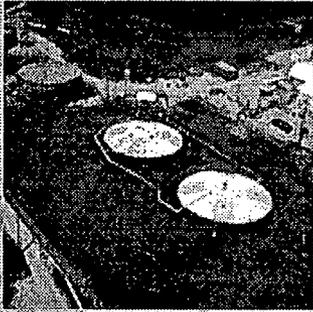


FERNALD CLEANUP PROGRESS BRIEFING

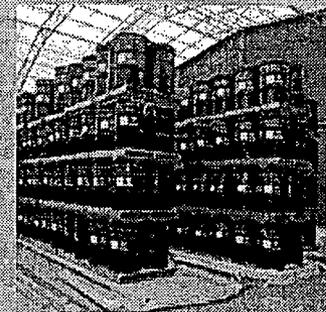
JULY 1998



OU4 - Silos Project



OU1 - Waste Pits Remedial Action Project



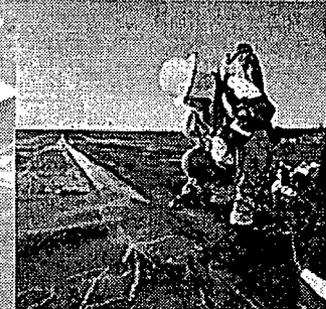
Waste Management Project



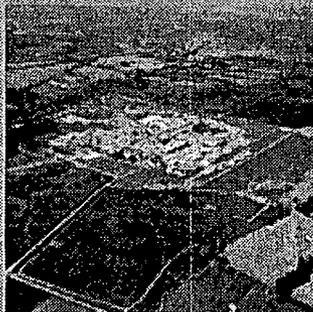
OU5 - Aquifer Restoration/
Wastewater Project



OU3 - Facilities Closure &
Demolition Project



OU2 - On-Site Disposal
Facility Project



Project Management



OU5 - Soil Characterization
& Excavation Project

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FERNALD CLEANUP PROGRESS BRIEFING

JULY 1998

6:30 p.m. Opening Remarks

Gary Stegner

6:35 p.m. Project Updates

OU1 - Waste Pits Remedial Action Project

Dave Lojek

OU2 - On-Site Disposal Facility Project

Jay Jalovec

OU3 - Facilities Closure & Demolition Project

John Trygier

OU4 - Silos Project

Nina Akgunduz

OU5 - Aquifer Restoration/Wastewater Project

John Kappa

OU5 - Soils Characterization & Excavation Project

Rob Janke

Waste Management

John Sattler

Question and Answer Session

-- Break --

7:45 p.m. On-Site Disposal Facility Operations

Dennis Carr

8:30 p.m. Adjourn

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PROJECT NEWS

OU1 - WASTE PITS REMEDIAL ACTION PROJECT

- Commercial disposal contract awarded
- Draft Transportation and Disposal Plan
- Draft Final Remedial Design Package
- Draft Remedial Action Package
- WPRAP field activities

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PROJECT NEWS

OU2 - ON-SITE DISPOSAL FACILITY

- Phase II project submittals reviewed and standard startup review conducted
- Seasonal shutdown policy proposed
- Revisions initiated to IMPP & WAC Plan for oversized transite panels
- Regulatory milestone to initiate Phase II construction met June 26
- Waste placement in Cell 1 initiated July 2

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PROJECT NEWS

OU3 - FACILITIES CLOSURE & DEMOLITION PROJECTS

- Progress continuing in Boiler Plant
- Buildings 32 and 78 down
- Maintenance/Tank Farm contract awarded
- Safe Shutdown continuing in Plants 2/3 and 6

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PROJECT NEWS

OU4 - SILOS PROJECT

Silos 1 & 2:

- Accelerated Waste Retrieval pre-bid meeting held June 23
- Vendor proposals due by August 19, 1998
- Proof-of-Principle Work Plans in progress

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PROJECT NEWS

OU4 - SILOS PROJECT

Silo 3 Project:

- Retrieval of material from Silo 3 underway
- Proposals on *Silo 3 Request for Proposal* are being reviewed
- Regulator approval received on *Silo 3 Remedial Design Work Plan*
- Silo 3 contract award by June 24, 1999

PROJECT NEWS

OU 5 - AQUIFER RESTORATION/ WASTEWATER PROJECT

- 1998 monthly average total uranium concentration discharged to Great Miami River
- 1998 monthly summary of uranium discharged to Great Miami River
- Start-up operations for the South Field Extraction System, South Plume Optimization and Injection Demonstration

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AQUIFER RESTORATION/ WASTEWATER TREATMENT STARTUP SCHEDULE

- AWWT Expansion April 30, 1998
- Southfield Extraction System August 1, 1998
- South Plume Optimization September 1, 1998
- Injection Demonstration September 30, 1998

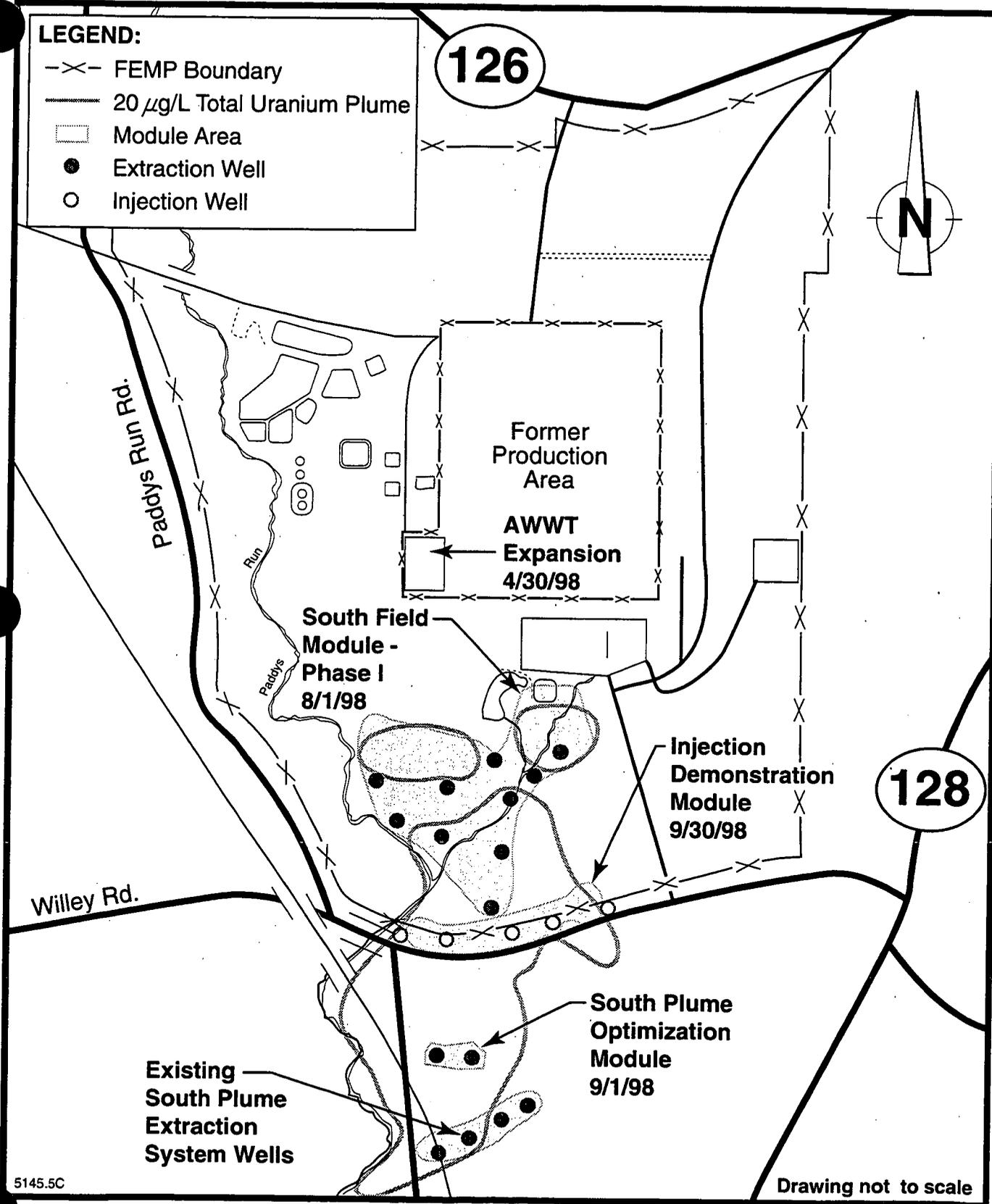
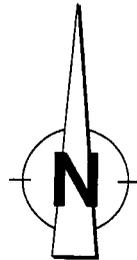
CURRENT AQUIFER RESTORATION MODULES & WELL LOCATIONS

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LEGEND:

- X- FEMP Boundary
- 20 $\mu\text{g/L}$ Total Uranium Plume
- Module Area
- Extraction Well
- Injection Well

126



128

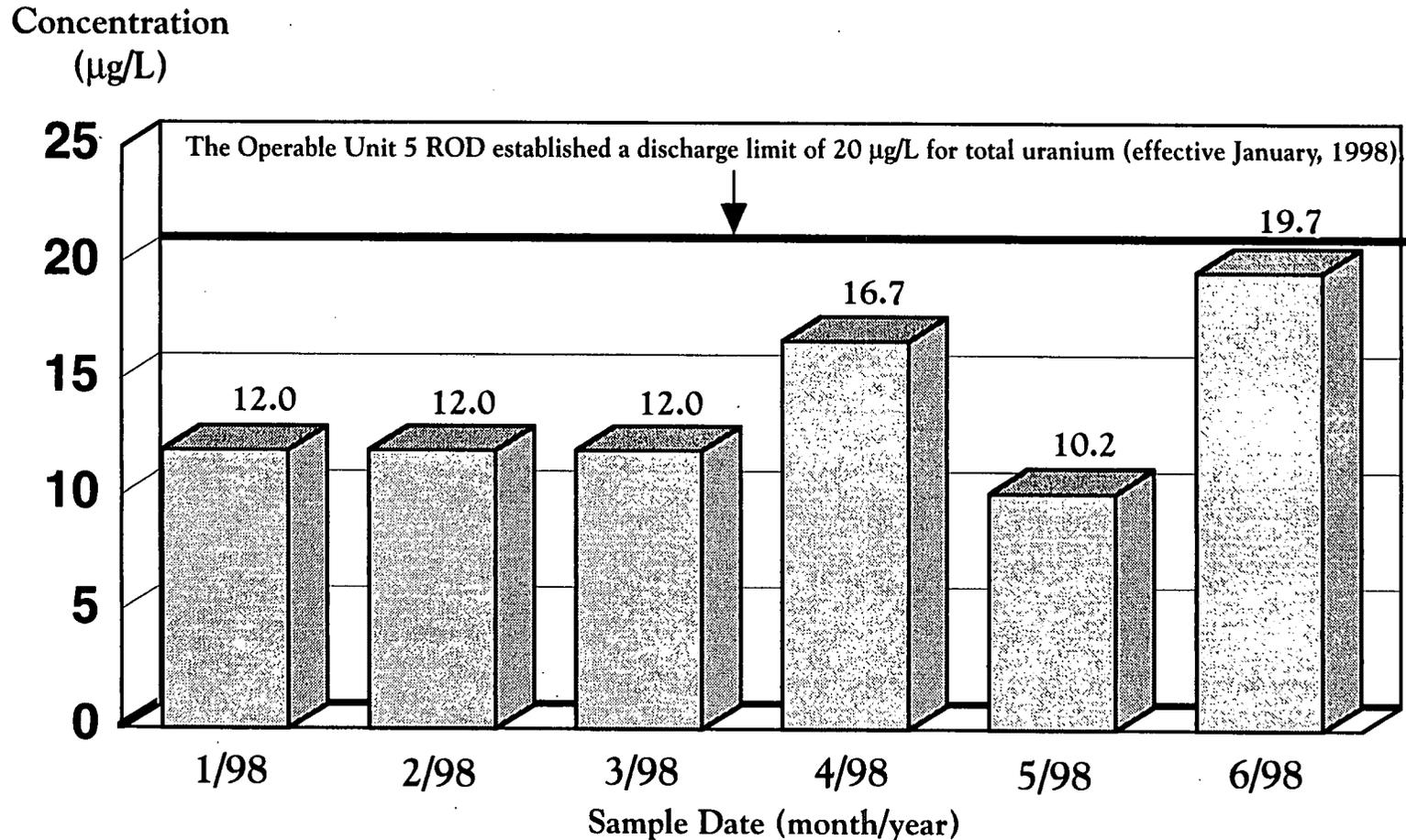
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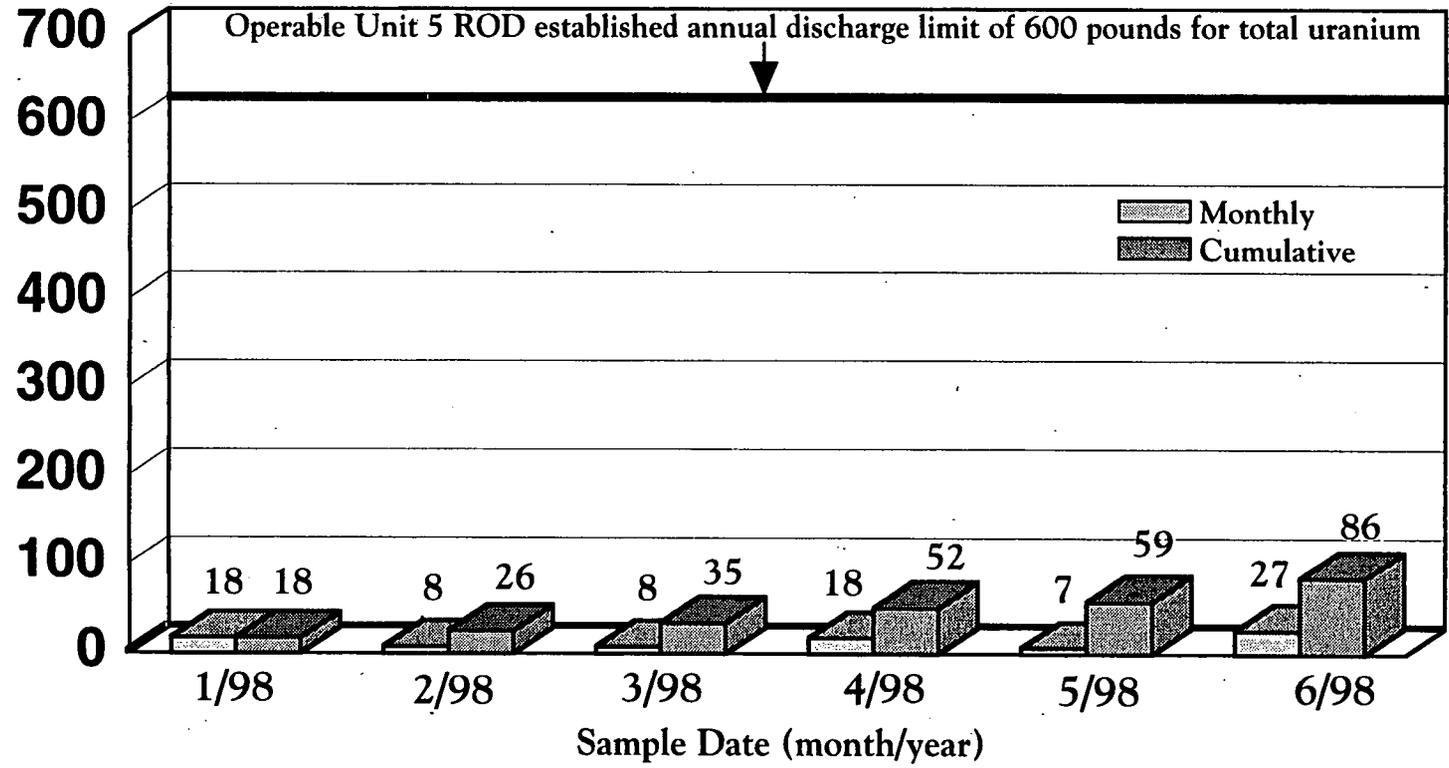
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AVERAGE MONTHLY TOTAL URANIUM CONCENTRATION DISCHARGED TO THE GREAT MIAMI RIVER IN 1998



POUNDS OF URANIUM DISCHARGED TO THE GREAT MIAMI RIVER IN 1998

Weight (pounds)



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

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PROJECT NEWS

OU 5 - SOIL CHARACTERIZATION & EXCAVATION PROJECT

- Bioengineering erosion protection system installed at Paddys Run
- Excavation of Stockpile #5 initiated
- Overview of the Internet Links from the Fernald HomePage for Soils Remediation: Soils Characterization & Excavation Project (SCEP) and Accelerated Site Technology Deployment (ASTD)

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PROJECT NEWS

PROJECT MANAGEMENT

- Ohio “Accelerated” Plan
 - Plan released 6/30/98
 - Foreword by Leah Dever explains future expectations to successfully accomplish OH 2005 Vision
- National “Accelerated” Cleanup Plan
 - Released 6/30/98
 - Copies to Fernald Citizen Advisory Board, National Governor Association representatives, and other stakeholders
 - Copies available by request at 1-800-736-3282, or by internet at <http://www.em.doe.gov>
- FY99 Replan Change Proposal
 - DOE-HQ Fernald team visit in June to review Replan with EM Project Managers
 - Focus on changes to baseline and drivers behind changes
 - Awaiting DOE-HQ approval

**ON-SITE
DISPOSAL FACILITY
OPERATIONS**

**Dennis Carr
Vice-President Soil and Water Projects
Fluor Daniel Fernald**

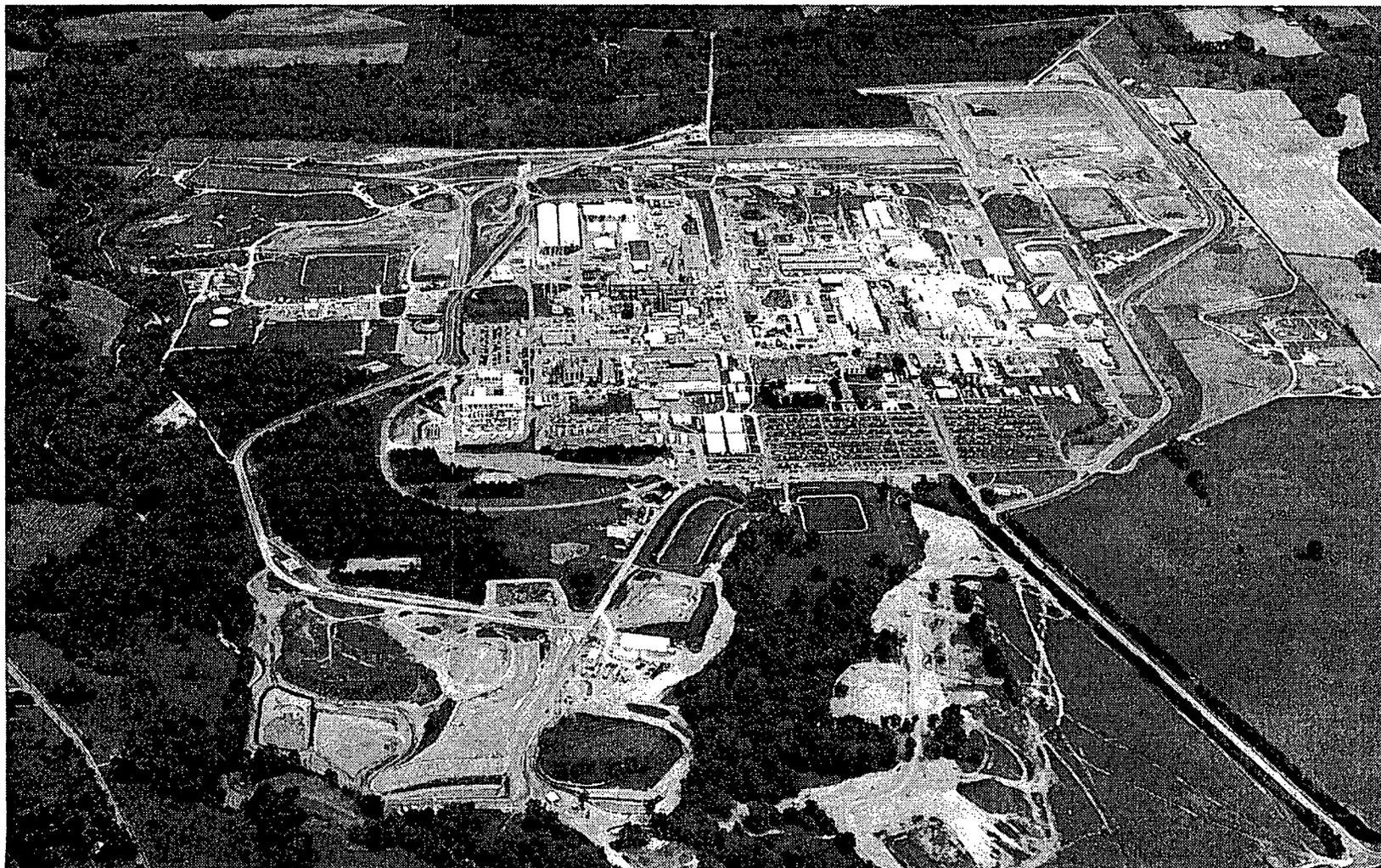
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ON-SITE DISPOSAL FACILITY (OSDF) OPERATIONS

FERNALD



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Photo # 6901-274

2-1564



BACKGROUND

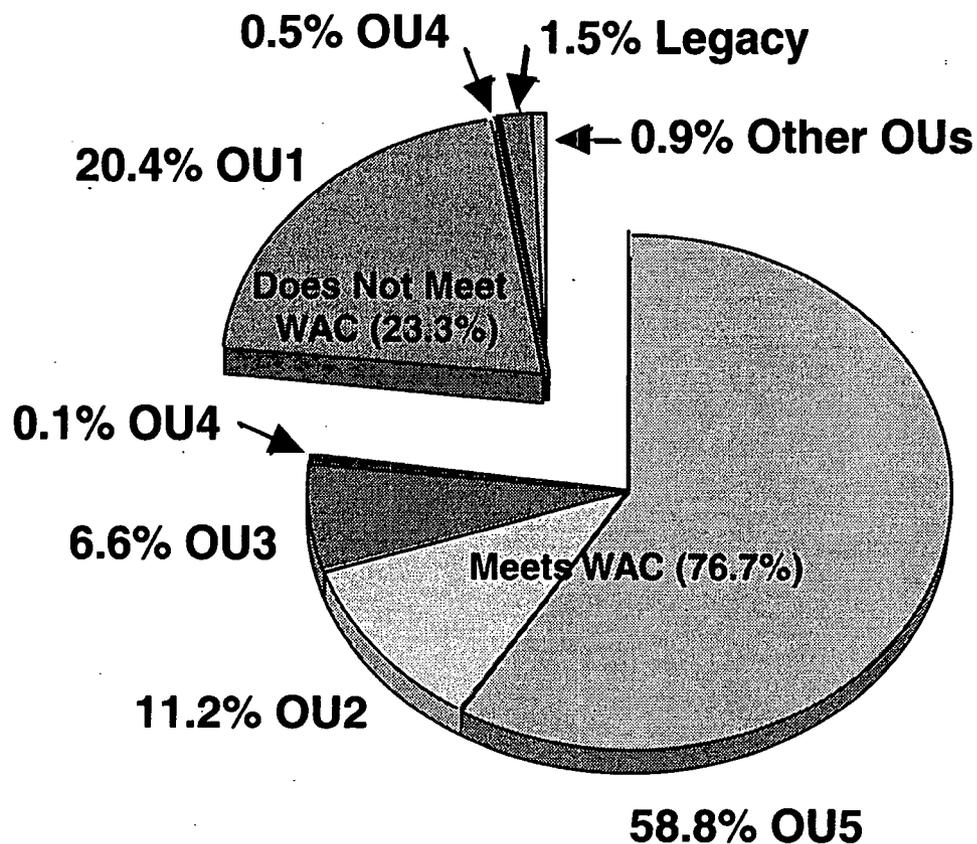
FERNALD

- **3 Records of Decision (RODs) provide for OSDF**
- **OSDF protectiveness based on:**
 - **Underlying geology**
 - **Engineered containment**
 - **Physical and chemical Waste Acceptance Criteria (WAC)**
- **Chemical/Radiological WAC defined in RODs**
- **Physical WAC in OSDF Impacted Material Placement Plan**
- **WAC Attainment Plan approved providing approach to ensuring WAC attainment**

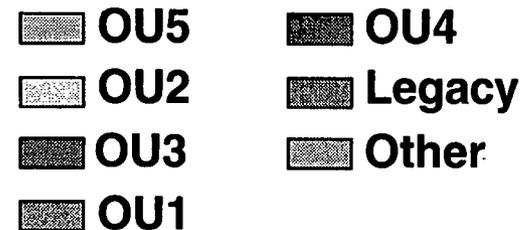


DISPOSITION OF FEMP WASTE CONSIDERING WASTE ACCEPTANCE CRITERIA

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Waste Source



	Total Volume	Volume Meeting WAC
OU1	628200	0
OU2	348600	345000
OU3	201600	201600
OU4	17000	3000
OU5	1835000	1810000
Legacy	46760	0

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RADIOLOGICAL/CHEMICAL WASTE ACCEPTANCE CRITERIA

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- **Concentration based criteria for 18 radiological and chemical constituents**
 - **Ex. Uranium - 1030ppm**
Tc-99 - 29p C/g
- **Mass based limited for Tc-99 in demolition debris**
- **Visible inspection of building debris to preclude discernable process residue**



OSDF PROHIBITED ITEMS

FERNALD

- **Pressurizable gas cylinders**
- **Process-related metals**
- **Product, residues, and other special materials**
- **Materials containing free liquids**
- **Intact drums (i.e., drums must be empty and crushed)**
- **Acid brick**
- **Transformers, which have not been crushed or had their void spaces filled with grout**
- **Whole or shredded scrap tires (as defined by OEPA)**
- **Used oils**
- **Material not accompanied by a manifest**
- **Solvent saturated soils**
- **Material not meeting the physical WAC**

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MATERIAL SEGREGATION GUIDANCE

FERNALD

OSDF Material Segregation Categories for Bulk Material

- **Category 1**
 - Soil and soil like (e.g., flyash, most of OU2 and OU5 soils)
- **Category 2**
 - Materials that can be transported, placed, spread and compacted *en masse*, and meet the size criteria (e.g., broken concrete, general building rubble)
- **Category 3**
 - Materials that require individual handling and placement and meet the size criteria (equipment)
- **Category 4**
 - Materials with high organic content (e.g., humus, vegetation or materials that are highly compressible)
- **Category 5**
 - Materials that require case-by-case evaluation (e.g., double-bagged asbestos, ACM-insulated pipe sludges)



WASTE ACCEPTANCE ORGANIZATION

FERNALD

- Oversees implementation of the WAC Attainment Plan for soil, debris, and ancillary waste materials
- Provides full-time field oversight of:
 - Soil excavation activities
 - Debris generation at facility D&D Projects
 - Placement of soil and debris in the OSDF
 - Inspection and maintenance of stockpiles
- Maintains the permanent placement record for the OSDF
- Serves as a key point of contact for EPA and Ohio EPA

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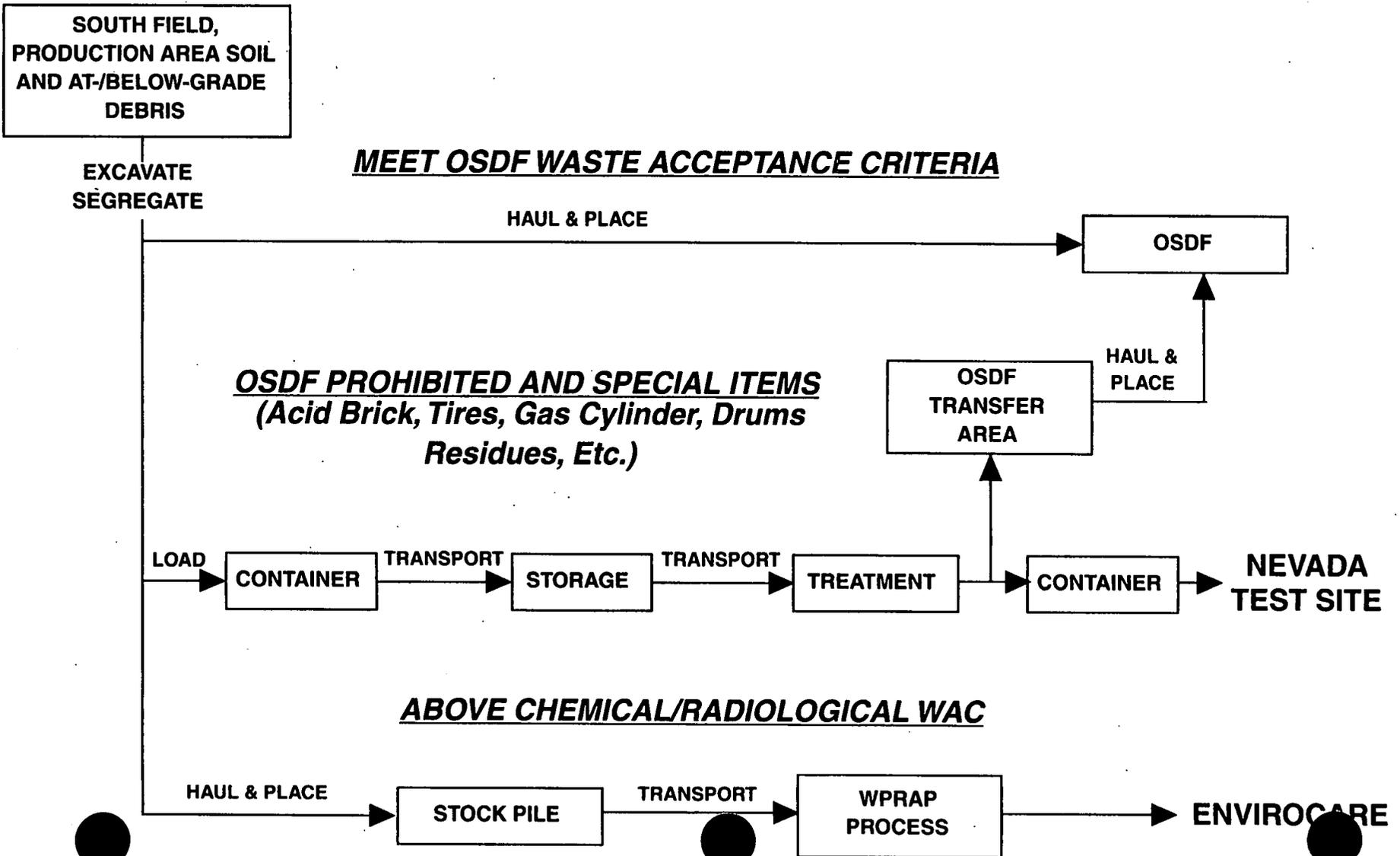
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MATERIAL FLOW FOR SOIL AT & BELOW GRADE DEBRIS

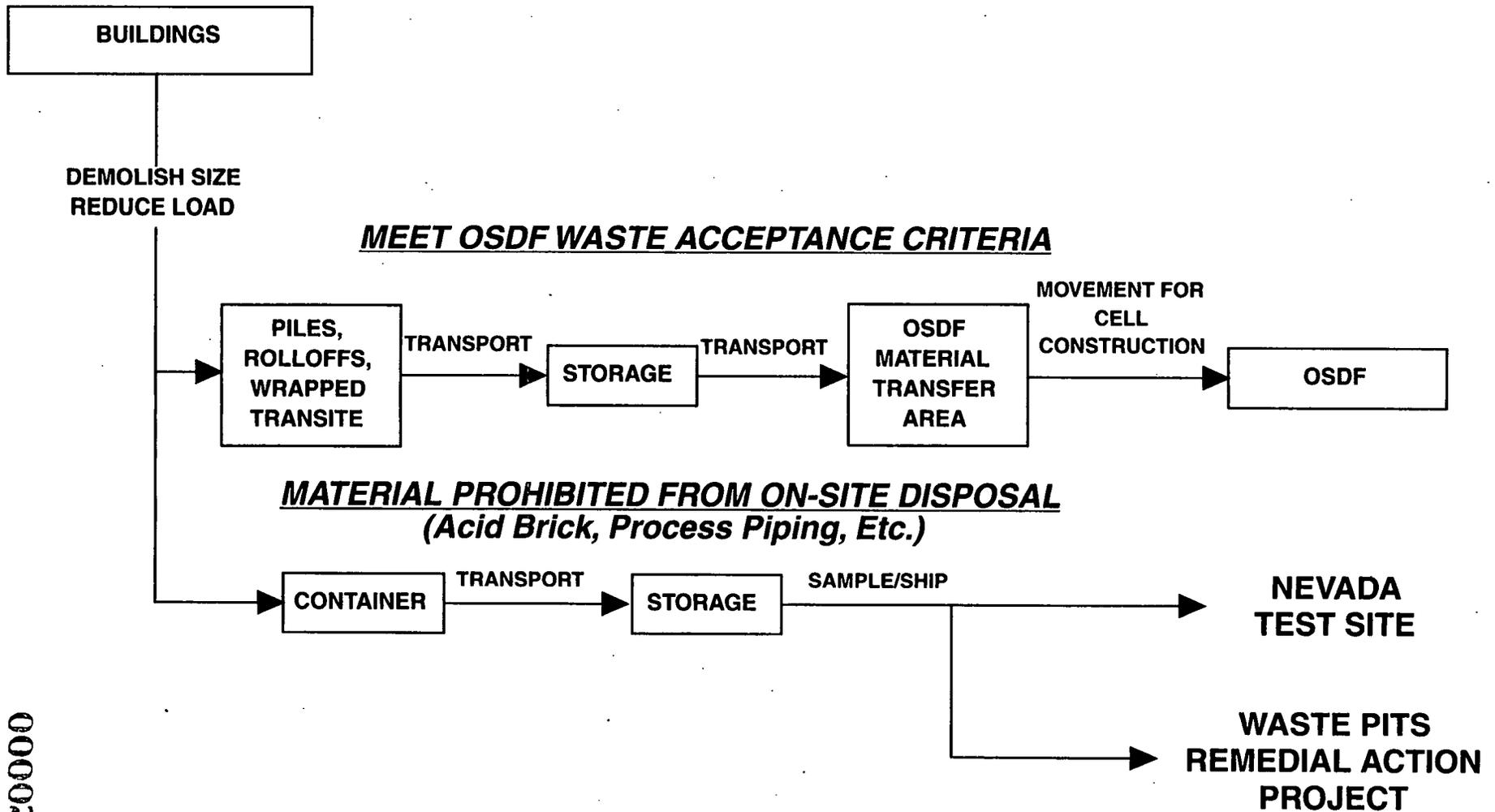
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MATERIAL FLOW FOR ABOVE GRADE DEBRIS

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SOUTHERN WASTE UNITS

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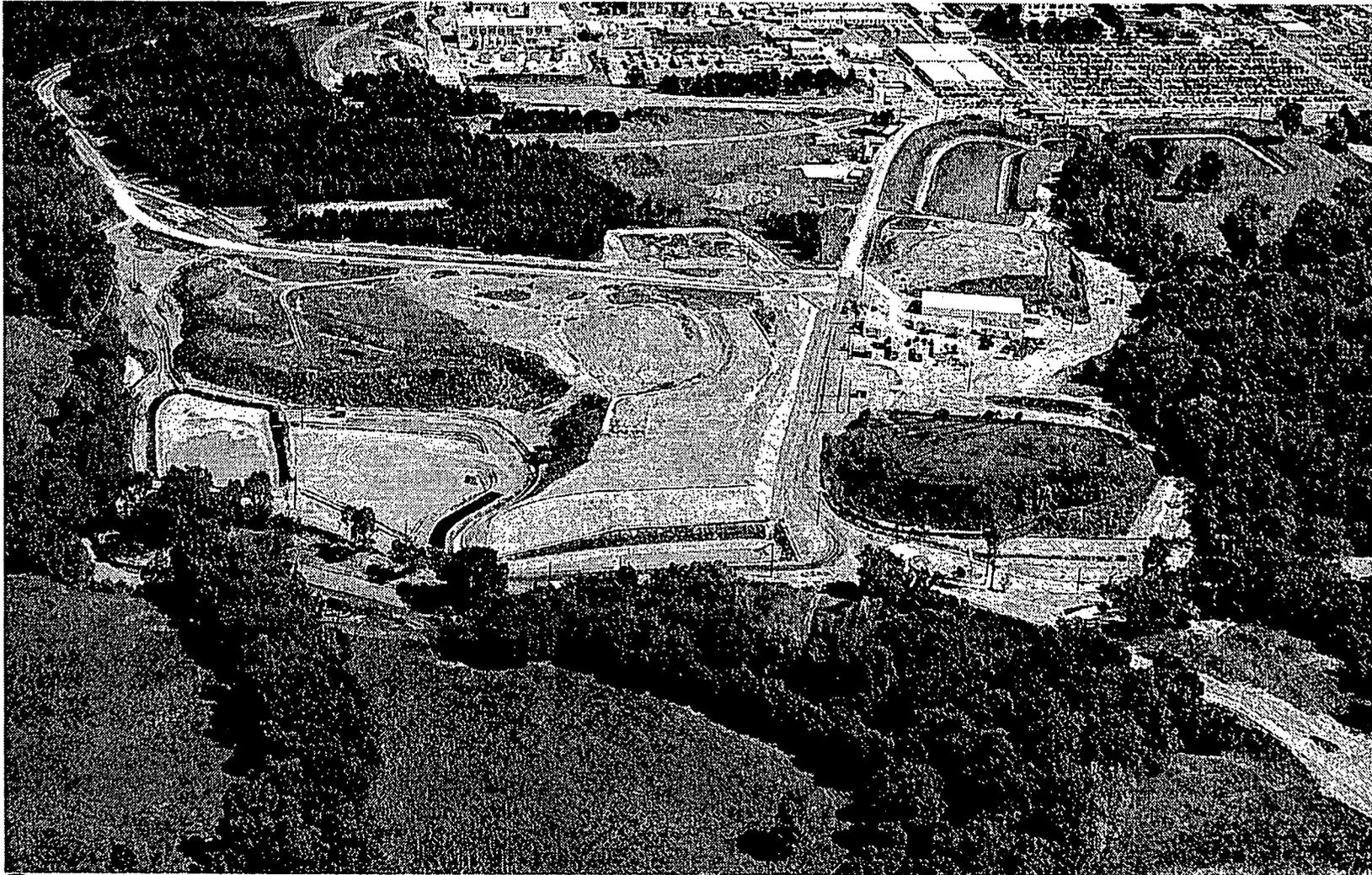


Photo # 6901-261

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EXCAVATION OF SOIL

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Photo # 6319D-1344



ORGANIC VAPOR ANALYZER

FERNALD



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Photo # 6319D-1371



SOIL CHARACTERIZATION

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**Real Time Radiation
Tracking System (RTRAK)**



Photo # 6846D-65

**Radiation Scanning
System (RSS)**

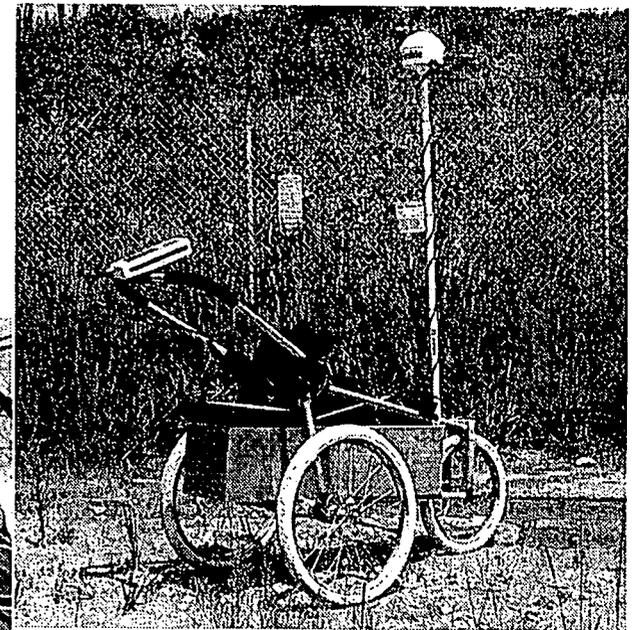


Photo # 6846D-77

**High Purity Germanium
(HPGE) Detector**



Photo # 6846D-29



MANIFESTING OF OSDF - BOUND MATERIALS

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Photo # 6319D-1316

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WHEEL WASH LOCATED BY SOUTHERN WASTE UNITS

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Photo # 6901-88

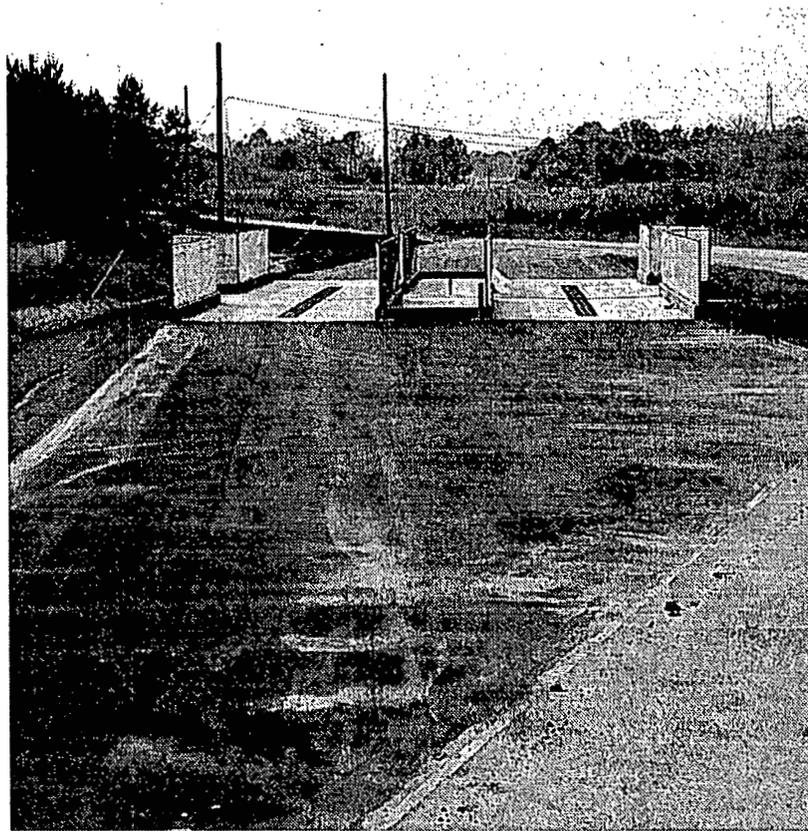
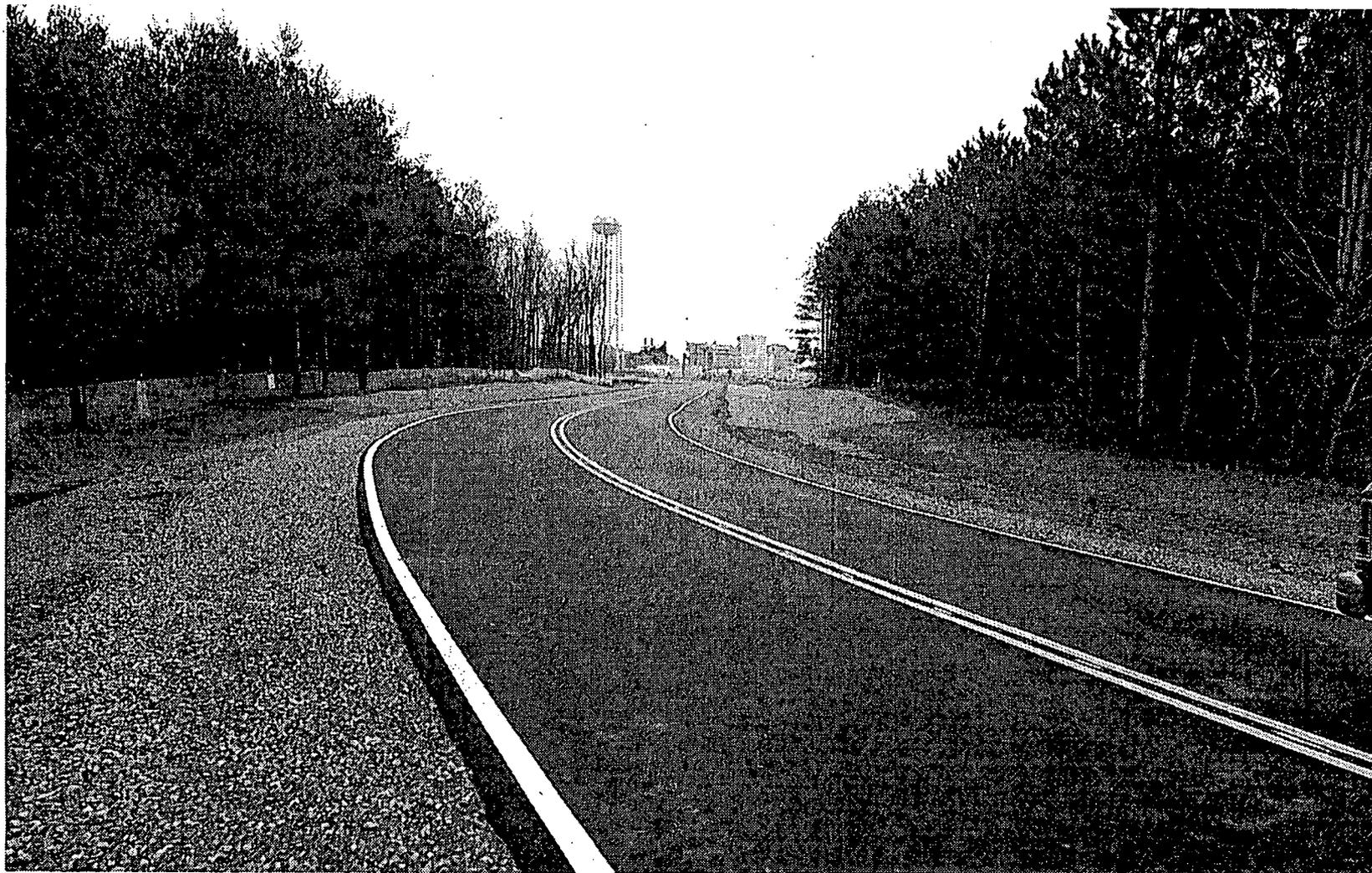


Photo # 6734D-611



GROUND VIEW OF HAUL ROAD

FERNALD



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Photo # 6319-1073

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HAUL ROAD CROSSING LOCATION

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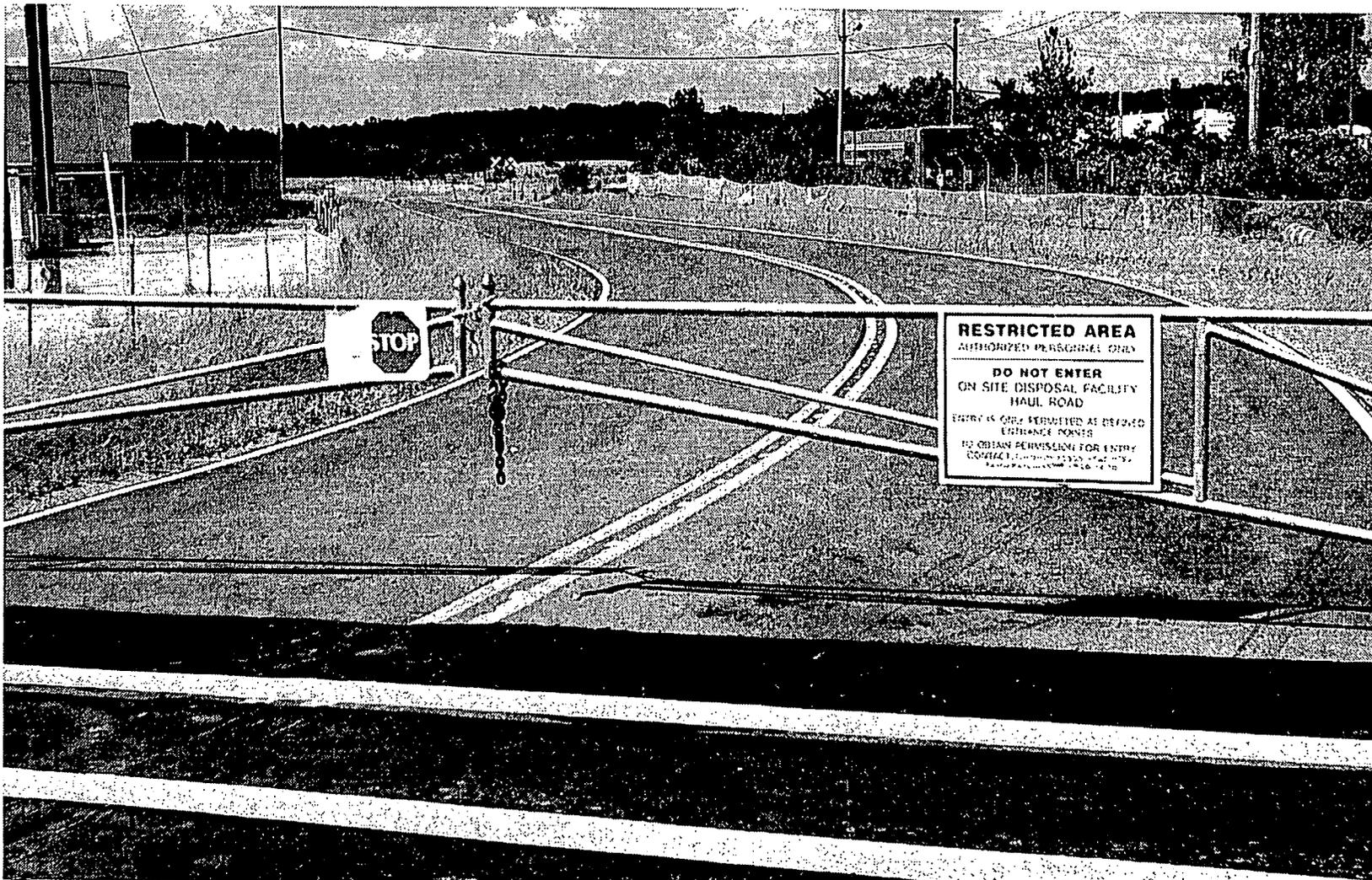


Photo # 6319D-1285



SOIL PLACEMENT IN OSDF

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Photo # 6319D-1333

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WHEEL WASH LOCATED BY OSDF

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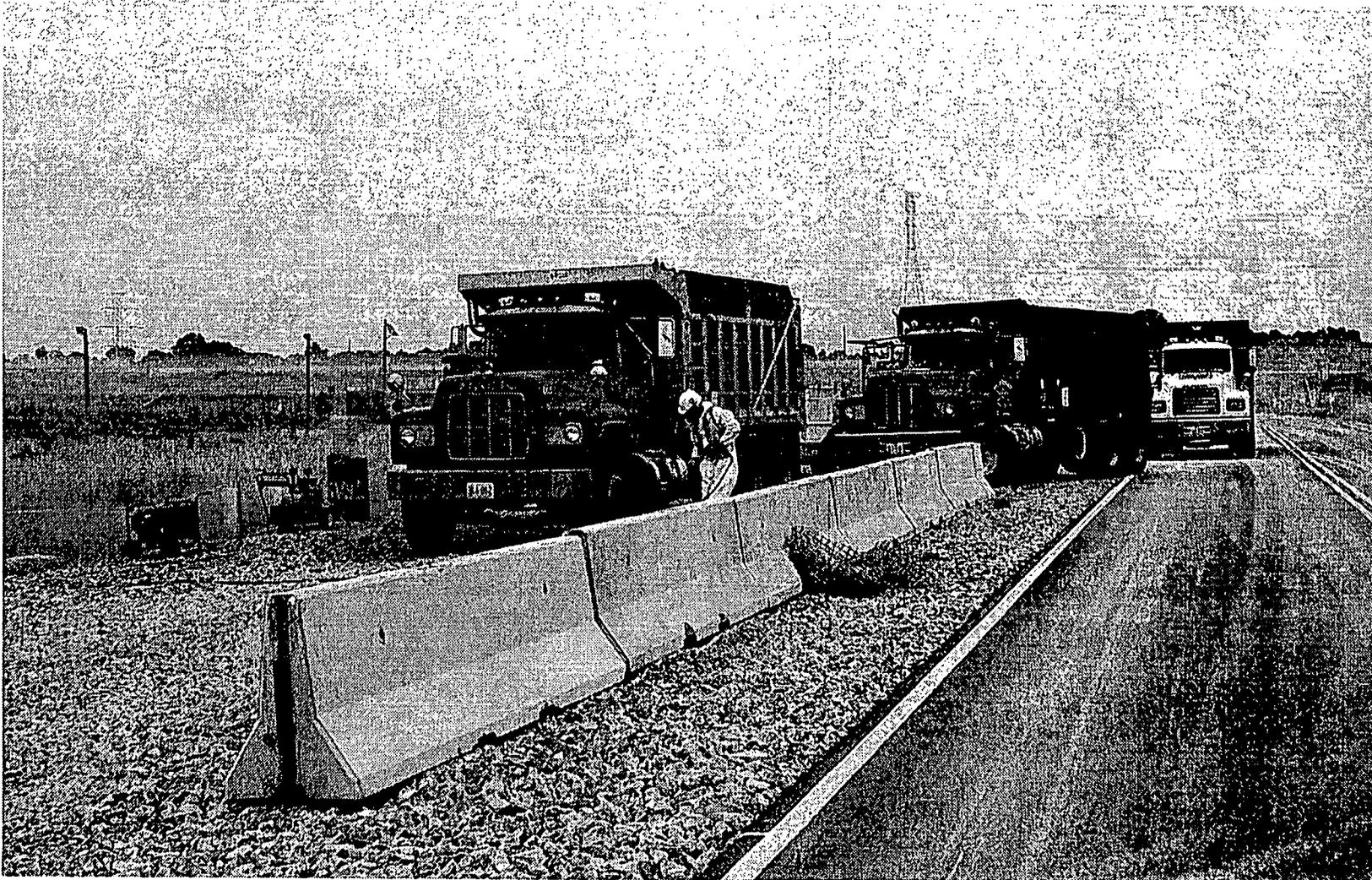


Photo # 6319D-1339



MATERIAL TRANSFER AREA

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Photo # 6319D-1243

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DECONTAMINATION AREA FOR FREE RELEASE OF EQUIPMENT

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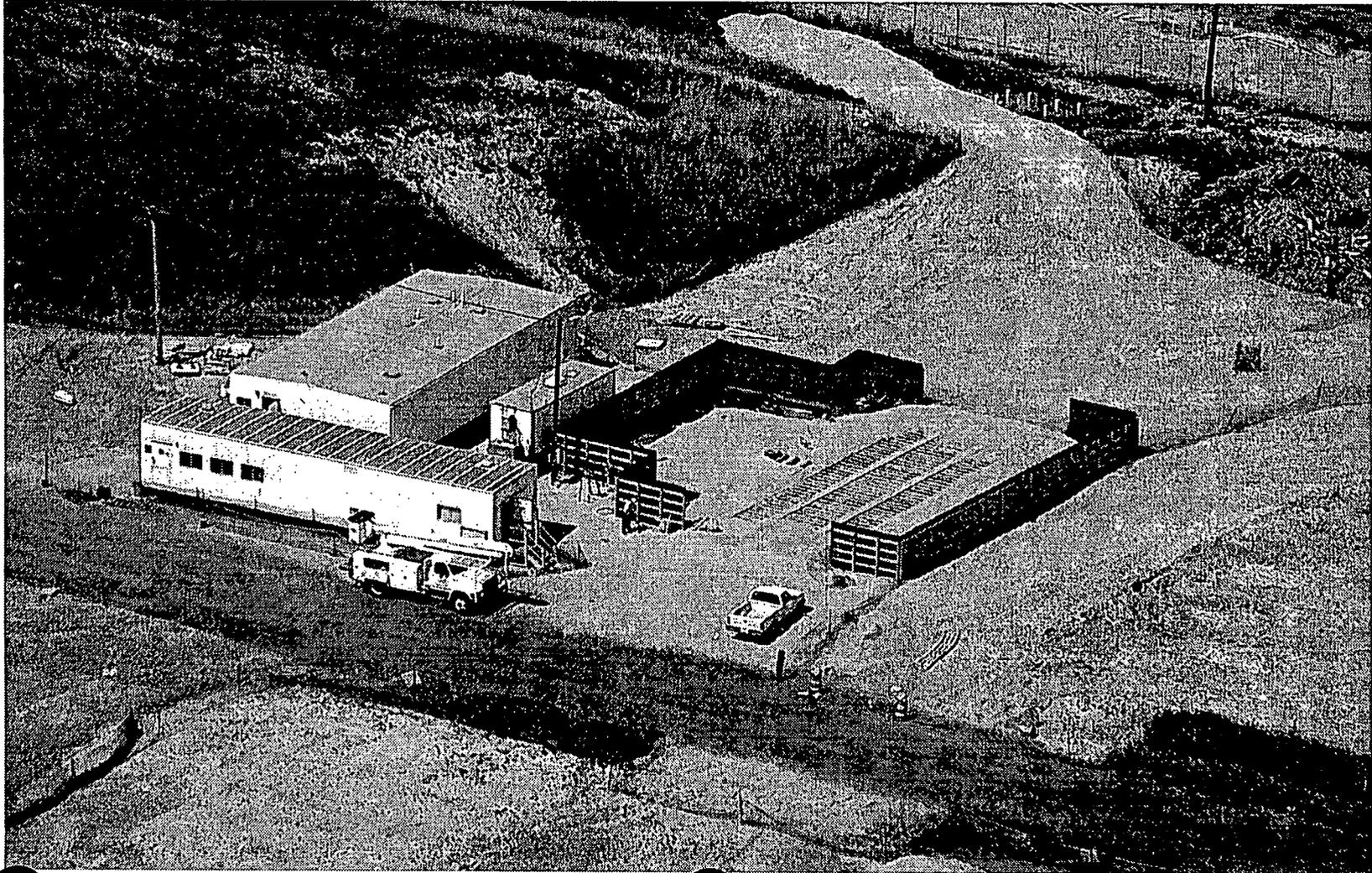
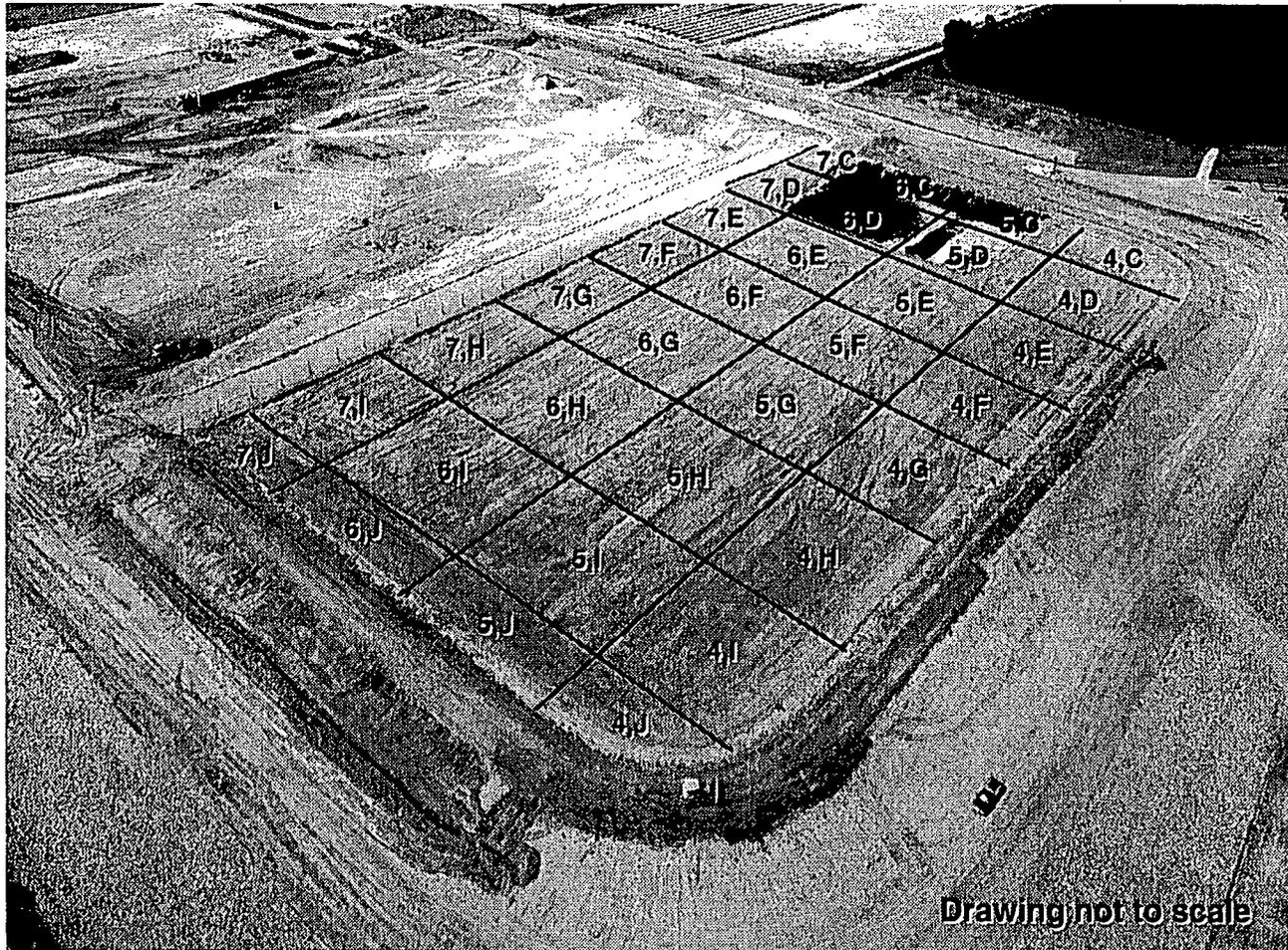


Photo # 6901-215



CELL 1 GRID LAYOUT

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GRID LOCATION MARKERS

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Photo # 6319D-1329

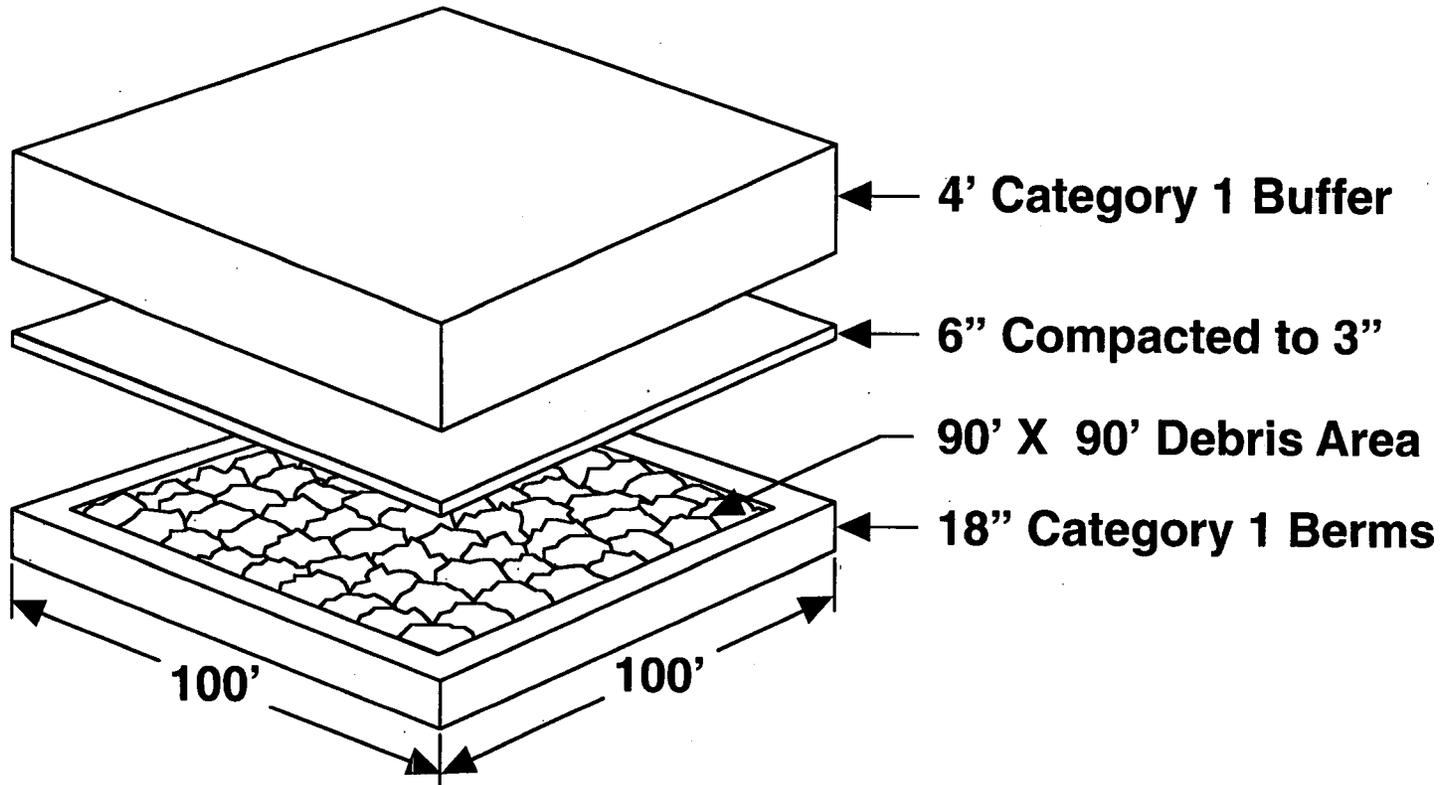


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CATEGORY 2 MATERIAL PLACEMENT

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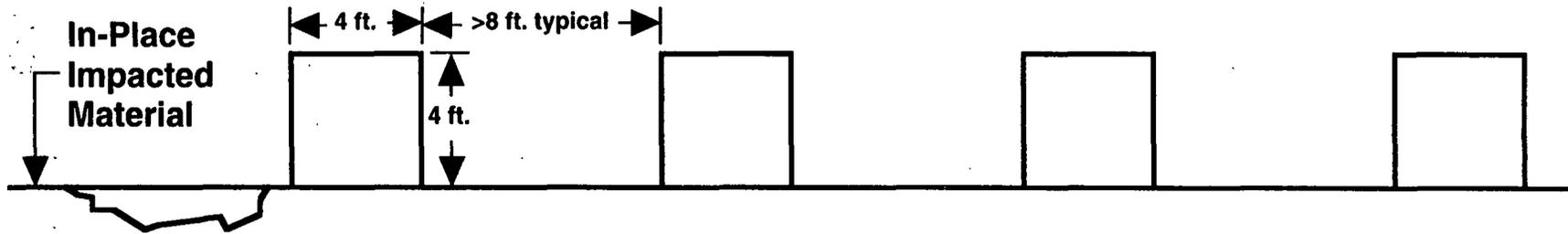
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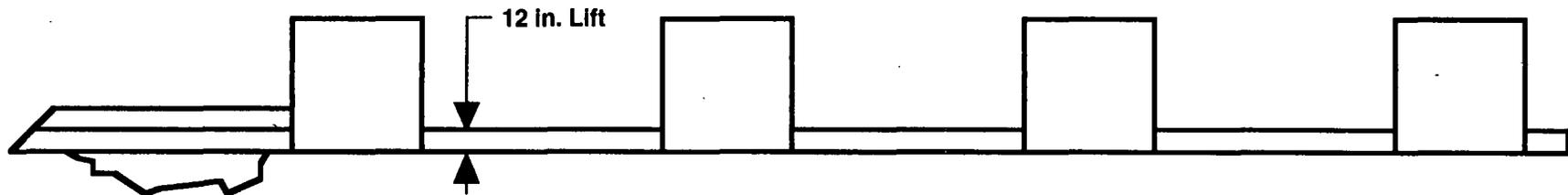


CATEGORY 3 MATERIAL PLACEMENT

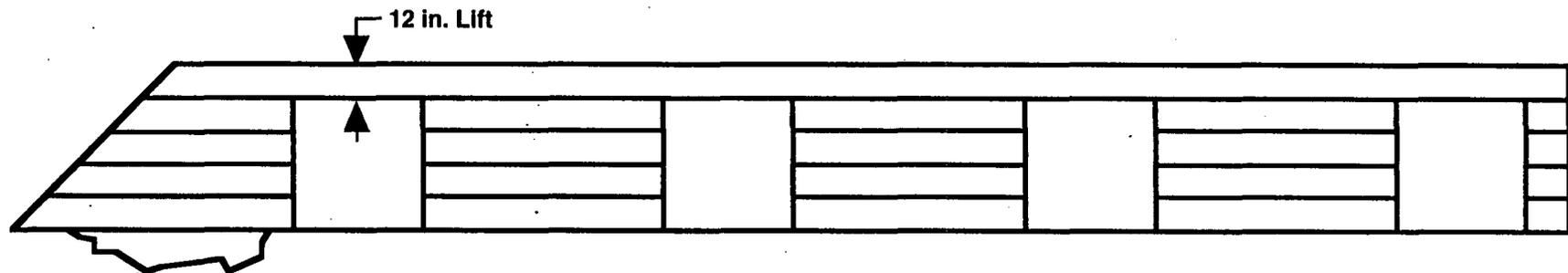
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1. Placed in a Regular Pattern



2. Space Filled with 12 in. Lifts

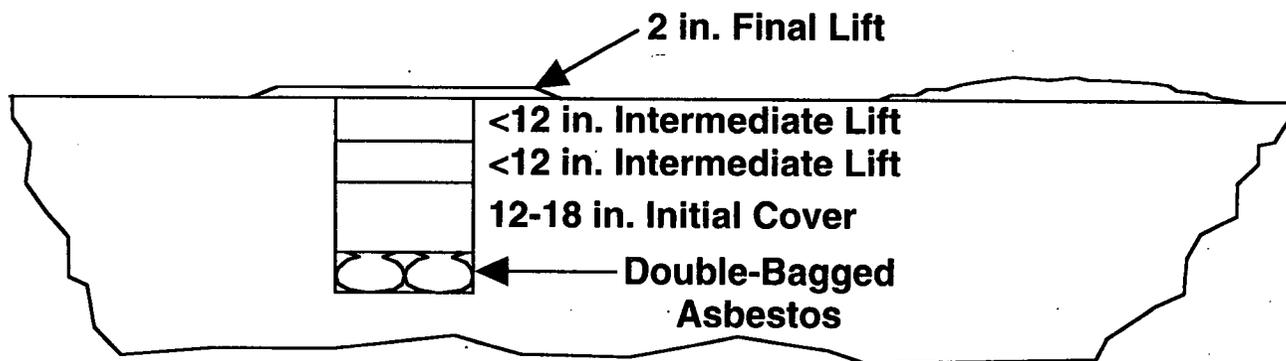
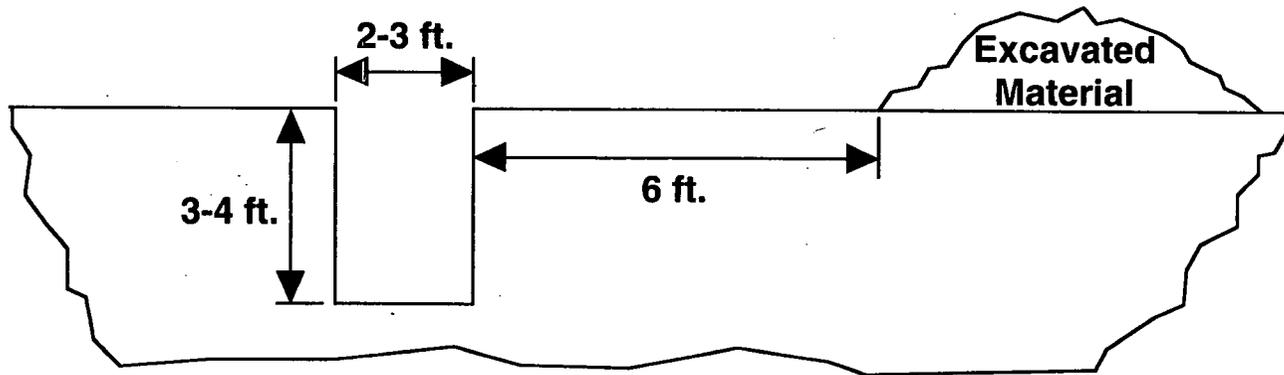


3. Final 12 in. Lift Placed Above Groups



CATEGORY 5 MATERIAL PLACEMENT

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Fernald Environmental Management Project

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PHOTOGRAPHY

▶ FEEDBACK

welcome to the Fernald web site!

news update

Fluor Daniel Fernald was awarded a one year contract extension, w

- ▶ *Visit Fluor Daniel Fernald Acquisitions Department's "Current Solicitations" page for procurement opportunities, including the AWR Request for Proposal.*
- ▶ *A team of representatives from the Nevada Test Site (NTS) will visit Fernald during the week of July 27 to conduct an assessment of Fernald's Low-Level Waste Shipping Program.*
- ▶ *The Draft Transportation and Disposal Plan is available for public inspection. Visit the WPRAP page, under Key Projects to download the document.*
- ▶ *Petro Environmental Technologies, Inc was awarded a contract to begin Phase II of the On-Site Disposal Facility.*



FLUOR DANIEL



**FLUOR DANIEL
FERNALD**

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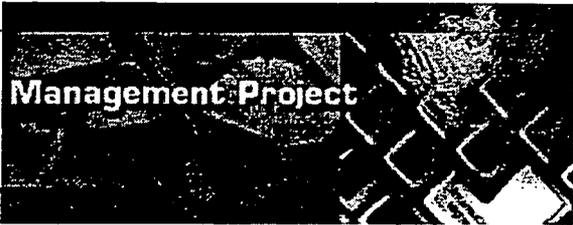
Electronic mail

Webmaster: webmaster@fernald.gov

Send mail to webmaster@fernald.gov with questions or comments about this web site.
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Fernald Environmental Management Project



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[Aquifer
Restoration &
Waste Water
Project](#)

Key Projects

[Facilities
Closure &
Demolition
Project](#)

In August 1996, Fluor Daniel Fernald reorganized the clean-up of the Fernald site into projects, otherwise known as "projectization". The main objective of projectizing was to better enable DOE and Fluor Daniel Fernald personnel to implement the Accelerated Cleanup Plan. Projectization has enhanced Fluor Daniel Fernald's ability to focus on environmental restoration at Fernald.

[On-Site
Disposal Facility
Project](#)

The cleanup is divided into seven major projects. These projects and their major scope of work are listed below.

[Silos Project](#)

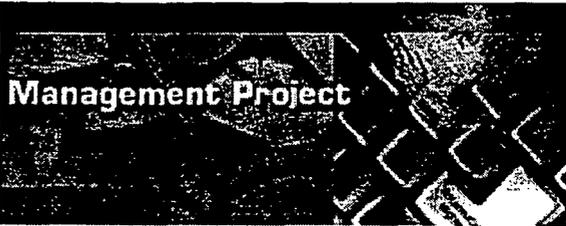
[Soil
Characterization
& Excavation
Project](#)

[Waste
Management](#)

[Waste Pits
Remedial Action
Project](#)

Project	Major Work Scope
Aquifer Restoration & Waste Water Project	<ul style="list-style-type: none"> • Full restoration of impacted portions of the Great Miami Aquifer. • Treatment of remediation wastewater, stormwater and extracted groundwater at Advanced Waste Water Treatment Facility. Projected to exceed one billion gallons of contaminated water per year. • Implementation of a comprehensive environmental monitoring program to access impacts associated with site cleanup, the community or the environment.
Facilities Closure & Demolition Project	<ul style="list-style-type: none"> • Safe shutdown of former production facilities. Removal of "holdup" process material, utility disconnects and gross decontamination. • Management and redistribution / reduction of utilities. • Facility decontamination and dismantlement. • Sitewide maintenance of facilities and site infrastructure. Design and construction of On-Site Disposal Facility.
On-Site Disposal Facility Project	<ul style="list-style-type: none"> • Facility design capacity of 2.5 million cubic yards.
Silos Project	<ul style="list-style-type: none"> • Treatment of Silos 1 & 2 waste by use of

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**Fernald Environmental Management Project**

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[Soil
Characterization
and Excavation
home page](#)

[Accelerated Site
Technology
Deployment
Program home
page](#)

Soil Characterization & Excavation Project

Key Projects

Description

The Soil Characterization and Excavation Project covers nine remediation areas at the U.S. Department of Energy's Fernald Environmental Management Project. The project includes components of cleanup remedies for Operable Units (OU) 2, 3, and 5, three of the five areas at Fernald requiring remediation. OU2 includes remediation of the solid waste landfill, lime sludge ponds, South Field, flyash piles, berms, liners and soils within it. OUs 3 and 5 include remediation of soils (not included in other operable units) and bringing at-or-below grade debris and structures to final remediation levels.

Cleanup Plans

Cleanup activities include soil sampling, analysis, design, excavation, segregation and treatment, certification, transportation, disposal, and restoration of potentially contaminated areas. Excavated soil and debris will be transported to the On-Site Disposal Facility or, when soil doesn't meet accepted criteria, to an off-site disposal facility.

The project follows a general soil remediation process for each of the defined areas. These steps include pre-design investigation, remedial design, site preparation, excavation and segregation, pre-certification activities, certification, post-remediation activities, and restoration. Each area will be excavated using one of six approaches based on the nature, location, and concentration of contamination. With these six options, soil can be excavated with little impact on surrounding areas, and excavation can address specific challenges at each location.

The Site-wide Excavation Plan defines the management strategy and technical guidelines to direct soil remediation at Fernald. This plan ensures consistent application of methods and protocols during each phase of remediation. A design package will be developed for each area, specifying the methods used for each, including an implementation plan, design drawings and specifications.

The Waste Acceptance Criteria Attainment Plan defines the on-site disposal requirements for materials generated by Fernald's restoration, decontamination and dismantlement efforts. To ensure on-site disposal requirements are met, this plan will be used as the

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Soil Characterization and Excavation Project

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The Fernald site is being restored by the [Department of Energy's Fernald Environmental Management Project](#). Site remediation activities are overseen by regulators from [EPA's Region V](#) and [Ohio EPA's Office of Federal Facilities Oversight](#). As part of the overall remediation of the Fernald site, the soils remediation project will address contaminated surface and subsurface soils at the site. Ten remediation areas have been identified; some of these areas include multiple phases and/or sectors. The purpose of this Web page is to facilitate the organization and dissemination of technical information pertinent to the Soils Characterization and Excavation Project to the broader FEMP stakeholder audience.

What's New

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[Project Schedule](#)

[Project Documents](#)

[Services](#)

[Remediation Areas](#)

[Key Personnel](#)

[ASTD Project](#)

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Accelerated Site Technology Deployment Program

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Integrated Real-Time Technologies for Delineating Radionuclide Contamination in Soils

With support from DOE's Accelerated Site Technology Deployment Program, the FEMP is implementing and deploying a suite of real-time measurement technologies that will support the remediation of soils contaminated with radionuclides. This effort involves Fluor Daniel Fernald, Argonne National Laboratory, DOE's Environmental Measurements Laboratory, Idaho National Engineering and Environmental Laboratory, and Ohio EPA. These technologies will improve remediation work while significantly reducing overall costs.

- What's New**
- Background**
- Schedule**
- Documents**
- Results**
- Services**
- Technology Descriptions**
- Key Personnel**
- SCEP Web Site**

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Key Personnel and Organizations



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WASTE PITS REMEDIAL ACTION PROJECT

JUNE 1998	
Major Work Activities	Enforceable Milestones
<p>Improvements/Upgrades/Construction</p> <ul style="list-style-type: none"> • Continued rail & access road lighting construction 	None
<p>International Technology (IT) Corporation Subcontract</p> <ul style="list-style-type: none"> • Continued developing/finalizing pre-mobilization & pre-operations deliverables • Continued development of Draft Remedial Action Package; submitted package to DOE for review • Submitted Draft Final Remedial Design Package to EPAs 	
<p>Planning & Contracts</p> <ul style="list-style-type: none"> • DOE awards waste disposal contract to Envirocare of Utah, Inc. on 6/30/98 • Received on site two locomotives acquired as excess from Department of Defense • Responded to USEPA comments on Draft Transportation & Disposal Plan 	
60-DAY LOOK AHEAD	
Anticipated Work Activities	Enforceable Milestones
<p>Improvements/Upgrades/Construction</p> <ul style="list-style-type: none"> • Complete rail & access road lighting construction • Receive initial 50 gondola railcars on site 	None
<p>IT Corporation Subcontract</p> <ul style="list-style-type: none"> • Complete development of pre-mobilization deliverables and issue approval to IT to begin waste treatment facility construction • Continue developing/finalizing pre-operations deliverables • Obtain regulatory agency approval of Draft Final Remedial Design Package • Revise/finalize Draft Remedial Action Package 	
<p>Planning & Contracts</p> <ul style="list-style-type: none"> • Submit Draft Final Transportation & Disposal Plan to EPAs • Initiate processing of task order to Envirocare for low-level waste disposal • Begin negotiations and processing of rail transportation tender with Union Pacific Rail Road and CSXT 	

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ON-SITE DISPOSAL FACILITY PROJECT

JUNE 1998	
Major Work Activities	Enforceable Milestones
<p><i>On-Site Disposal Facility (OSDF)</i></p> <ul style="list-style-type: none"> • Mobilized Phase II excavation subcontractor & began construction • Completed construction of Equipment Wash Facility • Completed construction of access control & laboratory trailers • Installed horizontal monitoring wells in Cells 2 & 3 • Transmitted Final Waste Acceptance Criteria Attainment Plan for OSDF to regulatory agencies 6/3/98 	<p>Began OSDF Phase II construction 6/26/98, in advance of actual milestone date of 7/15/98</p>
<p><i>Leachate Conveyance System</i></p> <ul style="list-style-type: none"> • Finished outstanding punch list items; all field work is now complete • Operated system; performed routine maintenance 	
60-DAY LOOK AHEAD	
Anticipated Work Activities	Enforceable Milestones
<p><i>On-Site Disposal Facility (OSDF)</i></p> <ul style="list-style-type: none"> • Begin placement of waste into Cell 1 (note that select impacted material previously approved for placement into this cell came from East Soil Stockpile only) • Construct Cell 2 compacted clay liner & begin installation of geosynthetics • Perform Cell 3 excavation • Prepare OSDF Clay Borrow Area (located east of Fernald Site South Access Road) 	<p>Begin OSDF Phase II construction by 7/15/98; see June enforceable milestone listed above</p> <p>Submit list of proposed enforceable milestones for next fiscal year to Agencies by 8/15/98</p>
<p><i>Leachate Conveyance System</i></p> <ul style="list-style-type: none"> • Finalize as-built drawings • Perform project closeout activities 	

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FACILITIES CLOSURE & DEMOLITION PROJECTS

JUNE 1998

Major Work Activities		Enforceable Milestones
<i>Safe Shutdown Project</i>		Submitted National Emission Standards for Hazardous Air Pollutants Annual Report to Agencies 5/29/98 (as part of Integrated Site Environmental Report), in advance of actual milestone date of 6/29/98
<ul style="list-style-type: none"> • Plant 2/3 <ul style="list-style-type: none"> - Completed holdup removal in selected areas - Continued asbestos & biohazard removal • Plant 6 <ul style="list-style-type: none"> - Continued utility disconnects & holdup removal - Sealed roof; sampled ductwork - Isolated steam & condensate lines 	<ul style="list-style-type: none"> • Non-Nuclear Facilities <ul style="list-style-type: none"> - Completed various utility disconnects - Completed work on old Cooling Tower - Continued removal of equipment from Tank Farm Complex <p style="text-align: center;">TOTAL OF 240 UTILITY DISCONNECTS PERFORMED IN SAFE SHUTDOWN DURING MONTH OF JUNE</p>	
<i>Decontamination & Dismantlement (D&D) Projects</i>		
<ul style="list-style-type: none"> • Boiler Plant/Water Plant <ul style="list-style-type: none"> - Completed demolition activities in North Bay - Completed transite removal & asbestos abatement at old Cooling Tower - Began dismantling boiler maintenance building • Recycling Supplemental Environmental Projects <ul style="list-style-type: none"> - Decontaminated/free-released 78 tons of rail as of 6/29/98 - Continued preparing containers of shredded copper for shipment to recycling vendor 	<ul style="list-style-type: none"> • Thorium/Plant 9 Complex <ul style="list-style-type: none"> - Completed D&D of Buildings 32A & 32B, and removal of all exterior transite on Buildings 9B & 9D - Continued D&D activities in Buildings 69 & 78 - Assembled & tested concrete scabbling unit • Sewage Treatment Plant (STP) Complex <ul style="list-style-type: none"> - Completed site support subcontractor mobilization - Began construction of incinerator enclosure - Removed transite panels from loading dock • Miscellaneous Small Structures <ul style="list-style-type: none"> - Prepared area around Building 38 for D&D 	

60-DAY LOOK AHEAD

Anticipated Work Activities		Enforceable Milestones
<i>Safe Shutdown Project</i>		None
<div style="position: absolute; left: -40px; top: 50%; transform: translateY(-50%); font-weight: bold; font-size: 2em;">000051</div> <ul style="list-style-type: none"> • Plant 2/3 <ul style="list-style-type: none"> - Continue asbestos & biohazard removal - Complete holdup removal in selected areas • Plant 6 <ul style="list-style-type: none"> - Continue biohazard cleanup/utility disconnects - Continue holdup removal in selected areas 	<ul style="list-style-type: none"> • Non-Nuclear Facilities <ul style="list-style-type: none"> - Complete utility disconnects in selected areas - Complete removal of equipment from Tank Farm Complex - Begin piping disconnects 	
<i>D&D Projects</i>		
<ul style="list-style-type: none"> • STP Complex <ul style="list-style-type: none"> - Remove digester lid - Complete D&D activities - Initiate demobilization • Miscellaneous Small Structures <ul style="list-style-type: none"> - Perform D&D of Building 38 	<ul style="list-style-type: none"> • Boiler Plant/Water Plant <ul style="list-style-type: none"> - Demolish remaining above-grade Boiler Plant structure; demolish/size reduce Old Cooling Tower • Thorium/Plant 9 Complex <ul style="list-style-type: none"> - Continue demolition of Plant 9, Building 69 & Building 78 	

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SILOS PROJECT

JUNE 1998	
Major Work Activities	Enforceable Milestones
<p>Silos 1 & 2</p> <ul style="list-style-type: none"> • Held pre-proposal conference on 6/23/98 for interested contractors regarding Accelerated Waste Retrieval Project Request for Proposal 	<p>Awarded four Silos 1 & 2 Proof-of-Principle Testing contracts 6/3/98, over two months in advance of actual milestone date of 8/10/98</p>
<p>Silo 3</p> <ul style="list-style-type: none"> • Received approval on Silo 3 Remedial Design Work Plan from regulatory agencies 6/17/98 • Issued responses to questions received from interested contractors during Silo 3 Request for Proposal pre-proposal conference • Successfully completed Standard Startup Review for Silo 3 Small Scale Waste Retrieval Project & initiated sample retrieval 	
60-DAY LOOK AHEAD	
Anticipated Work Activities	Enforceable Milestones
<p>Silo 1 & 2</p> <ul style="list-style-type: none"> • Receive & begin evaluating Work Plan & Quality Assurance/Quality Control submittals from Proof-of-Principle Testing contractors • Receive & begin evaluating proposals for Accelerated Waste Retrieval Project 	<p>Award Silos 1 & 2 Proof-of-Principle Testing contracts by 8/10/98; see June enforceable milestones listed above</p>
<p>Silo 3</p> <ul style="list-style-type: none"> • Retrieve samples from Silo 3; make preparations for shipment of samples for treatability testing • Receive/evaluate technical proposals for Silo 3 Project; identify short list of potential contractors for onsite & offsite treatment 	

DOE Project Manager --- Nina Akgündüz/513-648-3110

FDF Project Manager --- Dennis Nixon/513-648-4800

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AQUIFER RESTORATION/WASTEWATER PROJECT

JUNE 1998	
Major Work Activities	Enforceable Milestones
Successfully completed Standard Startup Review (SSR) of Operable Unit 1 Storm Water Management Pond & commenced operations 5/29/98 (Note that this accomplishment was not previously reported in May 1998 "Tool Box" information.)	Transmitted Integrated Site Environmental Report to Agencies 5/29/98, in advance of actual milestone date of 6/1/98 Submitted monthly National Pollutant Discharge Elimination System (NPDES) Discharge Monitoring Report (DMR) to OEPA 6/12/98 (covering 5/98)
Completed SSR of Southern Waste Units Retention Basins Transfer System & commenced operations 6/11/98	Submitted NPDES Noncompliance Report to OEPA 6/12/98 (covering 5/98)
Submitted New Sewage Treatment Plant Start-Up Report to OEPA 6/12/98	Submitted Integrated Environmental Monitoring Plan Quarterly Update Report to Agencies 6/26/98
60-DAY LOOK AHEAD	
Anticipated Work Activities	Enforceable Milestones
Successfully complete SSR & remaining construction punch list items for South Field Extraction System; commence operations	Submit monthly NPDES DMR to OEPA Begin operating South Field Extraction System by 8/1/98
Continue preparations for start up of South Plume Optimization & Injection Demonstration Systems	1564
Distribute 1997 Integrated Site Environmental Report to stakeholders	

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SOIL CHARACTERIZATION & EXCAVATION PROJECT

JUNE 1998

Major Work Activities	Enforceable Milestones
<p>Area 1 Phase II (Southern Portion of East Field)</p> <ul style="list-style-type: none"> • Issued Draft Certification Report for Sectors 1 & 2a (encompasses future Borrow Area, excluding Trap Range) 	None
<p>Area 2 Phase I (Southern Waste Units)</p> <ul style="list-style-type: none"> • Worked with OSDF Project & Phase II subcontractor to mobilize for excavation; included review of required work plans & successful completion of Standard Startup Review • Received approval from regulatory agencies on Integrated Remedial Design Package 	
<p>Ongoing Paddys Run Embankment Stabilization Activities</p> <ul style="list-style-type: none"> • Continued "bioengineering stabilization" of embankment in vicinity of Southern Waste Units retention basins; flooding from severe storms during June substantially slowed construction progress 	
<p>Natural Resource Restoration</p> <ul style="list-style-type: none"> • Continued public involvement activities associated with determining final land use of Fernald property • Continued Phase I wetland mitigation design • Initiated <i>Area 1 Phase I Vegetation Plots</i> and <i>Ecological Restoration Case Study</i> Ecological Research subprojects • Issued Final Work Plans for On-Property Public Access Habitat Area Project & for Aesthetic Barrier Project 	

60-DAY LOOK AHEAD

Anticipated Work Activities	Enforceable Milestones
<p>Area 1 Phase II (Southern Portion of East Field)</p> <ul style="list-style-type: none"> • Issue Certified for Construction Site Preparation Package to Agencies • Issue Revised Implementation Plan & response to comments documents to Agencies 	Issue Draft Certification Report for Area 8 Phase I to Agencies by 8/31/98
<p>Area 2 Phase I (Southern Waste Units)</p> <ul style="list-style-type: none"> • Initiate excavation of Stockpile 5 & Inactive Flyash Pile 	
<p>Area 8 Phase I (13-Acre Tract Centrally Located in Portion of Fernald Property West of Paddys Run)</p> <ul style="list-style-type: none"> • Receive laboratory analyses of certification samples • Perform data validation & statistical analysis 	
<p>Ongoing Paddys Run Embankment Stabilization Activities</p> <ul style="list-style-type: none"> • Complete bioengineering stabilization in vicinity of Southern Waste Units retention basins; includes such efforts as installation of natural-fiber matting to encourage vegetative growth & mitigate erosion • Install approximately 100 cubic yards of riprap at upper end of west bank of Paddys Run 	
<p>Natural Resource Restoration</p> <ul style="list-style-type: none"> • Army Corps of Engineers to continue survey of possible tract of land to be set aside for Conservation Easement • Submit Phase I Wetland Mitigation Conceptual Design to Agencies • Submit revised Natural Resource Impact Assessment/Natural Resource Restoration Plan (with associated Environmental Assessment) to Natural Resource Trustees; continue discussions with public on final land use • Submit Final Ecological Research Projects Work Plan to Agencies; issue scope of work for <i>Ecological Restoration Case Study</i> to prospective universities 	

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WASTE MANAGEMENT PROJECTS

JUNE 1998

Major Work Activities		Enforceable Milestones
Waste Shipping Activities		None
<ul style="list-style-type: none"> • Low Level Waste Shipping <ul style="list-style-type: none"> - Remains suspended; corrective actions resulting from Type B Investigation & associated Corrective Action Plan are being implemented 	<ul style="list-style-type: none"> • Packaging, Certification & Shipping Compliance <ul style="list-style-type: none"> - Hosted Advanced Hazardous Waste Transportation Training (sponsored by DOE National Transportation Program) from 6/9/98 - 6/11/98 	
Mixed Waste Projects		
<ul style="list-style-type: none"> • Neutralization/Precipitation/Deactivation/Stabilization (NPDS) Project <ul style="list-style-type: none"> - Treated 64 drums of waste, for project total of 824 drums • Organic Treatment Project <ul style="list-style-type: none"> - Continued investigation of off-site treatment options & preparation/review of Request for Proposal (RFP) 	<ul style="list-style-type: none"> • Liquid Mixed Waste Project <ul style="list-style-type: none"> - Provided response to Toxic Substance Control Act (TSCA) Incinerator & State of Tennessee regarding British Thermal Unit (BTU) value of Batch #7 (19,000+ gallons mixed waste) - Continued evaluating newly generated waste streams for potential bulking into Batches #9 & #10 	
Nuclear Materials Projects		
<ul style="list-style-type: none"> • Nuclear Materials Disposition (NMD) <ul style="list-style-type: none"> - Issued letter to DOE 6/10/98, recommending 255.9 metric tons uranium weight of low enriched materials be declared waste • Contract for Sale of Low Enriched Materials <ul style="list-style-type: none"> - Loaded first uranium trioxide (UO₃) shipment - Segregated cans of UF₄ to be sampled - Began repackaging of 30 product ingots - Continued shipment of samples for compound analysis 	<ul style="list-style-type: none"> • T-Hopper Project <ul style="list-style-type: none"> - Expanded operation to seven-day work week - Repackaged 12 T-Hoppers in 6/98, for project total of 49 - T-Hopper turner failure on 6/12/98; evaluation performed & actions determined to repair mechanism • Atomic Vapor Laser Isotope Separation Program <ul style="list-style-type: none"> - Began sampling ingots for potential programmatic transfer 	
Waste Minimization/Pollution Prevention Project		
<ul style="list-style-type: none"> • Continued preparations to ship 200, 30-gallon drums of shredded copper for recycling <p>NOTE: See Facilities Closure & Demolition Projects reference material for further information on Recycling Supplemental Environmental Projects June 1998 accomplishments.</p>		

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WASTE MANAGEMENT PROJECTS (CONTINUED)

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60-DAY LOOK AHEAD		
Anticipated Work Activities	Enforceable Milestones	
Waste Shipping Activities		
<ul style="list-style-type: none"> • Low Level Waste Shipping <ul style="list-style-type: none"> - Continue corrective action implementation in support of eventual resumption of shipments to Nevada Test Site (NTS) - NTS Team to perform audit of NTS Corrective Action Reports week of 7/27/98 	<ul style="list-style-type: none"> • Mixed Waste Shipping <ul style="list-style-type: none"> - Identify sampling/container requirements for 150 drums of materials eligible for shipment to Envirocare of Utah, Inc. 	None
Mixed Waste Projects		
<ul style="list-style-type: none"> • NPDS Project <ul style="list-style-type: none"> - Begin treatment of sodium sulfide/sodium hydroxide tank • Organic Treatment Project <ul style="list-style-type: none"> - Finalize RFP Statement of Work - Continue investigating offsite treatment options 	<ul style="list-style-type: none"> • Hazardous Waste/Recycling Project <ul style="list-style-type: none"> - Ship lead-acid batteries & Site Analytical Laboratory "Lab Pack" • Liquid Mixed Waste Project <ul style="list-style-type: none"> - Ship Batches #7 & #8 (newly generated & recharacterized low level waste) to TSCA Incinerator upon State of Tennessee approval - Finalize planning for bulking of Solvent Extraction Project aqueous waste into Batch #9 	
Nuclear Materials Projects		
<ul style="list-style-type: none"> • NMD <ul style="list-style-type: none"> - Continue to screen remaining enriched & normal inventories to determine candidates for waste declaration - Review analytical data on enriched UO₃ & UF₄; prepare material compliance forms & reports in support of contract for sale of low enriched material 	<ul style="list-style-type: none"> • NMD Operations <ul style="list-style-type: none"> - Continue moving drummed UO₃ from Plant 6 to Plant 1 - Complete sampling/restart packaging of < 1.0% UF₄ - Continue search for alternate packaging for shipment of Loss of Fluid Test (LOFT) fuel rods • T-Hopper Project <ul style="list-style-type: none"> - Perform necessary repairs to T-Hopper turner - Resume repackaging operations 	
Waste Minimization/Pollution Prevention Project		
<ul style="list-style-type: none"> • Ship containers of shredded copper for recycling, pending satisfactory completion of audit of vendor's facility • Evaluate proposal from an additional vendor interested in recycling of contaminated scrap metal; review process includes evaluation of new vendor's facility, quality program, regulatory compliance record, etc. 		