

**IMPLEMENTATION PLAN  
TO STOCKPILE SOIL AND DEBRIS  
FROM INFRASTRUCTURE PROJECTS**

**FERNALD ENVIRONMENTAL MANAGEMENT PROJECT  
FERNALD, OHIO**



**JANUARY 9, 2003**

**U.S. DEPARTMENT OF ENERGY  
FERNALD AREA OFFICE**

**60500-PL-0003  
REVISION 1**

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**LIST OF DRAWINGS**

Drawing Number 44A-5500-G-00508                      SP-8 Location

**LIST OF ACRONYMS AND ABBREVIATIONS**

AWWT	Advanced Waste Water Treatment Facility
FEMP	Fernald Environmental Management Project
H	Horizontal
ODNR	Ohio Department of Natural Resources
OSDF	On-Site Disposal Facility
PWID	Project Waste Identification and Disposition Plan
RI/FS	Remedial Investigation/Feasibility Study
SDFP	Soil and Disposal Facility Project
SP-8	Soil Stockpile 8
V	Vertical
WAC	waste acceptance criteria
WAO	Waste Acceptance Organization

## IMPLEMENTATION PLAN TO STOCKPILE SOIL AND DEBRIS FROM INFRASTRUCTURE PROJECTS

### 1.0 INTRODUCTION

#### 1.1 Objectives

The objective of this plan is to establish a location and waste acceptance protocols for stockpiling excess soil and debris that are generated by infrastructure projects (i.e., Wise Services and site labor) at the Fernald Environmental Management Project (FEMP). While most of the soils from these activities can be backfilled or spread in place when the activity is complete, occasionally there are soils that require interim staging pending final disposition. In general, analytical data from Remedial Investigations/Feasibility Studies (RI/FS) or knowledge of past use of the affected areas indicates a high probability that the soils will meet waste acceptance criteria (WAC) for On-Site Disposal Facility (OSDF), pending visual inspection and confirmatory WAC sampling. Providing a consolidated location for stockpiling the excess soil and debris facilitates implementation of proper environmental and WAC controls.

#### 1.2 Scope

The scope of this plan is to site, construct and manage a stockpile that will contain primarily soil, with lesser amounts of debris, and to present the approach that will be used to verify that the materials meet the OSDF WAC. The plan addresses the proposed stockpile location, construction requirements, waste acceptance controls, and routine inspections and maintenance. The proposed stockpile will be referred to hereafter as Stockpile 8 (SP-8).

### 2.0 STOCKPILE LOCATION

The proposed location of SP-8 is in Area 7, east of the planned Silos Project truckwash and laydown area, north of the West Access Road, west and north of the wetland area, and south of the Advanced Waste Water Treatment (AWWT) Facility. Access and egress for the stockpile will be from the West Access Road on the south and the New Connector Road on the east. (See attached drawing number 44A-5500-G-00508.)

### 3.0 STOCKPILE CONSTRUCTION

#### 3.1 Site Preparation

Prior to stockpiling materials at SP-8, silt fence shall be installed around the planned footprint in accordance with Rainwater and Land Development, Ohio Department of Natural Resources (ODNR) requirements. Perimeter fencing shall be installed outside the silt fence. (See attached drawing

number 44A-5500-G-00508.) Any excess soils remaining from these construction activities may be staged, graded and contoured in the SP-8 footprint, if it meets the waste acceptance requirements specified in the balance of this plan.

Access roads to the SP-8 footprint shall be constructed from the West Access Road and the New Connector Road. (See attached drawing number 44A-5500-G-00508.) Yellow placards shall be placed on the fencing, which identify the stockpile name (SP-8), Material Tracking Location designation (AR7-004), WAC status (pending) and a Waste Acceptance Organization (WAO) contact name and telephone number.

### 3.2 Material Generation and Placement

Excavation of material intended for staging at SP-8 shall not commence until a review of RI/FS data and past uses of the project area has been completed, and the results of this review documented in a Project Waste Identification and Disposition Plan (PWID). Only materials identified in the PWID with a disposition location of SP-8 (i.e., anticipated to meet the OSDF WAC) shall be eligible for staging at that location. The final determination of eligibility shall be made by WAO as an integral part of excavation field activities.

Debris that exceeds OSDF size requirements shall be size reduced to comply with material Category 2, 3 or 4, if this can be accomplished with equipment available to the infrastructure project. In the event that adequate equipment is not available, WAO may approve staging of oversized debris at SP-8, to be size reduced later by the Soil and Disposal Facility Project (SDFP) prior to transfer of the material to the OSDF. Any soil or debris material not approved by WAO for SP-8 placement shall be segregated at the project location and provided alternate disposition, in accordance with the PWID. If above-WAC conditions are encountered (e.g., residues) during excavation activities, then transfer of material from the project area to SP-8 is prohibited. Instead, the project area must be characterized via *in situ* sampling.

SP-8 shall be constructed with maximum slopes of 3H:1V and maximum height to base ratio of 0.2, with contouring and compaction completed as an integral component of soil placement. To the extent feasible, discrete debris items shall be segregated from soils and staged separately. A water mist shall be implemented during material placement, as necessary, to prevent fugitive dust.

### 3.3 Environmental Controls

The silt fence, installed prior to initial material placement and in accordance with requirements of Rainwater and Land Development, ODNR, will prevent silting of the wetlands. (See attached drawing number 44A-5500-G-00508.) During periods of inactivity, SP-8 shall be stabilized with an appropriate cover system (e.g., crusting agent, seed mix, tarp) as specified in Appendix F, Section F.7.1 of the Sitewide Excavation Plan (DOE 1998a) to prevent fugitive dust and erosion. The cover system shall be applied within seven calendar days of knowing that the pile will be inactive for 45 days or more.

## 4.0 WASTE ACCEPTANCE CONTROLS

### 4.1 Project Planning

Prior to startup of field activities that involve excavation, WAO shall review analytical data from the RI/FS and information regarding past use of the areas where soils will be disturbed. This information shall be utilized to select appropriate interim staging locations and final dispositions, and documented in the PWID as required by the WAC Attainment Plan for the OSDF (DOE 1998b). Generally, most soils that are disturbed by construction activities performed by infrastructure projects shall be designated in the PWID for backfilling or spreading in place (i.e., at the point of origin) when the project activity is complete. In cases where excess soils will be generated, only those anticipated to meet the OSDF WAC, pending visual inspection and confirmatory sampling, shall be designated in the PWID for staging at SP-8. The PWID shall identify alternate dispositions (e.g., Waste Pits Remedial Action Project) for the balance of the anticipated materials.

### 4.2 Project Execution

During execution of field activities by infrastructure projects, WAO shall implement a daily walk-through of the work area to verify that no OSDF prohibited items (e.g., residues) or probable above-WAC materials are being generated. If above-WAC conditions are encountered, transfer of materials from the project location to SP-8 shall be prohibited, and *in situ* WAC characterization completed by SDFP. During the daily walkthrough, WAO also shall verify that any interim staged material (e.g., pending backfilling) is appropriately sited and silt fence installed in accordance with Rainwater and Land Development, ODNR requirements.

WAO shall be present during load-out and transfer of excess materials to SP-8, to verify absence of OSDF prohibited items. A Field Tracking Log shall be completed that documents the transfer of the material from the source location to SP-8.

#### 4.3 Disposition of SP-8

Prior to excavation of SP-8, the SDFP shall submit a sampling plan, associated analytical results, and an excavation plan to the Ohio Environmental Protection Agency for their approval. WAO shall oversee excavation of the pile, to confirm the absence of prohibited items or conditions. WAO shall ensure that the SDFP size reduces any oversized debris that they allowed infrastructure projects to stage at SP-8. Only materials confirmed to meet the OSDF WAC shall be transferred from SP-8 to the OSDF. WAO shall complete an OSDF Manifest for each load transferred to the OSDF.

#### 5.0 INSPECTIONS AND MAINTENANCE

SP-8 shall be inspected during use as well as during inactive periods to verify the following:

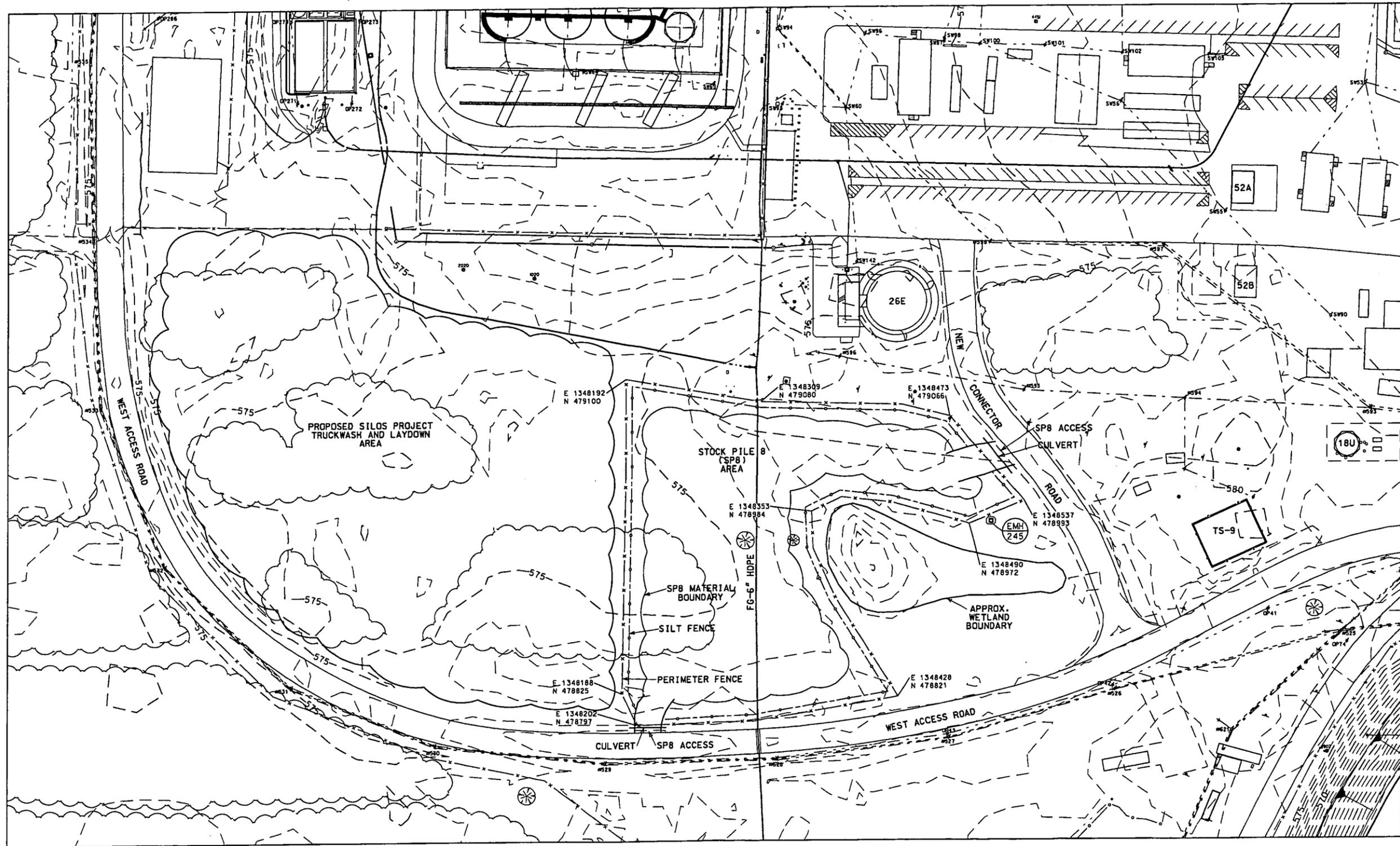
- Perimeter fencing is intact and in good condition
- Silt fences are intact and functional
- Stockpile surface is appropriately contoured and compacted and does not exhibit signs of erosion
- Stockpile signs are in place and legible.

If deficiencies are identified, they shall be corrected in a timely manner, including but not limited to maintenance activities for the perimeter fencing and silt fence; replacement of signs; grading and contouring the stockpile surface; and repairing cover system. Deficiencies with environmental impacts (e.g., breached cover system) or that jeopardize the WAC pedigree (e.g., breached perimeter fencing) shall be identified as a high priority for immediate correction.

#### 6.0 REFERENCES

U.S. Department of Energy, 1998a, "Sitewide Excavation Plan," Final, Fernald Environmental Management Project, DOE, Fernald Area Office, Cincinnati, Ohio.

U.S. Department of Energy, 1998b, "Waste Acceptance Criteria Attainment Plan for the On-Site Disposal Facility," Final, Fernald Environmental Management Project, DOE, Fernald Area Office, Cincinnati, Ohio.



NOTE:  
TREES REMOVED BY OTHERS

NO.	REVISIONS	DATE DWN.	BY APPD.	NO.	REVISIONS	DATE DWN.	BY APPD.	REF. DWG. NO.
				0	ISSUED FOR INFORMATION ONLY	16-01	GES	22A-5500-P-00687

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CONFIGURATION MANAGEMENT DRAWING	<input checked="" type="checkbox"/>
EXISTING STRUCTURES OR COMPONENTS REMOVED FROM THIS DRAWING AND NOT TO BE REINSTALLED	<input type="checkbox"/>
COORDINANT ENGINEER	DATE

APPROVALS	
CIVIL & STR.	SAFETY ENG.
ELECTRICAL	MAINTENANCE
ENGINEER	FIRE PROTECT.
INSTRUMENT	WASTE MANAGE.
MECHANICAL	SECURITY
CHECKED	PROJECTS
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Fernald Environmental  
Management Project  
**FLUOR FERNALD, INC.**  
U.S. DEPARTMENT OF ENERGY

S.W.T.P. (SOUTHWEST TRAILER PARK)  
S.W.T.P.-WEST ACCESS RD. CONNECTOR  
SP-8 LOCATION  
SCALE: 1" = 40'-0"  
RES. 4401  
DATE 12-05-02  
DRAWN G. SCHWARZMAN  
44A-5500-G-00508 0