



DEPARTMENT OF THE AIR FORCE

HEADQUARTERS 49TH FIGHTER WING (ACC)
HOLLOMAN AIR FORCE BASE, NEW MEXICO



3 AUG 2000


MEMORANDUM FOR NEW MEXICO ENVIRONMENT DEPARTMENT

Attn: Cornelius Amindyas
Hazardous & Radioactive Materials Bureau
P.O. Box 26110
Santa Fe NM 87502

FROM: 49 CES/CEV
550 Tabosa Avenue
Holloman AFB NM 88330-8458

SUBJECT: Hazardous and Solid Waste Amendments (HSWA) Quarterly Report (Apr-Jun 00)

1. In accordance with Module IV, Section E, of Holloman AFB HSWA permit, attached please find the Apr-Jun 00 (third quarter FY 00) Quarterly Report.
2. If you have any questions, please contact Mr. Court Fesmire at (505) 572-5395.


HOWARD E. MOFFITT
Deputy Base Civil Engineer

Attachment:
HSWA Quarterly Report for Apr-Jun 00

cc: w/Atch
Mr. Allen Chang
USEPA, Region 6 (6 PD-N)
1445 Ross Ave
Dallas TX 75202-2733

Ms Julie Jacobs
New Mexico Environment Department
Ground Water Quality Bureau
1190 St Francis Dr
Santa Fe NM 87502

HOLLOMAN AIR FORCE BASE, NM

HAZARDOUS AND SOLID WASTE AMENDMENT

QUARTERLY REPORT

Apr-Jun 00

(Third Quarter FY 00)

I. INTRODUCTION

A. Pursuant to the Solid Waste Disposal Act, as amended by the Resource Conservation and Recovery Act (RCRA), as amended by the RCRA Statute (42 U.S.C. 6701, et seq.), as amended by the Hazardous and Solid Waste Amendments (HSWA) of 1984, a permit has been issued to Holloman AFB to operate a hazardous waste disposal facility.

B. This Quarterly Report is consistent with the terms and conditions of the permit found under Module IV.

II. DESCRIPTION OF WORK COMPLETED.

A. The following is a list of Solid Waste Management Units (SWMUs) and Installation Restoration Program (IRP) sites investigated under the IRP program. Also listed are the site descriptions and status as of this quarter.

SUMMARY OF HOLLOMAN AFB IRP/SWMU SITES

IRP/ SWMU #	Site Description	Material Disposed	Dates of Operation	Status
1/106	Main Base Landfill	Construction rubble, small quantities of solvents, waste oil, and pesticides	1958-1996	SC/LTM
2/AOC-T	POL Spill Site No. 1	JP-4 and other fuels	1960-1970s	LTO
3/114	POL Tank Sludge Burial Site	Sludges, rags, iron fragments	1955-1975	SC
4/102	Acid Trailer Burial Site	Acid trailer, lab equipment, bottles, spent rockets	1958	SC
5/AOC-T	POL Spill Site No. 2	JP-4	1978	LTO
6/AOC-R	Fuel Line Spill Site No. 2	JP-4	1979	SC
7/110	Rubble Disposal Site	Wood, nails, sheet metal	1965 - Present	SC
8/82	Refuse Collection Truck Washrack	Pesticides	1970s	SC/LTM
9/42	POL Drum Storage/Spill Area	Waste oils, solvents, hydraulic fluid, fuels	1965-1980	SC
10/101,109	Old Main Base Landfill	Domestic waste, incinerator ash, solvents, waste oil	1942-1958	SC/LTM
11/107	Main Base Electrical Substation	PCBs	Unknown-1979	SC
12/AOC-K	Fuel Line Spill Site No. 1	JP-4	1975	SC

IRP/ SWMU #	Site Description	Material Disposed	Dates of Operation	Status
13/AOC-J	Sodium Arsenite Spill Site	Sodium Arsenite	1979	SC
14/197	Former Entomology Shop	Pesticides	1968-1977	SC
15/80	Refrigeration/Heat Shop Washrack	Sulfuric Acid	1971-1981	SC
16/132,118 AOC-A	Existing Entomology Shop	Pesticides	1977-Present	SC/LTM
17/AOC-Q	BX Service Station Fuel Leak	Gasoline	1950s-Present	LTO
18/AOC-H	Chromic Acid Spill Site	Chromic Acid	1970s	SC
19/105	Golf Course Landfill	Grass clippings, rodenticides	1968-1978	SC/LTM
20/113A	WWTP Grit Burial Site	Sludge from grit chamber	1947-Present	SC
21/116	West Area Landfill No. 2	Paper bags, boxes, boards	1970-1977	SC/LTM
22/115	West Area Landfill No. 1	Plastic sheets, boxes, cans	1974-1978	SC/LTM
23/108	MOBSS Landfill	Diazinon, dibromochloromethane, construction debris, drums, buckets	1976-1979	SC/LTM
24/134	Former Equipment Maint. Area	Cleaners, waste solvents, oils	1959-1970	SC
25/166	Possible Drainage Lagoon Disposal Site	Pesticides, HTH, solvents	1977	SC
26/AOC-D	Possible Missile Fuel Spill Site	Waste fuels	1976	SC
27/141	Pad 9 Washrack Area	Radioactive Materials	1940s	SC
28/212	Former North Area Washrack	Oils, detergents, fuels	1950s	SC
29/104	Former Army Landfill	Spent munitions and missiles	1950s-1975	SC/LTM
30/113B	Grease Trap Disposal Pits	Wastes from grease trap	1959-Present	SC/LTM
31/170,171, 127,135,39	Fire Department Training Area	Waste oils, solvents, fuels	Unknown-1990	LTO
32/PRI-A	Sewer line from Primate Research Lab	Carbon-14, iodine, tritium, solvents	1960s-1981	SC
33/113B	Cooking Grease Disposal Pits	Cooking grease	Unknown-Present	SC/LTM
34	Spent Munitions Burial Site	Spent munitions	Unknown	SC

IRP/ SWMU #	Site Description	Material Disposed	Dates of Operation	Status
35/PRI-5	Spent Solvent Disposal Area	Radioactive tracers, solvents	1950s	SC
36/129,178	Unconventional Fuels Storage Site	JP-X, nitric acid, UDMH, aniline, JP-4	1950s	SC
37/AOC-L	Early Missile Testing Site	Fuels, lead oxide, nitrate compounds, acids	1947-1955	SC
38/137,138	Sled Test Maintenance Area	Waste oils, solvents, paint, strippers	1951-1979	SC
39/165,167, 177,179,181	Missile Fuel Spill Area	Oxidizers, fuels	Unknown-1975	SC/LTM
40/103	Causeway Rubble Disposal Site	Concrete rubble	Unknown- Present	SC
41/192	Coco Block House Borehole Disposal Site	Propellants, oxidizers	1960s	SC
42/111	Radioactive Material Burial Site	Radioactive material	1950s	SC
43/AOC-G	Atlas Electrical Substations	PCBs	Unknown-1979	NFA
44/AOC-P	Bldg. 301 Aircraft Maintenance Hangar	Heating oil, fuel	Unknown	SC/LTM
45/AOC-O	Old AGE Refueling Station	Gasoline, JP-4, diesel	Unknown-1980s	SC
46/130,AOC-S	JP-4 Spill Site	Waste JP-4	1978-1990	SC
47/21,22, 133	POL Washrack Discharge Area	Waste JP-4	1953-1993	LTO/NFAR/ SC/ASR
48/AOC-N	Military Gas Station	Gasoline	Unknown- Present	SC/LTM
49/148-154	Sewage Lagoons	Hazardous wastes	1943-1996	SC/ASR
50	Waste Disposal Pit	Can, drums	Unknown	SC
51/PRI-S	Primate Research Lab Borehole Disposal Site	Radioactive material, solvents	1950-Present	SC
56	West Ramp Fuel Spill	Fuels	Unknown- Present	SC
57/AOC-V	Officer's Club	Diesel, sulfurous compounds	1960-Present	LTO
58/231	Incinerator/Landfill	Ash from unconventional fuels, film	Unknown- Present	SC
59/19,20,229	T-38 Test Cell Fuel Spill Site	JP-4	1966-1991	LTO

IRP/ SWMU #	Site Description	Material Disposed	Dates of Operation	Status
60/230	Bldg 828 Fuel Spill Site	Diesel, gasoline, JP-4	1977-1991	LTO/NFAR ASR
61	Bldg 1001 Fuel Spill Site	Fuel, 1,2-DCA	1940's-1970s	RI/phase II
62	Ritas Draw	Unknown	Unknown	PA/SI/ASR
63	Ammunition Yard Disposal Area	Explosives, Fuel	1940's-1960's	PA
AOC-BBMS	Bare Base Mobility Squadron	JP-4	Unknown	SC
AOC-RR	Buried RR Cars	Waste oil, fuel	Unknown	SC

AOC Area of Concern (Air Force Designation)
 ASR Awaiting State Review (i.e., NMED review)
 FFCA Federal Facility Compliance Agreement
 IRA Interim Remedial Action
 LTM Long Term Monitoring
 LTO Long Term Operation
 NFAR No Further Action Requested
 PA/SI Preliminary Assessment/Site Investigation
 RA Remedial Action (includes report writing and submission)
 RI/FS Remedial Investigation/Feasibility Study
 SC Site Close-Out
 SI Site Investigation

III. SUMMARY OF FINDINGS.

SWMU 229 (IRP Site SS-59)

Operation of the T-38 Test Cell dual phase vapor extraction (DPVE) system is still shut down this quarter. Currently, only the 20 skimmers are being used and the free product collected in the JP-8 storage tank on site. Holloman has evaluated the feasibility of converting the current JP-8 fired thermal reduction system to natural gas. The conversion of the unit is on hold pending approval from Holloman Civil Engineering and utilities.

Approximately 232,549 gallons of product have actually been removed from the water table and soil to date. This system is anticipated to operate through 2001.

SWMU 230 (IRP Site SS-60)

Operation of the Bldg 828 Fuel Spill biovent system continued this quarter. All free product has been removed from the water table and NMED soil cleanup levels have been reached. Approximately 21,555 pounds of hydrocarbons have been removed and 2.15 million gallons of water treated since remediation commenced. The dual phase system remains shut down and the system continues to operate as a biovent. This action allows LTO to continue at the site with lower maintenance costs while HAFB proceeds with the final closure of the site. This site has been tentatively approved by NMED for removal from the Operating Permit pending submittal of the final Statement of Basis and permit action.

SWMU AOC-T (IRP Site 02/05)

The soil vapor extraction (SVE) system at SWMU AOC-T, the POL Spill Sites, continued to operate this quarter. To date, approximately 49,134 pounds of JP-4 have been removed. During routine Direct Push Technology (DPT) sampling at the site in the second quarter of this year, a void was discovered near the mid-section of the extraction well system. Within this void, free product is floating on the groundwater. Holloman has removed this site from consideration for NFA at this time and is programming money for a new project at the site. Two skimmer pumps have been installed to remove the free product. Approximately 380 gallons of free product have been removed from this part of the system to date.

SWMU 133 (IRP Site SD-47)

The biovent system at Building 703, Washrack Discharge Area, has remediated the soil to NMED soil cleanup levels. The biovent system has been removed from the site. Site characterization and NFA documentation have been submitted to NMED for approval. This site has been tentatively approved by NMED for removal from the Operating Permit pending submittal of the final Statement of Basis and permit action.

SWMUs 39, 127, 135, 170, 171 (IRP Site FT-31)

Last quarter, SWMUs 39, 127 and 135 were excavated and the contaminated soil removed from the site. The biovent system operations at SWMUs 170 and 171 were discontinued last quarter. Holloman is examining the feasibility of excavating the remaining contamination at this site. A decision regarding the removal action is expected in the fourth quarter.

AOC-Q (IRP Site SS-17)

A SVE system was installed in Sep 95 to remediate gasoline contaminated soil at the site. The system was comprised of 16 soil vapor recovery trenches and a thermal oxidation unit. The SVE system was converted into a biovent system.

The biovent is being converted back to a SVE system and the thermal oxidation unit will again be started up in the fourth quarter of FY00.

A total of approximately 68,701 pounds of contamination have been remediated by the SVE system to date.

SWMU AOC-V (IRP Site SS-57)

An air sparge/biovent/SVE system was installed (Nov 96) at the Officer's Club to remediate diesel contamination. The system is a combined sparge/SVE system designed to remediate the soil and promote aerobic activity, reducing levels of H₂S production at the site. The system was shut down last quarter. The system was re-started this quarter.

SWMU 136

The biovent system at SWMU 136 was excavated and the entire system removed during the last quarter. Site characterization and NFA documentation are being prepared and will be submitted to NMED for approval when complete.

SWMUs 148-154 (IRP Site WP-49)

The former sewage lagoons have been out of service since 1996. Construction activities associated with the closure began in the fall of 1996. Construction activities were completed in Dec 97. Final activity, including revegetation, fence repairs and deed notification preparations were completed during the second half of 1998. Final closure of the lagoons is pending. The closure report was submitted to NMED in Jul 99. The lagoons were inspected by the state in the second quarter of FY00 to determine compliance with the closure requirements. Holloman is working with EPA to close out the FFCA and roll any remaining issues in to the Operating Permit.

IV. PROJECTED WORK FOR THE NEXT REPORTING QUARTER – Jul to Aug 00

<u>TASK</u>	<u>ANTICIPATED COMPLETION DATE</u>
A. Long-Term Operation of SWMU 229 skimmers	Sep 02
Installation of natural gas auxiliary fuel line	Jan 01
B. Long-Term Operation of SWMU 230 DPVE System	ASR
C. Long-Term Operation of SVE System at SWMU AOC-T	Sep 01
Operation of new skimmer pumps to remove free product	Sep 01
D. DPT sampling to confirm size and location of hot spot at SWMUs 170 & 171	Aug 00
E. DPT sampling to confirm size and location of hot spot at SWMU AOC-V, the Officers Club	Aug 00
F. RCRA Permit Modification Request (HSWA Module)	Aug 00
G. Long-Term Operation of SVE System at SS-17	Sep 00
DPT sampling	Aug 00
H. Final closure of the sewage lagoons	Oct 00