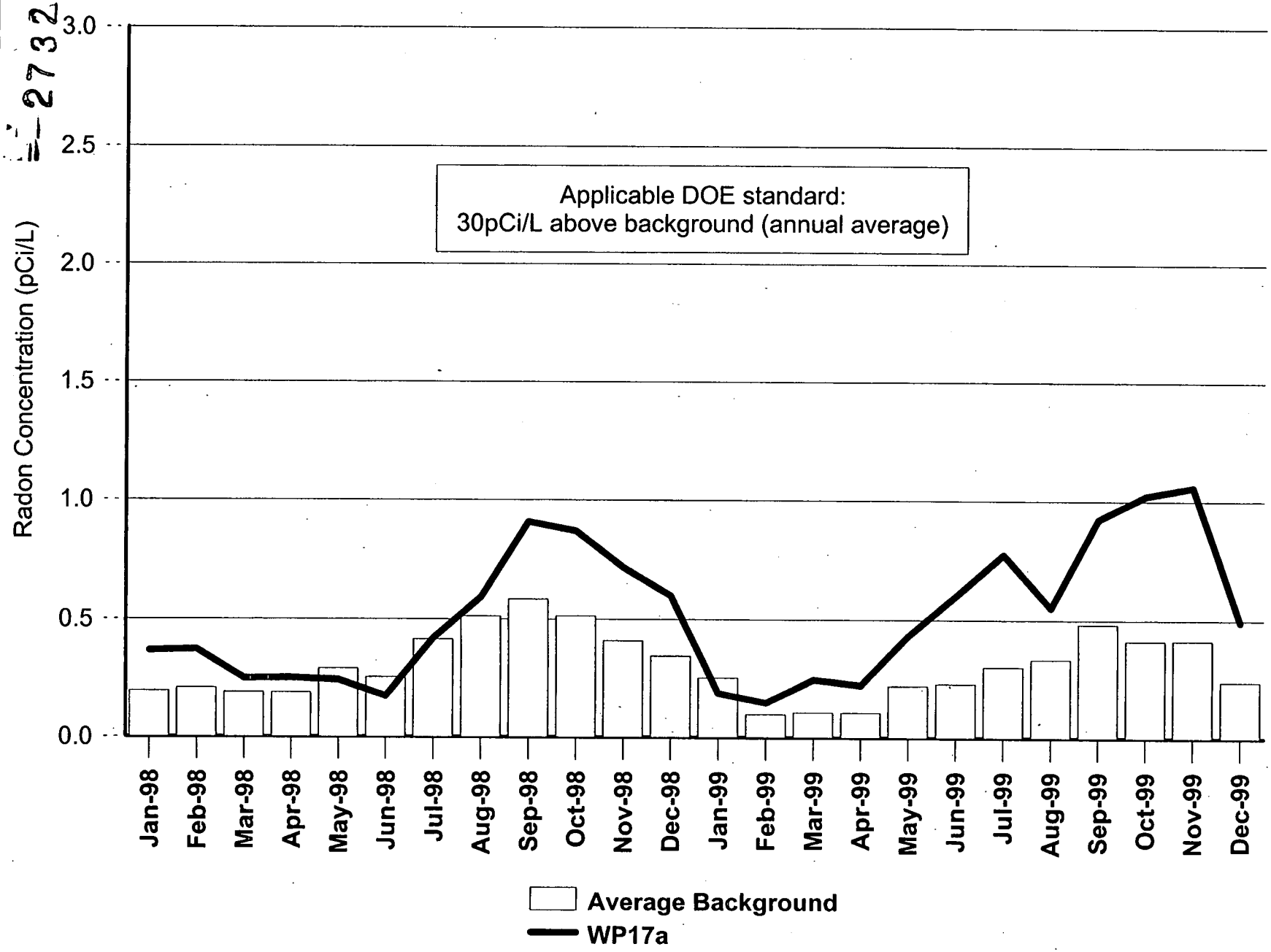
Waste Pit 17a Radon Concentrations



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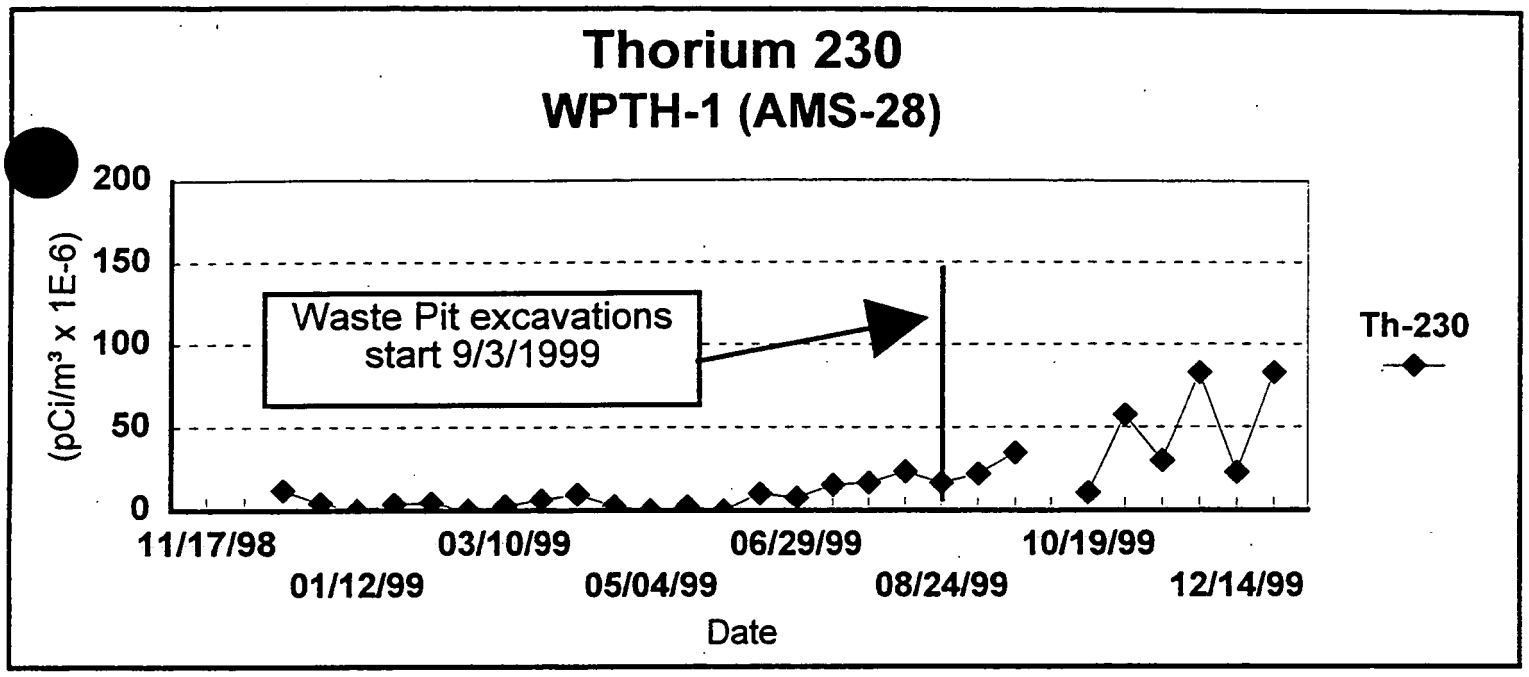
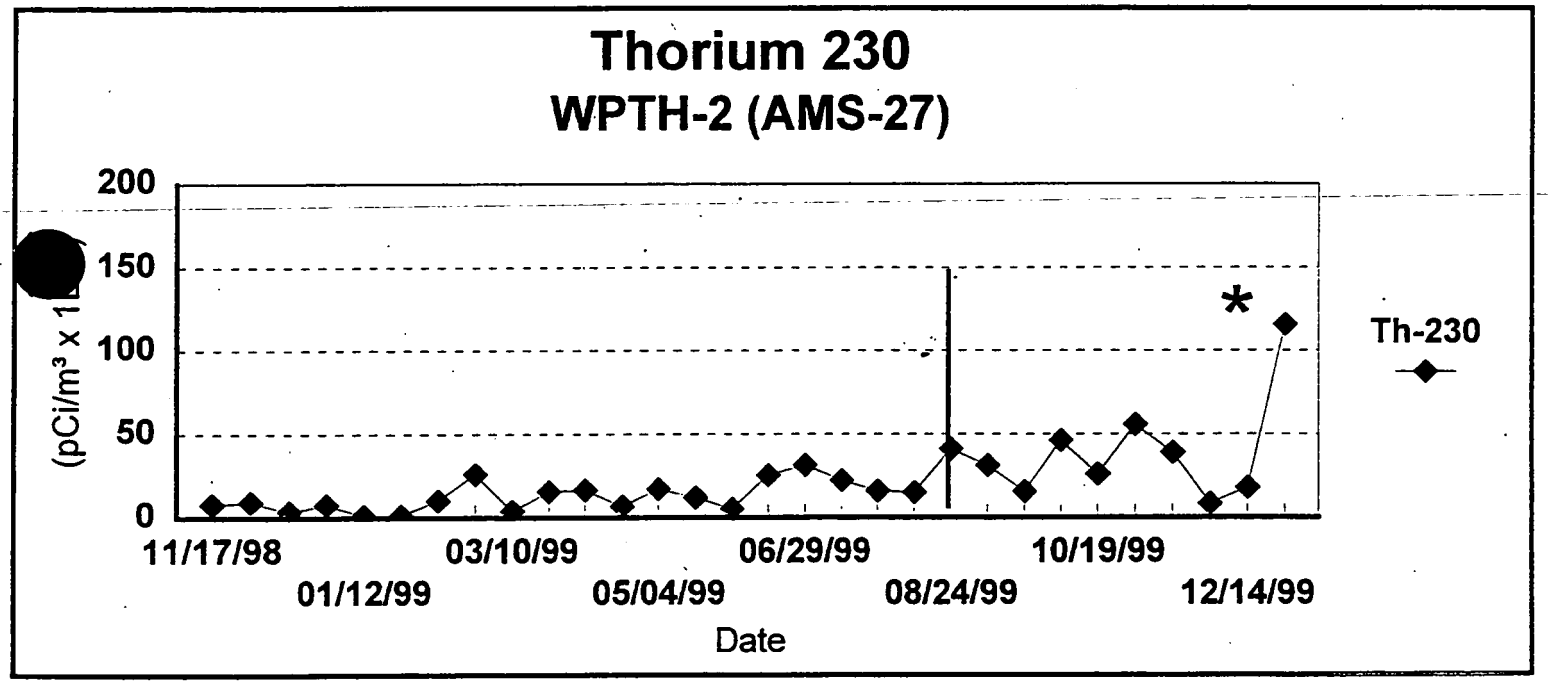
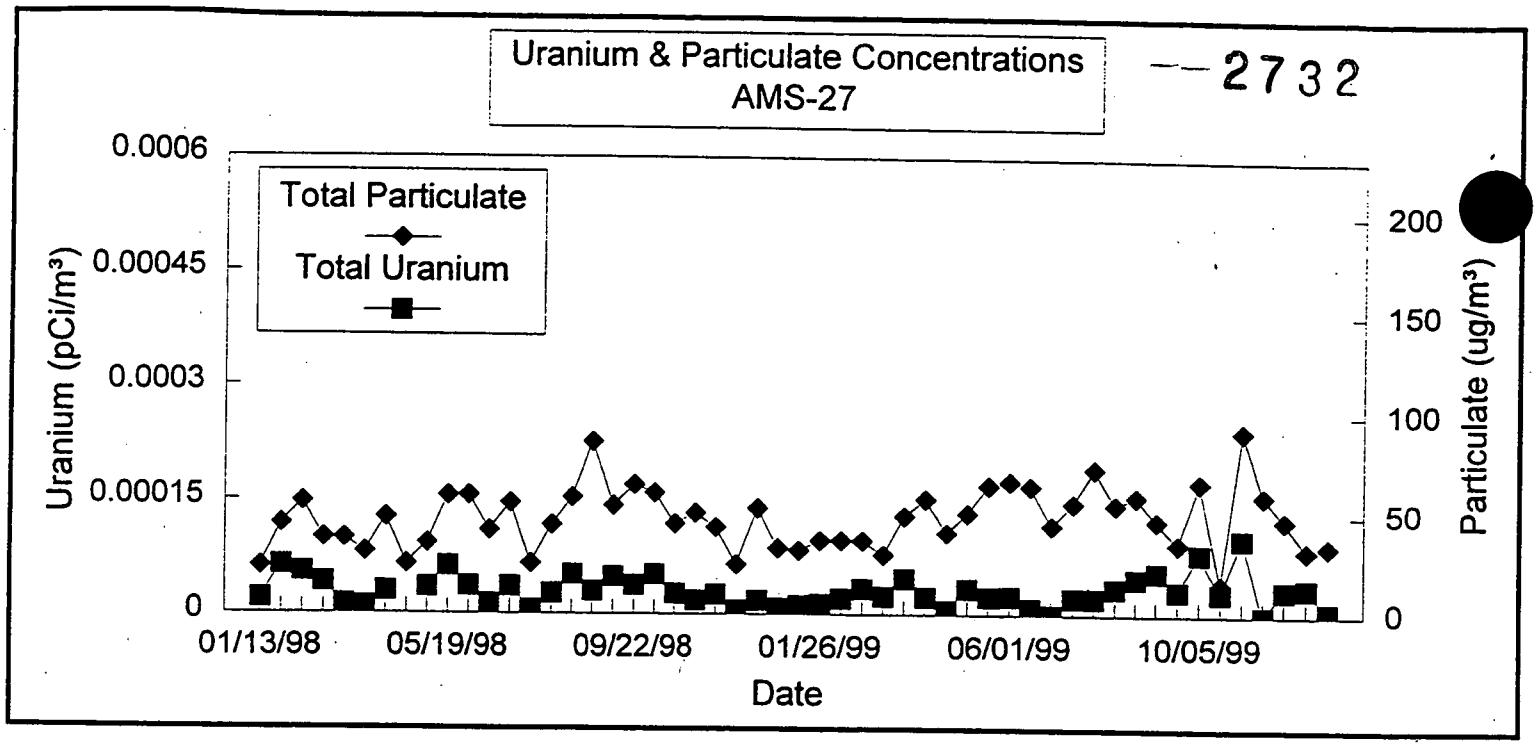
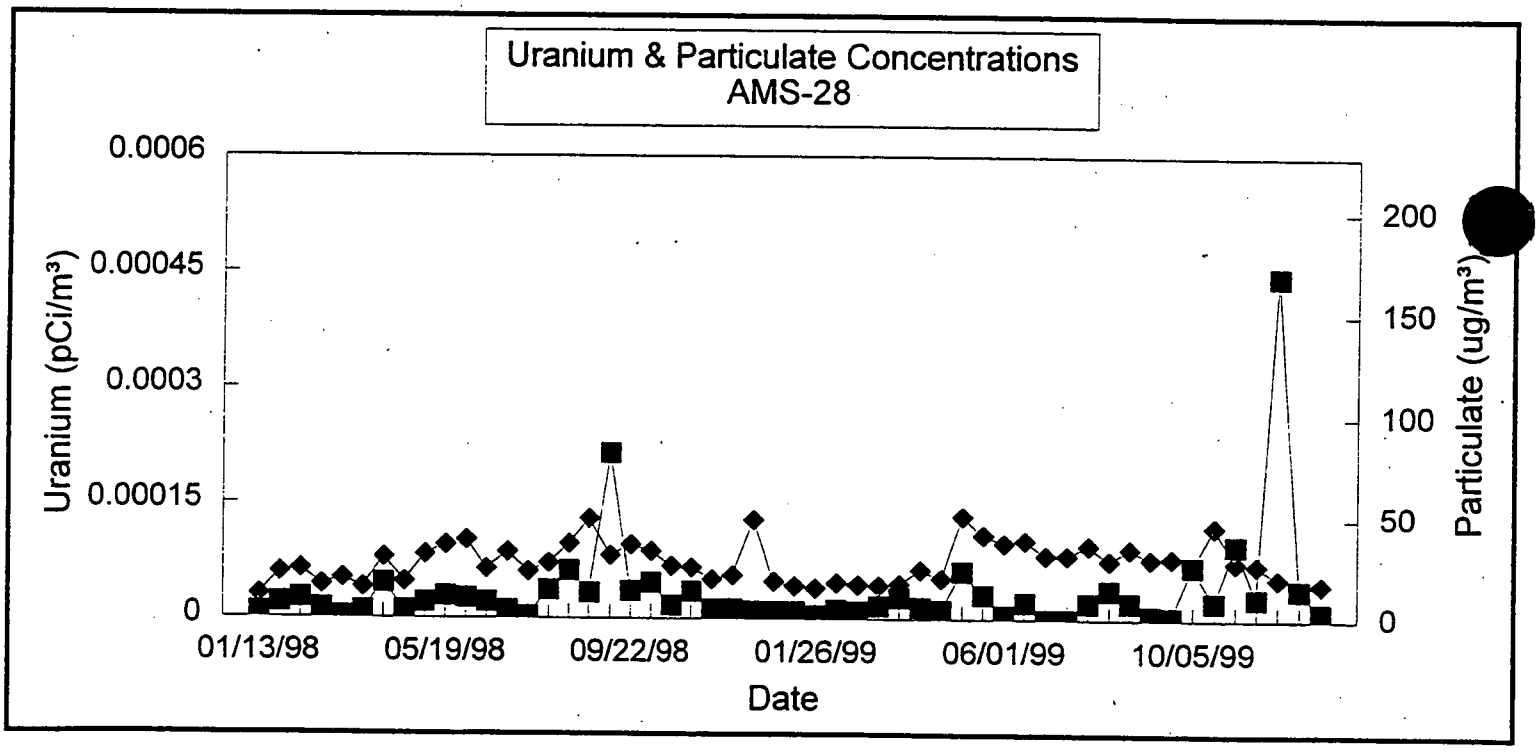




* Inhalation of this concentration for entire 4th quarter, plus year-to-date maximum values for remaining radionuclides would yield 0.27 mrem/year.





01/11/00 10:14:55 AM Air99.123

PROJECT NEWS
SOIL & ON-SITE DISPOSAL FACILITY PROJECTS

- On-Site Disposal Facility
- Borrow Area
- Southern Waste Units
- Sewage Treatment Plant
- Wetland Mitigation Project

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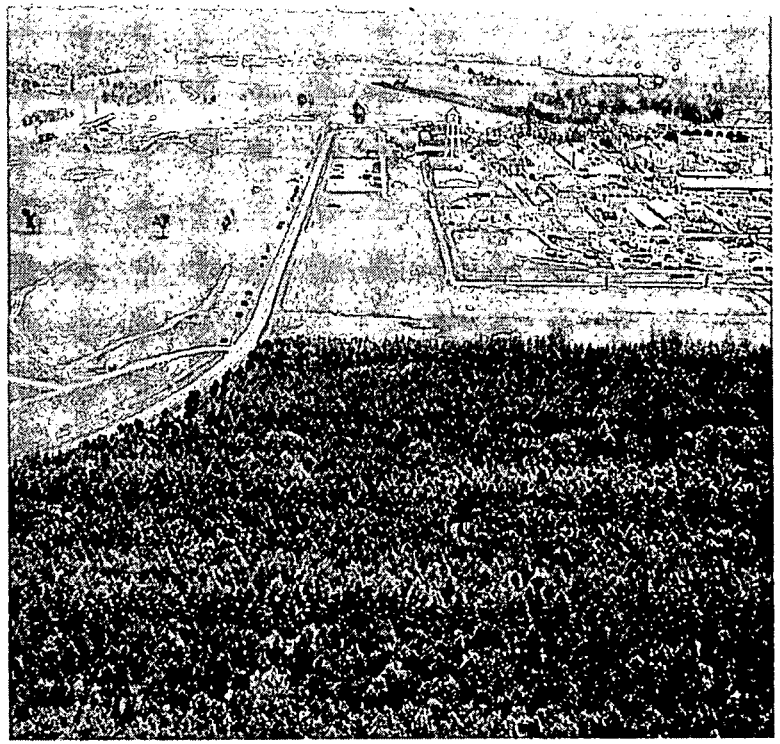
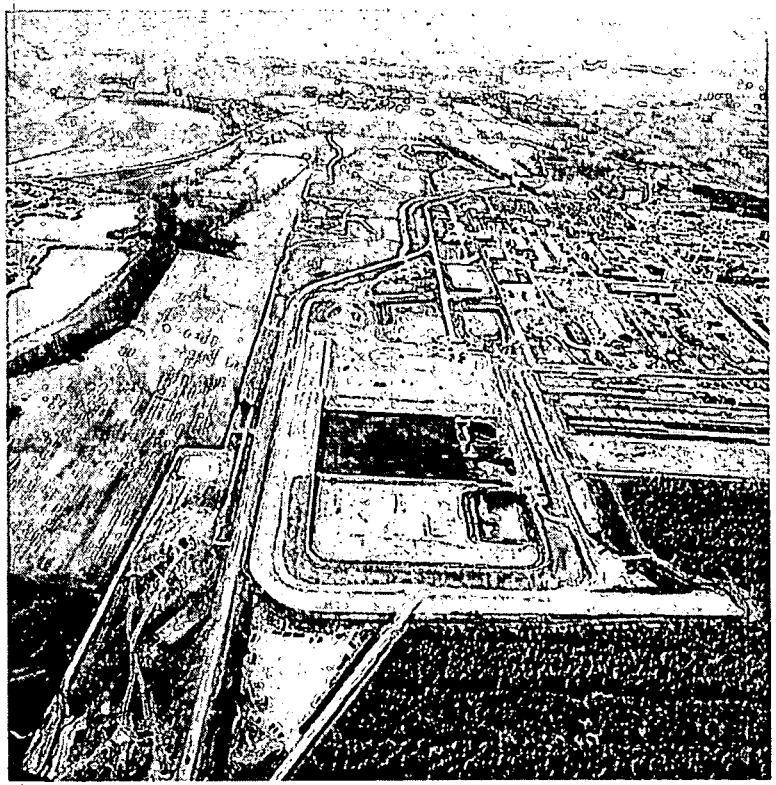
Graphics # 6161.2A 1/00

ON-SITE DISPOSAL FACILITY



June 1996



April 1999

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Gr # 6161.2B 1/00 Photo #s 6150-41 & 7101-46

PROJECT NEWS
SOIL & ON-SITE DISPOSAL FACILITY PROJECTS

- Cells 1, 2 and 3:
  - 1999 waste placement completed Dec. 9, 1999
  - 227,536 in place cubic yards - June – December 1999
    438,788 in place cubic yards since December 1997
  - Cell 1 = 80 percent filled
  - Cell 2 = 45 percent filled
  - Cell 3 = 10 percent filled
- Enhanced Permanent Leachate System design
- OSDF Phase III design package and procurement
- Sampling Lime Sludge Ponds

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Graphics # 6161.2C 1/00

ON-SITE DISPOSAL FACILITY - CELL 3

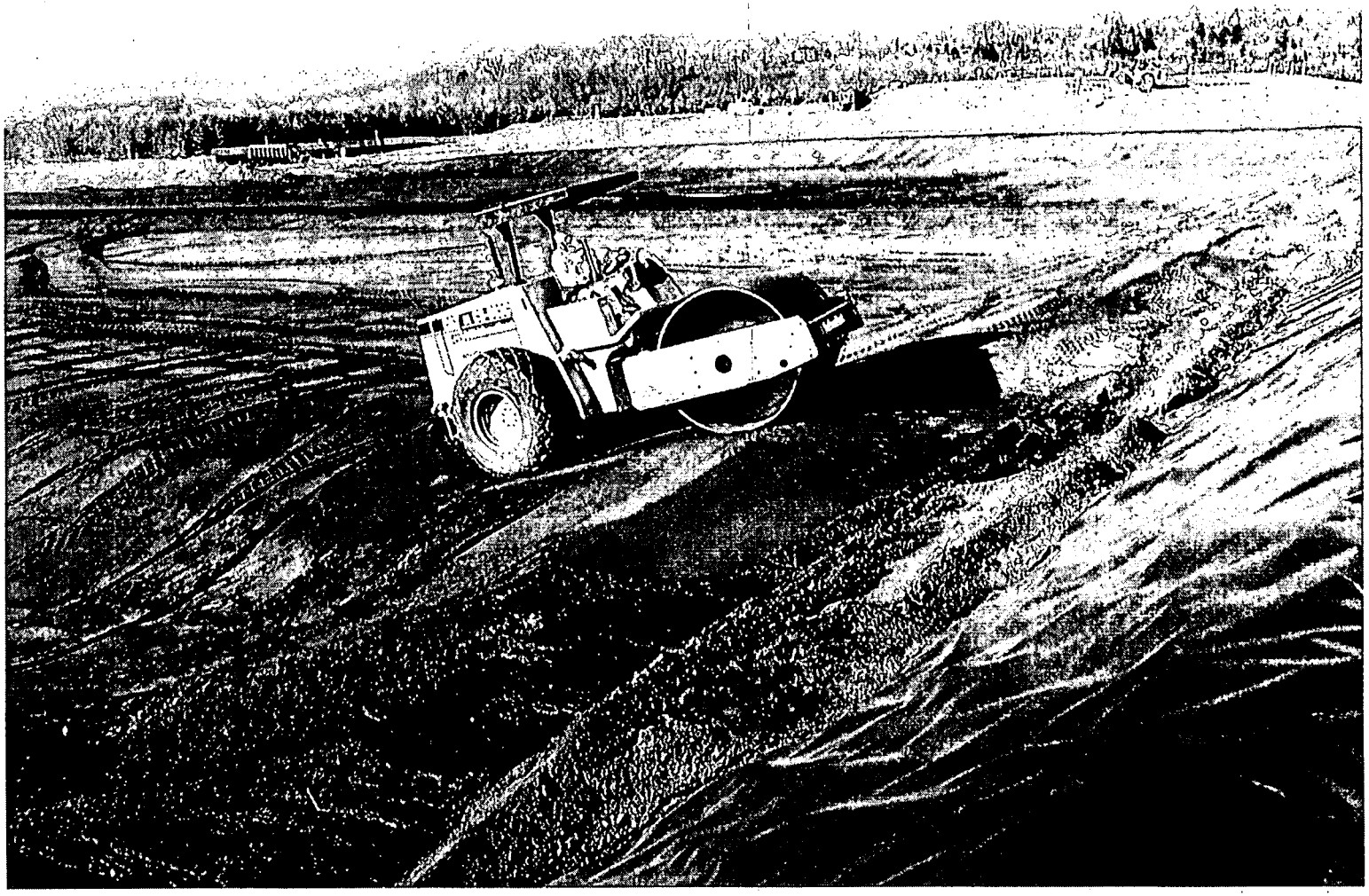

Photo taken November 1999

Gra # 6161.2D 1/00 Photo # 6319-D2262

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ON-SITE DISPOSAL FACILITY - CELL 3

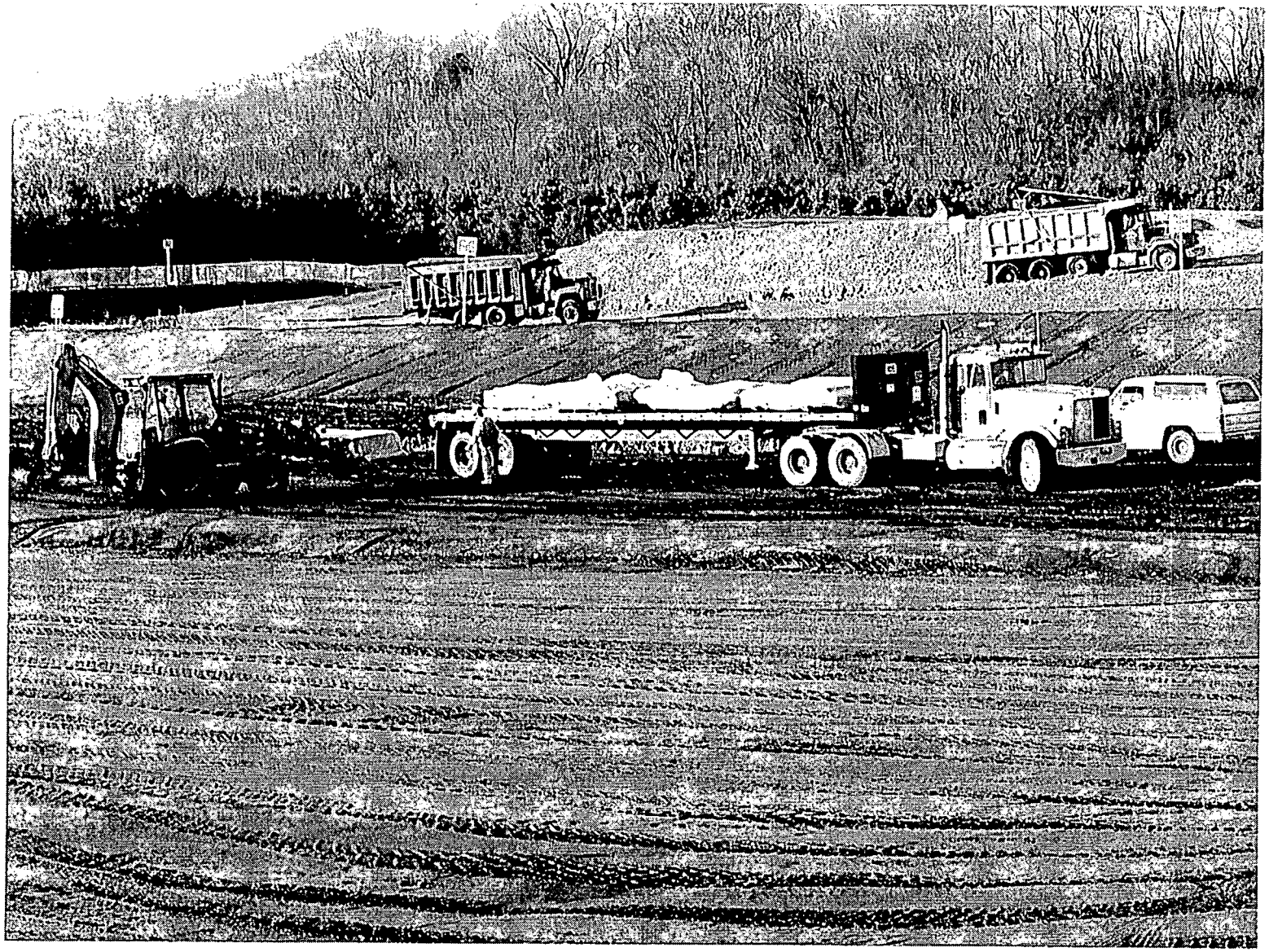

Photo taken December 1999

Graphics # 6161.2E 1/00 Photo # 6319-D2272

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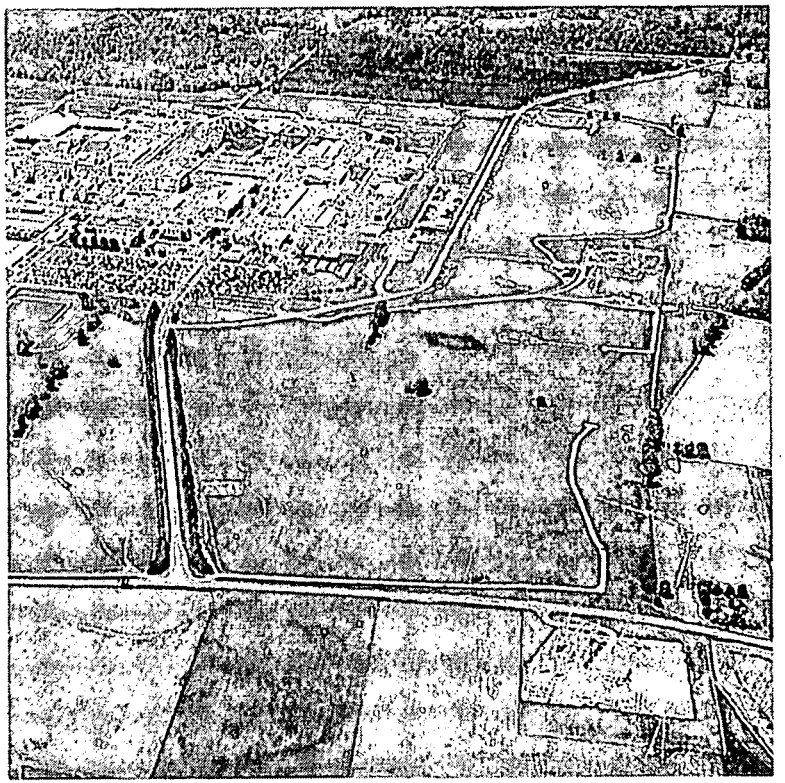
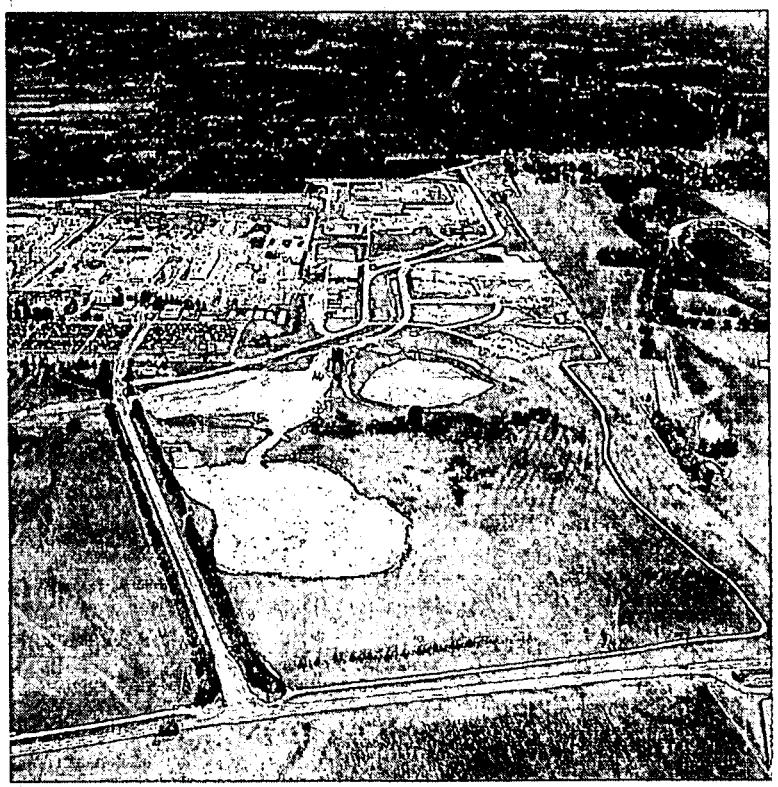
ON-SITE DISPOSAL FACILITY
BORROW AREA



June 1996



August 1999

Gr[illegible] # 6161.2F 1/00 Photo #s 6385-59 & 7213-209

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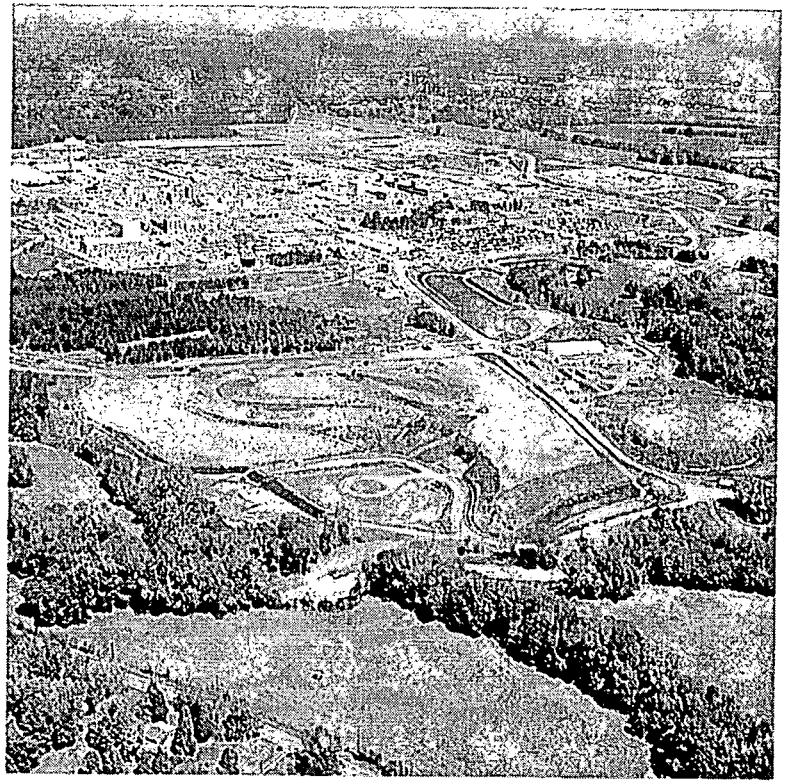
SOUTHERN WASTE UNITS

August 1995



August 1999

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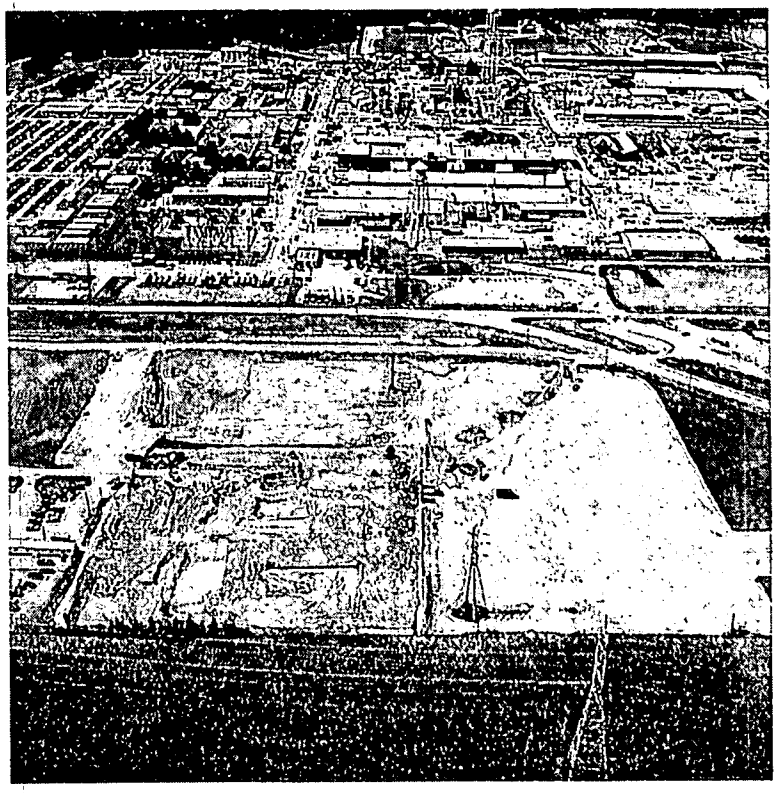
Graphics # 6161.2G 1/00 Photo #s 6197-48 & 7213-61

SEWAGE TREATMENT PLANT

September 1988



August 1999

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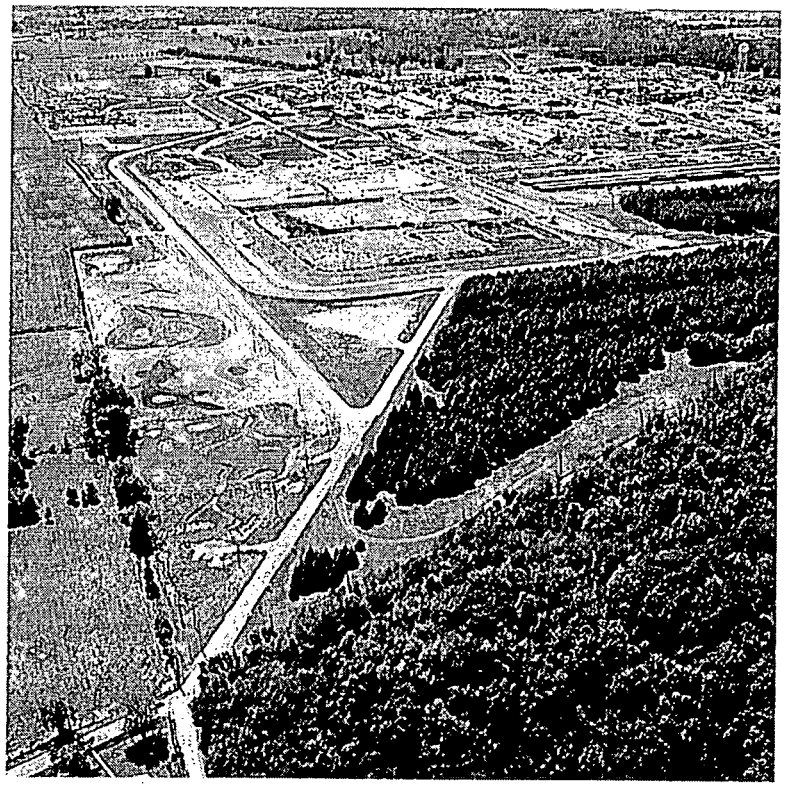
Gr[illegible] # 6161.2H 1/00 Photo #s 4122-33 & 7213-59

WETLAND MITIGATION PROJECT

August 1995



August 1999

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Graphics # 6161.2I 1/00 Photo #s 6197-31 & 7213-54

PROJECT NEWS
DECONTAMINATION & DISMANTLEMENT

- Plant 5
  - Completed gross building washdown of Building 5A
  - Conducting asbestos abatement in Building 5A
  - Completed removal of interior transite in Building 55A
- Plant 6
  - Issued mobilization notification to NSC Energy Services

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PROJECT NEWS
SILOS PROJECT

Silos 1 & 2 Feasibility Study
Project Status

- Finalized Draft Revised Feasibility Study/Proposed Plan (FS/PP), incorporating initial comments from
  - Independent reviewers
  - U.S. EPA and Ohio EPA
  - Fernald Citizens Advisory Board (FCAB)
  - Nevada Test Site Community Advisory Board (NTS CAB)
  - Other public stakeholders
- Received *Preliminary Statement on Silos 1 and 2 Technology Selection* from FCAB
- Submitted Draft Revised FS/PP to regulators on Dec. 21, 1999

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Graphics # 6161.4A 1/00

PROJECT NEWS
SILOS PROJECT

Silos 1 & 2 Feasibility Study
Upcoming Activities

- Receive additional input from NTS CAB by mid January 2000
- Receive formal recommendation from FCAB on Silos 1 and 2 technology selection following NTS CAB input
- Receive and begin incorporating regulator comments
- Initiate formal public comment period after regulator approval

Gra # 6161.4B 1/00

PROJECT NEWS
SILOS PROJECT

Silos 1& 2 Accelerated Waste Retrieval Project Status/Upcoming Activities

- Completed review/approval of Foster Wheeler's preliminary design on Dec. 3, 1999
- Continuing review of safety analysis documentation; approval expected in early 2000
- Initiated final design activities
- Submitted Draft Remedial Design Package to regulators on Dec. 29, 1999, for review and approval
- Authorization to mobilize and begin site preparation activities anticipated by spring 2000

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PROJECT NEWS
SILOS PROJECT

Silo 3
Project Status/Upcoming Activities

- Continuing design development
- Submit safety basis documentation for DOE approval in February 2000
- Submit site preparation portion of Remedial Design Package to regulators by spring 2000
- Authorization to mobilize and begin site preparation activities anticipated by fall 2000

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PROJECT NEWS
AQUIFER RESTORATION/ WASTEWATER PROJECT

- Continuing construction of two new extraction wells in South Field
  - Underground piping, well foundations and houses completed
  - Electrical instrumentation and well house interiors being installed
- Began pre-design profile sampling of aquifer contamination in Waste Storage Area
- Completed regeneration of lead ion exchange vessels for AWWT Expansion System (source of re-injection water)
- Quarterly Integrated Environmental Management Plan report available on internet at www.fernald.gov

Graphics # 6161.5A 1/00

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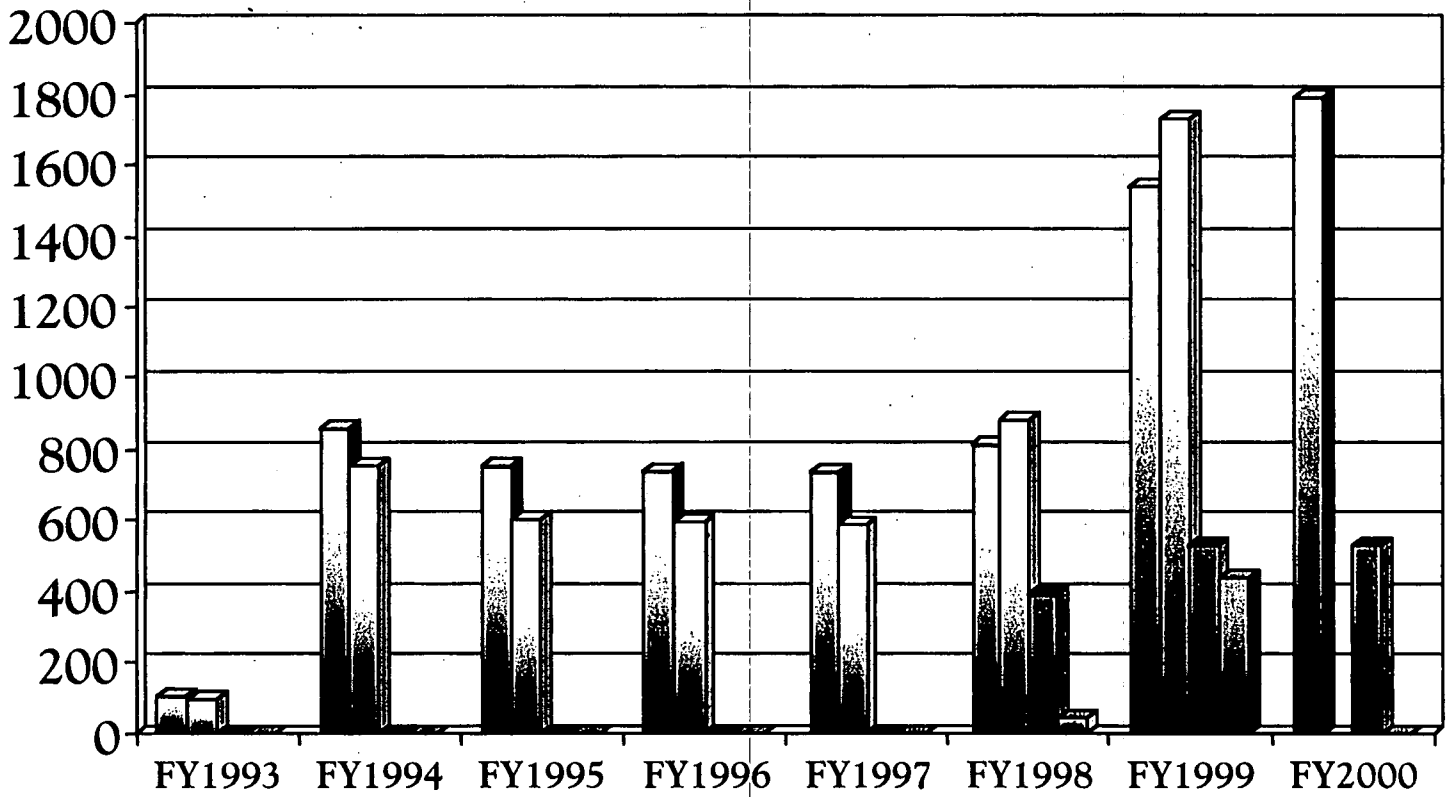
GROUNDWATER PUMPED FROM GREAT MIAMI AQUIFER



- Planned Total GW Pumped (Millions of Gallons - Mgal)
- Actual Total GW Pumped (Mgal)
- Planned Injected GW (Mgal)
- Actual Injected GW (Mgal)

Gr[illegible] # 6161.5B 1/00

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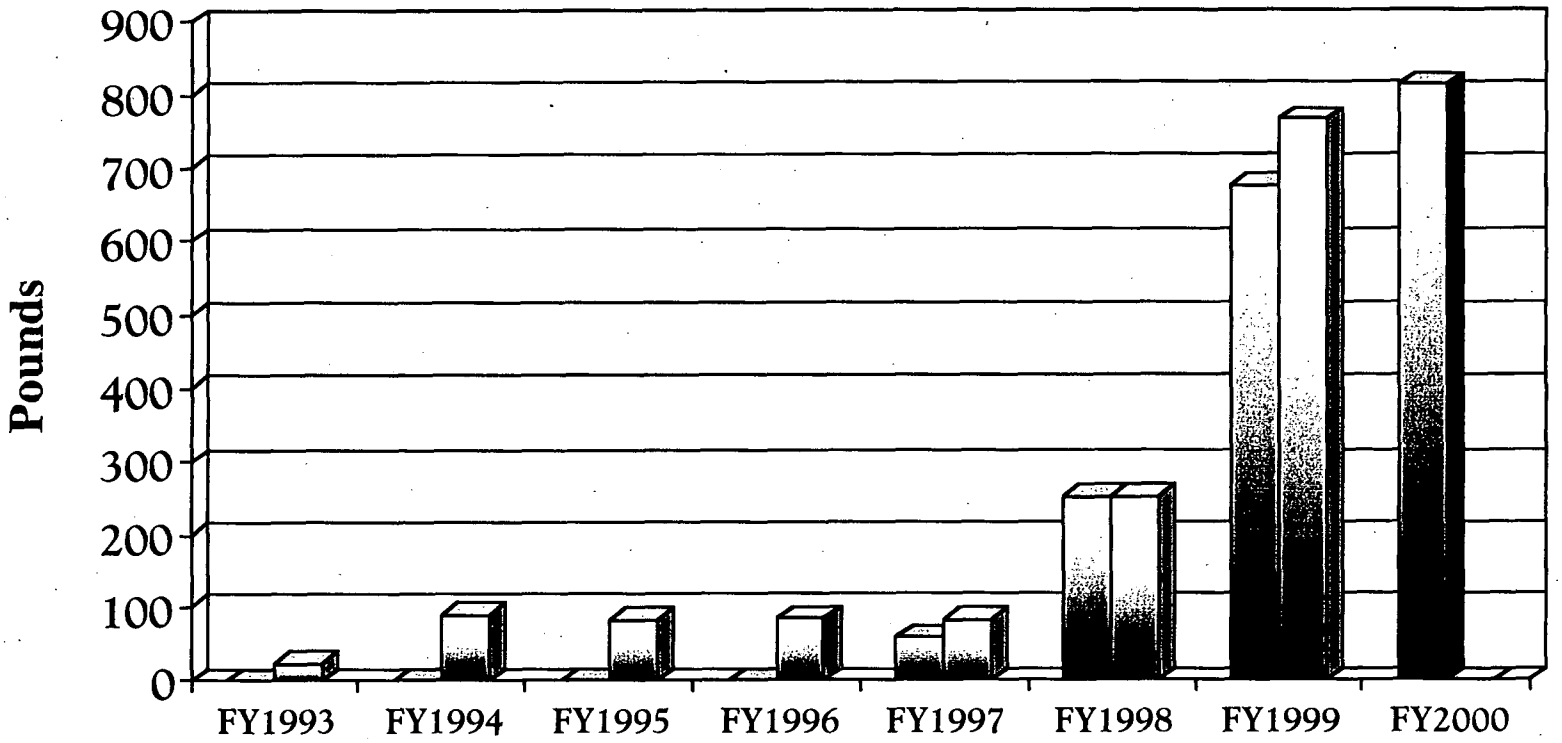
URANIUM EXTRACTED FROM GREAT MIAMI AQUIFER



Planned Total Uranium Extracted from GMA (lbs.)

Actual Total Extracted from GMA (lbs.)

Projected mass of uranium required to be removed to achieve aquifer cleanup is 5456 lbs.

Graphics # 6161.5C 1/00

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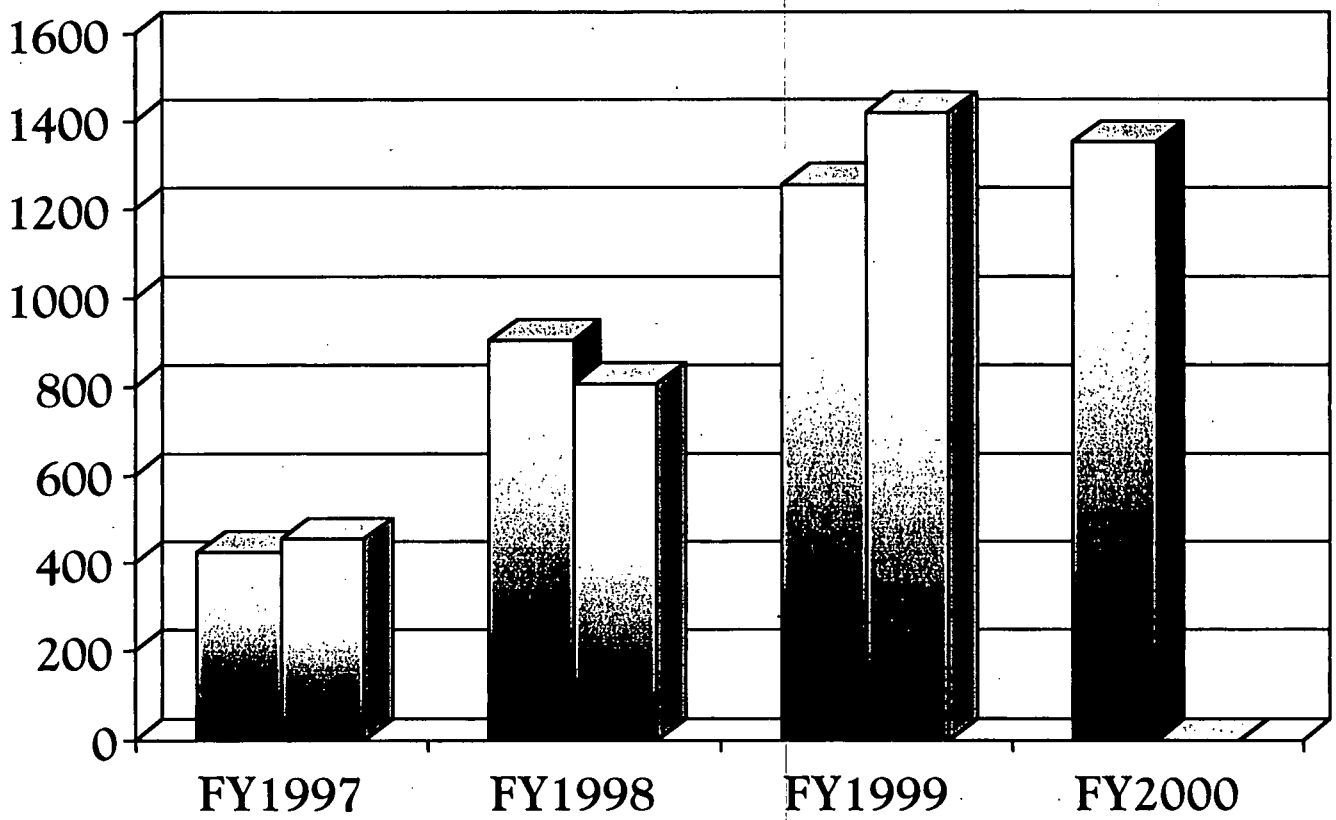
TREATED WATER



Planned (Millions of Gallons - Mgal)
Actual (Mgal)

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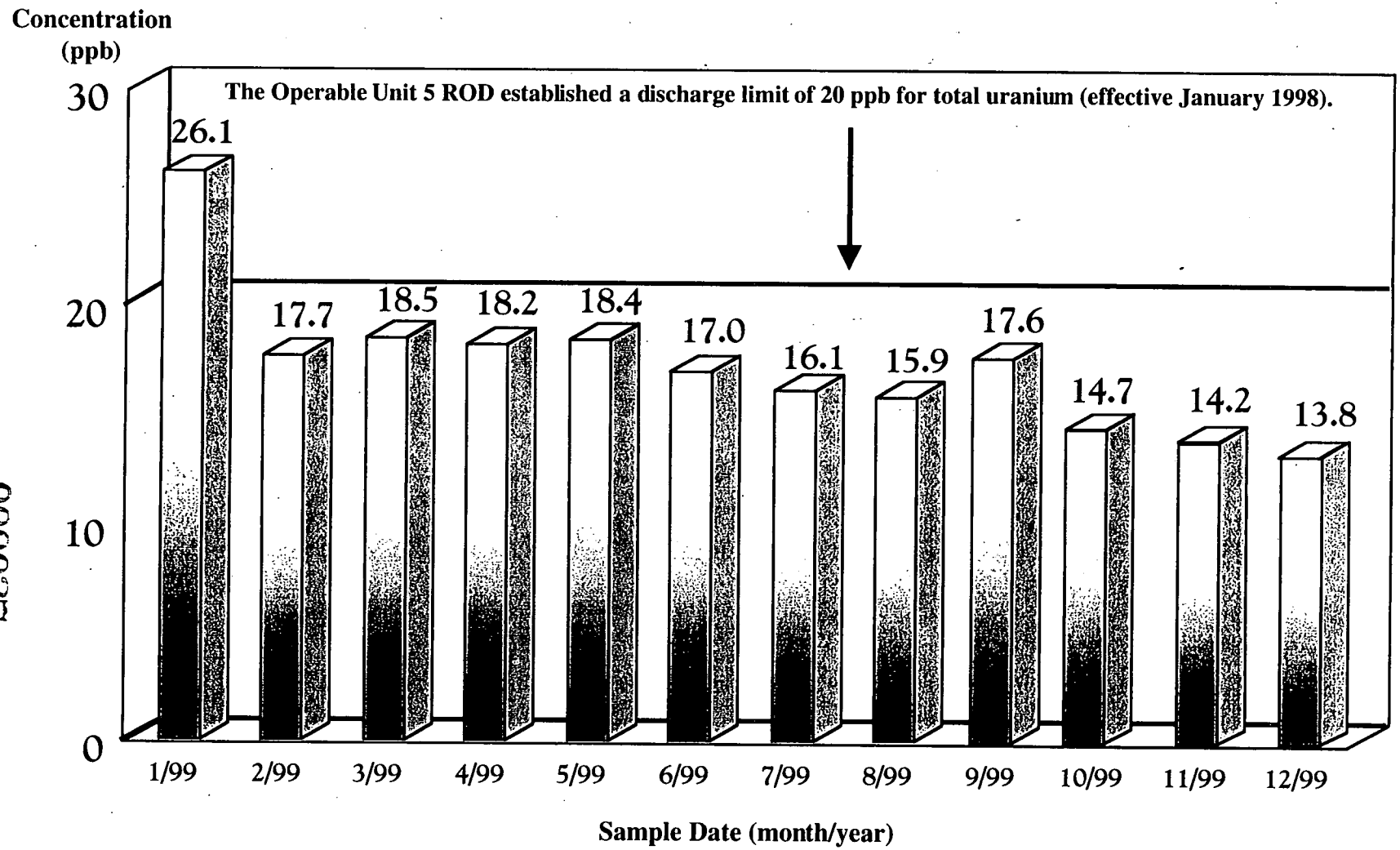
AVERAGE MONTHLY TOTAL URANIUM CONCENTRATION DISCHARGED TO THE GREAT MIAMI RIVER IN 1999



Graphics # 6161.5E 1/00

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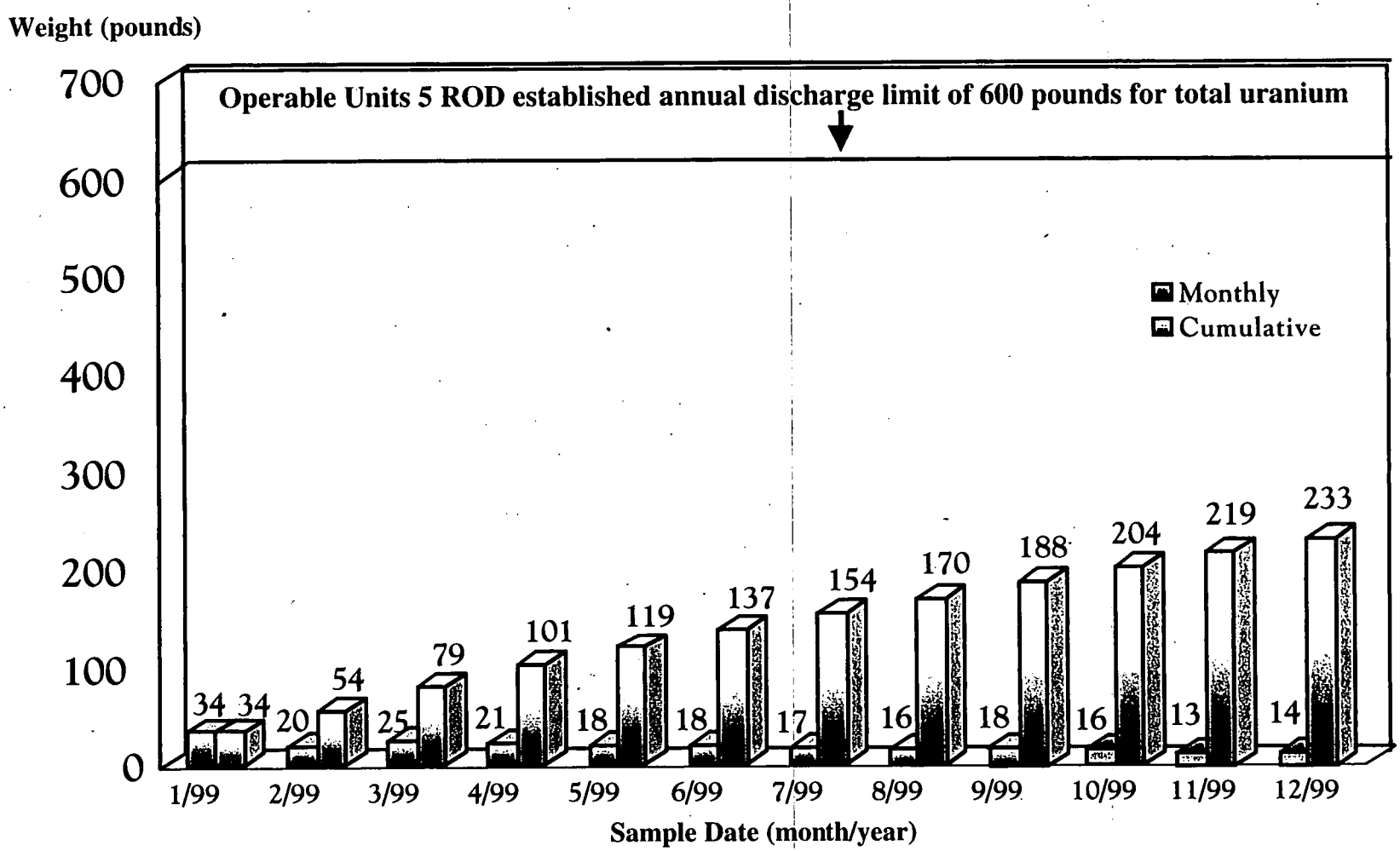
POUNDS OF URANIUM DISCHARGED TO THE GREAT MIAMI RIVER IN 1999



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

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BUILDING WELL HOUSE

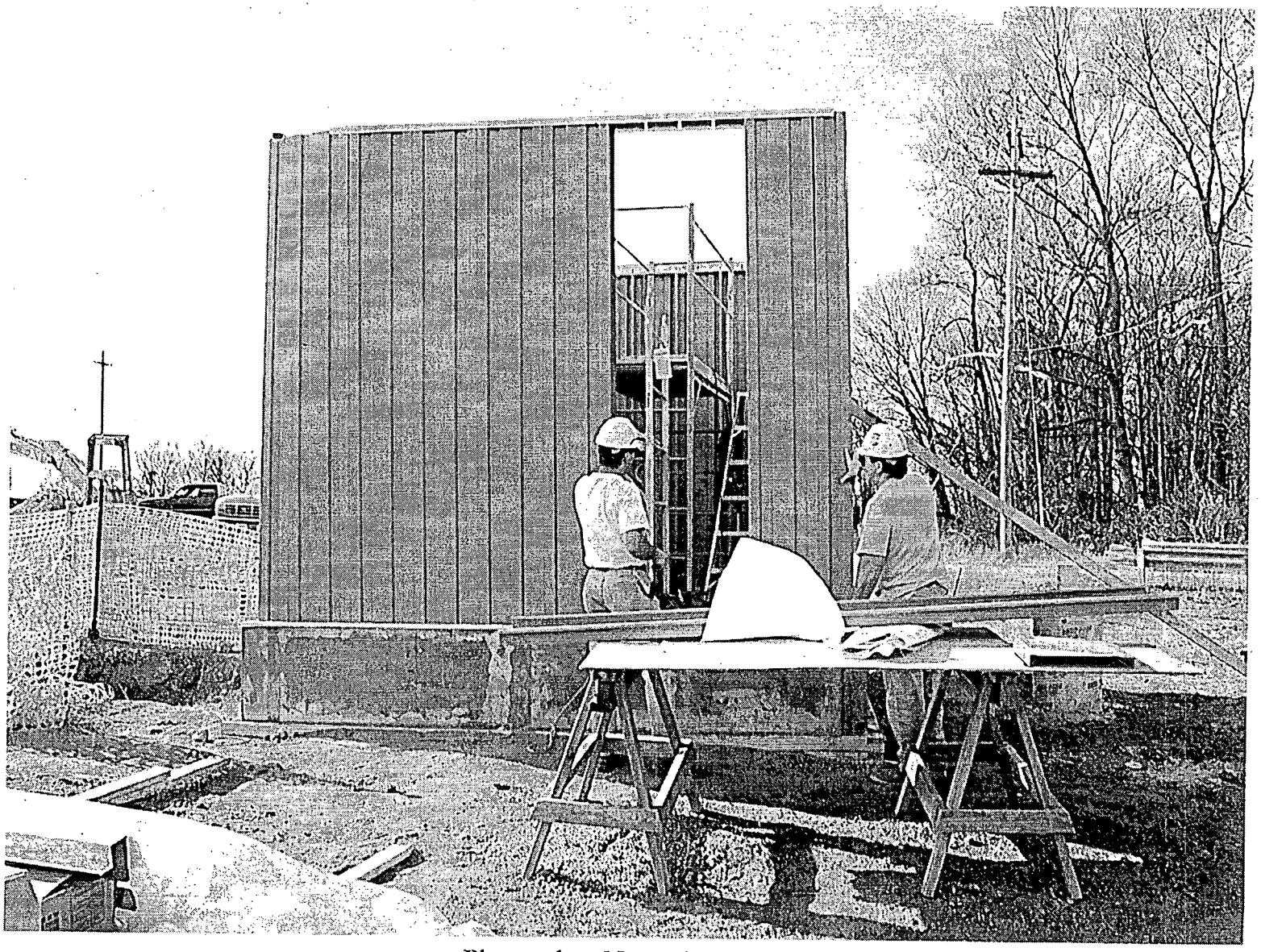

Photo taken November 1999

Graphics # 6161.5G 1/00 Photo # 7207-d65

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LAB EXPANSION

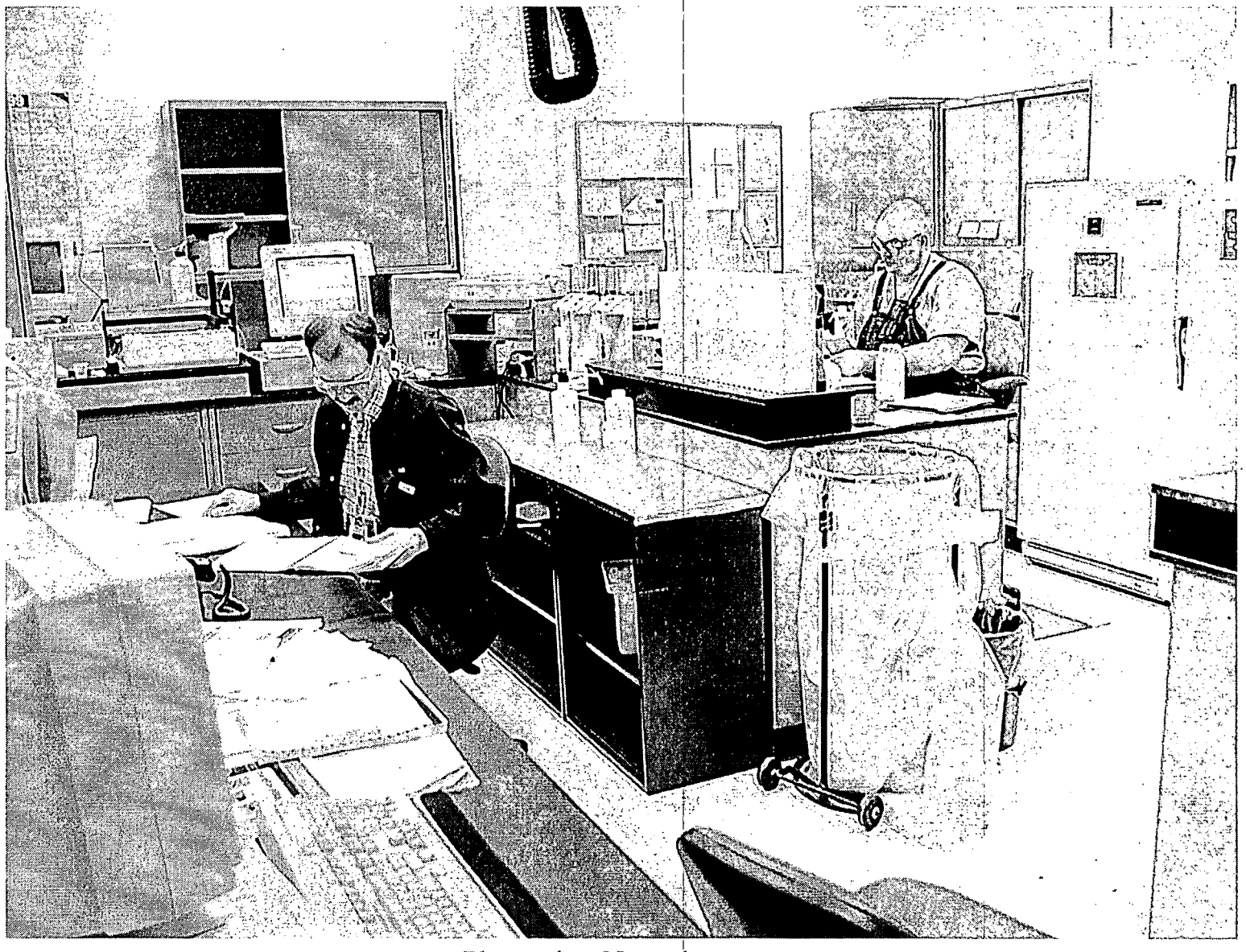

Photo taken November 1999

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PROJECT NEWS
WASTE MANAGEMENT

- Waste shipments to Nevada Test Site
- Nuclear material shipments to Portsmouth
- Uranium recycle initiative directed by DOE-HQ
- Liquid mixed waste shipments to TSCA Incinerator
- Transportation Web site available at www.fernald.gov

Graphics # 6161.7A 1/00

CORE REPACKAGING

Photo taken December 1999

Gra[illegible] # 6055.7B 1/00 Photo # 7269-D13

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CORE REPACKAGING

Photo taken December 1999

Graphics # 6055.7C 1/00 Photo # 7269-D22

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CORE REPACKAGING

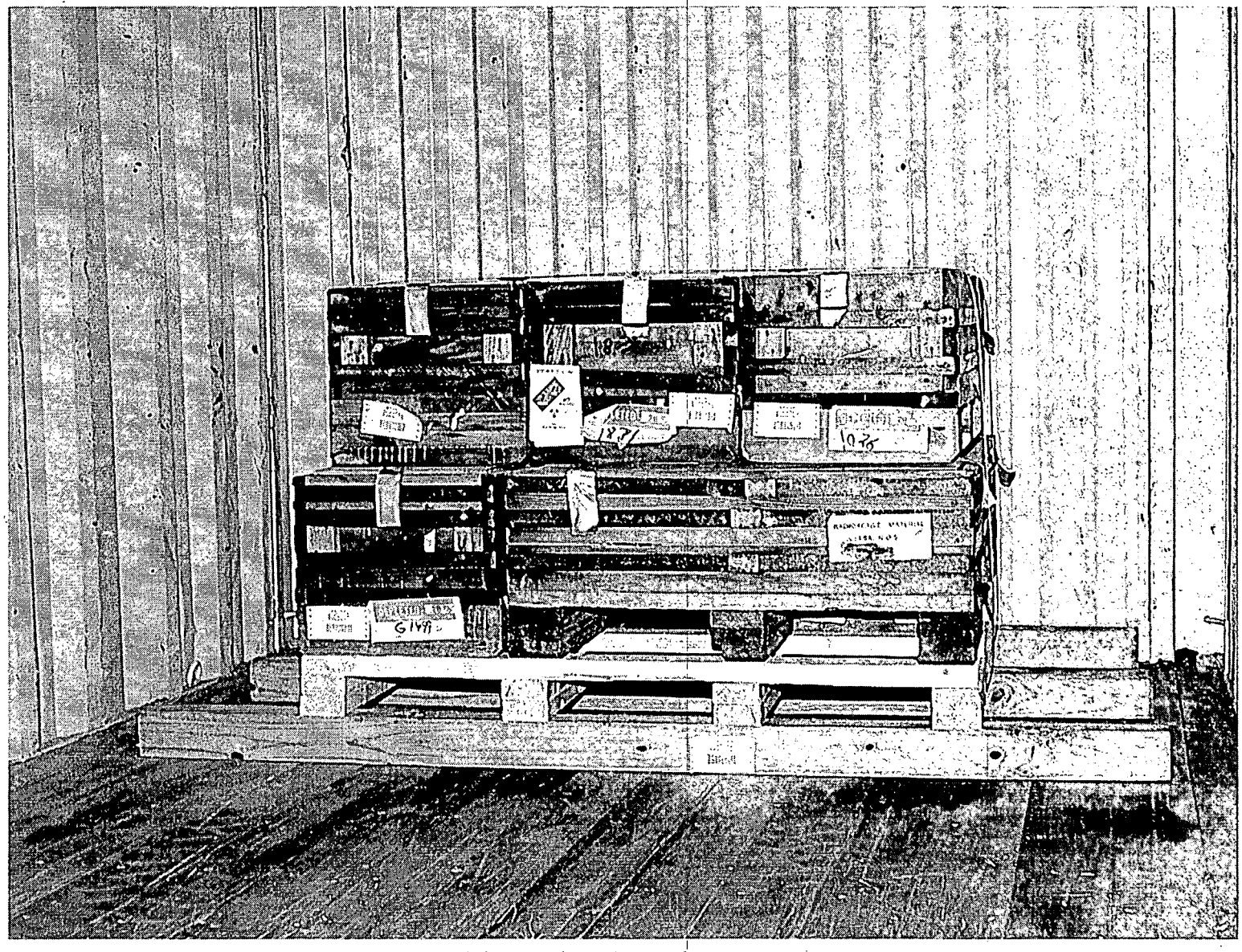

Photo taken December 1999

Gr[illegible] # 6055.7D 1/00 Photo # 7269-D12

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T-HOPPER SAMPLING

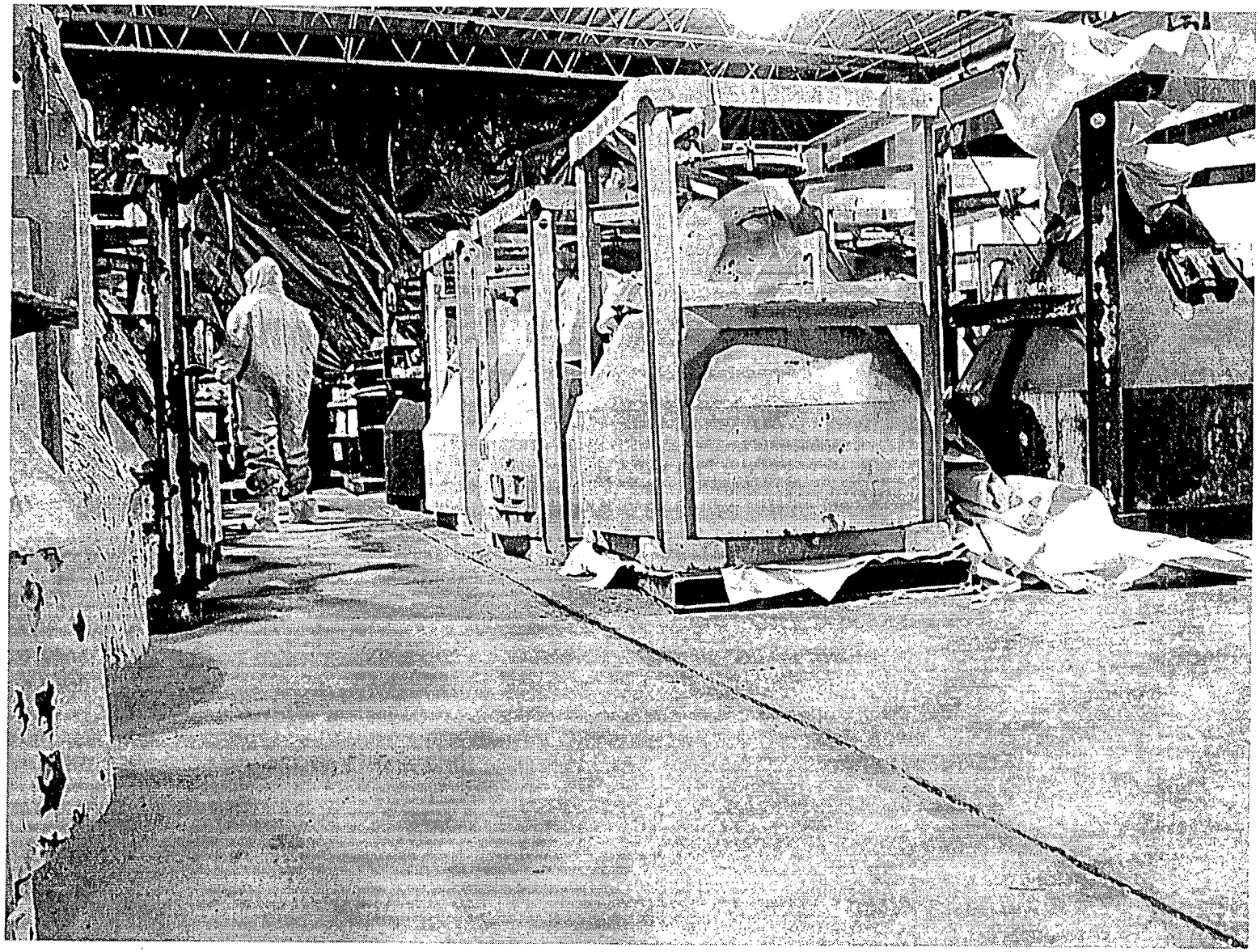

Photo taken November 1999

Graphics # 6055.7E 1/00 Photo # 7254-d01

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T-HOPPER SAMPLING

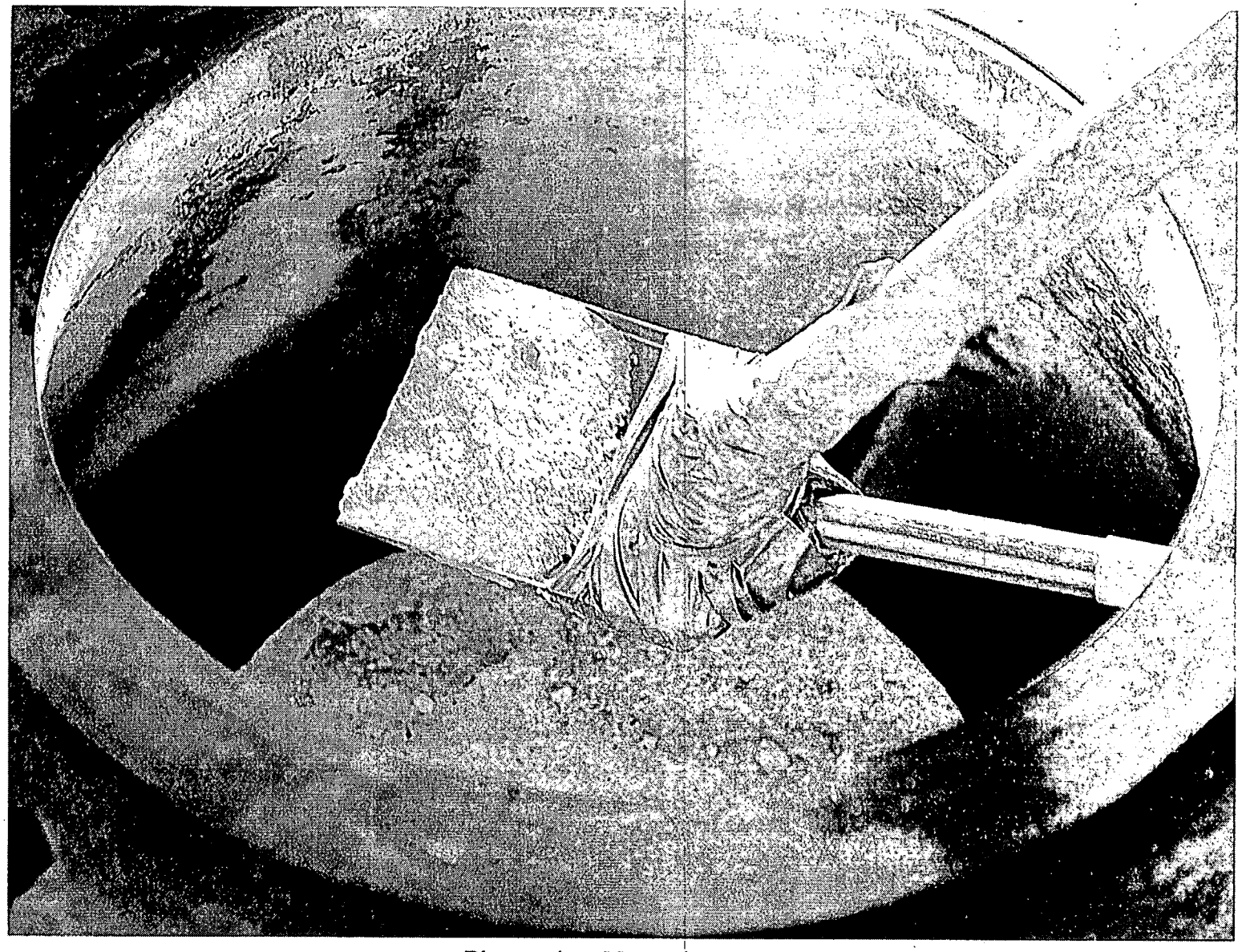

Photo taken November 1999

Gra # 6055.7F 1/00 Photo # 7254-d04

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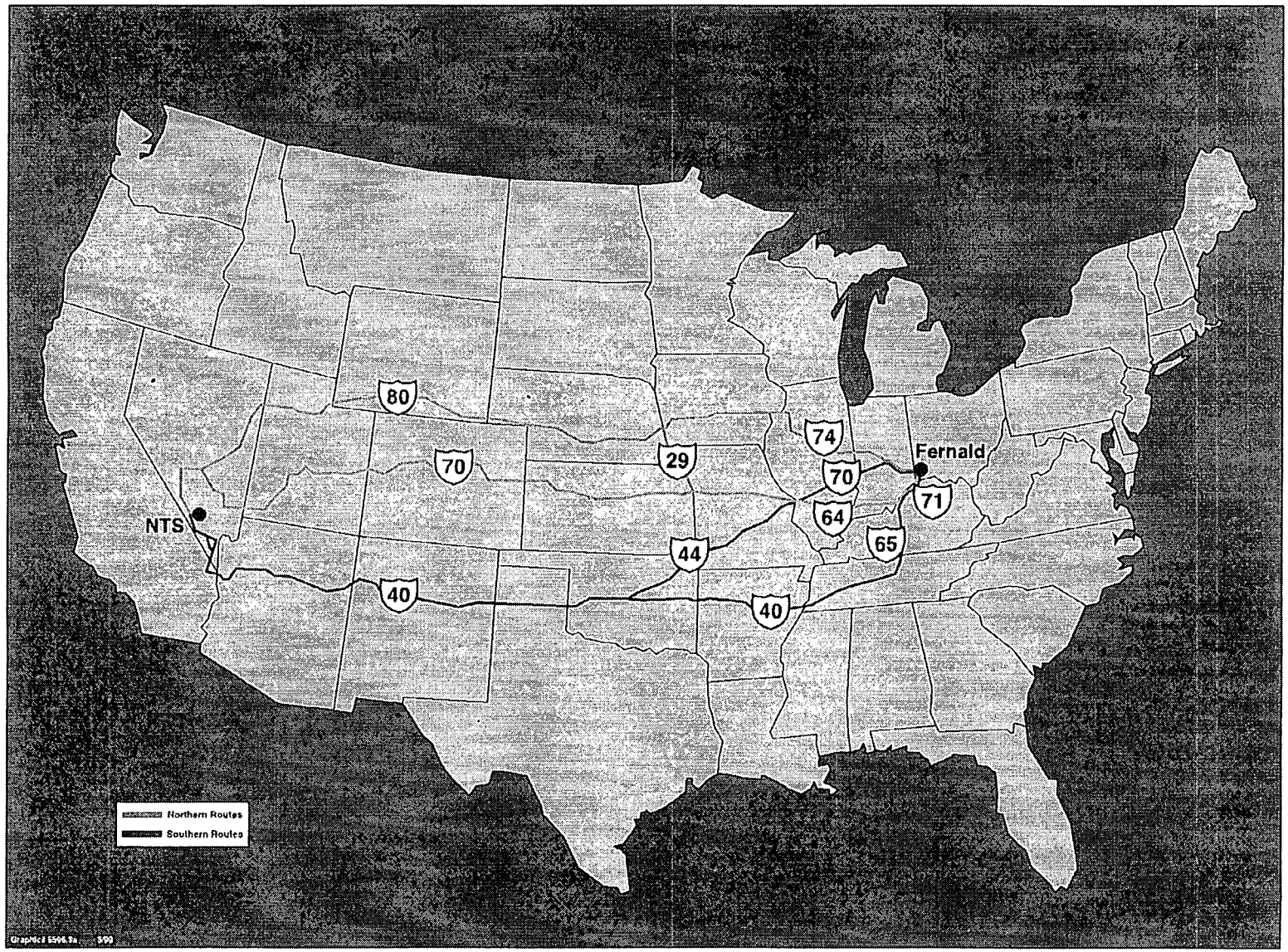
ALTERNATIVE ROUTES FROM FERNALD TO NEVADA TEST SITE



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