

FY2008

FORT WINGATE DEPOT ACTIVITY

**Base Realignment & Closure
Installation Action Plan**

Printed 19 November 2008

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Statement of Purpose

The purpose of the Base Realignment and Closure (BRAC) Installation Action Plan (BIAP) is to outline the total multi-year cleanup program for an installation. The plan identifies environmental cleanup requirements at each site or area of concern (AOC), and proposes a comprehensive, installation-wide approach, along with costs and schedules associated with conducting investigations and taking necessary remedial actions (RA).

The Army completed a BIAP for Fort Wingate Depot Activity (FWDA) in an effort to coordinate planning information between the restoration manager, the US Army Environmental Command (USAEC), BRAC Division, the US Army Corps of Engineers (USACE), the New Mexico Environment Department (NMED), the US Environmental Protection Agency (USEPA), the Navajo Nation, and the Pueblo of Zuni. The BIAP is used to track requirements, schedules and tentative budgets for all Army installation cleanup programs.

All site-specific funding and schedule information has been prepared according to projected overall Army funding levels and is, therefore, subject to change. All future phase dates are based on funding requirements and not programming and are subject to change when programming occurs.

Acronyms

AEDB-R	Army Environmental Database - Restoration
AOC	Area of Concern
BCT	BRAC Cleanup Team
BEC	BRAC Environmental Coordinator
BIA	Bureau of Indian Affairs
BIAP	BRAC Installation Action Plan
BMDO	Ballistic Missile Defense Office
BRAC	Base Realignment and Closure
BRACD	BRAC Division
CERCLA	Comprehensive Environmental Response, Compensation and Liability Act of 1980
CFP	Closure Field Program
CM	Corrective measure
CMI	Corrective Measures Implementation
CMI(C)	Corrective Measures Implementation - Construction
CMS	Corrective Measures Study
COC	Contaminants of Concern
CRP	Community Relations Plan
CTC	Cost-to-Complete
cy	cubic yards
DOD	Department of Defense
DOI	Department of Interior
DRMO	Defense Reutilization and Marketing Office
FTE	Full Time Employee
FTWG	Fort Wingate
FWDA	Fort Wingate Depot Activity
FWLC	Fort Wingate Launch Complex
GIS	Geographic Information System
GW	Groundwater
HMX	Cyclotetramethylenetetranitramine
HWMU	Hazardous Waste Management Unit
ICM	Interim Corrective Measure
IRA	Interim Remedial Action
IRP	Installation Restoration Program
K	Thousand
LTM	Long-term Management
MD	Munitions Debris
MDA	Missile Defense Agency
MEC	Munitions and Explosives of Concern
mm	millimeters
MMRP	Military Munitions Response Program
N/A	Not Applicable
NFA	No Further Action
NMED	New Mexico Environmental Division
OB/OD	Open Burning/Open Detonation
OD	Open Detonation

Acronyms

PA	Preliminary Assessment
PBC	Performance Based Contract
PCB	Polychlorinated Biphenyl
POL	Petroleum, Oil & Lubricants
ppb	parts per billion
ppm	parts per million
PQL	Practical Quantitation Limit
QA	Quality Assurance
RA	Remedial Action
RAB	Restoration Advisory Board
RAR	Release assessment report
RCRA	Resource Conservation and Recovery Act
RDX	Cyclotrimethylenetrinitramine
RFA	RCRA Facility Assessment
RFI	RCRA Facility Investigation
RI	Remedial Investigation
SVOC	Semi-volatile Organic Compound
SWMU	Solid Waste Management Unit
TCP	Traditional Cultural Property
TEAD	Tooele Army Depot
TNT	Trinitrotoluene
USACE	US Army Corps of Engineers
USAEC	US Army Environmental Command
USATCES	US Army Technical Center for Explosives Safety
USEPA	US Environmental Protection Agency
UST	Underground Storage Tank
VOC	Volatile Organic Compound
WWII	World War II

Site Alias List

AEDB-R Site ID to Alias List

AEDB-R #	Alias
FTWG-001-R-01	Parcel 16
FTWG-002-R-01	Parcel 3
FTWG-003-R-01	Parcel 20
FTWG-01	Parcel 21
FTWG-07	Parcel 13
FTWG-10	Parcel 7
FTWG-11	Parcel 11,12
FTWG-12	Parcel 18
FTWG-15	Parcel 14
FTWG-18	Parcel 5
FTWG-21	Parcel 24
FTWG-26	Parcel 9
FTWG-27	Parcel 19
FTWG-28	Parcel 2
FTWG-30	Parcel 23
FTWG-36	Parcel 10
FTWG-38	Parcel 22
FTWG-42	Site-wide
FTWG-49	Parcel 4
FTWG-63	Parcel 6

Installation Information

Installation Locale

BRAC Round: BRAC I

Installation Size (Acreage): 21,131.00

Retained by Component (Acreage): 6,465.00

BRAC Acreage: 14,666.00

Acres being transferred to another service: 0.00

Acres being transferred to other federal agencies: 0.00

Acres being transferred to non-federal agencies: 0.00

City: Gallup

County: McKinley

State: New Mexico

Other Locale Information

FWDA currently occupies 15,280 acres of land in northwestern New Mexico, in McKinley County. The installation is located eight miles east of Gallup (population 20,209) on US Route 66 and approximately 130 miles west of Albuquerque on Interstate 40. McKinley County has a population of 74,798, comprised of 74% Native American, 15% White, and 11% Hispanic. McKinley County, located on the Colorado Plateau, is primarily rural, with small villages scattered among large tracts of state, Tribal, and federal lands. Gallup has a varied base of service, government, mining and refinery industries, and Native American jewelry production. Tourism attracts thousands of visitors annually, and Native American culture yields a significant economic influence. Small manufacturing includes printing, sheet metal products, food products, pinon nut gathering, and cattle and sheep by-products. Heavier manufacturing includes gasoline refining, a natural gas compressor station, and coal mining. The natural resource base includes uranium reserves and coal.

The installation is almost entirely surrounded by federally owned or administered lands, including both national forest and Tribal lands. North and west of FWDA are Navajo Tribal trust and allotted lands. Bureau of Indian Affairs (BIA) administered lands lie east of FWDA. Development north of FWDA includes Red Rock State Park, a Zuni railroad siding, an El Paso Natural Gas fractioning plant and housing area, the Navajo community of Church Rock, and transportation corridors for Interstate 40, US Highway 66, and the Burlington, Northern, and Santa Fe Railroad. The town of Fort Wingate, located immediately east of FWDA on BIA administered land, was the original Fort Wingate headquarters site. To the south and southeast is the largely undeveloped Cibola National Forest. The land to the west is mostly undeveloped and is Tribal trust and allotment land administered by BIA, the Navajo Nation, and individual Native American allottees.

Parcels 1, 15, and 17, totaling 5,854 acres, have already been transferred to the Department of Interior (DOI).

List of Off-Post Properties

N/A

Environmental Condition of Property

BRAC Round: BRAC I

	CERCLA	MMRP
Acres in Category 1:	7,197.00	0.00
Acres in Category 2:	0.00	0.00
Acres in Category 3:	0.00	0.00
Acres in Category 4:	0.00	0.00
Acres in Category 5:	0.00	0.00
Acres in Category 6:	7,469.00	2,678.00
Acres in Category 7:	0.00	0.00

Lead Organization

Base Realignment and Closure Division

Lead Executing Agencies for Installation

USACE, Fort Worth District

Installation Information

Regulator Participation

Federal USEPA, Region VI
State NMED

BRAC Closure Round: BRAC I - Base Realignment And Closure 1988

Status of Redevelopment Initiative (Reuse Plan)

Redevelopment Plan Date: 200509

Organization Name: None

Existing Legal Agreements/Interim Leases

Parcel Name	Actual Lease/License Date	Length of Lease/License	Licensee
N/A			

Significant Base Tenants

US Department of Agriculture
Missile Defense Agency

Projected Date of Final Transfer of Property: 202009

National Priorities List (NPL) Status

No NPL Sites have been identified

Installation Restoration Advisory Board (RAB)/Technical Review Committee (TRC)/Technical Assistance for Public Participation (TAPP) Status

RAB established 1994

Installation Program Summaries

BRAC-IRP

Primary Contaminants of Concern: Asbestos, Explosives, Metals, Munitions and explosives of concern, Perchlorate, Pesticides, Polychlorinated Biphenyls, Polycyclic Aromatic Hydrocarbons, Semi-volatiles, Volatiles, White Phosphorous

Affected Media of Concern: Groundwater, Sediment, Soil, Surface Water

BRAC-MMRP

Primary Contaminants of Concern: Explosives, Metals, Munitions and explosives of concern, Munitions constituents, Perchlorate, Pesticides, Polychlorinated Biphenyls, Polycyclic Aromatic Hydrocarbons, Semi-volatiles, Volatiles

Affected Media of Concern: Groundwater, Sediment, Soil, Surface Water

Installation Information

BRAC-Compliance

Primary Contaminants of Concern:

Affected Media of Concern:

Previous Studies

	Title	Author	Date
1968	History of Ft Wingate Depot Forts Fauntleroy and Lyon	US Army DARCOM	APR-1968
1971	Administrative Record, Document No 71-2 Drilling and Testing of Well 69, Fort Wingate Army Depot, McKinley County, New Mexico Open File Report	J. W. Mercer and E. G. Lappala U.S. Geological Survey in cooperation with Fort Wingate Army Depot	NOV-1971
1980	Administrative Record, Document No. 80-1 Final Report Installation Assessment of FWDA, Gallup, New Mexico, Report No. 136	U.S. Army Toxic and Hazardous Materials Agency	JAN-1980
1981	Administrative Record, Document No. 80-2 Army Pollution Abatement Program Study, Hazardous Waste Management Consultation, Fort Wingate Depot Activity, Gallup, New Mexico (Re: Groundwater Monitoring Requirements at the TNT Wastewater Leaching Beds)	U.S. Army Environmental Hygiene Agency	MAY-1981
	Administrative Record, Document No. 80-3 Final Report Environmental Survey of Ft. Wingate Depot Activity, Gallup, New Mexico	Environmental Science and Engineering Inc.	SEP-1981
	Environmental Survey	Installation	SEP-1981
1982	Administrative Record, Document No. 80-4 Installation Environmental Assessment, Tooele Army Depot - Fort Wingate Depot Activity Gallup, New Mexico	Inland Pacific Engineering Company Haworth and Anderson, Inc.	DEC-1982
1984	Administrative Record, Document No. 80-5 Final Report Fort Wingate Depot Activity, Gallup, New Mexico A Cultural Resources Overview and Management Plan for the Fort Wingate Depot Activity	C.D. Breternitz and L.R. Ash Soil Systems, Inc.	OCT-1984
1988	Administrative Record, Document No. 80-7 Master Plan Report Fort Wingate Depot Activity, Gallup, New Mexico	Higginbotham and Associates, P.C.	MAR-1988
	Administrative Record, Document No. 80-8 Interim Final Report Ground-Water Contamination Survey No. 38-26-0307-89, Evaluation of Solid Waste Management Units, Fort Wingate Depot Activity, Gallup, New Mexico	U.S. Army Environmental Hygiene Agency	JUL-1988
1989	Administrative Record, Document No. 80-9 Fort Wingate DA, Gallup, New Mexico, Investigation and Evaluation of Underground Storage Tanks	U.S. Army Corps of Engineers, Omaha District	SEP-1989
1990	Administrative Record, Document No. 90-1 Enhanced Preliminary Assessment Report: Fort Wingate Depot Activity, Gallup, New Mexico	Argonne National Laboratory	MAR-1990
	Geohydrologic Study	Installation	APR-1990
	Administrative Record, Document No. 90-2 Fort Wingate Depot Activity, Gallup, New Mexico, Geohydrologic Study No. 38-26-8916-90, (Re: Storage Yard West of Administration Area)	U.S. Army Environmental Hygiene Agency	APR-1990
	Abstract Report containing analysis of Historical Aerial Photography of FWDA	David Dodge and Douglas Stiles, Imagery Analysts, The Bionetics Corp, Warrenton, VA	AUG-1990
	RFA - RCRA Facility Assessment, Identified SWMUs	Installation	SEP-1990
	Administrative Record, Document No. 90-3 Fort Wingate Depot Activity, NM6213820974, Gallup, New Mexico RCRA Facility Assessment Report	PRC Environmental Management, Inc.	SEP-1990
	Administrative Record, Document No. 90-4 Final Asbestos Survey Report for Fort Wingate Defense Activity, Gallup, New Mexico, Volume II, Book 1	Pickering Environmental Consultants, Inc.	NOV-1990
	Administrative Record, Document No. 90-5 Final Asbestos	Pickering Environmental	NOV-1990

Previous Studies

	Title	Author	Date
1990	Survey Report for Fort Wingate Defense Activity, Gallup, New Mexico, Volume III, Book 1	Consultants, Inc.	
	Administrative Record, Document No. 90-6 Final Asbestos Survey Report for Fort Wingate Defense Activity, Gallup, New Mexico, Volume III, Book 2	Pickering Environmental Consultants, Inc.	NOV-1990
	Administrative Record, Document No. 90-7 Final Asbestos Survey Report for Fort Wingate Defense Activity, Gallup, New Mexico, Volume III, Book 3	Pickering Environmental Consultants, Inc.	NOV-1990
	Administrative Record, Document No. 90-8 Final Asbestos Survey Report for Fort Wingate Defense Activity, Gallup, New Mexico, Volume IV, Book 1	Pickering Environmental Consultants, Inc.	NOV-1990
	Administrative Record, Document No. 90-9 Final Asbestos Survey Report for Fort Wingate Defense Activity, Gallup, New Mexico, Volume IV, Book 2	Pickering Environmental Consultants, Inc.	NOV-1990
	Administrative Record, Document No. 90-10 Master Environmental Plan: Fort Wingate Depot Activity, Gallup, New Mexico	Argonne National Laboratory	DEC-1990
	1991	Administrative Record, Document No. 91-3 Memorandum of Agreement - Between the Department of the Army, The Advisory Council on Historic Preservation, and the New Mexico State Historic Preservation Officer, Concerning Closure and Disposal of FWDA, NM	Inquiries regarding this Document and/or the Administrative Record for Fort Wingate Depot Activity should be made to: Commander, Tooele Army Depot, Tooele, Utah 84074
Final Environmental Impact Statement Base Realignment and Closure Base Realignment and Closure, Fort Wingate Depot Activity, Navajo Depot Activity, Umatilla Depot Activity, Hawthorne Army Ammunition Plant		Department of the Army	AUG-1991
1992	Management and Resource Utilization Plan for Developing Environmental Investigation (EI) Work Plans and Environmental Investigation (EI) Work Plans for Areas Requiring Environmental Evaluation at Fort Wingate Depot Activity (FWDA)	Metcalf & Eddy, Inc.	JUN-1992
	Environmental Investigation	Installation	AUG-1992
	Administrative Record, Document No. 92-4 Final Technical Plan for the Environmental Investigation (EI) at Fort Wingate Depot Activity (FWDA), Gallup, New Mexico	Metcalf & Eddy, Inc.	NOV-1992
	Administrative Record, Document No. 92-3 Final Sampling and Analysis Plan: Volume I - Field Sampling Plan, Volume II - Quality Assurance Project Plan for the Environmental Investigation (EI) at Fort Wingate Depot Activity (FWDA), Gallup, New Mexico	Metcalf & Eddy, Inc.	NOV-1992
	Administrative Record, Document No. 92-2 Final Health and Safety Plan for the Environmental Investigation (EI) at Fort Wingate Depot Activity, Gallup, New Mexico	Metcalf & Eddy, Inc.	NOV-1992
1993	Administrative Record, Document No. 92-5 FWDA Final Supplemental Health & Safety Plan - Field Investigation, Preparation of RI/FS Report, and Accelerate Transfer of the SW Property, Igloo Blocks A, B and C and the Ballistic Missile Site Areas	Environmental Resources Management	DEC-1992
	Administrative Record, Document No. 93-1 Underground Storage Tank Closure, FWDA, Fort Wingate, NM	ENVIROTECH, Inc.	FEB-1993
	Administrative Record, Document No. 93-2 Final Fort Wingate Depot Activity, Resource Conservation and Recovery Act Interim Status Closure Plan	Environmental Resources Management	MAR-1993

Previous Studies

	Title	Author	Date
1993	Administrative Record, Document No. 93-5 Final Report FWDA Public Involvement and Response Plan (PIRP)	Dames & Moore	NOV-1993
1994	Base Realignment and Closure (BRAC) Cleanup Plan Version 1 & 2	The Earth Technology Corporation	MAR-1994
	EBS1 - Environmental Baseline Study-BRAC I, ENV BASELINE SURVEY	Installation	APR-1994
	Administrative Record, Document No. 94-1 Final Report FWDA, Community Environmental Response Facilitation Act (CERFA)	Environmental Resources Management	APR-1994
	Administrative Record, Document No. 94-2 FWDA Resource Conservation and Recovery Act Modification to Final Interim Status Closure Plan	Environmental Resources Management	MAY-1994
	Theater Missile Defense Extended Test Range, Final Environmental Impact Statement Vol I & II	U.S. Army	NOV-1994
	Administrative Record, Document No. 94-6 Cultural Resources Inventory of FWDA, Executive Summary	R.C. Chapman, C.L. Daniel, and J. A. Schutt, Office of Contract Archeology, University of New Mexico	DEC-1994
	Administrative Record, Document No. 94-5 Final Report FWDA Unexploded Ordnance (UXO) Survey Report	Environmental Resources Management	DEC-1994
1995	Administrative Record Document No. 95-1, Final Work Plan for UXO Surface Clearance & Sampling Project Fort Wingate Depot Activity, New Mexico	UXB International, Inc.	JAN-1995
	Administrative Record, Document No.95-2 Supplemental Investigation for Project Nos. 93-020, 93-021, & 93-025 FWDA, (Supplemental Investigation at the Pistol Range, Former Deactivation Furnace, and Building 5)	U.S. Army Corps of Engineers, Albuquerque District	FEB-1995
	TPL Inc. Ft Wingate Buildings 528, 550, 551, and S.E. Magazine Baseline Sampling Project Report	IT Corporation, Albuquerque, NM	FEB-1995
	Administrative Record, Document No. 95-4, State of New Mexico Environmental Department, Review of On-Site Investigation at the Fort Wingate Depot Activity Administration Area, Gallup, New Mexico, (Ground Water Monitoring Requirement Letter, Building 6 UST Area)	New Mexico Environmental Department, Underground Storage Tank Bureau	APR-1995
	Administrative Record, Document No. 95-5, Fort Wingate Depot Activity, Gallup, New Mexico, Base Realignment and Closure (BRAC) Cleanup Plan Draft Version 2	Earth Tech	APR-1995
	Administrative Record, Document No. 95-6, Final Report Fort Wingate Depot Activity, Gallup, New Mexico, Public Meeting, Removal of Ordnance from Property Adjacent to Fort Wingate	Paul Baca Professional Court Reporters	APR-1995
	Administrative Record, Document No. 95-7, Fort Wingate Depot Activity, Gallup New Mexico, Work Plan for Groundwater Monitoring Program at Ust Bldg. 6 Area	US Army Corp of Engineers, Albuquerque District	JUN-1995
	Archives Search Report, Defense Environmental Restoration Program for Property Owned by the Department of Defense Ordnance and Explosive Waste Chemical Warfare Materials	US Army Corps of Engineers St. Louis District	JUL-1995
	Administrative Record, Document No. 95-11, Report for Ordnance & Explosive Waste (OEW) UXO Surface Clearance & Sampling Project, Fort Wingate Depot Activity, Books 1 through 5	UXB International, Inc.	JUL-1995
	Final Environmental Assessment, Disposal of a Portion of FWDA	US Army Corps of Engineers Mobile District	AUG-1995
	FWDA Technical Plan Public Involvement and Resource Plan (PIRP) ELIN A004	Environmental Resources Management,	AUG-1995

Previous Studies

Year	Title	Author	Date	
1995		Inc.		
	Final FWDA Lead-Based Paint Sampling Work Plans	Environmental Resources Management, Inc.	SEP-1995	
	Draft Final FWDA OB/OD Areas Closure Field Program Technical Plan, ELIN A004	Environmental Resources Management, Inc	SEP-1995	
	Administrative Record, Document No 95-9, OE Sampling & Removal Action Work Plan (with Change 2: September 27, 1995), Fort Wingate, New Mexico	CMS Environmental Restoration Group	SEP-1995	
	Administrative Record Document No 95-10, First Quarterly Report on Groundwater Monitoring at UST Building 6 Area Fort Wingate Depot Activity, New Mexico	US Army Corps of Engineers, Albuquerque District	NOV-1995	
	Administrative Record, Document No. 95-13, Second Quarterly Report on Ground Water Monitoring at UST Bldg 6 Area, Fort Wingate Depot Activity, New Mexico	US Army Corps of Engineers, Albuquerque District	DEC-1995	
	Administrative Record, Document No. 95-15 Final Report FWDA Addendum to the Final Supplemental Health and Safety Plan	Environmental Resources Management, Inc.	DEC-1995	
1996	Administrative Record, Document No. 95-16, Final Report Fort Wingate Depot Activity, Gallup, New Mexico, Work Plans: Field Sampling Plan and Contaminated Materials Handling Plan, Debris Piles and Burial Sites	Environmental Resources Management, Inc.	DEC-1995	
	Results of Chemical Analysis of Soil Samples Leaching Beds, Fort Wingate, Fort Worth District	Corps of Engineers US Army, Southwestern Division District	FEB-1996	
	Administrative Record, Document No. 96-2, Final Report, Fort Wingate Depot Activity, Gallup, New Mexico, Field Test Kit Development Program Results	Environmental Resources Management	APR-1996	
	Administrative Record, Document No. 96-3, Final Report, Fort Wingate Depot Activity, Gallup New Mexico, OB/OD Areas Closure Field Program, Final Work Plans: Field Sampling Plan and Contaminated Materials Handling Plan	Environmental Resources Management	MAY-1996	
	Administrative Record, Document No. 96-4, Final Report Fort Wingate Depot Activity, Gallup, New Mexico, OB/OD Areas Closure Field Program Health & Safety Plan	Environmental Resources Management	MAY-1996	
	Administrative Report, Document No. 96-5, Final Report Fort Wingate Depot Activity, Gallup, New Mexico, OB/OD Areas Environmental Investigation Quality Assurance Project Plan	Environmental Resources Management	MAY-1996	
	Administrative Record, Document No. 96-6, Final Report, Fort Wingate Depot Activity, Gallup, New Mexico, Resource Conservation and Recovery Act, Interim Status Closure Plan	Environmental Resources Management	MAY-1996	
	Draft, Fort Wingate Depot Activity, Gallup, New Mexico, Lead Based Paint Inspection Report	Environmental Resources Management	JUL-1996	
	Fort Wingate Depot Activity, Gallup, NM, Briefing on Land-Based Unit Siting Activities	Environmental Resources Management, Inc.	OCT-1996	
	Fort Wingate Depot Activity, Gallup, New Mexico, Overview of Debris Piles and Burial Sites Investigation	FWDA	NOV-1996	
	BRAC1 Remediation Projects (Phase 1) 0093022 PCB Remediation Soil Removal Bldgs 536/537	CCC Group, Inc.	NOV-1996	
	1997	Administrative Record, Document No. 97-1, Fort Wingate Depot Activity, Gallup New Mexico, Waterline Investigation Report	Radian International LLC	JAN-1997
		Administrative Record Document No. 97-2, Quarterly Ground Water Monitoring Data, UST Bldg 49 Area Fort Wingate Depot Activity, New Mexico	Analytica Environmental Laboratories	JAN-1997

Previous Studies

1997

Title	Author	Date
Results of the Physical Inventory of Human Remains and Associated Funerary Objects, Fort Wingate, New Mexico	US Army Corps of Engineers, St Louis District	JUN-1997
Final Fort Wingate Depot Activity Gallup, NM, Quality Assurance Project Plan	ERM Program Management Company	AUG-1997
Summary of Sampling & Analysis Event to Delineate PCB Contamination, Bldgs 536 & 537 Fort Wingate Depot Activity, Gallup, NM	US Army Corps of Engineers Fort Worth District	AUG-1997
Draft Final Report Archeological Investigations of Two Sites on Radar Ridge, FWDA	Office of Contract Archeology U of NM	SEP-1997
Administrative Record Document No. 97-4, Draft Report Minimum Site Assessment Report, Fort Wingate Army Depot Activity, Fort Wingate, New Mexico	US Army Corps of Engineers, Albuquerque District	SEP-1997
FWDA Restoration Advisory Board Meeting 10 Sept 1997 Transcript	Paul Baca	SEP-1997
RIFS REPORT	Installation	NOV-1997
Administrative Report, Document No. 97-5, Fort Wingate Depot Activity, Gallup, New Mexico, Final Remedial Investigation/Feasibility Study and RCRA Corrective Action Program Document VOL 1 thru 10	ERM Program Management Company	NOV-1997
Fort Wingate Depot Activity Draft Post Closure Care Plan	ERM Program Management Company	NOV-1997
Fort Wingate Depot Activity, Ethnographic Study	Susan P. Perlman	DEC-1997
Cycles of Closure: A Cultural Resources Inventory of Fort Wingate Depot Activity, New Mexico	Donna K. Lasusky	DEC-1997
Fort Wingate Igloo Pilot Wash Final Report Vol I & II Fort Wingate, New Mexico	Science Applications International Corporation	DEC-1997
Final Draft Minimum Site Assessment Report, Fort Wingate Army Depot Activity, Fort Wingate, New Mexico	US Army Corps of Engineers Albuquerque District	FEB-1998
Fort Wingate Depot Activity Gallup, NM Final TNT Leaching Beds Work Plan	Program Management Company	MAR-1998
FWDA Final Report TNT Leaching Beds Work Plan	Program Management Company	MAY-1998
Administrative Record Document No. 98-3, Final Report Fort Wingate Depot Activity, Gallup, NM, Open Burning/Open Detonation Area Work Plan	Program Management Company	MAY-1998
Administrative Record, Document No. 98-4 - Final Report Fort Wingate Depot Activity, Gallup, NM, Health & Safety Plan	Program Management Company	MAY-1998
Administrative Record Document No. 98-5, Final Report Fort Wingate Depot Activity, Gallup, NM, Field Sampling Plan	Program Management Company	JUN-1998
Final Fort Wingate Depot Activity Gallup, NM, Final Quality Assurance Project Plan	Program Management Company	JUN-1998
Final Fort Wingate Depot Activity Gallup, NM, No Further Action Proposal Missile Test Sites	Program Management Company	JUL-1998
Closure Report FWDA Gallup, NM Contract No. DACA63-95-D-0013, Delivery Order No. 0006 for Buildings 5, 536, 537 - Removal & Disposal of PCBs & Pesticide Soils	CCC Group, Inc.	JUL-1998
Explosive Safety Submission for Ordnance Removal Action and Land Disposal of Site #2 "Washout Facility" on FWDA, NM	US Army Corps of Engineers Fort Worth District	AUG-1998
HTRW Survey & Demolition Buildings 29, 40, & 41 FWDA, Contract No. DACA63-97-D-0016, Delivery Order No. 4	Wendy Lopez & Associates, Inc.	AUG-1998
Fort Wingate Depot Activity, Gallup, NM, Summary of Boring Logs and Well Completion Diagrams 1998 Field Season	Program Management Company	SEP-1998

1998

Previous Studies

Year	Title	Author	Date
1998	Draft Final Report Archeological Investigations on Rust Nail Ridge	Office of Contract Archeology U of NM	SEP-1998
	Phase I Environmental Site Assessment Final Report Southern Property FWDA	Tetra Tech, NUS, Inc.	SEP-1998
	Work Plan Defense Environment Restoration Program (DERP) Base Realignment and Closure Program (BRAC) Ordnance and Explosive Operations, Fort Wingate, NM, Contract Number DACA87-97-D-0007 Task Order 0003	Environmental Hazards Specialists, International, Inc	OCT-1998
	Fort Wingate Depot Activity Gallup, NM Regulatory Agency Review Evaluation and Prioritization of Potential Surface Water Concerns	Program Management Company	NOV-1998
	Asbestos Survey Buildings 515, 527, 537, 539, 601, 2, 18, 541, 542, 5, 8	US Army Corps of Engineers Fort Worth District	NOV-1998
	Environmental Assessment for the Removal of Bison from Fort Wingate Army Depot	New Mexico Department of Fish and Game	DEC-1998
	Environmental Restoration ... An Ethical Commitment, Final Removal Report OE Sampling & Removal Action, Vol 1 - IV	CMS Environmental Inc.	DEC-1998
1999	Industrial & Environmental Radiation Historical Site Assessment FWDA	US Army Center for Health Promotion and Preventive Medicine	JAN-1999
	FWDA No Further Action Proposal-Suspected POL Area	US Army Corps of Engineers Fort Worth District	FEB-1999
	Final FWDA, NM Building 11 PCB Investigation Report	Program Management Company	MAR-1999
	Final OB/OD Area RCRA Interim Status Closure Plan Phase 1A-Characterization & Assessment of Site Conditions for the Soils/Solid Matrix	Program Management Company	MAR-1999
	FWDA RCRA Part B Permit Application for Post Closure Care of the Former OB/OD Area	Program Management Company	JUN-1999
	Monitoring Well Pump Testing TNT Leaching Beds Area	Program Management Company	JUN-1999
	Asbestos Assessment Survey Report FWDA	US Army Corps of Engineers Fort Worth District	AUG-1999
	Disposal of Contaminated Soil at Former Pistol Range & Removal & Disposal of ASTs - Closure Report, FWDA Contract No. DACA63-95-D-0013, Delivery Order Nos. 0002 & 0003	CCC Group, Inc.	SEP-1999
	Final Report for Debris Removal In or Near Watercourses at FWDA	Safe Environmental Inc	OCT-1999
	Final Report for Demolishing Craters at the OB/OD Unit at FWDA Contract No. DACA63-99-P-0960	Safe Environmental Inc	NOV-1999
	Revised Final Report Site Investigation Work Plan, Soil Background Concentration Study, FWDA	Malcolm Pirnie, Inc.	NOV-1999
	Fort Wingate Depot Activity, Gallup, NM Final Open Burning/Open Detonating Area RCRA Interim Status Closure Plan, Phase 1B - Characterization and Assessment of Site Conditions for the Ground Water Matrix	Program Management Company	DEC-1999
	2000	Phase I Environmental Site Assessment Draft Report FWDA Parcels 15 and 17	Tetra Tech NUS, Inc
U.S. Department of the Interior, Bureau of Land Management, Phase I Environmental Site Assessment Final Report Fort Wingate (Parcels 6 and 22)		Tetra Tech NUS, Inc	MAR-2000
Draft Quality Control Summary Report Soil Background Concentration Study, FWDA		Malcolm Pirnie, Inc.	APR-2000

Previous Studies

	Title	Author	Date	
2000	Corrected Final Investigation Report - Further Site Characterization Functional Test Range 1 FWDA, NM Contract No. DACA63-97-D-0030; D.O. No. 0003 Tetra Tech NUS Project No. 287B	Tetra Tech NUS, Inc.	JUN-2000	
	Surface Water Site Assessment FWDA VOL I & II	PMC Environmental	JUL-2000	
	FWDA Final Risk Assessment Work Plan	PMC Environmental	AUG-2000	
	FWDA Final Risk Assessment Technical Memorandum OB/OD Areas	PMC Environmental	SEP-2000	
	Soil Background Investigation Report FWDA, NM	Malcolm Pirnie, Inc.	SEP-2000	
	FWDA - Final OE Location & Removal Report, Ordnance and Explosive Location & Removal Action Contract No. DACA87-97-D-0007, Task Order 3 VOL 1 thru 4	Environmental Hazards Specialist International, Inc.	SEP-2000	
	FWDA - Final Work Plan Environmental Characterization Buildings 542 and 600	PMC Environmental	NOV-2000	
	FWDA Igloos Inspections	Tooele Army Depot	NOV-2000	
	Eastern Landfill Delineation Release Assessments Project FWDA	Tetra Tech NUS Inc.	NOV-2000	
	New Mexico Analytical Results (Perchlorate)		DEC-2000	
	FWDA Project Summary Report - OB/OD Western Boundary Fence	Safe Environment	DEC-2000	
	2001	Asbestos Management Program O&M Survey Selected Buildings, FWDA	U.S. Army Corps of Engineers Fort Worth District	MAY-2001
		FWDA Ground Water Data for CY 2000 and 2001 in the OB/OD and TNT Leach Beds Areas	PMC Environmental	AUG-2001
Final Work Plan, Ordnance & Explosives (OE) Construction Support at FWDA Contract No. DACA87-00-D-0036 Task Order: 0005		USA Environmental, Inc.	AUG-2001	
Final RCRA Facility Investigation Report TNT Leaching Beds Area FWDA		PMC Environmental	SEP-2001	
Final Sampling and analysis Plan Building 11 FWDA		Roy F. Weston	OCT-2001	
BLM/DOI Imagery Manipulation, Analysis & Interpretation for the Area encompassed by Ft. Wingate, NM - 30 CDs		BLM / DOI / EDAC	DEC-2001	
Request for waiver to Army restriction on maintenance, characterization and clearance of ranges and other areas known or suspected of containing improved conventional munitions and submunitions		PMC Environmental	DEC-2001	
FWDA Wingate Imagery (Maps) Years 1935 to 2001		EDAC	DEC-2001	
2002	Final Site Specific Final Report Ordnance and Explosive Construction Support, Western Boundry Fence Line Contract #DACA87-00-D0036	USA Environmental Inc	JAN-2002	
	US Army Active/Inactive Range Inventory Fort Wingate Missile Launch Complex New Mexico	Army Test and Evaluation Command	JAN-2002	
	Master Work Plan Building 11 - FWDA	Roy F. Weston, Inc	APR-2002	
	FWDA Final Work Plan Ground Water Characterization Admin and TNT Leaching Beds Area	PMC Environmental	MAY-2002	
	FWDA RCRA Post Closure Care Permit Application Current OB/OD Area	PMC Environmental	JUL-2002	
	Perchlorate Analyses in Soil and Groundwater at Fort Wingate Depot Activity	PMC Environmental	SEP-2002	
	Remedial Action Summary Report PCB Remediation and Demolition of Building 11 FWDA	Roy F. Weston, Inc	OCT-2002	

Previous Studies

	Title	Author	Date
2002	Environmental Baseline Survey Base Realignment and Closure (BRAC) Parcels 6 and 22 AT FWDA	Roy F. Weston, Inc	OCT-2002
	Laboratory Reports Remedial Action Summary Report PCB Remediation and Demolition of Building 11 FWDA Vol 1 and 2	Roy F. Weston, Inc	OCT-2002
	FWDA - Final Phase I, RCRA Facility Investigation Report, Bldgs 600 & 542	PMC Environmental	DEC-2002
	Phase I Environmental Site Assessment Report Parcels 5, 8, 10, and 14	Tetra Tech Inc	DEC-2002
2003	Draft Perchlorate Characterization Letter Report for the Workshop Area	PCM Environmental	JAN-2003
	Final FWDA Soil Characterization Work Plan Building 537	PCM Environmental	FEB-2003
	Summary and Documentation for Removal of PCB Contaminated Soils at Building 536 and 537 FWDA	US Army Corps of Engineers Fort Worth District	APR-2003
	Remedial Action Summary Report Remediation and Demolition of Building 503 FEDA VOL 1 and 2	US Army Corps of Engineers Fort Worth District	MAY-2003
	Final Soil Characterization Work Plan Building 501 FWDA	PMC Environmental	JUN-2003
	Final Soil Characterization Work Plan Building 11 FWDA	PMC Environmental	JUN-2003
	RCRA Post Closure Permit Application Current OB/OD Area Volume 1 and II	PMC Environmental	JUN-2003
	Remedial Action Summary Report Remediation and Demolition of Building 501 FWDA	US Army Corps of Engineers Fort Worth District	JUL-2003
	FWDA RAB Meeting Minutes VOL I and II From: 1994 To: Continue to add RAB Meeting Minutes here.	Paul Baca Professional Court Reporters	DEC-2003
2004	FWDA Field Investigation Report Building 11	PMC Environmental	JAN-2004
	Work Plans Groundwater Investigation Eastern Landfill FWDA 1. Sampling and Analysis Pland 2. Site Safety and Health Plan	Tetra Tech NUS, Inc	JAN-2004
	Report of Inspeccion of Asbestos Containing Materials for Operations and Maintenance Program at FWDA	US Army Corps of Engineers, FT Worth District	MAR-2004
	Field Investigation Report Building 537 FWDA	PMC Environmental	MAR-2004
2005	Comments on the Draft Resource Conservation and Recovery Act (RCRA) Permit, Fort Wingate Depot Activity NM 6213820974	Tooele Army Depot Environmental Office	FEB-2005
	Final Groundwater Investigation Report Eastern Landfill FWDA	Tetra Tech Nus, Inc. Houston Texas	APR-2005
	Supplemental Information for the Characterization of Draft Permit AOCs 117 and 118	TerranearPMC	JUL-2005
	Dept. of Interior Reuse Plan for FWDA	DOI	AUG-2005
2006	Hydrogeologic Summary Report (Permit Section VIII.A.4)	TerranearPMC	FEB-2006
	City of Gallup G-22 Application - Second Amended Application for Permit to Appropriate Underground Waters of the State of NM & Additional Points of Diversion and Enlarge Place of Use and Purpose of Use & for Plan of Replacement, If Applicable, to Offset the Effects of Pumping under this Application	Four Corners Environmental, Inc.	MAR-2006
	City of Gallup G-22 Application Monitoring Plan	Four Corners Environmental, Inc.	MAR-2006
	City of Gallup G-22 Application - Second Amended	Four Corners	MAR-2006

Previous Studies

2006	Title	Author	Date
	Application for Permit to Appropriate Underground Waters of the State of NM & Additional Points of Diversion and Enlarge Place of Use and Purpose of Use & for Plan of Replacement, If Applicable, to Offset the Effects of Pumping under this Application	Environmental, Inc.	
	City of Gallup G-22 Application Monitoring Plan	Four Corners Environmental, Inc.	MAR-2006
	Supplemental Ground Water Investigation - Administration and TNT Leaching Beds Area	TerranearPMC	MAR-2006
	Base Realignment and Closure Plan, Version 3	TerranearPMC	APR-2006
	Final Report, Western Landfill, Volumes I & II	COE-FW, Robles, Beneco	JUN-2006
	Parcel 21 RFI & Release Assessment Field Activity Plan	TerranearPMC	JUN-2006
	Community Relations Plan - Version 1	TerranearPMC	AUG-2006
	Community Relations Plan - Version I	TerranearPMC	AUG-2006
	Certification of Fence Completion – FWDA Western Boundary Fence	ECC, Houston, TX	SEP-2006
	FWDA Aerial Photographic Analysis – Tube of Historical Photos and Interpretation Report – total of 2 copies in FW, FWDA has 12	Environmental Research, Inc., Linden, Virginia	SEP-2006
	Certification of Fence Completion - FWDA Western Boundary Fence	ECC, Houston, TX	SEP-2006
	FWDA Aerial Photographic Analysis - Tube of Historical Photos and Interpretation Report	Environmental Research, Inc., Linden, Virginia	SEP-2006
	FWDA Aerial Photographic Analysis - Historical Aerial Photos and Interpretation Report	Environmental Research, Inc., Linden, Virginia	SEP-2006
	Interim Facility-Wide Ground Water Monitoring Plan - DRAFT	TerranearPMC	OCT-2006
	Interim Measures Work Plan Off-Site Water Supply Well Sampling Plan - DRAFT (Navajo)	TerranearPMC	OCT-2006
	Release Assessment Report Parcel 21 - DRAFT	TerranearPMC	OCT-2006
	Letter Report, FWDA Environmental Information Management Needs Assessment – DRAFT	SAIC	NOV-2006
	RCRA Facility Investigation Work Plan Parcel 21 - DRAFT	TerranearPMC	NOV-2006
	Release Assessment Report Parcels 11 & 12	TerranearPMC	DEC-2006
2007	Interim Measures Work Plan Off-Site Water Supply Well Sampling	TerranearPMC	JAN-2007
	Interim Facility-Wide Ground Water Monitoring Plan	TerranearPMC	JAN-2007
	RFI Work Plan Parcels 11 & 12	TerranearPMC	JAN-2007
	Installation of Fencing on the Western and Northern Boundary of Parcel 3 -Project Report	ECC, Houston, TX	JAN-2007
	Installation of Fencing on the Western and Northern Boundary of Parcel 3 - Project Report	ECC, Houston, TX	JAN-2007
	RFI Work Plan Parcel 21 - DRAFT	TerranearPMC	FEB-2007
	Release Assessment Report Parcel 21 - DRAFT	TerranearPMC	FEB-2007
	Release Assessment Report Parcels 11, 12, 14, 25 -Tribal Draft	TerranearPMC	FEB-2007
	FWDA Summary of Interviews (as required under Section VIII.A.1.b of RCRA Permit	U.S. Army Corps of Engineers,	FEB-2007
	Installation of Central Heat and Air Conditioning at Bldg 1, FWDA	PIKA International, Inc.	FEB-2007

Previous Studies

2007	Title	Author	Date
	FWDA Summary of Interviews (as required under Section VIII.A.1.b of RCRA Permit	U.S. Army Corps of Engineers, Ft. Worth District	FEB-2007
	Installation of Central Heat and Air Conditioning at Bldg 1, FWDA	PIKA International, Inc.	FEB-2007
	RFI Work Plan Parcels 11 & 12	TerranearPMC	MAR-2007
	RFI Work Plan Parcels 11 & 12	Terranear PMC	MAR-2007
	OB/OD Unit Hazardous Waste Contingency Plan	TerranearPMC	MAY-2007
	ICM Waiver	MKM	JUL-2007
	Data Gap Analysis, OB/OD Unit HWMU & Parcel 3 SWMUs & AOCs	TerranearPMC	JUL-2007
	Interim Measures Work Plan Off-Site Water Supply Well Sampling	TerranearPMC	SEP-2007
	Report of Investigation for Potential Areas of Concern	COE, Louisville District	SEP-2007
	Kick-Out Delineation Work Plan	MKM	OCT-2007
2008	Parcel 21 Summary Report of Historical Information	TerranearPMC	FEB-2008
	Parcel 11 RFI Work Plan	TerranearPMC	FEB-2008
	Parcel 11 Summary Report of Historical Information	TerranearPMC	FEB-2008
	Parcels 12, 14, & 25 RFI Work Plan	TerranearPMC	FEB-2008

Cleanup Program Summary

Installation Historic Activity

FWDA is a closed US Army depot whose former mission was to receive, store, and ship munitions, and to dispose of obsolete or deteriorated explosives and military munitions. Since 1975, the installation has been under the administrative command of Tooele Army Depot (TEAD), located near Salt Lake City, Utah. The active mission of FWDA ceased and the installation closed in January 1993, as a result of the Defense Authorization Amendments and BRAC 1988. In 2002, the Army reassigned many functions at FWDA to the BRAC Division (BRACD), including property disposal, caretaker duties, management of caretaker staff, and performance of environmental restoration and compliance activities. TEAD retained command and control responsibilities and continues to provide support services to FWDA.

FWDA currently occupies approximately 24 square miles (approximately 15,280 acres) of land in northwestern New Mexico, in McKinley County. The installation is located eight miles east of Gallup on US Route 66 and approximately 130 miles west of Albuquerque on Interstate 40. FWDA contains facilities formerly used to operate a reserve storage activity providing for the care, preservation, and minor maintenance of assigned commodities, primarily conventional military munitions. The installation mission included the disassembly and demilitarization of unserviceable and obsolete military munitions. Ammunition maintenance facilities existed for the clipping, linking, and repackaging of small arms ammunition.

The installation is almost entirely surrounded by federally owned or administered lands, including both national forest and Tribal lands. The installation can be divided into several areas based upon location and historical land use.

Parcels transferred to date include Parcels 1, 15, and 17 totaling 5,854 acres.

A number of tenant operations are currently being maintained at FWDA. The US Department of Agriculture uses Buildings 12 and 13 (located within Parcel 11) and associated land in the Administration Area to store packaged food items for the benefit of the Navajo Nation.

TPL, Inc. has held an Industrial Operations Command Facilities Contract (DAAA09-94-E-0014) for use of facilities within Parcels 6, 21, and 22, including several buildings in the Administration Area, igloos in Igloo Block B, most Workshop Area buildings, grounds, and support systems since 1994. The facilities use contract also included igloos in Igloo Block D; these were returned to Army control in 2005. TPL performs demilitarization of conventional munitions to recover/recycle explosives and other components. The most recent TPL contract amendment/modification was signed in January 2007 and extended the contract until March 31, 2007.

In 1995, a large portion of the installation was reprogrammed by the Department of Defense (DOD) for use by the Missile Defense Agency (MDA, formerly known as the Ballistic Missile Defense Organization) to conduct Theater Missile Defense Program testing. MDA has been permitted to use 6,465 acres of FWDA lands, retained by the DOD, through a Memorandum of Understanding and Long-Term Permit. The current agreement began in June 2000 and provides the MDA with the option to extend the agreement for additional five-year periods beginning in June 2005. The agreement was extended in June 2005.

MDA currently occupies Parcels 2, 9, 19, and 20. Together, these lands are referred to as the Fort Wingate Launch Complex (FWLC). The FWLC occupies two non-contiguous areas that consist of the northern area (Parcel 9) referred to as Instrumentation Area A, and the southern area (Parcels 2, 19, and 20) referred to as the Launch and Control Area. Through the use of the instrumentation and launch facilities and associated infrastructure of the FWLC, the MDA launches target missiles that are part of missile defense test programs. The FWLC has been an active missile launch site since 1996, with a total of 11 launches to date.

To understand the current status of FWDA lands and the reasons for certain processes by which the environmental restoration and property transfer occur, the history of FWDA is important. The lands encompassing FWDA were significant to Native American peoples for a very long period of time prior to their first contact with European peoples. As a result, the lands at FWDA contain numerous sites rich in cultural heritage and historical significance to Native Americans.

Both the Navajo Nation and the Pueblo of Zuni, whose Tribal lands are in proximity to FWDA, inhabited the area both prior to (and in some cases during) the history outlined in this section. In addition, both the Pueblo of Zuni and the Navajo Nation have an extensive relationship and history with the Army in the region, and with Fort Wingate in particular. The history outlined below is presented to provide perspective on how the Army came to use the lands, and the administrative means by which the lands will be returned to the public domain.

The lands comprising Fort Wingate are "public domain lands" acquired by the Federal government through the treaty of

Cleanup Program Summary

Guadalupe Hidalgo with Mexico in 1848. Native American history in the area dates prior to and after the acquisition of the land by the United States Government. The lands fall within the traditional territory of both the Navajo and Zuni people. These lands are under the jurisdiction of the Secretary of the Interior and are managed pursuant to public land laws and mining and mineral leasing laws.

The first military post near the current FWDA was Fort Fauntleroy, established in 1860. This fort was renamed Fort Lyon in 1861, after General Nathaniel Lyon, the first Union general killed in the Civil War. Fort Lyon was abandoned in 1862. The first Fort Wingate was established in 1862 at San Rafael, just south of the current location of Milan, New Mexico, where it remained until 1868. In 1868, the Army returned to the site of Fort Lyon and established a "new" Fort Wingate.

An Executive Order of February 18, 1870, withdrew the 10-mile square Fort Wingate military reservation from operation of some of the public land laws and reserved the lands for military purposes associated with Fort Wingate. Partial jurisdiction over these lands was transferred to the Secretary of War by operation of this Order. Plans for the fort were approved and permanent buildings were erected at the location east of FWDA, now known as the town of Fort Wingate. An Executive Order of March 21, 1881 added additional lands to Fort Wingate.

As World War I was ending, the War Department selected Fort Wingate to store munitions. Around 1919, the installation, then known as Wingate Ordnance Depot, became the largest installation storing high explosives in the world, with approximately 163 wooden magazines. Other buildings included personnel quarters, shipping and receiving facilities, and equipment storage and maintenance facilities. In general, Wingate Ordnance Depot occupied the northern portion of FWDA, extending as far south as current Igloo Block E.

An Executive Order of April 20, 1925, granted approximately 36,148 acres to the Department of Agriculture to establish the Zuni District of the Manzano National Forest (now Cibola National Forest). This area included the former Fort Wingate barracks buildings, east of what is now FWDA, which were used to establish a school for Zuni and Navajo children.

In 1928, the installation became an active military post, with the mission expanded to include repackaging and shipping of explosives. A new fence line was erected and the Native American families (primarily Navajo) who had been resident were immediately forced to leave. This left numerous hogans, sheep corrals, sweat lodges, burials, and other remains of traditional life within the fence line. The needs of the subsequent military activity resulted in the hiring of Native Americans as laborers and construction workers.

Early in 1941, an extensive construction program started at the installation, including the construction of permanent buildings and earth covered reinforced concrete storage magazines. The reconstructed depot (then named Fort Wingate Ordnance Depot) was formally opened in 1942. Many Native Americans supplied the labor needed to support the war effort. During World War II (WWII), the primary depot mission was the shipment of munitions to support the war. Following the end of WWII, the installation began receiving munitions from production lines and returns from overseas, and the mission evolved into a storage activity providing for the care, preservation, and minor maintenance of assigned commodities, primarily conventional military munitions. The installation mission also included the disassembly and demilitarization of unserviceable and obsolete military munitions.

Between 1960 and 1967, portions of the installation were used by the Army to test the performance of several unarmed Pershing ballistic missile systems, including the launching of ballistic missiles from the installation. The launch areas were located in what is now Parcel 1.

In July 1971, the FWDA was placed in Reserve Status under the command of Pueblo Army Depot, Colorado, and re-designated the FWDA. In 1975, the US Army Materiel Command reassigned FWDA to TEAD. The active mission of the installation ceased in January 1993, and the installation is currently under caretaker status.

Pursuant to the BRAC I of 1988, and in accordance with the regulations at 43 CFR 2372.1, the Army filed a notice of intent to relinquish its reservation of the lands with the Secretary of the Interior. The initial notice is dated March 13, 1990 and was subsequently modified by notices dated November 10, 1993 and June 28, 1995. The Army's relinquishment is being processed in accordance with the Federal Land Policy and Management Act of 1976 (43 USC 1701,1714) and the regulations at 43 CFR Part 2370. The suitability determination required at 43 CFR 2374.1 was made by DOI Assistant Secretary - Policy Management and Budget, as follows: all public domain lands at the former FWDA are suitable for return to the public domain for disposition under the general public land laws, upon appropriate environmental restoration of the lands.

Cleanup Program Summary

By letter dated June 3, 1994, the Secretary of the Interior indicated to the Secretary of Defense that the disposition, under the public land laws, under consideration included natural resources management, cultural resources protection, and economic benefits to the Navajo Nation and the Pueblo of Zuni. By letter dated June 29, 1995, the Assistant Secretary of the Interior told the Deputy Assistant Secretary of the Army that "the lands will be managed by the BIA to meet its mission in serving the two local tribes, the Navajo Nation and the Pueblo of Zuni." This was followed by a letter dated January 6, 1998, wherein the Advisor to the Secretary of the Interior wrote to the Deputy Assistant Secretary of the Army that "The lands will be held by the BIA for the benefit of the Navajo Nation and Pueblo of Zuni indefinitely."

Installation Program Cleanup Progress

BRAC-IRP

Prior Year Progress: Cultural Resources Programmatic and Comprehensive Agreements were drafted, Open Storage sites (non-AOCs) were sampled and reported to the NMED and Work Plans were drafted for Parcels 11, 12, 14, 21, 22, 25. Also, a facility-wide Groundwater Plan and an off-post Groundwater Plan were submitted to the NMED, and a GIS/Data Management System was developed.

Future Plan of Action: Cultural Resources Programmatic & Comprehensive Agreements will be finalized. On site & off site groundwater monitoring will be conducted & a facility-wide Ecological Risk Work Plan will be developed. Facility-wide ecological field sampling will be conducted & background levels for metals will be developed. Tribal Cooperative Agreements will be finalized. Work plans will be finalized & RFI field work performed for Parcels 4, 6, 11, 12, 14, 21, 22, 24, 25. Parcels 14 and 25 will be transferred.

BRAC-MMRP

Prior Year Progress: A Phase I Open Burning/Open Detonation (OB/OD) Closure Plan, a CAMU Conceptual Plan, and work plans for the Kickout Area for the OB/OD grounds were developed. Also, an ICM Waiver was drafted.

Future Plan of Action: A CAMU Work Plan will be completed and a CAMU constructed. CE Storage will be established, a KOA Survey completed, and KOA Clearance begun. Aerial geophysics for MEC identification will also be conducted.

BRAC-Compliance

Prior Year Progress:

Future Plan of Action:

Transfer Summary

BRAC I

Installation Size (Acreage): 21,131.00

BRAC Acreage: 14,666.00

Completed FOSTs

FOST Name	Status	Date Signed	Acres	Sites
ECOP	Complete With Transfer	20000620	4952	FTWG-20, FTWG-31
DOI FOST	Complete With Transfer	20010824	903	
Parcel 2	Future	20200930	2378.82	FTWG-28
Parcel 3	Future	20200930	1807.11	FTWG-002-R-01
Parcel 4	Future	20110930	428.5	FTWG-49
Parcel 5	Future	20130930	229.57	FTWG-18
Parcel 6	Future	20160930	1035.07	FTWG-63
Parcel 7	Future	20190930	225.89	FTWG-10
Parcel 9	Future	20160930	196.17	FTWG-26
Parcel 10	Future	20170930	594.74	FTWG-36
Parcel 11	Future	20150930	172.18	FTWG-11
Parcel 12	Future	20090930	159.71	
Parcel 13	Future	20140930	473.21	FTWG-07
Parcel 16	Future	20180930	871.18	FTWG-001-R-01
Parcel 18	Future	20190930	11.63	FTWG-12
Parcel 19	Future	20200930	2187.25	FTWG-27
Parcel 20	Future	20200930	1693.82	FTWG-003-R-01
Parcel 21	Future	20150930	167.25	FTWG-01
Parcel 22	Future	20150930	628.42	FTWG-38
Parcel 23	Future	20170930	239.2	FTWG-30
Parcel 24	Future	20150930	426.91	FTWG-21

Completed FOSETs

FOSET Name	Status	Date Signed	Acres	Sites
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Completed FOSLs

FOSL Name	Status	Date Signed	Acres	Sites
FWDA FOSL	Complete With Lease	19930101	8000	

Summary of Parcel Prioritization and Transfer Strategy

Parcels Identified in AEDB-R

Parcel Name: Parcel 10

Parcel Acreage: 595.00

Associated Sites: FTWG-36

Transfer Date/Expected Transfer Date: 20170930

Current Land Use: N/A

Future Land Use: N/A

Encumbrances: N/A

Leases/Permits/Licenses: N/A

Transfer Strategy: Transfer to Other Federal Agencies

Recipient Organization: Dept of Interior

Other Issues Affecting Transfer: N/A

Parcel Name: Parcel 11

Parcel Acreage: 172.00

Associated Sites: FTWG-11

Transfer Date/Expected Transfer Date: 20150930

Current Land Use: N/A

Future Land Use: N/A

Encumbrances: N/A

Leases/Permits/Licenses: N/A

Transfer Strategy: Transfer to Other Federal Agencies

Recipient Organization: Dept of Interior

Other Issues Affecting Transfer: N/A

Parcel Name: Parcel 12

Parcel Acreage: 160.00

Associated Sites: N/A

Transfer Date/Expected Transfer Date: 20090930

Current Land Use: N/A

Future Land Use: N/A

Encumbrances: N/A

Leases/Permits/Licenses: N/A

Transfer Strategy: Transfer to Other Federal Agencies

Recipient Organization: Dept of Interior

Other Issues Affecting Transfer: N/A

Parcel Summary

Parcel Name: Parcel 13

Parcel Acreage: 473.00

Associated Sites: FTWG-07

Transfer Date/Expected Transfer Date: 20140930

Current Land Use: N/A

Future Land Use: N/A

Encumbrances: N/A

Leases/Permits/Licenses: N/A

Transfer Strategy: Transfer to Other Federal Agencies

Recipient Organization: Dept of Interior

Other Issues Affecting Transfer: N/A

Parcel Name: Parcel 14

Parcel Acreage: 479.00

Associated Sites: FTWG-15

Transfer Date/Expected Transfer Date: 20080930

Current Land Use: N/A

Future Land Use: N/A

Encumbrances: N/A

Leases/Permits/Licenses: N/A

Transfer Strategy: Transfer to Other Federal Agencies

Recipient Organization: Dept of Interior

Other Issues Affecting Transfer: N/A

Parcel Name: Parcel 16

Parcel Acreage: 871.00

Associated Sites: FTWG-001-R-01

Transfer Date/Expected Transfer Date: 20180930

Current Land Use: N/A

Future Land Use: N/A

Encumbrances: N/A

Leases/Permits/Licenses: N/A

Transfer Strategy: Transfer to Other Federal Agencies

Recipient Organization: Dept of Interior

Other Issues Affecting Transfer: N/A

Parcel Summary

Parcel Name: Parcel 18

Parcel Acreage: 12.00

Associated Sites: FTWG-12

Transfer Date/Expected Transfer Date: 20190930

Current Land Use: N/A

Future Land Use: N/A

Encumbrances: N/A

Leases/Permits/Licenses: N/A

Transfer Strategy: Transfer to Other Federal Agencies

Recipient Organization: Dept of Interior

Other Issues Affecting Transfer: N/A

Parcel Name: Parcel 19 (Army Retained)

Parcel Acreage: 2,187.00

Associated Sites: FTWG-27

Transfer Date/Expected Transfer Date: N/A

Current Land Use: N/A

Future Land Use: N/A

Encumbrances: N/A

Leases/Permits/Licenses: N/A

Transfer Strategy: Army Retained

Recipient Organization: N/A

Other Issues Affecting Transfer: N/A

Parcel Name: Parcel 2 (Army Retained)

Parcel Acreage: 2,379.00

Associated Sites: FTWG-28

Transfer Date/Expected Transfer Date: N/A

Current Land Use: N/A

Future Land Use: N/A

Encumbrances: N/A

Leases/Permits/Licenses: N/A

Transfer Strategy: Army Retained

Recipient Organization: N/A

Other Issues Affecting Transfer: N/A

Parcel Summary

Parcel Name: Parcel 20 (Army Retained)

Parcel Acreage: 1,693.82

Associated Sites: FTWG-003-R-01

Transfer Date/Expected Transfer Date: N/A

Current Land Use: N/A

Future Land Use: N/A

Encumbrances: N/A

Leases/Permits/Licenses: N/A

Transfer Strategy: Army Retained

Recipient Organization: N/A

Other Issues Affecting Transfer: N/A

Parcel Name: Parcel 22

Parcel Acreage: 628.00

Associated Sites: FTWG-38

Transfer Date/Expected Transfer Date: 20150930

Current Land Use: N/A

Future Land Use: N/A

Encumbrances: N/A

Leases/Permits/Licenses: N/A

Transfer Strategy: Transfer to Other Federal Agencies

Recipient Organization: Dept of Interior

Other Issues Affecting Transfer: N/A

Parcel Name: Parcel 23

Parcel Acreage: 239.00

Associated Sites: FTWG-30

Transfer Date/Expected Transfer Date: 20170930

Current Land Use: N/A

Future Land Use: N/A

Encumbrances: N/A

Leases/Permits/Licenses: N/A

Transfer Strategy: Transfer to Other Federal Agencies

Recipient Organization: Dept of Interior

Other Issues Affecting Transfer: N/A

Parcel Summary

Parcel Name: Parcel 24

Parcel Acreage: 427.00

Associated Sites: FTWG-21

Transfer Date/Expected Transfer Date: 20150930

Current Land Use: N/A

Future Land Use: N/A

Encumbrances: N/A

Leases/Permits/Licenses: N/A

Transfer Strategy: Transfer to Other Federal Agencies

Recipient Organization: Dept of Interior

Other Issues Affecting Transfer: N/A

Parcel Name: Parcel 25

Parcel Acreage: 433.00

Associated Sites: N/A

Transfer Date/Expected Transfer Date: 20080930

Current Land Use: N/A

Future Land Use: N/A

Encumbrances: N/A

Leases/Permits/Licenses: N/A

Transfer Strategy: Transfer to Other Federal Agencies

Recipient Organization: Dept of Interior

Other Issues Affecting Transfer: N/A

Parcel Name: Parcel 3

Parcel Acreage: 1,807.00

Associated Sites: FTWG-002-R-01

Transfer Date/Expected Transfer Date: 20200930

Current Land Use: N/A

Future Land Use: N/A

Encumbrances: N/A

Leases/Permits/Licenses: N/A

Transfer Strategy: Transfer to Other Federal Agencies

Recipient Organization: Dept of Interior

Other Issues Affecting Transfer: N/A

Parcel Summary

Parcel Name: Parcel 4

Parcel Acreage: 429.00

Associated Sites: FTWG-49

Transfer Date/Expected Transfer Date: 20110930

Current Land Use: N/A

Future Land Use: N/A

Encumbrances: N/A

Leases/Permits/Licenses: N/A

Transfer Strategy: Transfer to Other Federal Agencies

Recipient Organization: Dept of Interior

Other Issues Affecting Transfer: N/A

Parcel Name: Parcel 5

Parcel Acreage: 230.00

Associated Sites: FTWG-18

Transfer Date/Expected Transfer Date: 20130930

Current Land Use: N/A

Future Land Use: N/A

Encumbrances: N/A

Leases/Permits/Licenses: N/A

Transfer Strategy: Transfer to Other Federal Agencies

Recipient Organization: Dept of Interior

Other Issues Affecting Transfer: N/A

Parcel Name: Parcel 6

Parcel Acreage: 1,035.00

Associated Sites: FTWG-63

Transfer Date/Expected Transfer Date: 20160930

Current Land Use: N/A

Future Land Use: N/A

Encumbrances: N/A

Leases/Permits/Licenses: N/A

Transfer Strategy: Transfer to Other Federal Agencies

Recipient Organization: Dept of Interior

Other Issues Affecting Transfer: N/A

Parcel Summary

Parcel Name: Parcel 7

Parcel Acreage: 226.00

Associated Sites: FTWG-10

Transfer Date/Expected Transfer Date: 20190930

Current Land Use: N/A

Future Land Use: N/A

Encumbrances: N/A

Leases/Permits/Licenses: N/A

Transfer Strategy: Transfer to Other Federal Agencies

Recipient Organization: Dept of Interior

Other Issues Affecting Transfer: N/A

Parcel Name: Parcel 8

Parcel Acreage: 432.00

Associated Sites: N/A

Transfer Date/Expected Transfer Date: 20080930

Current Land Use: N/A

Future Land Use: N/A

Encumbrances: N/A

Leases/Permits/Licenses: N/A

Transfer Strategy: Transfer to Other Federal Agencies

Recipient Organization: Dept of Interior

Other Issues Affecting Transfer: N/A

Parcel Name: Parcel 9 (Army Retained)

Parcel Acreage: 196.00

Associated Sites: FTWG-26

Transfer Date/Expected Transfer Date: N/A

Current Land Use: N/A

Future Land Use: N/A

Encumbrances: N/A

Leases/Permits/Licenses: N/A

Transfer Strategy: Army Retained

Recipient Organization: N/A

Other Issues Affecting Transfer: N/A

Parcel Summary

Parcel Name: TPL Parcel 21

Parcel Acreage: 167.00

Associated Sites: FTWG-01

Transfer Date/Expected Transfer Date: 20130930

Current Land Use: N/A

Future Land Use: N/A

Encumbrances: N/A

Leases/Permits/Licenses: N/A

Transfer Strategy: Transfer to Other Federal Agencies

Recipient Organization: Dept of Interior

Other Issues Affecting Transfer: N/A

FORT WINGATE DEPOT ACTIVITY

Base Realignment and Closure Installation Restoration Program

BRAC-IRP Summary

Installation Total Army Environmental Database-Restoration (AEDB-R) BRAC Sites/Response Complete (RC)

BRAC Sites*: 43/26

Installation Site Types with Future and/or Underway Phases*

- 1 Building Demolition/Debris Removal
(FTWG-18)
- 1 Contaminated Buildings
(FTWG-63)
- 4 Landfill
(FTWG-10, FTWG-12, FTWG-28, FTWG-30)
- 1 Spill Site Area
(FTWG-36)
- 5 Storage Area
(FTWG-07, FTWG-21, FTWG-27, FTWG-38, FTWG-49)
- 1 Surface Disposal Area
(FTWG-26)
- 1 Surface Impoundment/Lagoon
(FTWG-01)
- 1 Surface Runoff
(FTWG-42)
- 1 Training and Maneuver Area
(FTWG-15)
- 1 Waste Treatment Plant
(FTWG-11)

Most Widespread Contaminants of Concern*

Asbestos, Explosives, Metals, Munitions and explosives of concern, Perchlorate, Pesticides, Polychlorinated Biphenyls, Polycyclic Aromatic Hydrocarbons, Semi-volatiles, Volatiles, White Phosphorous

Media of Concern*

Groundwater, Sediment, Soil, Surface Water

Completed Remedial Actions (Interim Remedial Actions / Final Remedial Actions (IRA/FRA))*

Site ID	Site Name	Action	Remedy	FY	Cost
FTWG-32	COMPLIANCE - UST	FRA	REMOVAL	1996	\$25.0 K
FTWG-33	COMPLIANCE - FIRE HOUSE UST	FRA	OTHER	1996	\$25.0 K
FTWG-19	BLDG. 5	IRA	WASTE REMOVAL - SOILS	1998	\$250.0 K
FTWG-19	BLDG. 5	FRA	REMOVAL	1998	\$50.0 K
FTWG-20	MISSILE LAUNCH SITES	FRA	OTHER	1998	\$20.0 K
FTWG-29	BLDG. 503	FRA	OTHER	1998	\$2,000.0 K
FTWG-41	PCB SITES	FRA	REMOVAL	1998	\$793.0 K
FTWG-22	BUILDING 11	FRA	WASTE REMOVAL - SOILS	2002	\$852.0 K
FTWG-54	WESTERN LANDFILL	FRA	REMOVAL	2002	\$206.7 K

Duration of BRAC-IRP

Date of BRAC-IRP Inception: 198910

Estimated Date for Remedy-In-Place (RIP)/Response Complete (RC): 201909/201909

Date of BRAC-IRP completion including Long Term Management (LTM): 204709

*Note: This does not include sites closed prior to installation being identified as BRAC.

BRAC-IRP Contamination Assessment

Contamination Assessment Overview

Environmental restoration activities at FWDA began in 1980 under the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA) guidelines, as part of the IRP. The one exception was the OB/OD unit, which proceeded under Resource Conservation and Recovery Act (RCRA) guidelines. During the period from 1980 through issuance of the Permit in December 2005, a number of environmental investigations were conducted by the Army and other parties (e.g., USEPA and DOI) under both CERCLA and RCRA guidance. Examples of CERCLA investigations/actions conducted at FWDA include a facility-wide Enhanced Preliminary Assessment (PA), a facility-wide Remedial Investigation (RI), and munitions and explosives of concern (MEC) removal actions. Examples of RCRA investigations/actions conducted at FWDA include a facility-wide RCRA Facility Assessment (RFA) and a Closure Field Program (CFP) in the OB/OD Area.

Prior to issuance of the permit, approximately 44 Solid Waste Management Units (SWMUs) and Areas of Concern (AOCs) had been identified, and these SWMUs and AOCs were at various states of environmental restoration when the permit process began in 2002. The RCRA Permit as finalized lists one Hazardous Waste Management Unit (HWMU) (the OB/OD Unit) and a total of 93 SWMUs and AOCs.

The permit describes closure requirements for the OB/OD unit (e.g., removal of all hazardous wastes and hazardous waste residues, soil characterization and confirmation sampling), groundwater investigation and corrective action requirements for the OB/OD unit, and the corrective action process for the remaining SWMUs and AOCs. The sites will be addressed on a parcel by parcel basis, as specified by the permit.

The two primary sites with the most significant contamination have been and remain the OB/OD unit (along with the associated SWMUs and AOCs in Parcel 3) and the Trinitrotoluene (TNT) Leaching Beds and Building 503 (SWMU 1).

The OB/OD unit contains ten residue piles that contain various levels of explosives, metals and MEC. Based on the results of the CFP sampling conducted in 1996, explosives were detected in waste samples including cyclotrimethylenetrinitramine (RDX) (maximum concentration 20,000 parts per million (ppm)) and TNT (maximum concentration 22,000 ppm). Several metals of concern were also detected in the wastes, including barium (maximum concentration 8,500 ppm), cadmium (maximum concentration 600 ppm), and lead (maximum concentration 6,000 ppm). Contaminants were also detected in soils underlying the waste, including amosite asbestos (maximum concentration 2.2 ppm), arsenic (maximum concentration 470 ppm), and thallium (maximum concentration 480 ppm). Waste in the other SWMUs and AOCs within Parcel 3 contained the same types of contaminants at similar concentrations. Groundwater has also been impacted by OB/OD operations; explosives, nitrate, perchlorate, and various metals have been detected in groundwater. MEC, both on- and off-site, has been encountered and a number of surveys and removal actions have been performed. Additional efforts to identify the extent of kickout are currently being implemented.

SWMU 1 is made up of the former TNT Washout Building (Building 503) and the TNT Leaching Beds. Based on results from soil samples collected from the zero to five foot depth interval, during several field efforts, explosives including TNT (maximum concentration 11,500 ppm), cyclotetramethylenetetranitramine (HMX) (maximum concentration 180 ppm), and RDX (maximum concentration 2,390 ppm), have been detected in soils in and around the TNT Leaching Beds. Several inorganic constituents were also detected in the soil, including barium (maximum concentration 605 ppm), cadmium (maximum concentration 5.5 ppm), iron (maximum concentration 25,400 ppm), manganese (maximum concentration 1,020 ppm), nitrate (maximum concentration 800 ppm), and phosphorous (maximum concentration 32,000 ppm). Soils below five feet are also impacted with generally the same constituents, at decreasing concentrations.

Groundwater is present below the TNT Leaching Beds in a number of discrete water-bearing zones. Concentrations of total explosives compounds have been detected at values ranging up to 464 parts per billion (ppb); concentrations of nitrate have been detected at values ranging up to 166 ppm. Perchlorate concentrations were detected in an area upgradient of the TNT Leaching Beds at levels ranging up to 76 ppb.

Fort Wingate is under a RCRA Closure Permit that was negotiated at the Department of Army level with the State of New Mexico, the Navajo Nation, the DOI, and the Pueblo of Zuni prior to the current BRAC Environmental Coordinator (BEC) being hired. The NMED enforces the permit and will be charging document review fees on all submittals. The USEPA, Region 6 is also involved in reviewing documents.

The Fort Wingate environmental restoration program and property transfer has several complicating factors and uncertainties. They start with the history of the army establishing the post in the 1870s, during the conflicts with the Native Americans as part of the country's westward expansion. To a certain extent, both tribes have distrust of the Army originating back to these conflicts. The Pueblo of Zuni and the Navajo Nation are both competing for the transferred property and have established Fort Wingate Teams, sanctioned by the Tribal governments, to act on their behalf. Both Tribes have been adversaries for centuries.

BRAC-IRP Contamination Assessment

The permit negotiations resulted in permit language specifying that the Army shall engage in consultation with both Tribes on all documents submitted to the state for approval. The DOI/Bureau of Land Management/BIA (both Tribes have a representative) are also reviewing all documents because the property is being transferred to the DOI. Thus, an extra round of document review is needed on all submittals under the program.

Parcel 3 is a designated Improved Conventional Munitions area, meaning anti-personnel sub-munitions exist in the area (BLU-3, BLU-4). As of June 2006, the kick-out limit of past activities at the two OB/OD grounds had not been defined. The BEC requested FY06 funding to accomplish the task; however, funds have yet to arrive.

Significant consultation with the tribes is required to address the MEC restoration in Parcel 3. Some or all of Parcel 3 may have to be retained by the Army due to the presence of MEC. The permit does not require MEC removal on terrain that is too steep to walk. The exact acreage has yet to be determined.

Due to the significant cultural resources (Traditional Cultural Properties (TCP), Sacred Sites, Burial Sites, Archaeological Sites etc.), several regulations have to be met in order to restore the property (NAGRPA, NHPA, etc.). The Army has elected to prepare a Programmatic Agreement and Comprehensive Agreement to address all of the cultural regulations, and will seek signatures from the Army, Safety Health Plan Office, Advisory Council for Historic Preservation, and both tribes. This will streamline the restoration process, after some initial delays, in setting up the Programmatic Agreement during 2006. The Army has notified the NMED of the delays in some projects.

Cleanup Exit Strategy

Performance-based contracts (PBC) will be used once parcels are adequately characterized and the best available technology, including airborne MEC survey techniques, will be used to characterize sites. Lower cost cleanup levels will be negotiated for OB/OD grounds (Parcel 3), TNT Leaching Beds (Parcel 21), and other highly contaminated areas for passive re-use by native tribes rather than residential use. The focus will be on cleaning up on a parcel by parcel basis rather than site by site and the number of sites will be quickly reduced by conducting single release assessment for AOCs where corrective action is most likely not needed. In addition, the time and cost of characterization will be reduced by using multi-incremental sampling as much as possible. Strong working relationships with Tribes will be developed through consultation and a Programmatic Agreement developed with the Advisory Council on Historic Preservation (ACHP), the state, and the Tribes to streamline compliance with cultural resources laws and regulations. Development of a range recycling facility on FWDA will be explored in cooperation with the Tribes and the Huntsville Corps and help will be provided to the Tribes to accelerate document review times by providing funding through a Cooperative Agreement.

FORT WINGATE DEPOT ACTIVITY

Installation Restoration Program

Site Descriptions

Site ID: FTWG-01
Site Name: TNT Beds, Deact Furn, Other Bldngs
Alias: Parcel 21

STATUS

Parcel: TPL Parcel 21 (167 acres)

Regulatory Driver: RCRA

RRSE: MEDIUM

Program: BRAC-IRP

Contaminants of Concern: Explosives, Metals, Munitions and explosives of concern, Perchlorate, Pesticides, Polychlorinated Biphenyls, Semi-volatiles, Volatiles, White Phosphorous

Media of Concern: Groundwater, Soil

BRAC Round: BRAC I

Phases	Start	End
RFA.....	198910.....	199004
CS.....	198910.....	199004
RFI/CMS.....	199203.....	201309
DES.....	201310.....	201409
CMI(C).....	201510.....	201709
LTM.....	201710.....	202709

RIP Date: N/A

RC Date: 201709

SITE DESCRIPTION

This site has been converted to a parcel covering 167 acres as a result of the new RCRA permit. This site previously addressed only SWMU 1, but now addresses the following sites which are located in Parcel 21:

- AOC-75 Electrical Transformers;
- SWMU-1 TNT Leaching Beds and Building 503;
- SWMU-2 Building 515 (Painting and Acid Washout Building and Acid Holding Pond);
- SWMU-7 Fire Training Ground;
- SWMU-19 Building 501 (Former Boiler House and Heating Plant No. 7);
- AOC-60 Building 522 formerly designated as Building 500 (Ammunition Receiving Building);
- AOC-61 Building 507 (Smokeless Powder Magazine);
- AOC-62 Building 508 (Smokeless Powder Magazine);
- AOC-63 Building 509 (Primary Collector Barricade or Propellant Baghouse);
- AOC-64 Building 510 (Vacuum Producer Building);
- AOC-65 Building 511 (Service Magazine);
- AOC-66 Building 512 (Service Magazine);
- AOC-67 Building 513 (Service Magazine);
- AOC-68 Structure 514 (Deboosting Barricade) and Structure 545 (Earthen Barricade);
- SWMU-72 Deactivation Furnace, Deactivation Furnace Acid Pits, and surrounding area (includes pre-1958 buildings and areas in the vicinity of Building 530);
- AOC-87 Feature 18 on 1962 aerial photo (API-3) and Feature 23 on 1973 aerial photo (API-5) in 1995 Archive Search Report.

A Draft Parcel 21 Release Assessment Report was completed in October 2006. A Draft Parcel 21 RFI Work Plan was completed in November 2006.

TPL's facility use contract with the Army expired on March 31, 2007. TPL performed demilitarization of a variety of conventional munitions at FWDA since 1994. The company is responsible under the contract with the Army for cleaning up any environmental contamination its operations may have caused.

CLEANUP/EXIT STRATEGY

The majority of the cost and effort for Parcel 21 will occur at SWMU-1 (TNT Leaching Beds and Building 503). The primary COCs are explosives. Soil removal and in-situ groundwater remediation are assumed for this site. Other sites where soil removal is assumed include SWMUs 7, 19, and 72 and AOC 75 (Electrical Transformers). Six acres will be investigated for MEC at SWMU

Site ID: FTWG-01
Site Name: TNT Beds, Deact Furn, Other Bldngs
Alias: Parcel 21

72.

CTC assumptions include:

- 1) A supplemental RFI with new wells and groundwater sampling will be completed, followed by a CMS.
- 2) Corrective measures will include in-situ groundwater treatment with 100 wells, three applications, and quarterly monitoring for three years. A total of 67,940 cubic yards will be excavated and disposed offsite. A building demolition (16,323 square feet) will also be performed. MEC sifting of two acres and geophysical mapping of three acres are also planned.
- 3) Annual monitoring of 12 wells for 10 years will be included in the LTM.
- 4) When completed and approved by the state, the CMS will serve as the cost basis for CTC.

Site ID: FTWG-07
Site Name: Lake Knudson Area
Alias: Parcel 13

STATUS

Parcel: Parcel 13 (473 acres)

Regulatory Driver: RCRA

RRSE: MEDIUM

Program: BRAC-IRP

Contaminants of Concern: Explosives, Metals, Semi-volatiles

Media of Concern: Groundwater, Sediment, Soil, Surface Water

BRAC Round: BRAC I

Phases	Start	End
RFA.....	198910.....	199004
CS.....	198910.....	199004
RFI/CMS.....	199203.....	201009

RIP Date: N/A

RC Date: 201009

SITE DESCRIPTION

As a result of the new RCRA permit, this site has been converted to a parcel. The parcel includes the following sites: AOC-53, Lake Knudson; AOC-54, Building 311 (Standard Magazine); AOC-55, Structure 506 (TNT Storage Barricade); AOC-56, Structure 533 (Explosive Barricade); AOC-86, Feature 15 on 1973 aerial photo (API-5) in the 1995 Archive Search Report; AOC-57, Buildings 306, 307, 308, 309, 310 (Standard Magazines near Knudson Lake).

CLEANUP/EXIT STRATEGY

No further action is anticipated beyond completion of the RFA for all of the AOCs listed above.

CTC assumptions include permit closeout. This site will be included in a Site-wide Release Assessment Report (RAR), tracked under site FTWG-042.

Site ID: FTWG-10
Site Name: POL Area, RR Classification Yard
Alias: Parcel 7

STATUS

Parcel: Parcel 7 (226 acres)

Regulatory Driver: RCRA

RRSE: LOW

Program: BRAC-IRP

Contaminants of Concern: Explosives, Metals, Polychlorinated Biphenyls, Polycyclic Aromatic Hydrocarbons, Semi-volatiles, Volatiles

Media of Concern: Groundwater, Soil

BRAC Round: BRAC I

Phases	Start	End
RFA.....	198910.....	199004
CS.....	198910.....	199004
RFI/CMS.....	199203.....	201409
DES.....	201410.....	201509
CMI(C).....	201510.....	201609
LTM.....	201610.....	202109

RIP Date: N/A

RC Date: 201609

SITE DESCRIPTION

As a result of the new RCRA permit, this site has been converted to a parcel covering 226 acres which includes SWMU-9, POL Waste Discharge Area, SWMU-25, the Trash Burning Ground Property Disposal Office which includes Features 1, 2 and 5 on the 1962 aerial photo API-3 (from the 1995 Archive Search Report), and AOC-43, Railroad Classification Yard.

CLEANUP/EXIT STRATEGY

The majority of the cost and effort for Parcel 7 will occur at SWMU 25. The primary COCs are explosives, metals, and SVOCs.

CTC assumptions include:

- 1) A supplemental RFI will be completed with nine new wells and groundwater/soil sampling. A CMS will also be performed.
- 2) Corrective measures will consist of the excavation and offsite disposal of 6,250 cubic yards of soil.
- 3) LTM will include annual monitoring of six wells for five years.
- 4) This site will be included in a Site-wide Release Assessment Report (RAR), tracked under site FTWG-042.

The CMS will serve as the cost basis when completed and approved by the state.

Site ID: FTWG-11
Site Name: Admin Area, Sewage Treatment Plant
Alias: Parc 11,12

STATUS

Parcel: Parcel 11 (172 acres)

Regulatory Driver: RCRA

RRSE: LOW

Program: BRAC-IRP

Contaminants of Concern: Explosives, Metals, Munitions and explosives of concern, Pesticides, Polychlorinated Biphenyls, Semi-volatiles, Volatiles

Media of Concern: Groundwater, Soil

BRAC Round: BRAC I

Phases	Start	End
RFA.....	198910.....	199004
CS.....	198910.....	199004
RFI/CMS.....	199203.....	201409
DES.....	201410.....	201509
CMI(C).....	201510.....	201709
LTM.....	201710.....	204709

RIP Date: N/A

RC Date: 201709

SITE DESCRIPTION

As a result of the new RCRA permit, this site has been converted to a parcel. Parcel 11 includes the following sites:

- SWMU-3 Fenced Storage Yard (Former Storage Yard or DRMO Area, Extended Storage Yard, Former Coal Storage Area);
- SWMU-5 Building 5;
- SWMU-6 Building 11, (Former Locomotive Shop);
- SWMU-10 Sewage Treatment Plant (includes Buildings/Structures 22, T-37, 63, 69, 70, 71, 72, 73, 74a, 74b, 74c, 74d, 82, 83, document incinerator (document incinerator is FTWG-60 in AEDB-R), Structure 745, drainage ditch, septic system at sewage treatment plant);
- SWMU-23 Building 8 (Paint Shop or Carpenter Shop) and Building 7 (Paint Shop and Paint Storage Warehouse);
- SWMU-24 Building 15 (Garage and Storage Building);
- SWMU-37 Building 9 (Machine Shop and Signal Shop);
- SWMU-40 South Administration Area, Formerly named the Coal Tar Storage Tanks (Structures 58, 59, and 60),
- SWMU 48 Building 10
- SWMU 49 Building 12
- SWMU 50 Building 13
- SWMU 51 Building 29
- SWMU 52 Building T-33
- SWMU 53 Building 36
- SWMU 54 UST #5
- AOC 55 Structure T-49
- AOC 56 Building T-50
- AOC 72 Building 14
- SWMU 77 Building T-34
- AOC 83 Structure 63
- AOC 87 Structure 57
- SWMU-45 Building 6 (Gas Station);
- AOC-46 Above Ground Tank located near Building 11;
- AOC-47 TPL spill of photoflash powder west of Building 11;
- AOC-48 Building 34 (Fire Station);
- AOC-49 Structure 38 (End Loading Dock) and Structure 39 (Side Loading Dock);
- SWMU-50 Structure 35 (Underground Storage Tank #7 (UST) located by Building 45);
- AOC-51 Structure 64 (UST);
- AOC-52 Building 79 and Building 80 (Storage Vaults).

Munitions debris was found in SWMU 10 (20 millimeters (mm) with potential for 37 and 40 mm). Additional munitions debris was found near Buildings 12 and 13.

Site ID: FTWG-11
Site Name: Admin Area, Sewage Treatment Plant
Alias: Parc 11,12

Parcel 11 cleanup and transfer activities will include the AOC-75 of Parcel 12.

Parcel 11 covers 172 acres. Parcel 12 covers 160 acres.

CLEANUP/EXIT STRATEGY

The majority of the cost and effort will occur at SWMUs 6, 10, 23, 24, 37, 40, 45, and 50 with anticipated soil removal.

CTC assumptions are that a CMS will be performed and the CMI(C) will consist of the excavation and offsite disposal of 6,250 cubic yards of soil. MEC sifting (two acres at the sewer plant) will also be performed and LTM will include annual monitoring of 29 wells for 30 years.

A CMS will serve as the cost basis when completed and approved by the state.

Site ID: FTWG-12
Site Name: Eastern Landfill
Alias: Parcel 18

STATUS

Parcel: Parcel 18 (12 acres)

Regulatory Driver: RCRA

RRSE: LOW

Program: BRAC-IRP

Contaminants of Concern: Explosives, Metals, Pesticides, Polychlorinated Biphenyls, Semi-volatiles, Volatiles

Media of Concern: Groundwater, Soil

BRAC Round: BRAC I

Phases	Start	End
RFA.....	198910.....	199004
CS.....	198910.....	199004
RFI/CMS.....	199203.....	201309
DES.....	201410.....	201509
CMI(C).....	201510.....	201609
LTM.....	201610.....	204609

RIP Date: N/A

RC Date: 201609

SITE DESCRIPTION

This site has been converted to a parcel as a result of the new RCRA permit. This site includes SWMU-13 (Eastern Landfill).

This site represents a solid waste disposal area. This site covers an area of approximately five acres. Use of the landfill was stopped in 1968. Detections of elevated metals and trace levels of explosives were found in groundwater samples.

Two Geophysical Surveys have been performed to define the landfill boundaries.

The parcel covers 12 acres.

CLEANUP/EXIT STRATEGY

CTC assumptions are that a supplemental RFI with six new wells and groundwater sampling and a CMS will be completed. Furthermore, corrective measures will consist of the excavation and offsite disposal of 18,750 cubic yards of soil and debris and LTM will include annual monitoring of 10 wells for 30 years.

A CMS will serve as the cost basis when completed and approved by the state.

Site ID: FTWG-15
Site Name: Bivouac and Tank Training Area
Alias: Parcel 14

STATUS

Parcel: Parcel 14 (479 acres)

Regulatory Driver: RCRA

RRSE: LOW

Program: BRAC-IRP

Contaminants of Concern: Explosives

Media of Concern: Soil

BRAC Round: BRAC I

Phases	Start	End
RFA.....	198910.....	199004
CS.....	198910.....	199004
RFI/CMS.....	199203.....	200810

RIP Date: N/A

RC Date: 200810

SITE DESCRIPTION

As a result of the new RCRA permit, this site has been converted to a 479 acre parcel which includes site AOC-93, Bivouac and Tank Training Area. This site was identified as a result of an erroneous report that live fire occurred at this site. Interviews with the National Guard indicate that live fire did not occur at Parcel 14.

The RFA for Parcel 14 was conducted as part of the Release Assessment for Parcels 11 and 12. The Army will propose NFA to the Tribes and regulators. Funding assumptions will remain until the NFA is approved by the State.

CLEANUP/EXIT STRATEGY

No additional funding is required.

An NFA recommendation has been submitted.

Site ID: FTWG-18
Site Name: Former Structures or Buildings
Alias: Parcel 5

STATUS

Parcel: Parcel 5 (230 acres)

Regulatory Driver: RCRA

RRSE: HIGH

Program: BRAC-IRP

Contaminants of Concern: Explosives, Metals,
 Polychlorinated Biphenyls

Media of Concern: Soil

BRAC Round: BRAC I

Phases	Start	End
RFA.....	198910.....	199004
CS.....	198910.....	199005
RFI/CMS.....	199203.....	200909
DES.....	200810.....	201009
CMI(C).....	200810.....	201009

RIP Date: N/A

RC Date: 201009

SITE DESCRIPTION

As a result of the new RCRA permit, this site has been converted to a parcel covering 230 acres which includes AOC-78 (Feature 18 on 1973 aerial photo (API-5) in the 1995 Archive Search Report). The features in the aerial photograph are in the same location as former temporary storage buildings.

This parcel is divided by the west patrol road; 5B is on the west and 5A on the east. Parcel 5B may transfer prior to Parcel 5A because there are currently no AOCs or SWMUs.

The Parcel 5 schedule has been accelerated by roughly a year from the Part B schedule to facilitate transfer. Work on the Release Assessment Report (RAR) was scheduled to begin in May 2008. The incorrect completion date of September 2008 has been revised to September 2009 to allow for adequate time for implementation. Additional time and funding may be necessary if the state requires additional investigation work. Parcel 5 is being included with the RAR for Parcel 6.

CLEANUP/EXIT STRATEGY

The site will be investigated for contaminants resulting from demolition debris. Parcel 5A (AOC-78/82) will be included with the release assessment report for Parcel 6.

CTC assumptions are that the corrective measures will consist of the excavation of 500 cubic yards, offsite disposal of 625 cubic yards of soil, and stabilization of 563 cubic yards (four confirmation samples and two disposal samples will be collected) and the site will be included in a Site-wide Release Assessment Report (RAR), tracked under site FTWG-042.

A CMS will serve as the cost basis when completed and approved by the state.

Site ID: FTWG-21
Site Name: Igloo Block A
Alias: Parcel 24

STATUS

Parcel: Parcel 24 (427 acres)

Regulatory Driver: RCRA

RRSE: HIGH

Program: BRAC-IRP

Contaminants of Concern: Explosives, Metals, Pesticides

Media of Concern: Soil

BRAC Round: BRAC I

Phases	Start	End
RFA.....	198910.....	199004
CS.....	198910.....	199004
RFI/CMS.....	199203.....	200909
DES.....	200810.....	201009
CMI(C).....	200810.....	201009

RIP Date: N/A

RC Date: 201009

SITE DESCRIPTION

As a result of the new RCRA permit, this site has been converted to a parcel covering 427 acres which includes most of AOC-18 (Igloo Block A). The remaining portion of AOC-18 is part of Parcel 9.

The Parcel 24 schedule has been accelerated by roughly four years from the Part B schedule to facilitate transfer. Work on the Release Assessment Report (RAR) was scheduled to begin in May 2008. The incorrect completion date of September 2008 has been revised to September 2009 to allow adequate time for implementation. Additional time and funding may be necessary if the state requires additional investigation work. Parcel 4 is being included with the RAR for Parcel 24.

CLEANUP/EXIT STRATEGY

The CTC assumption is that the corrective measure will consist of the excavation and offsite disposal of 625 cubic yards of soil.

A CMS is not anticipated for this site.

Site ID: FTWG-26
Site Name: Aerial Photo Feature
Alias: Parcel 9

STATUS

Parcel: Parcel 9 (Army Retained) (196 acres)

Regulatory Driver: RCRA

RRSE: HIGH

Program: BRAC-IRP

Contaminants of Concern: Explosives, Metals, Pesticides,
Polychlorinated Biphenyls

Media of Concern: Groundwater, Soil

BRAC Round: BRAC I

Phases	Start	End
RFA.....	198910.....	199004
CS.....	198910.....	199004
RFI/CMS.....	199203.....	201409
DES.....	201410.....	201509
CMI(C).....	201510.....	201609

RIP Date: N/A

RC Date: 201609

SITE DESCRIPTION

As a result of the new RCRA permit, this site has been converted to a parcel covering 196 acres which includes AOC-85 (Feature 11-1 on 1962 aerial photo (API-3) in the 1995 Archive Search Report and Feature 1 (disturbed soils) on the 1973 aerial photo (API-5) in the 1995 Archive Search Report. This parcel also includes part of Igloo Block A.

At this time the cause of the disturbance is unknown. It may represent former building sites.

This parcel is being leased to the MDA.

CLEANUP/EXIT STRATEGY

CTC assumptions are that the CM will consist of the excavation and offsite disposal of 625 cubic yards of soil with four confirmation samples and the site will be included in a Site-wide Release Assessment Report (RAR), tracked under site FTWG-042.

A CMS is not anticipated for this site.

Site ID: FTWG-27
Site Name: Igloo Blocks E,F,G, T-422, P-Range
Alias: Parcel 19

STATUS

Parcel: Parcel 19 (Army Retained) (2187 acres)

Regulatory Driver: RCRA

RRSE: HIGH

Program: BRAC-IRP

Contaminants of Concern: Explosives, Metals, Pesticides, Polychlorinated Biphenyls, Semi-volatiles, Volatiles

Media of Concern: Groundwater, Soil

BRAC Round: BRAC I

Phases	Start	End
RFA.....	198910.....	199004
CS.....	198910.....	199004
RFI/CMS.....	199203.....	201509
DES.....	201510.....	201609
CMI(C).....	201510.....	201609

RIP Date: N/A

RC Date: 201609

SITE DESCRIPTION

As a result of the new RCRA permit, this site has been converted to a parcel covering 2,187 acres which includes the following sites:

AOC-31 Igloo Block E;

AOC-32 Igloo Block F;

AOC-34 Igloo Block G;

SWMU-39 Pistol Range;

AOC-58 Buildings 303 and 304 (Standard Magazines) and 320 (Field Dunnage Building along Arterial Road No. 3);

AOC-59 Building T-422 (former Building X-11, Normal Maintenance Building, Bomb and Shell Paint Building).

This site also includes part of AOC-30 (Igloo Block D).

This parcel is being leased to the MDA.

CLEANUP/EXIT STRATEGY

The majority of cost and effort for Parcel 19 is anticipated to occur at AOCs 31, 32, 34, and 59 with a soil removal. SWMU 59 will also be addressed in a soil removal. An RFA will also be completed at these sites. The RFA will be conducted as a supplement in the RFI phase.

CTC assumptions are that a supplemental RFI and a CMS will be completed, the ICM will consist of the excavation and offsite disposal of 3,125 cubic yards of soil, and the site will be included in a Site-wide Release Assessment Report (RAR) tracked under site FTWG-042.

The CMS will serve as the cost basis when completed and approved by the state.

Site ID: FTWG-28
Site Name: Group C Landfill, West Rifle Range
Alias: Parcel 2

STATUS

Parcel: Parcel 2 (Army Retained) (2379 acres)

Regulatory Driver: RCRA

RRSE: LOW

Program: BRAC-IRP

Contaminants of Concern: Explosives, Metals, Pesticides,
 Polychlorinated Biphenyls, White Phosphorous

Media of Concern: Groundwater, Soil

BRAC Round: BRAC I

Phases	Start	End
RFA.....	199409.....	199512
RFI/CMS.....	199605.....	201509
DES.....	201510.....	201609
CMI(C).....	201510.....	201609

RIP Date: N/A

RC Date: 201609

SITE DESCRIPTION

As a result of the new RCRA permit, this site has been converted to a parcel covering 2,379 acres which includes the following sites:

- SWMU-17 Western Rifle Range;
 - SWMU-22 Group C Landfill;
 - AOC-35 Igloo Block H;
 - AOC-36 Igloo Block J (includes Missile Launch Pad used by MDA);
 - AOC-76 Feature 19 on the 1973 aerial photo (API-5) in the 1995 Archive Search Report;
 - AOC-77 Feature 20 on the 1973 aerial photo (API-5) in the 1995 Archive Search Report.
- Part of Igloo Block C is also included in this parcel.

The OB/OD kickout area extends into Parcel 2.

This parcel is being leased to the MDA.

CLEANUP/EXIT STRATEGY

The majority of costs and effort for Parcel 2 is anticipated to be from soil removals at SWMUs 17 and 22, and at AOCs -35, -36, and -77.

CTC assumptions are that a supplemental RFI with five new wells and groundwater sampling and a CMS will be completed, the CMI(C) will consist of the excavation of 3,500 cubic yards, offsite disposal of 4,625 cubic yards of soil, and stabilization of 2,500 cubic yards (23 confirmation samples and 10 disposal samples will be taken), and the site will be included in a Site-wide Release Assessment Report (RAR), carried under FTWG-042.

A CMS will serve as the cost basis when completed and approved by the state.

Site ID: FTWG-30
Site Name: Central Landfill
Alias: Parcel 23

STATUS

Parcel: Parcel 23 (239 acres)

Regulatory Driver: RCRA

RRSE: LOW

Program: BRAC-IRP

Contaminants of Concern: Explosives, Metals, Pesticides,
Polychlorinated Biphenyls, Polycyclic Aromatic
Hydrocarbons, Semi-volatiles, Volatiles

Media of Concern: Groundwater, Soil

BRAC Round: BRAC I

Phases	Start	End
RFA.....	199409.....	199512
RFI/CMS.....	199605.....	201209
DES.....	201210.....	201309
CMI(C).....	201310.....	201409

RIP Date: N/A

RC Date: 201409

SITE DESCRIPTION

As a result of the new RCRA permit, this site has been converted to a parcel covering 239 acres which includes SWMU-21, Central Landfill and AOC-73, former buildings or structures along Road C-3.

All solid waste was removed from SWMU-21 in 1999 and disposed in a permitted offsite landfill. The RI identified SVOCs and metals exceeding background concentrations. Post-excavation sampling identified residual levels of SVOCs, pesticides, and metals.

CLEANUP/EXIT STRATEGY

Soil removals are anticipated to be conducted at SWMU-21 and at AOC-73.

CTC assumptions are that a supplemental RFI and a CMS will be completed and the CMI(C) will consist of the excavation and offsite disposal of 2,500 cubic yards of soil.

A CMS will serve as the cost basis when completed and approved by the state.

Site ID: FTWG-36
Site Name: POL Area, Fmr Admin and Utilities
Alias: Parcel 10

STATUS

Parcel: Parcel 10 (595 acres)

Regulatory Driver: RCRA

RRSE: LOW

Program: BRAC-IRP

Contaminants of Concern: Explosives, Metals, Polychlorinated Biphenyls, Semi-volatiles, Volatiles

Media of Concern: Soil

BRAC Round: BRAC I

Phases	Start	End
RFA.....	198910.....	199004
CS.....	198910.....	199004
RFI/CMS.....	199203.....	201109

RIP Date: N/A

RC Date: 201109

SITE DESCRIPTION

As a result of the new RCRA permit, this site has been converted to a parcel covering 595 acres which includes SWMU-26 (suspected POL Area) consisting of a large berm north of the Railroad Classification Yard and AOC-44 (Former Administration and Utilities Area).

The berm was previously sampled and acetone (suspected laboratory contaminant) was detected. Lead was also detected.

This parcel is divided into 10B on the east and 10A on the west. Parcel 10A may transfer prior to Parcel 10B.

CLEANUP/EXIT STRATEGY

An RFI is anticipated for SWMU 26. Parcel 10A will be added to the release assessment report for Parcels 4 and 24.

CTC assumptions include a supplemental RFI followed by permit closeout. This site will be included in a Site-wide Release Assessment Report (RAR), carried under FTWG-042.

Site ID: FTWG-38
Site Name: Igloo Bock D, Ammo Workshop
Alias: Parcel 22

STATUS

Parcel: Parcel 22 (628 acres)

Regulatory Driver: RCRA

RRSE: HIGH

Program: BRAC-IRP

Contaminants of Concern: Explosives, Metals, Perchlorate, Pesticides, Polychlorinated Biphenyls, Semi-volatiles, Volatiles

Media of Concern: Groundwater, Soil

BRAC Round: BRAC I

Phases	Start	End
RFA.....	198910.....	199004
CS.....	198910.....	199004
RFI/CMS.....	199203.....	201109
DES.....	201110.....	201209
CMI(C).....	201210.....	201509
LTM.....	201510.....	202509

RIP Date: N/A

RC Date: 201509

SITE DESCRIPTION

As a result of the new RCRA permit, this site has been converted to a parcel covering 628 acres which includes the following sites:
 All of AOC-30 Igloo Block D

SWMU-12 Building 536 (Inspectors Workshop and Ammunition Renovation Depot) (includes one former PCB transformer);

SWMU-27 Building 528 Complex, including Building 528 (Ammunition Normal Maintenance Building), Building 528A (temporary storage igloo),

AOC 121 Building 528B, temporary storage igloo AOC 122 Building 529

AOC 125 Building 550, vacuum collector barricade, A;

AOC-69 Buildings 301, 302, and 312 (Standard Magazines), Building 316 (Field Lunch Room);

SWMU-70 Disassembly Plant and TPL QA Test Area (Disassembly Plant includes Building 517, Structure 518, Building 519, Structure 520, Structure 521, Structure 547) Disassembly Plant and TPL QA Test and OB/OD Area;

AOC-71 Former rectangular structure near TMW-5 and north of Building 528;

AOC-88 Former buildings or structures and disposal areas southwest, south, and southeast of Building 528.

Perchlorate was detected in groundwater and soil.

This parcel was leased to TPL, Inc. with an expiration date of March 31, 2007. They have since vacated the area.

CLEANUP/EXIT STRATEGY

A soil removal is anticipated for SWMUs 12, 27, 70 and AOC 30. In-situ groundwater treatment is expected for the northern portion of the parcel.

CTC assumptions include:

- 1) An RFI, MEC characterization of 10 acres, and a CMS will be completed.
- 2) The CM will include in-situ groundwater treatment with 100 wells, three applications, and quarterly monitoring for three years.
- 3) A total of 10,125 cubic yards will be excavated and disposed offsite.
- 4) An in-place closure of a septic tank/cess pool and building demolition will be performed.
- 5) LTM will include annual sampling of eight wells for 10 years.

Site ID: FTWG-38
Site Name: Igloo Bock D, Ammo Workshop
Alias: Parcel 22

6) This site will be included in a Site-wide Release Assessment Report (RAR), tracked under site FTWG-042.

A CMS will serve as the cost basis when completed and approved by the state.

Site ID: FTWG-42
Site Name: Site-wide Tasks
Alias: Site-wide

STATUS

Parcel: NONE

Regulatory Driver: RCRA

RRSE: NOT EVALUATED

Program: BRAC-IRP

Contaminants of Concern: Explosives, Metals, Munitions and explosives of concern, Perchlorate, Pesticides, Polychlorinated Biphenyls, Polycyclic Aromatic Hydrocarbons, Semi-volatiles, Volatiles, White Phosphorous

Media of Concern: Groundwater, Soil, Surface Water

BRAC Round: BRAC I

Phases	Start	End
RFA.....	198910.....	199004
CS.....	198910.....	199004
CMI(C).....	200610.....	201909

RIP Date: N/A

RC Date: 201909

SITE DESCRIPTION

This site addresses permit-related site-wide tasks. These tasks include groundwater and surface water sampling, cultural resources support, operational record, conditional exemption storage, and annual revision of interim plan. MEC clearance in the arroyos, MEC avoidance, Ecological Risk Assessment, aerial photography, and GIS/Environmental Information Management Systems, and a Release Assessment Report (RAR) are also included.

The RAR reflects a consolidation of the RCRA Facility Assessments assumed last year for many of the individual parcels. Groundwater monitoring costs increased significantly, based on recent guidance from the state on the number of analytes required.

CLEANUP/EXIT STRATEGY

CTC assumptions include:

- 1) The CM will include semi-annual groundwater sampling at Parcel 3 (OBOD) for seven years and at Parcel 11/12 (North Area) for five years. 100 surface water samples are required over 10 years, Cultural Resources Support over 10 years, Operational Record Support over 10 years, Conditional Exemption Storage over 10 years, and annual revision of the Interim Plan over 10 years.
- 2) The CM will include MEC clearance in the arroyos over 10 years, MEC avoidance for 10 years, an ecological risk assessment, aerial photography, and GIS/Environmental Information Management Systems support over 10 years.
- 3) The CM will also include a Release Assessment Report (RAR) for the following Parcels: 2, 5, 7, 9, 10, 13, 16, 19, and 22. A total of 4,236 soil samples will be taken from igloos and revetments as part of the RAR.

Site ID: FTWG-49
Site Name: Igloo Block C
Alias: Parcel 4

STATUS

Parcel: Parcel 4 (429 acres)

Regulatory Driver: RCRA

RRSE: HIGH

Program: BRAC-IRP

Contaminants of Concern: Explosives, Metals, Pesticides

Media of Concern: Groundwater, Soil

BRAC Round: BRAC I

Phases	Start	End
RFA.....	198910.....	199004
CS.....	198910.....	199004
RFI/CMS.....	200610.....	200909
DES.....	200810.....	201009
CMI(C).....	200810.....	201009

RIP Date: N/A

RC Date: 201009

SITE DESCRIPTION

As a result of the new RCRA permit, this site has been converted to a parcel covering 429 acres which includes a portion of AOC-29 (Igloo Block C). Although part of AOC-78 is found under Parcel 4, it will be addressed entirely under Parcel 6. One of nine surface soil samples tested positive for HMX (2.29ppm - below residential screening levels).

This parcel is divided by the west patrol road; 4B is on the west and 4A on the east. Parcel 4B may transfer prior to Parcel 4A because there are currently no AOCs or SWMUs.

The Release Assessment Report for Parcel 4 is scheduled to begin in May 2008 in conjunction with Parcel 24. The incorrect completion date of September 2008 has been revised to September 2009 to allow for adequate time for implementation.

CLEANUP/EXIT STRATEGY

The CTC assumption is that the CM will consist of the excavation and offsite disposal of 625 cubic yards of soil with four confirmation samples.

A CMS will serve as the cost basis when completed and approved by the state.

Site ID: FTWG-63
Site Name: W Landfill, TNT Wrkshp, Igloo Blk B
Alias: Parcel 6

STATUS

Parcel: Parcel 6 (1035 acres)

Regulatory Driver: RCRA

RRSE: HIGH

Program: BRAC-IRP

Contaminants of Concern: Asbestos, Explosives, Metals, Pesticides, Polychlorinated Biphenyls, Semi-volatiles, Volatiles

Media of Concern: Groundwater, Soil

BRAC Round: BRAC I

Phases	Start	End
RFA.....	198910.....	199004
CS.....	198910.....	199004
RFI/CMS.....	200102.....	201209
DES.....	201210.....	201309
CMI(C).....	201310.....	201409
LTM.....	201410.....	202009

RIP Date: N/A

RC Date: 201409

SITE DESCRIPTION

As a result of the new RCRA permit, this site has been converted to a parcel covering 1,035 acres which includes the following sites:

- AOC-82 Feature 18 on 1973 aerial photo (API-5) in the 1995 Archive Search Report.
- SWMU-4 Building 600 (Building 539, Ammunition Work Shop Area Change House and Laundry);
- SWMU-8 Building 537 (Pesticide and Field Battery Shop);
- SWMU-11 Building 542 (Ammunition Workshop) and Building 541 (AEDB-R lists as Building 542/600)
- SWMU-20 Western Landfill, includes Features 3 and 4 on a 1962 air photo API-3 (1995 Archive Search Report);
- AOC-28 Igloo Block B;
- AOC-42 Building 516 (Ammunition Receiving Building);
- AOC-79 Feature 2 on 1973 aerial photo (API-5) in the 1995 Archive Search Report;
- AOC-80 Feature 9 on 1962 aerial photo (API-3) in the 1995 Archive Search Report;
- AOC-81 Feature 11 on 1962 aerial photo (API-3) in the 1995 Archive Search Report;
- AOC-83 Feature 22 on 1973 aerial photo (API-5) in the 1995 Archive Search Report;
- AOC-84 Feature 12 on 1962 aerial photo (API-3) in the 1995 Archive Search Report.

This parcel was leased to TPL, Inc. with an expiration date of March 31, 2007. They have since vacated the area. Work on the Release Assessment Report (RAR) is scheduled to begin in May 2008. This work will also include Parcel 5.

CLEANUP/EXIT STRATEGY

A soil removal is anticipated for SWMUs 8, 11, 20, and AOCs 28 and 42. AOC-78/82, which lies in parcels 6, 5A, and 4A, will be included in the release assessment report for parcel 6.

CTC assumptions include:

- 1) A supplemental RFI with seven new wells, groundwater/soil sampling, and 54 days of geophysical mapping will be completed. A CMS will also be performed.
- 2) The CM will consist of the excavation and offsite disposal of 10,625 cubic yards of soil. The CM will include decontamination of the 90-day storage area, remediation of two TPL areas with 500 cubic yards of soil each, two TPL areas with 100 cubic yards of soil each, and one TPL area with 1,000 cubic yards of soil.
- 3) LTM will include annual sampling of four wells for five years.

Site ID: FTWG-63
Site Name: W Landfill,TNT Wrkshp,Igloo Blk B
Alias: Parcel 6

A CMS will serve as the cost basis when completed and approved by the state.

Response Complete (No Further Action) Summary

Site ID	Site Name	NFA Date	Documentation
FTWG-02	BLDG. 515	200108	SWMU 2 - Now being addressed under FTWG-01 (Parcel 21)
FTWG-08	BUILDING 15	200109	SWMU 24 - Now being addressed under FTWG-11 (Parcel 11)
FTWG-09	STORAGE YARD	200109	Site no longer required under new RCRA Permit requirements
FTWG-16	PCP-TREATED WOOD STORAGE AREA	200008	Site no longer required under new RCRA Permit requirements
FTWG-17	FIRE TRAINING GROUND	200109	SWMU 7 - Now being addressed under FTWG-01 (Parcel 21)
FTWG-19	BLDG. 5	199812	SWMU 5 - Now being addressed under FTWG-11 (Parcel 11)
FTWG-20	MISSILE LAUNCH SITES	199810	Site no longer required under new RCRA Permit requirements
FTWG-22	BUILDING 11	200209	SWMU 6 - Now being addressed under FTWG-11 (Parcel 11)
FTWG-23	BLDG 29	200109	Site no longer required under new RCRA Permit requirements
FTWG-24	BLDG 8	200109	SWMU 23 - Now being addressed under FTWG-11 (Parcel 11)
FTWG-29	BLDG. 503	199812	Site no longer required under new RCRA Permit requirements
FTWG-32	COMPLIANCE - UST	199605	Site no longer required under new RCRA Permit requirements
FTWG-33	COMPLIANCE - FIRE HOUSE UST	199901	Site no longer required under new RCRA Permit requirements
FTWG-37	COAL TAR STORAGE AREA	200109	Site no longer required under new RCRA Permit requirements
FTWG-40	WESTERN RIFLE RANGE	200109	SWMU 17 - Now being addressed under FTWG-28 (Parcel 2)
FTWG-41	PCB SITES	199810	Site no longer required under new RCRA Permit requirements
FTWG-43	SEPTIC TANKS	200109	Site no longer required under new RCRA Permit requirements
FTWG-47	CURRENT LANDFILL	200109	Site no longer required under new RCRA Permit requirements
FTWG-48	IGLOO BLOCK B	200005	AOC 28 - Now being carried under FTWG-63

Response Complete (No Further Action) Summary

Site ID	Site Name	NFA Date	Documentation
			(Parcel 6)
FTWG-50	IGLOO BLOCK D (NON-BMDO)	200005	AOC 30 - Now being addressed under FTWG-38 (Parcel 22)
FTWG-51	IGLOO BLOCK K	200005	AOC 41 - Now being addressed under FTWG-001-R-01 (Parcel 16)
FTWG-52	IGLOO BLOCK A (MDA)	200005	Site no longer required under new RCRA Permit requirements
FTWG-53	IGLOO BLOCKS C - H, J (MDA)	200005	Site no longer required under new RCRA Permit requirements
FTWG-54	WESTERN LANDFILL	200209	SWMU 20 - Now being addressed under FTWG-10 (Parcel 7)
FTWG-60	DOCUMENT INCINERATOR	200109	Site no longer required under new RCRA Permit requirements
FTWG-61	BUILDING 9	200109	SWMU 37 - Now being addressed under FTWG-11 (Parcel 11)

BRAC-IRP Schedule

Date of BRAC-IRP Inception: 198910

Past Phase Completion Milestones

1990

RFA (FTWG-01 - TNT Beds, Deact Furn, Other Bldngs, FTWG-07 - Lake Knudson Area, FTWG-10 - POL Area, RR Classification Yard, FTWG-11 - Admin Area, Sewage Treatment Plant, FTWG-12 - Eastern Landfill, FTWG-15 - Bivouac and Tank Training Area, FTWG-18 - Former Structures or Buildings, FTWG-21 - Igloo Block A, FTWG-26 - Aerial Photo Feature, FTWG-27 - Igloo Blocks E,F,G, T-422, P-Range, FTWG-36 - POL Area, Fmr Admin and Utilities, FTWG-38 - Igloo Bock D, Ammo Workshop, FTWG-42 - Site-wide Tasks, FTWG-63 - W Landfill, TNT Wrkshp, Igloo Blk B, FTWG-49 - Igloo Block C, FTWG-60 - DOCUMENT INCINERATOR)

CS (FTWG-60 - DOCUMENT INCINERATOR, FTWG-01 - TNT Beds, Deact Furn, Other Bldngs, FTWG-07 - Lake Knudson Area, FTWG-10 - POL Area, RR Classification Yard, FTWG-11 - Admin Area, Sewage Treatment Plant, FTWG-12 - Eastern Landfill, FTWG-15 - Bivouac and Tank Training Area, FTWG-18 - Former Structures or Buildings, FTWG-21 - Igloo Block A, FTWG-26 - Aerial Photo Feature, FTWG-27 - Igloo Blocks E,F,G, T-422, P-Range, FTWG-36 - POL Area, Fmr Admin and Utilities, FTWG-38 - Igloo Bock D, Ammo Workshop, FTWG-42 - Site-wide Tasks, FTWG-49 - Igloo Block C, FTWG-63 - W Landfill, TNT Wrkshp, Igloo Blk B)

SI (FTWG-61 - BUILDING 9, FTWG-02 - BLDG. 515, FTWG-08 - BUILDING 15, FTWG-09 - STORAGE YARD, FTWG-16 - PCP-TREATED WOOD STORAGE AREA, FTWG-17 - FIRE TRAINING GROUND, FTWG-19 - BLDG. 5 , FTWG-20 - MISSILE LAUNCH SITES, FTWG-22 - BUILDING 11, FTWG-23 - BLDG 29, FTWG-24 - BLDG 8, FTWG-29 - BLDG. 503, FTWG-37 - COAL TAR STORAGE AREA, FTWG-40 - WESTERN RIFLE RANGE, FTWG-41 - PCB SITES, FTWG-43 - SEPTIC TANKS, FTWG-48 - IGLOO BLOCK B, FTWG-50 - IGLOO BLOCK D (NON-BMDO), FTWG-51 - IGLOO BLOCK K, FTWG-52 - IGLOO BLOCK A (MDA), FTWG-53 - IGLOO BLOCKS C - H, J (MDA))

PA (FTWG-61 - BUILDING 9, FTWG-02 - BLDG. 515, FTWG-08 - BUILDING 15, FTWG-09 - STORAGE YARD, FTWG-16 - PCP-TREATED WOOD STORAGE AREA, FTWG-17 - FIRE TRAINING GROUND, FTWG-19 - BLDG. 5 , FTWG-20 - MISSILE LAUNCH SITES, FTWG-22 - BUILDING 11, FTWG-23 - BLDG 29, FTWG-24 - BLDG 8, FTWG-29 - BLDG. 503, FTWG-37 - COAL TAR STORAGE AREA, FTWG-40 - WESTERN RIFLE RANGE, FTWG-41 - PCB SITES, FTWG-43 - SEPTIC TANKS, FTWG-48 - IGLOO BLOCK B, FTWG-50 - IGLOO BLOCK D (NON-BMDO), FTWG-51 - IGLOO BLOCK K, FTWG-52 - IGLOO BLOCK A (MDA), FTWG-53 - IGLOO BLOCKS C - H, J (MDA))

1993

INV (FTWG-32 - COMPLIANCE - UST)

ISC (FTWG-32 - COMPLIANCE - UST)

1995

RI/FS (FTWG-41 - PCB SITES)

ISC (FTWG-33 - COMPLIANCE - FIRE HOUSE UST)

DES (FTWG-33 - COMPLIANCE - FIRE HOUSE UST)

1996

IMP(C) (FTWG-32 - COMPLIANCE - UST)

RFA (FTWG-28 - Group C Landfill, West Rifle Range, FTWG-30 - Central Landfill, FTWG-47 - CURRENT LANDFILL, FTWG-54 - WESTERN LANDFILL)

CAP (FTWG-32 - COMPLIANCE - UST)

1997

RD (FTWG-19 - BLDG. 5)

RI/FS (FTWG-19 - BLDG. 5)

IMP(C) (FTWG-33 - COMPLIANCE - FIRE HOUSE UST)

1998

RA(C) (FTWG-20 - MISSILE LAUNCH SITES, FTWG-41 - PCB SITES)

BRAC-IRP Schedule

1998

CS (FTWG-47 - CURRENT LANDFILL)
 RD (FTWG-29 - BLDG. 503, FTWG-41 - PCB SITES)
 RI/FS (FTWG-29 - BLDG. 503)

1999

DES (FTWG-54 - WESTERN LANDFILL)
 RFI/CMS (FTWG-54 - WESTERN LANDFILL)
 RA(C) (FTWG-19 - BLDG. 5 , FTWG-29 - BLDG. 503)
 LTM (FTWG-33 - COMPLIANCE - FIRE HOUSE UST)
 IRA (FTWG-19 - BLDG. 5)

2000

RI/FS (FTWG-16 - PCP-TREATED WOOD STORAGE AREA, FTWG-22 - BUILDING 11, FTWG-48 - IGLOO BLOCK B, FTWG-50 - IGLOO BLOCK D (NON-BMDO), FTWG-51 - IGLOO BLOCK K, FTWG-52 - IGLOO BLOCK A (MDA), FTWG-53 - IGLOO BLOCKS C - H, J (MDA))
 RD (FTWG-22 - BUILDING 11)

2001

RI/FS (FTWG-61 - BUILDING 9, FTWG-02 - BLDG. 515, FTWG-08 - BUILDING 15, FTWG-09 - STORAGE YARD, FTWG-17 - FIRE TRAINING GROUND, FTWG-23 - BLDG 29, FTWG-24 - BLDG 8, FTWG-37 - COAL TAR STORAGE AREA, FTWG-40 - WESTERN RIFLE RANGE, FTWG-43 - SEPTIC TANKS)
 RFI/CMS (FTWG-60 - DOCUMENT INCINERATOR, FTWG-47 - CURRENT LANDFILL)

2002

CMI(C) (FTWG-54 - WESTERN LANDFILL)
 RA(C) (FTWG-22 - BUILDING 11)

Projected Phase Completion Milestones

See attached schedule

Projected Record of Decision (ROD)/Decision Document (DD) Approval Dates

Site ID	Site Name	ROD/DD Title	ROD/DD Date
FTWG-01	TNT Beds, Deact Furn, Other Bldngs	Parcel 21	20130930
FTWG-21	Igloo Block A	Parcel 24	20150930
FTWG-63	W Landfill, TNT Wrkshp, Igloo Blk B	Parcel 6	20150930
FTWG-18	Former Structures or Buildings	Parcel 5	20130930
FTWG-28	Group C Landfill, West Rifle Range	Parcel 2	20200930
FTWG-49	Igloo Block C	Parcel 4	20120930
FTWG-11	Admin Area, Sewage Treatment Plant	Parcel 11	20140930
FTWG-30	Central Landfill	Parcel 23	20160930
FTWG-07	Lake Knudson Area	Parcel 13	20140930
FTWG-10	POL Area, RR Classification Yard	Parcel 7	20190930
FTWG-12	Eastern Landfill	Parcel 18	20180930
FTWG-15	Bivouac and Tank Training Area	Parcel 14	20090401
FTWG-27	Igloo Blocks E,F,G, T-422, P-Range	Parcel 19	20200930

BRAC-IRP Schedule

FTWG-38	Igloo Bock D, Ammo Workshop	Parcel 22	20140930
FTWG-26	Aerial Photo Feature	Parcel 9	20160930
FTWG-36	POL Area, Fmr Admin and Utilities	Parcel 10	20170930

Final RA(C) Completion Date: 201909

NPL Deletion Date: N/A

Schedule for Next Five-Year Review: N/A

Estimated Completion Date of BRAC-IRP at Installation (including LTM phase): 204709

FORT WINGATE DEPOT ACTIVITY BRAC-IRP Schedule

= phase underway

SITE ID	SITE NAME	PHASE	FY09	FY10	FY11	FY12	FY13	FY14+
FTWG-01	TNT Beds, Deact Furn, Other Bldngs	RFA						
		CS						
		RFI/CMS						
		DES						
		CMI(C)						
		LTM						
FTWG-07	Lake Knudson Area	RFA						
		CS						
		RFI/CMS						
FTWG-10	POL Area, RR Classification Yard	RFA						
		CS						
		RFI/CMS						
		DES						
		CMI(C)						
		LTM						
FTWG-11	Admin Area, Sewage Treatment Plant	RFA						
		CS						
		RFI/CMS						
		DES						
		CMI(C)						
		LTM						
FTWG-12	Eastern Landfill	RFA						
		CS						
		RFI/CMS						
		DES						
		CMI(C)						
		LTM						
FTWG-15	Bivouac and Tank Training Area	RFA						
		CS						
		RFI/CMS						
FTWG-18	Former Structures or Buildings	RFA						
		CS						
		RFI/CMS						
		DES						
		CMI(C)						

FORT WINGATE DEPOT ACTIVITY BRAC-IRP Schedule

SITE ID	SITE NAME	PHASE	FY09	FY10	FY11	FY12	FY13	FY14+
FTWG-21	Igloo Block A	RFA						
		CS						
		RFI/CMS						
		DES						
		CMI(C)						
SITE ID	SITE NAME	PHASE	FY09	FY10	FY11	FY12	FY13	FY14+
FTWG-26	Aerial Photo Feature	RFA						
		CS						
		RFI/CMS						
		DES						
		CMI(C)						
SITE ID	SITE NAME	PHASE	FY09	FY10	FY11	FY12	FY13	FY14+
FTWG-27	Igloo Blocks E,F,G, T-422, P-Range	RFA						
		CS						
		RFI/CMS						
		DES						
		CMI(C)						
SITE ID	SITE NAME	PHASE	FY09	FY10	FY11	FY12	FY13	FY14+
FTWG-28	Group C Landfill, West Rifle Range	RFA						
		RFI/CMS						
		DES						
		CMI(C)						
SITE ID	SITE NAME	PHASE	FY09	FY10	FY11	FY12	FY13	FY14+
FTWG-30	Central Landfill	RFA						
		RFI/CMS						
		DES						
		CMI(C)						
SITE ID	SITE NAME	PHASE	FY09	FY10	FY11	FY12	FY13	FY14+
FTWG-36	POL Area, Fmr Admin and Utilities	RFA						
		CS						
		RFI/CMS						
SITE ID	SITE NAME	PHASE	FY09	FY10	FY11	FY12	FY13	FY14+
FTWG-38	Igloo Bock D, Ammo Workshop	RFA						
		CS						
		RFI/CMS						
		DES						
		CMI(C)						
		LTM						
SITE ID	SITE NAME	PHASE	FY09	FY10	FY11	FY12	FY13	FY14+
FTWG-42	Site-wide Tasks	RFA						
		CS						
		CMI(C)						

FORT WINGATE DEPOT ACTIVITY BRAC-IRP Schedule

SITE ID	SITE NAME	PHASE	FY09	FY10	FY11	FY12	FY13	FY14+
FTWG-49	Igloo Block C	RFA						
		CS						
		RFI/CMS						
		DES						
		CMI(C)						
SITE ID	SITE NAME	PHASE	FY09	FY10	FY11	FY12	FY13	FY14+
FTWG-63	W Landfill,TNT Wrkshp,Igloo Blk B	RFA						
		CS						
		RFI/CMS						
		DES						
		CMI(C)						
		LTM						

FORT WINGATE DEPOT ACTIVITY
Base Realignment and Closure
Military Munitions Response Program

BRAC-MMRP Summary

Installation Total Army Environmental Database-Restoration (AEDB-R) BRAC Sites/Response Complete (RC)

BRAC Sites*: 5/2

Installation Site Types with Future and/or Underway Phases*

- 2 Firing Range
(FTWG-001-R-01, FTWG-003-R-01)
- 1 Open Burn
(FTWG-002-R-01)

Most Widespread Contaminants of Concern*

Explosives, Metals, Munitions and explosives of concern, Munitions constituents, Perchlorate, Pesticides, Polychlorinated Biphenyls, Polycyclic Aromatic Hydrocarbons, Semi-volatiles, Volatiles

Media of Concern*

Groundwater, Sediment, Soil, Surface Water

Completed Remedial Actions (Interim Remedial Actions / Final Remedial Actions (IRA/FRA))*

Site ID	Site Name	Action	Remedy	FY	Cost
N/A					

Duration of BRAC-MMRP

Date of BRAC-MMRP Inception: 198910

Estimated Date for Remedy-In-Place (RIP)/Response Complete (RC): 202109/202109

Date of BRAC-MMRP completion including Long Term Management (LTM): 205209

***Note:** This does not include sites closed prior to installation being identified as BRAC.

BRAC-MMRP Contamination Assessment

Contamination Assessment Overview

Off-post MEC and munitions debris (MD) have been found on the west side of Parcel 3 stemming from detonations at the two OB/OD grounds. A 250-acre area, located to the west of the OB/OD Areas, outside the FWDA western property boundary, was cleared to a depth of 1 foot below ground surface in 1995 (UXB, 1995). This area consisted of off-site property identified as being contaminated with surficial MEC and MD from historical OB/OD Area operations ("kick-out"), during a site survey conducted by USACE, Huntsville Division. Additional MEC and munitions waste lies to the south, and possibly east of Parcel 3 in Parcel 1, which has already been transferred to the DOI. Additional survey and removal are required under the permit to address this issue.

Munitions known to have been stored or demilitarized at Fort Wingate are:

Projectiles:

20mm HEI	90mm Gun, HE, M71
37mm APC-T, M51	90mm Gun, HE-T, T91
37mm HE, M63	90mm Gun, APC-T, M82 w/BD
40mm HE-T, MK27	Fuze M52
57mm Gun, APC-T, M86	105mm Howitzer, WP, M60
57mm RR, HE, M306A1	105mm Smoke, HC, M84
60mm HE, M49A2 w/PD	105mm WP, T19E2 (mortar)
Fuze M52	4.2" HE, M329 w/PD M51A4
3" APHE	4.5" Prop Charge(rocket?)
75mm Gun, APC-T, M61	120mm Prop Charge
75mm Gun, HE, T50E2	155mm Howitzer, HE, M101
75mm HE, M41A1 w/PD	155mm WP, M110
Fuze M48	155mm Prop Charge
75mm Howitzer, HE	6" Gun Prop Charge
M48A1	8" Howitzer, HE, M103
76mm APC-T, M62A1	240mm
81mm WP, M57 w/PD	Fuze 81mm HE, M43A1
M52A2	

Bombs:

3-lb. Demolition	750-lb. Demolition
8-lb. Drift Signal	1,000-lb. GP, M44
20-lb. Frag	1,000-lb. SAP, AN-M59A1
23-lb. Frag, TNT, M72	2,000-lb. GP, AN-M66
90-lb. Frag, M82	2,000-lb. GP, AN-M34
100-lb. GP	2,000-lb. LC, T9
100-lb. GP, AN-M64	10,000-lb. Demolition,
100-lb. Frag, M1A1	T56E2
250-lb. GP	M83 "Butterfly"
500-lb. GP, AN-M64	BLU-3
500-lb. Demolition M43	BLU-4
500-lb. Frag, M26	Firebomb (napalm)

Other Munitions:

2.75" Rocket	Mine, AP, M2, M2A1, M2A4, M3
3.25" Target Rocker	Mine, AT, M15
3.5" Rocket, WP, M30	Mine, M6
3.5" Rocket, Practice,	Hand Grenade, Frag, M26
M29A2	TNT, bulk
4.5" Rocket, HE, T22	Rocket-propelled grenade,
5" Rocket	PG-9
Nike Missile	Trip Flare, M49
Fuze, Flare, Mech	Commercial (Police) gas
Time, M11	bomb (DM)

BRAC-MMRP Contamination Assessment

Cleanup Exit Strategy

FWDA served as an Army Depot from 1918 until 1993, when it was closed as a result of the Defense Authorization Amendments and BRAC of 1988. The installation's former mission was to receive, store, package, and ship munitions, and to dispose of those which were obsolete or deteriorated. Bulk explosives, large and small caliber munitions, and general purpose bombs were handled at FWDA. All military munitions, stored by FWDA during the active mission, were removed and transported to other installations around the time of closure in 1993. There were approximately 732 earth-covered igloos, 241 earthen revetments, and above standard above-ground magazines when the installation was closed. In total, 628 of the 732 igloos have been inspected, certified free from explosive hazard, and sealed. The remaining igloos, which have not been inspected, are in use by TPL or MDA (inert storage only), and will be subject to the same explosive safety inspection requirements prior to transfer.

MR activities (i.e., surveys and clearance) have been undertaken at various areas of FWDA, including FTR 1 (SWMU 38), FTR 2/3 (SWMU 16), Group C Landfill (SWMU 22), Building 530 (SWMU 72), the Document Incinerator at the Sewage Treatment Plant (SWMU 10), Igloo Block B (AOC 28), the Ballistic Missile Test Site at the former Southern Property (within Parcel 1), and the OB/OD Area. These activities have been conducted, to determine the extent of MEC contamination, that constituted an imminent and substantial endangerment to the local populace and site personnel, to support the ongoing environmental investigations and RCRA closure activities, and for various construction purposes. Additional MEC activities have included avoidance and removal and demolition support during environmental investigation and characterization efforts, as well as during building demolition activities.

FORT WINGATE DEPOT ACTIVITY

Military Munitions Response Program

Site Descriptions

Site ID: FTWG-001-R-01
Site Name: F. Test Range 2/3, Other Bldgs
Alias: Parcel 16

STATUS

Parcel: Parcel 16 (871 acres)

Regulatory Driver: RCRA

Program: BRAC-MMRP

MRSPP Score: Evaluation pending

Contaminants of Concern: Explosives, Metals, Munitions and explosives of concern, Munitions constituents, Perchlorate, Pesticides, Polychlorinated Biphenyls, Semi-volatiles

Media of Concern: Soil

BRAC Round: BRAC I

Phases	Start	End
RFA.....	200205.....	200305
RFI/CMS.....	200910.....	201709
DES.....	201710.....	201809
CMI(C).....	201810.....	202009

RIP Date: N/A

RC Date: 202009

SITE DESCRIPTION

As a result of the new RCRA permit, this site has been converted to a parcel covering 871 acres. The site was SWMU 14 (as an interim designation in the Draft Permit). It includes SWMU-16, Functional Test Range 2/3, AOC-41, Igloo Block K and AOC-57, Buildings 306, 307, 308, 309, 310 (Standard Magazines near Knudson Lake).

The RI at SWMU-16 found elevated barium and lead in one sediment sample. MEC was surface-cleared in 1998. Bulk high explosive (less than five pounds) was found on the ground surface in the area of one pre-1940's magazine. One each of 20mm practice, 20mm practice-tracer and 37mm armor-piercing rounds were found and removed.

An IRA soil removal is anticipated to occur at AOC-41. MEC clearance is anticipated at SWMU-16. An RFI is anticipated for SWMU-16 and an RFA is anticipated for AOC-41. The RFA will be conducted as a supplement in the RFI phase.

FTR No. 2 was used in the 1960s to test a variety of munitions, rockets, and mortars. FTR No. 3 was used in the same period to test high explosives.

CLEANUP/EXIT STRATEGY

A soil removal is anticipated to occur at AOC 41. MEC clearance is anticipated at SWMU 16. An RFI is anticipated for SWMU 16.

CTC assumptions include:

- 1) A supplemental RFI and a CMS will be completed. Geophysical mapping of 700 acres will also be performed.
- 2) The CM will consist of the excavation and offsite disposal of 625 cubic yards of soil. The CM will also include MEC surface clearance of 611 acres and subsurface clearance of 61 acres.
- 3) This site will be included in a Site-wide Release Assessment Report (RAR), carried under FTWG-042.

A CMS will serve as the cost basis when completed and approved by the state.

Site ID: FTWG-002-R-01
Site Name: OB/OD Area
Alias: Parcel 3

STATUS

Parcel: Parcel 3 (1807 acres)

Regulatory Driver: RCRA

Program: BRAC-MMRP

MRSPP Score: Evaluation pending

Contaminants of Concern: Explosives, Metals, Munitions and explosives of concern, Munitions constituents, Perchlorate, Polychlorinated Biphenyls, Semi-volatiles, Volatiles

Media of Concern: Groundwater, Sediment, Soil, Surface Water

BRAC Round: BRAC I

Phases	Start	End
RFA.....	200205.....	200305
RFI/CMS.....	200610.....	201608
DES.....	201410.....	201609
IRA.....	200609.....	202009
CMI(C).....	201510.....	202109
LTM.....	202110.....	205209

RIP Date: N/A

RC Date: 202109

SITE DESCRIPTION

As a result of the new RCRA permit, this site has been converted to a parcel covering 1,807 acres. The site was SWMU 15 (as an interim designation in the Draft Permit) and includes the following sites:

SWMU-14 Old Burning Ground and Demolition Landfill Area;

SWMU-15 Old Demolition Area;

SWMU-33 Waste Pile KP1;

SWMU-74 Area or Site 16(Proposed Burning Ground); AOC-89 Feature 30 and Feature 34 on 1973 aerial photo (API-5) in the 1995 Archive Search Report;

AOC-90 Feature 36 on 1973 aerial photo (API-5) in the 1995 Archive Search Report;

AOC-91 Feature 41 in the 1973 aerial photo (API-5) and Feature 27 on the 1978 historic aerial photo (API-7) in the 1995 Archive Search Report;

AOC-92 Feature 31 on the 1973 historic aerial photo (API-5) and Feature 21 on the 1978 aerial photo (API-7) in 1995 Archive Search Report.

Parts of Parcel 3 were used for open burning and open detonation for Off-Spec, obsolete and waste munitions, and explosives from 1940 to 1993. Types of munitions disposed of at Parcel 3 included large caliber artillery projectiles, general purpose bombs, improved conventional munitions (BLU-3 and BLU-4), M-83 Butterfly Bombs and munition components. An improved conventional munitions waiver is being submitted to USATCES to allow work to be done in Parcel 3.

The current open burning/open detonation operation occurred under RCRA interim status; therefore this portion of the OB/OD area will be closed as a hazardous waste management unit (HWMU) in accordance with RCRA Subtitle C.

Assumptions for this parcel were developed according to the RCRA permit which addresses the parcel in its entirety. Portions or all of this parcel might be retained by the Army. A significant reduction in the Kick-out area surface clearance costs was achieved this year by lowering the cost per acre assumption, based on actual data. This reduction was achieved in spite of an increase in the assumed number of acres requiring the surface clearance, based on recent investigations. The Kick-out area extends beyond depot property, requiring coordination with off post property owners.

In 2006, approximately three miles of chain-link fence was installed along the western boundary of Parcel 3 as required in the permit. A geophysical prove-out area was established just north of Parcel 3.

CLEANUP/EXIT STRATEGY

Site ID: FTWG-002-R-01
Site Name: OB/OD Area
Alias: Parcel 3

Assumptions for this parcel were developed according to the RCRA permit which addresses the parcel in its entirety. It is possible that portions of this parcel will be retained by the Army.

CTC assumptions are that a soil RFI, a groundwater RFI and a CMS will be performed; the ICM will include the Kickout Area MEC surface clearance (2,600 acres) and 14,000 feet of boundary fencing; and LTM will include annual sampling of 13 wells for 30 years.

The CM will consist of:

CM: Arroyo diversion excavation of 27,778 cubic yards and offsite MEC characterization of 200 acres.

CM-DA: 100 acres of MEC clearance to depth, 240 confirmation samples, and offsite disposal of 250 cubic yards.

CM-Sift: MEC excavation and sifting of the OB/OD area (34 acres, 219,413 cubic yards), offsite disposal of 13,713 cubic yards, MEC surface clearance/mapping (34 acres on excavated surface),

CM-CAMU: Excavation of 11,000 cubic yards and treatment by a thermal convection system (2,500 SCFM per event, three events),

CM-Final: MEC clearance to depth (65 acres), 156 confirmation samples, and offsite disposal of 200 cubic yards (from MEC clearance).

A CMS will serve as the cost basis when completed and approved by the state.

Site ID: FTWG-003-R-01
Site Name: Functional Test Range 1
Alias: Parcel 20

STATUS

Parcel: Parcel 20 (Army Retained) (1693.82 acres)

Regulatory Driver: RCRA

Program: BRAC-MMRP

MRSPP Score: Evaluation pending

Contaminants of Concern: Explosives, Metals, Munitions and explosives of concern, Munitions constituents, Perchlorate, Polycyclic Aromatic Hydrocarbons

Media of Concern: Groundwater, Soil

BRAC Round: BRAC I

Phases	Start	End
RFA.....	200205.....	200305
RFI/CMS.....	200306.....	201509
DES.....	201510.....	201609
CMI(C).....	201610.....	201709

RIP Date: N/A

RC Date: 201709

SITE DESCRIPTION

As a result of a the new RCRA permit, this site has been converted to a parcel covering 1,694 acres which includes SWMU-38, Functional Test Range 1.

A limited RFI found explosives, elevated metals, and POLs in selected areas. MEC found at Parcel 20 included propellant grains, 75mm smoke rounds, 60mm mortars, fuzes, and boosters. More than 124 total items were found.

This parcel is being leased by MDA.

FTR No. 1 is located in the east central part of the fort and was used for powder burning in the 1940s and for testing flares and grenades in the 1950s.

CLEANUP/EXIT STRATEGY

CTC assumptions are that a supplemental RFI with three new wells and groundwater sampling and a CMS will be completed. Geophysical mapping of 400 acres will be performed and the CM will consist of the excavation and offsite disposal of 6,250 cubic yards of soil. The CM will also include MEC surface clearance of 378 acres and subsurface clearance of 38 acres.

A CMS will serve as the cost basis when completed and approved by the state.

Response Complete (No Further Action) Summary

Site ID	Site Name	NFA Date	Documentation
FTWG-31	COMPLIANCE UXO REMEDIATION	199909	Site no longer required under new RCRA Permit requirements
FTWG-39	FUNCTIONAL TEST RANGE 2/3	200109	Now being addressed under FTWG-001-R-01.

BRAC-MMRP Schedule

Date of BRAC-MMRP Inception: 198910

Past Phase Completion Milestones

1990

SI (FTWG-39 - FUNCTIONAL TEST RANGE 2/3)

PA (FTWG-39 - FUNCTIONAL TEST RANGE 2/3)

1994

PA (FTWG-31 - COMPLIANCE UXO REMEDIATION)

2001

RI/FS (FTWG-39 - FUNCTIONAL TEST RANGE 2/3)

2003

RFA (FTWG-002-R-01 - OB/OD Area, FTWG-003-R-01 - Functional Test Range 1, FTWG-001-R-01 - F. Test Range 2/3, Other Bldgs)

Projected Phase Completion Milestones

See attached schedule

Projected Record of Decision (ROD)/Decision Document (DD) Approval Dates

Site ID	Site Name	ROD/DD Title	ROD/DD Date
FTWG-003-R-01	Functional Test Range 1	Parcel 20	20190930
FTWG-001-R-01	F. Test Range 2/3, Other Bldgs	Parcel 16	20170930
FTWG-002-R-01	OB/OD Area	Parcel 3	20200930

Final RA(C) Completion Date: 202109

NPL Deletion Date: N/A

Schedule for Next Five-Year Review: N/A

Estimated Completion Date of BRAC-MMRP at Installation (including LTM phase): 205209

FORT WINGATE DEPOT ACTIVITY BRAC-MMRP Schedule

= phase underway

SITE ID	SITE NAME	PHASE	FY09	FY10	FY11	FY12	FY13	FY14+
FTWG-001-R-01	F. Test Range 2/3, Other Bldgs	RFA						
		RFI/CMS						
		DES						
		CMI(C)						
SITE ID	SITE NAME	PHASE	FY09	FY10	FY11	FY12	FY13	FY14+
FTWG-002-R-01	OB/OD Area	RFA						
		RFI/CMS						
		DES						
		IRA						
		CMI(C)						
		LTM						
SITE ID	SITE NAME	PHASE	FY09	FY10	FY11	FY12	FY13	FY14+
FTWG-003-R-01	Functional Test Range 1	RFA						
		RFI/CMS						
		DES						
		CMI(C)						

FORT WINGATE DEPOT ACTIVITY

Base Realignment and Closure Closure-Related Compliance

BRAC-Compliance Summary

Installation Total Army Environmental Database-Restoration (AEDB-R) BRAC Sites/Response Complete (RC)

BRAC Sites*: 8/8

Installation Site Types with Future and/or Underway Phases*

Most Widespread Contaminants of Concern*

Media of Concern*

Completed Remedial Actions (Interim Remedial Actions / Final Remedial Actions (IRA/FRA))*

Site ID	Site Name	Action	Remedy	FY	Cost
FTWG-44	COMPL - ABOVEGROUND STORAGE TANKS	IRA	OTHER	1999	\$25.0 K
FTWG-64	IGLOO EXPLOSIVE INSPECTIONS	FRA	OTHER	2001	\$40.0 K
FTWG-35	COMPLIANCE - ASBESTOS REMOVAL	FRA	REMOVAL	2002	\$250.0 K

***Note: This does not include sites closed prior to installation being identified as BRAC.**

BRAC-Compliance Contamination Assessment

Contamination Assessment Overview

All Compliance-Related Cleanup sites are closed.

Cleanup Exit Strategy

FORT WINGATE DEPOT ACTIVITY

Closure-Related Compliance

Site Descriptions

Response Complete (No Further Action) Summary

Site ID	Site Name	NFA Date	Documentation
FTWG-34	COMPLIANCE - LBP REMOVAL	199804	Site no longer required under new RCRA Permit requirements
FTWG-35	COMPLIANCE - ASBESTOS REMOVAL	200208	Site no longer required under new RCRA Permit requirements
FTWG-44	COMPL - ABOVEGROUND STORAGE TANKS	199906	Site no longer required under new RCRA Permit requirements
FTWG-45	COMPLIANCE - RADON	199503	Site no longer required under new RCRA Permit requirements
FTWG-46	COMPLIANCE - RADIATION SURVEY	199906	Site no longer required under new RCRA Permit requirements
FTWG-55	STORM WATER PROJECT	200509	Site no longer required under new RCRA Permit requirements
FTWG-58	RCRA POST CLOSURE PERMIT	200109	Site no longer required under new RCRA Permit requirements
FTWG-64	IGLOO EXPLOSIVE INSPECTIONS	200109	Site no longer required under new RCRA Permit requirements

BRAC-Compliance Schedule

Past Phase Completion Milestones

1989	
RFA	(FTWG-58 - RCRA POST CLOSURE PERMIT)
1990	
PA	(FTWG-44 - COMPL - ABOVEGROUND STORAGE TANKS, FTWG-45 - COMPLIANCE - RADON, FTWG-46 - COMPLIANCE - RADIATION SURVEY, FTWG-64 - IGLOO EXPLOSIVE INSPECTIONS, FTWG-34 - COMPLIANCE - LBP REMOVAL, FTWG-35 - COMPLIANCE - ASBESTOS REMOVAL)
SI	(FTWG-35 - COMPLIANCE - ASBESTOS REMOVAL, FTWG-44 - COMPL - ABOVEGROUND STORAGE TANKS, FTWG-45 - COMPLIANCE - RADON, FTWG-46 - COMPLIANCE - RADIATION SURVEY, FTWG-64 - IGLOO EXPLOSIVE INSPECTIONS)
1991	
CS	(FTWG-58 - RCRA POST CLOSURE PERMIT)
1995	
RI/FS	(FTWG-45 - COMPLIANCE - RADON)
1996	
PA	(FTWG-55 - STORM WATER PROJECT)
1998	
RI/FS	(FTWG-35 - COMPLIANCE - ASBESTOS REMOVAL, FTWG-34 - COMPLIANCE - LBP REMOVAL)
1999	
IRA	(FTWG-44 - COMPL - ABOVEGROUND STORAGE TANKS)
RD	(FTWG-35 - COMPLIANCE - ASBESTOS REMOVAL)
RI/FS	(FTWG-44 - COMPL - ABOVEGROUND STORAGE TANKS, FTWG-46 - COMPLIANCE - RADIATION SURVEY)
2000	
RI/FS	(FTWG-55 - STORM WATER PROJECT)
2001	
RA(C)	(FTWG-64 - IGLOO EXPLOSIVE INSPECTIONS)
RFI/CMS	(FTWG-58 - RCRA POST CLOSURE PERMIT)
2002	
RA(C)	(FTWG-35 - COMPLIANCE - ASBESTOS REMOVAL)
2005	
LTM	(FTWG-55 - STORM WATER PROJECT)

Projected Phase Completion Milestones


See attached schedule

Projected Record of Decision (ROD)/Decision Document (DD) Approval Dates

Site ID	Site Name	ROD/DD Title	ROD/DD Date
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Estimated Completion Date of BRAC-Compliance at Installation (including LTM phase): 200509

FORT WINGATE DEPOT ACTIVITY BRAC-Compliance Schedule

 = phase underway

Community Involvement

Technical Review Committee (TRC): None

Restoration Advisory Board (RAB): RAB established 1994

RAB Adjournment Date:

RAB Adjournment Reason:

Community Involvement Plan (Date Published): 200609

Additional Community Involvement Information

A Restoration Advisory Board (RAB) was formed for FWDA in 1994. RAB meetings were generally held on a quarterly basis from 1993 until mid-2004, when the meetings were suspended between March 2004 and 2006, pending issuance of the RCRA permit. From February 1997 until March 2004, the BRAC Cleanup Team (BCT) met on a quarterly basis, with the RAB meeting two to four times per year during this period.

During mid-1993, environmental restoration activities at FWDA in support of the BRAC closure of the installation were initiated in earnest. Regularly scheduled contact with the Navajo and Zuni through the RAB process was initiated in the fall of 1994. In February of 1994, the BCT was established, with formal members of the BCT consisting of the FWDA BEC, and the designated points of contact from the NMED, the USEPA, Region 6, and the DOI. To date, Tribal interests at the BCT have been represented by the DOI, as a formal member of the BCT. The Zuni and Navajo have been included as ancillary members of the BCT since December 1997; each Tribe has been represented at most, if not all, of the meetings.

As part of the BCT and RAB process, all undertakings associated with the environmental restoration program at FWDA are routinely proposed well in advance of implementation (usually at the draft Work Plan stage) and discussed with the BCT and attendees. If possible, consensus decisions regarding specific activities are reached and plans are modified. As undertakings are implemented, interim progress reports are presented during the conduct of each specific activity.

In addition to the regularly scheduled BCT and RAB meetings concerning the environmental restoration activities at FWDA, in August 2002, FWDA initiated formal government-to-government consultation with the Navajo Nation and the Pueblo of Zuni, specifically regarding cultural resources within the OB/OD Area subject to closure (i.e., environmental cleanup) under RCRA. In September 2003, the Army initiated a cooperative project with the Pueblo of Zuni, the Navajo Nation and the National Association of Tribal Historic Preservation Officers for the identification and study of sacred sites and TCPs within the OB/OD Area. A number of interviews with Tribal informants, facilitated by coordination with the Tribes, are documented in an interim report. These activities provided significantly expanded information regarding the presence of, and cultural significance associated with numerous sacred resources and TCPs that were previously identified by installation-wide cultural resource surveys conducted by FWDA from 1991 through 1996.

In addition, FWDA was included in a study, sought to identify and evaluate key issues of concern to communities, regarding activities and operations at and around federal facilities conducted by NEJAC (see Section 3.0), as authorized by the USEPA Office of Environmental Justice. Native Americans representing a wide range of age groups within their communities were interviewed, as were members of the environmental restoration teams, from both the regulator and regulated perspectives. Input and recommendations from this study have been incorporated into the FWDA Community Relations Plan (CRP) and Consultation Plan.

The RAB was reactivated in September 2006, as work to implement the Permit began. Public attendance was poor, so the Army conducted an interest survey to determine if the RAB should remain active. In March 2007, after there was no response to the interest survey requests placed in the local media, the FWDA BEC chose to inactivate the RAB. Another survey was scheduled for the summer of 2008 to determine whether there is enough interest to reactivate the RAB. However, BCT meetings will continue to be held about twice a year. The FWDA RAB has not taken part in the Technical Assistance for Public Participation program to date.

Administrative Record is located at

Fort Wingate Depot Activity
Building 1

Community Involvement

Installation Headquarters
Fort Wingate, NM 87316

Information Repository is located at

Gallup Federal Building
Conference Room 162
301 West Hill
Gallup, NM 87316

Current Technical Assistance for Public Participation (TAPP) N/A

TAPP Title: N/A

Potential TAPP: N/A

