

C. O. B. O. I

C. O. B. - 02-001



FOSTER WHEELER ENVIRONMENTAL CORPORATION

November 12, 2001
TERC-028.003-01X-042

Mr. Max Pastor, P.E.
U.S. Army Corps of Engineers
201 North Perimeter Road
Cannon AFB, NM 88103

Subject: TERC Contract No. DACW45-94-D-0003, Delivery Order 28, WAD 3
Final Submittal, Remedial Action Completion Report for SWMU 97
Cannon Air Force Base (AFB), New Mexico

Dear Mr. Pastor:

Attached, please find one copy of the final Remedial Action Completion Report for Solid Waste Management Unit 97, formerly Landfill 25 (LF-25), located on Cannon Air Force Base.

Copies of the report have been provided to Tom Zink (USACE-Omaha District), and Cecilia Horner (USACE-Albuquerque District).

If you would like more detailed information or if you have any other questions or concerns, please call me at (505) 878-8901, or Carol Bieniulis at (505) 878-8924.

Sincerely,
Foster Wheeler Environmental Corporation

Walter Migdal, REM
Task Manager

WM/wm
Attachments

cc: D Timmons, Cannon AFB (5 copies)
T. Zink, USACE-Omaha (1 copy)
C. Horner, USACE-Albuquerque (1 copy)
C. Bieniulis, FWENC (1 copy)
R. Juarez, FWENC (1 copy)
W. Migdal, FWENC (1 Copy)



Mr. Max Pastor
November 12, 2001
Page 2

S. Seyedian, FWENC (w/o attachments)
TERC Project File, Denver
TERC File, Albuquerque





BILL RICHARDSON
GOVERNOR

State of New Mexico
ENVIRONMENT DEPARTMENT

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RON CURRY
SECRETARY

CINDY PADILLA
DEPUTY SECRETARY

Not a signed copy
but is original copy
(assigned)

CERTIFIED MAIL - RETURN RECEIPT REQUESTED

May 4, 2007

Colonel Scott D. West
Commander 27th Fighter Wing
100 D.L. Ingram Boulevard, Ste 100
Cannon Air Force Base, New Mexico 88103

**RE: NOTICE OF DISAPPROVAL
FINAL CONSTRUCTION COMPLETION REPORT FOR THE REMEDIAL
ACTION AT SWMU 97 – LANDFILL NO. 25
CANNON AIR FORCE BASE, NEW MEXICO
EPA ID NO. NM7572124454**

Dear Colonel West:

The New Mexico Environment Department (NMED) has received and reviewed the Cannon Air Force Base's (CAFB) *Final Construction Completion Report for the Remedial Action at SWMU 97 – Landfill No. 25* (Report) dated November 2001 and *Remedial Action Work Plan for SWMU 97 – Landfill No. 25* (Work Plan) dated July 2000 (Volumes 1 & 2). NMED has determined that the Report is technically deficient. While NMED does not require resubmission of the entire Report, the Permittee must respond to the comments provided in this letter and supply the requested additional information within 60 days of the receipt of this letter. NMED will reevaluate the report once the requested information is provided.

Comment 1

Section 2.0

Section 2.0 of the Report presents a description and history of SWMU 97; however, this section gives a broader overview of past investigations. The Permittee must add an additional appendix to the Report to include details about the historical sampling events. The appendix must, at a

Colonel West
May 4, 2007
Page 2

minimum, contain maps (or pictures) showing the sampling locations and the laboratory analytical reports for the sampling results. The Permittee must also include references to the additional appendix in section 2.0 of the report.

Although most of this information is present in the *Petition for No Further Action for Landfill No.3 (LF-03/SWMU 105)*, *Landfill No.4 (LF-04/SWMU 104)* and *Land fill No.25 (LF-25/SWMU 97)* dated May 2006 provided by CAFB as supplemental information, NMED requires CAFB to submit the actual Laboratory reports for the historic sampling events conducted at this site. The table of results generated by CAFB is not sufficient.

Comment 2 Section 3.0

Section 3.0 of the Report states that *“Native Soil Cover/Debris Consolidation – The remaining exposed debris was consolidated to the extent possible, and 4 to 6 inches of on-site native soil was used as cover”*.

The passage does not describe the type of debris and what was done to the debris that would constitute consolidation. The Permittee must clearly explain the type of debris and the meaning of the term *“consolidated”* in the sentence.

Please contact Swarna Latha Vonteddu at (505) 476-6057 should you have any questions.

Sincerely,

James P. Bearzi
Chief
Hazardous Waste Bureau

JPB: sv

cc: J. Kieling, NMED HWB
 Dave Cobrain, NMED HWB
 C. Frischkorn, NMED HWB
 L. King, EPA Region 6 (6PD-N)
 K. Doll, CAFB
 File: CAFB 2007 and Reading
 CAFB-06-003

Vonteddu, Swarna, NMENV

From: Vonteddu, Swarna, NMENV
Sent: Wednesday, July 09, 2008 9:55 AM
To: 'paigewalton@msn.com'
Cc: Cobrain, Dave, NMENV
Subject: Cannon Air Force Base - SWMU 97/Landfill 25

Hi Paige:

I will be sending you Cannon's Final Construction Completion Report for the Remedial Action at SWMU 97/Landfill # 25 dated November 2001 and also the revised version of it dated 2007. Can you please review risk part of the document by mid August. You should be receiving this document early next week. Let me know if you have any question regarding this document.

Thanks

Swarna

Direct office phone: 505-476-6057
Fax: 505-476-6030 or 505-476-6060
Main HWB phone: 505-476-6000

7/9/2008

#119

~~CAFB 02-004~~

LIBRARY COPY

CAFB-06-003

**Final Construction Completion Report for the
Remedial Action at SWMU 97-Landfill No. 25
Cannon Air Force Base, New Mexico**

November 2001



Prepared for:

**27 CE/CEV
Cannon Air Force Base
New Mexico**



Project Number: CZQZ20007025

**CONSTRUCTION COMPLETION REPORT FOR THE
REMEDIAL ACTION AT SWMU 97—LANDFILL NO. 25
CANNON AIR FORCE BASE, NEW MEXICO**

Prepared for:

27 CE/CEV
Cannon Air Force Base, NM
and
HQ ACC/CEV
Langley Air Force Base, VA

Prepared by:

Foster Wheeler Environmental Corporation
6605 Uptown Boulevard, Suite 220
Albuquerque, New Mexico 87110

Under Contract No. DACW45-94-D-0003
Delivery Order No. 28, Work Authorization Directive 3
Project Number: CZQZ20007025

U.S. Army Corps of Engineers
Omaha District
Omaha, Nebraska

November 2001

CONTENTS

<u>Section</u>	<u>Page</u>
1.0 INTRODUCTION AND PURPOSE	1
2.0 SITE HISTORY	1
2.1 CANNON AFB DESCRIPTION AND HISTORY	1
2.2 SWMU 97 DESCRIPTION AND HISTORY	1
3.0 PROJECT DESCRIPTION	2
3.1 CONSTRUCTION ACTIVITIES	9
3.1.1 <u>Tree Trimming and Removal</u>	9
3.1.2 <u>ACM Removal Activities</u>	9
3.1.3 <u>Grading and Drainage Construction</u>	9
3.1.4 <u>Separate and Haul Concrete</u>	9
3.1.5 <u>Concrete Crushing</u>	9
3.1.6 <u>Native Soil Cover/Debris Consolidation</u>	9
3.1.7 <u>Fill Material</u>	9
3.1.8 <u>Site Revegetation</u>	9
3.2 CONSTRUCTION DOCUMENTATION	9
3.2.1 <u>Record Drawings</u>	9
3.2.2 <u>Inspections</u>	10
3.2.3 <u>Field Change Requests</u>	10
3.2.4 <u>Manufacturers Certification</u>	10
3.2.5 <u>Laboratory Testing</u>	10
3.2.6 <u>Site Inspection and Quality Control Reporting</u>	10
3.2.7 <u>Nonconformance</u>	10
3.2.8 <u>Site Photographs</u>	10
3.2.9 <u>Certified Payroll</u>	10
3.3 REGULATORY FRAMEWORK	10
3.3.1 <u>Permit Requirements</u>	10
The following permits were evaluated for construction activities at SWMU 97	10
3.3.3 <u>Regulatory Requirements</u>	11
3.4 PROJECT WASTE DESCRIPTIONS	11
3.4.1 <u>Asbestos-Containing Material Debris</u>	12
3.4.2 <u>Concrete Debris</u>	12
3.4.3 <u>Demolition Debris</u>	12
3.4.4 <u>Personal Protective Equipment</u>	12
3.5 WASTE MANAGEMENT ACTIVITIES	12
3.5.1 <u>Waste Minimization</u>	12
3.5.2 <u>Waste Containerization and Storage</u>	12
3.6 REPORTING SPILLS AND RELEASES	12
3.7 TRAINING/CERTIFICATION REQUIREMENTS	12
3.8 RECORDS RETENTION OF WASTE	13
3.9 UPDATING THE REGULATORY COMPLIANCE PLAN	13
4.0 QUALITY ASSURANCE PROJECT PLAN	13
5.0 HEALTH AND SAFETY	13
6.0 INSPECTION AND MAINTENANCE	13
7.0 REFERENCES	14

APPENDICES

Appendix A	Site Inspections
Appendix B	Field Change Requests
Appendix C	Site Photographs
Appendix D	NPDES Permit
Appendix E	Waste Manifests
Appendix F	Submittals and Certifications

LIST OF FIGURES

<u>Figure</u>		<u>Page</u>
1	Cannon AFB Location Map	3
2	SWMU 97 Pre-Construction Contours.....	5
3	SWMU 97 Post-Construction Contours (Record Drawing)	7

LIST OF ACRONYMS

ACM	asbestos-containing material
AFB	Air Force Base
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act
CFR	Code of Federal Regulations
cy	cubic yards
DOT	U.S. Department of Transportation
DQCR	daily quality control report
DRMO	Defense Re-Utilization and Marketing Office
EPA	U.S. Environmental Protection Agency
FCR	field change request
Foster Wheeler Environmental	Foster Wheeler Environmental Corporation
ft	foot, feet
HASP	Health and Safety Plan
HWMR	Hazardous Waste Management Regulations
IRP	Installation Restoration Program
ISO	International Organization for Standardization
NMAC	New Mexico Administrative Code
NOI	Notice of Intent
NPDES	National Pollutant Discharge Elimination System
OSHA	Occupational Safety and Health Administration
PCS	petroleum-contaminated soil
PPE	personal protective equipment
QAPP	Quality Assurance Project Plan
QC	quality control
SSHP	Site-Specific Health and Safety Plan
SVOC	semivolatile organic compound
SWMR	Solid Waste Management Regulations
SWMU	Solid Waste Management Unit
SWPPP	Stormwater Pollution Prevention Plan
TERC	Total Environmental Restoration Contract
TSDF	treatment, storage, and disposal facility
USACE	U.S. Army Corps of Engineers

1.0 INTRODUCTION AND PURPOSE

This Construction Completion Report for Solid Waste Management Unit (SWMU) 97, was prepared by Foster Wheeler Environmental under the Total Environmental Restoration Contract (TERC) No. DACW45-94-D-0003, Delivery Order No. 28, Work Authorization Directive 3, Project Number CZQZ20007025. This Report documents the construction services conducted for the remedial action at SWMU 97 (formerly Landfill-25) at Cannon Air Force Base (AFB), New Mexico. Foster Wheeler Environmental Corporation (Foster Wheeler Environmental), at the direction of the U.S. Army Corps of Engineers (USACE) Omaha District and Cannon AFB, removed and disposed of exposed asbestos-containing material (ACM), crushed and removed visible concrete, and regraded and revegetated the site. Construction oversight was provided by USACE, Albuquerque District personnel located at Cannon AFB.

2.0 SITE HISTORY

The following sections describe the history of Cannon AFB and SWMU 97.

2.1 CANNON AFB DESCRIPTION AND HISTORY

Cannon AFB occupies approximately 4,000 acres south of U.S. Highway 60/84 in Curry County, New Mexico, and is located six miles west of the city of Clovis, near the New Mexico-Texas border (Figure 1). The area surrounding Cannon AFB is used mainly for farming and ranching. Cannon AFB also maintains several satellite facilities.

In 1942, the Department of Defense established Clovis Army Air Base, a training facility for B-17, B-24, and B-29 aircrews. The base was renamed Clovis Army Airfield in 1945 and was closed in 1947. In 1951, the facility was reactivated and reassigned to the Tactical Air Command, and it was renamed Cannon Air Force Base in 1957. In 1975, the 27th Tactical Fighter Wing became the principal Air Force unit at Cannon AFB. In 1992, the Base was reassigned to the Air Combat Command. It currently maintains a combat-ready force and provides replacement training of combat aircrews for worldwide tactical organizations.

2.2 SWMU 97 DESCRIPTION AND HISTORY

SWMU 97 is located in the east-central portion of Cannon AFB, bounded by a road leading to the ordnance area to the north, a road leading to the north side of Playa Lake to the south, the ordnance area to the east, and Perimeter Road to the west. The landfill is nearly rectangular in shape, measuring approximately 29 acres, with dimensions approximately 650 feet (ft) by 1,950 ft (Figure 2).

From approximately 1945 through the 1980s, SWMU 97 was used as a waste disposal site, and it is unknown when disposal activities ceased. After World War II, construction demolition debris was disposed at the landfill. The debris consisted of concrete, wood, asbestos tiles, metal, transite (asbestos) and cement pipe, and asphalt mixed with soil. Prior to this remedial action, debris extended approximately 3 to 4 ft above natural grade over most of the site, reaching a maximum height of approximately 15 ft above the natural grade at the north end of the site.

SWMU 97 was investigated during the Phase IV investigation of an adjacent SWMU. Information from the investigation involved minimal landfill sampling. Two soil borings were sampled, and low levels of pesticides were detected at shallow depths. In 1992, metals concentrations below maximum contaminant levels were detected in a monitoring well sample (Woodward-Clyde, 1992).

In December 1990, the USACE performed a site environmental assessment. Trenches were excavated at nine locations and waste and native soil samples were collected for laboratory analysis. Excavation revealed the majority of the material in the rubble pile was airfield pavement and subgrade material. The second most prevalent waste found was building demolition rubble. The third type of waste encountered was glass, metal, cinders, ash, and other burned material in what appeared to be burn trenches (USACE,

1991). Low level of metals (barium, mercury, and cadmium) and one semivolatile organic compound (SVOC) (benzidine) were detected in the trench samples (USACE, 1991).

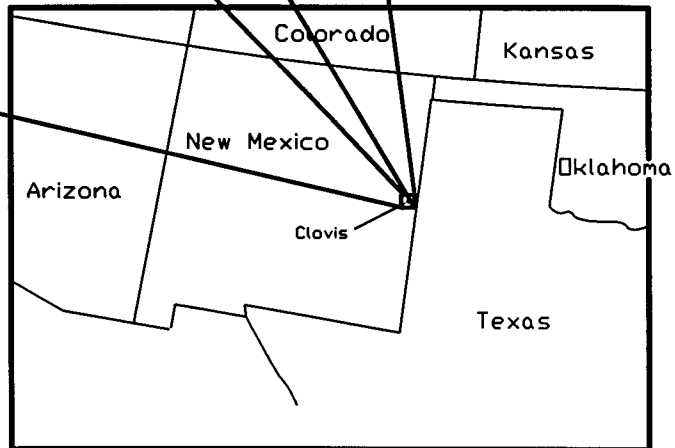
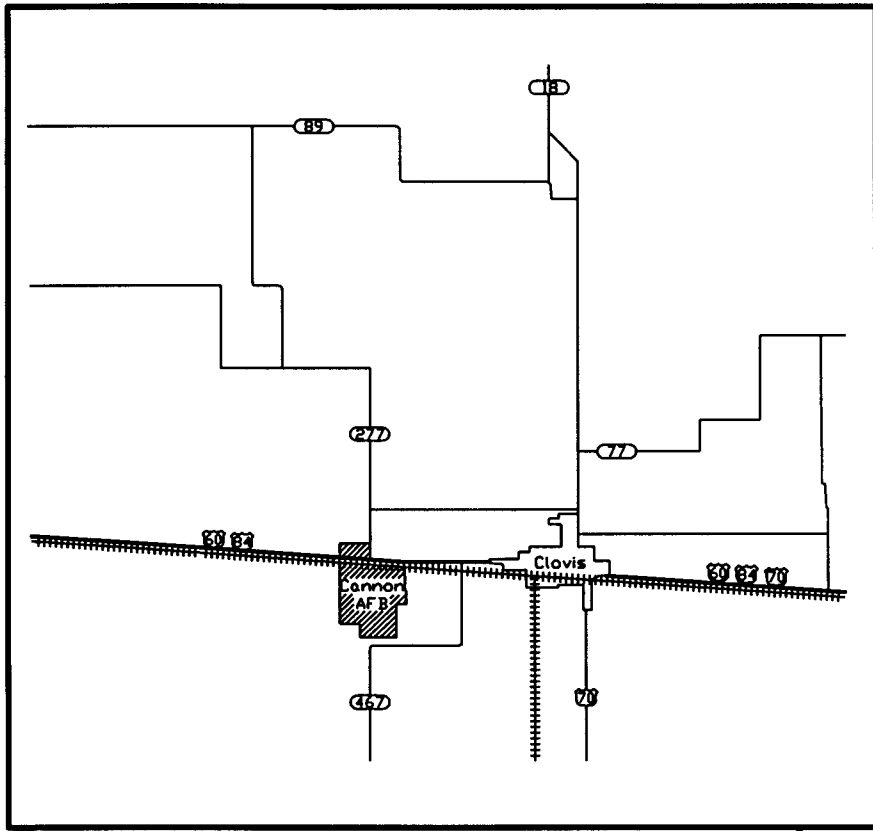
→ In 1992, an additional site characterization was performed and 139 field samples were collected. One soil sample exceeded the action level for lead and one soil sample exceeded regulatory carcinogenic action levels for benzo(a)pyrene and benzo(b)fluoranthene. All results for organic compounds were below regulatory noncarcinogenic soil action levels.

Based on a site walk-through and visual inspection conducted in August 2000, exposed ACM was identified as non-friable. The ACM consisted of intact transite pipe, transite siding, and roofing material. In August 2000, Foster Wheeler Environmental prepared a Remedial Action Work Plan and began field work on September 25, 2000. Major field activities were completed by January 5, 2001; and revegetation was completed by June 12, 2001.

3.0 PROJECT DESCRIPTION

Construction activities began on June 26, 2000 with the site survey. Mobilization for site construction began on September 25, 2000. The following task summaries were accomplished during the construction period:

- Site Survey—For design and planning, a site topographic and content survey was performed to identify the general location, approximate volume, and types of exposed debris. The topographic information was used to develop a grading and drainage plan.
- Tree Removal and Trimming—To construct access roads and retrieve exposed debris, trees and limbs were trimmed and/or removed and then cut on site into chips, which were used with other recycled materials to form mulch for vegetation.
- ACM Separation, Transportation and Disposal—All exposed ACM was separated, transported, and disposed at a permitted disposal facility.
- Separate and Haul Concrete—Clean, salvageable, exposed concrete was separated and moved to the concrete crushing plant. No excavation of material was performed.
- Concrete Crushing—A concrete crushing plant was operated and maintained producing 4-inch diameter, or smaller, concrete material that was stockpiled on site for future use.
- Native Soil Cover/Debris Consolidation—The remaining exposed debris was consolidated, to the extent possible, and 4 to 6 inches of on-site native soil was used as cover.
- Grading and Drainage Construction—Runon/runoff control ditches were constructed around the site and civilian perimeter. Best-management practices for temporary soil erosion and sediment control were used during construction. The final topography of the site employed natural depressions and contouring to keep surface water on site and prevent runoff.
- Site Revegetation—The entire site was revegetated with native grasses.
- Final Survey—A topographic survey of the final site contours and features was performed and is presented as the Record Drawing for SWMU 97 (Figure 3).



Not Drawn to Scale

FOSTER  WHEELER
ENVIRONMENTAL CORPORATION



Construction Completion Report
SWMU 97
Cannon Air Force Base, New Mexico
U.S. Army Corps of Engineers, Omaha District

Location of
Clovis, New Mexico

Date: 2/21/01

File Name: CCRsite1

Figure 1

