

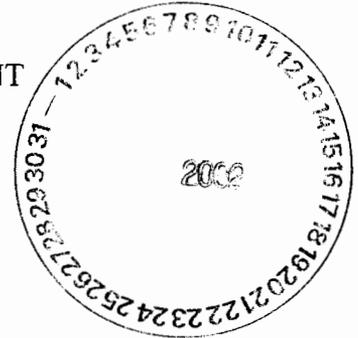


DEPARTMENT OF THE AIR FORCE

377th Civil Engineer Division(AFMC)
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RETURN RECEIPT REQUESTED

2 May 02

MEMORANDUM FOR MR. JOHN KIELING, MANAGER
RCRA PERMITS MANAGEMENT PROGRAM
HAZARDOUS WASTE BUREAU
NEW MEXICO ENVIRONMENT DEPARTMENT
2905 RODEO PARK ROAD
SANTA FE, NM 87505



FROM: 377 SPTG/CEVR
2050 Wyoming Blvd SE, Ste 122
Kirtland AFB NM 87117-5270

SUBJECT: RCRA CA Quarterly Report

1. We are submitting the quarterly RCRA Corrective Action report for the period 1 January through 31 March, 2002, as required by the conditions set forth in our RCRA Part B Permit, Module IV, Section E.
2. In a letter dated 24 Feb 02, the Base Commander established a chain of command delegating signature authority to the Compliance Section Chief for the Installation Restoration Program Section.
3. Please contact Mr. Jerry Sillerud at (505) 846-9004, Mr. Mark Holmes at (505) 846-9005, or me at (505) 846-8546 if you have any questions.


TERRY W. COOPER
Chief Compliance Section
Environment Management Branch

Attachment:

1. Quarterly Report
2. Base Commander Letter

KAFB2381



cc:

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Quarterly Report

**Kirtland AFB, New Mexico
1 Jan 02 through 31 Mar 02**

I. INTRODUCTION

A. Pursuant to the Solid Waste Disposal Act, as amended by the Resource Conservation and Recovery Act (RCRA), as amended by RCRA Statute (42 U.S.C. 6701, *et seq.*), as amended by the Hazardous and Solid Waste Amendments of 1984 (HSWA), a permit has been issued to Kirtland AFB to operate a hazardous waste disposal facility (ID No. NMD9570024423, October 10, 1990).

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

II. DESCRIPTION OF WORK COMPLETED

A. The following is a list of solid waste management units (SWMUs) listed as Corrective Action Units (CAU) in Module IV, areas of concern (AOCs), and sites not regulated under RCRA. Corrective action at these sites is conducted under the Installation Restoration Program (IRP) and the Environmental Compliance Program (ECP). Each site includes the CAU number, the Kirtland AFB identification number, and the site name.

CORRECTIVE ACTION UNITS ON ANNUAL UNIT AUDIT

Corrective Action Unit No.	KAFB No.	DESCRIPTION
6-1	LF-001	Landfill No. 1
6-2	LF-002	Landfill No. 2
6-3	LF-007	Landfill No. 3
6-4	LF-008	Landfill 4,5, & 6
	LF-268	Active Landfill
6-7	LF-018	Landfill A
6-8	LF-015	Landfill B
6-10	LF-009	Abandoned Landfill
6-11	LF-044	Fill Area SE of Sewage Lagoons
6-14	ST-051	Sewage Effluent Line
6-15	LF-045	Unnamed Dump
6-16	FT-013	Kirtland Fire Training Area
6-19	OT-029	EOD Range
6-22	OT-046	Lake Christian
6-24	WP-016	Manzano Sewage Treatment Facility
6-29	LF-020	Manzano Landfill
6-30	RW-006	Radioactive Burial 11
6-31	OT-028	McCormick Ranch Range
6-32	FT-014	Manzano Fire Training Area
6-A1	RW-021	Radioactive Burial 7
6-A2-A	RW-004	Radioactive Holding Tank 4
-B	RW-005	Radioactive Holding Tank 5
-C	RW-017	Radioactive Holding Tank 6
-D	RW-019	Radioactive Holding Tank 8
-E	RW-023	Radioactive Holding Tank 9
8-5	ST-201	Oil/Water Separator, Bldg 255
8-6	WP-047	Silver Recovery Unit
8-13	ST-071	Bldg 1000/1001 Oil/Water Separator (Former ST-221)
8-26	ST-242	Oil/Water Separator, Bldg 1063
	ST-243	Oil/Water Separator, Bldg 1063

8-28	ST-250	Oil/Water Separator, Bldg 20338
8-29	ST-251	Oil/Water Separator, Bldg 20344

Corrective Action Unit No.	KAFB No.	DESCRIPTION
8-31	ST-252	Oil /Water Separator, Bldg 20348
	ST-253	Oil/Water Separator, Bldg 20348
8-35	ST-214	Waste Oil Storage Tank, Bldg 471
8-41	ST-274	Waste Battery Storage Area, Bldg 20423
8-47	ST-261	Oil/Water Separator, Bldg 20423
8-49	SS-061	Fuel Shop Wst Batt Strg, Bldg 20677 (Former ST-265)
8-53	ST-335	Pnt Shop Flr Drn to Rock Bed, Bldg 20681
8-55	ST-262	Oil/Water Separator, CE Bldg 20698
8-58	ST-321	Battery Storage Area, Bldg 57007
9-4	ST-276	Waste Accumulation Area, Bldg 617
9-14	ST-270	Buried Caustic Drain Line, Bldg 617
9-15	ST-271	Neutralization Pit, Bldg 617
9-16	ST-272	Evaporation/Infiltration Pond, Bldg 617
9-20	SS-062	Bldg 909 Waste Accumulation Area (Former ST-277)
10-1-A	ST-278	Sanitary Sewer System A
10-1-B	ST-279	Sanitary Sewer System B
10-1-C	ST-280	Sanitary Sewer System C
10-1-D	ST-281	Sanitary Sewer System D
10-1-E	ST-282	Sanitary Sewer System E
10-1-F	ST-284	Sanitary Sewer System G
10-1-G	ST-327	Manzano Sanitary Sewer System
10-2-A	ST-325	Corrosion Cntrl Shop, Strm Drn, Bldg 482
10-2-B	ST-220	Paint Shop, Bldg 1001, Storm Drain
10-2-C	ST-220	Pltng & Anodizing, Bldg 1001, Storm Drain
10-2-D	ST-329	Propulsion Branch Floor Drains, Bldg 336
10-2-E	SS-063	Jet Engine Test Cell (Former ST-336)
10-2-F	ST-325	H-3/H-53, Phase Dock, Bldg 1000 Flr Drns
10-2-G	ST-331	C-130 Mntnc Shop, Bldg 1009, Strm Swr
10-2-H	ST-285	West Storm Sewer System
10-2-I	ST-286	East Storm Sewer System
10-3	ST-249	Waste Oil Storage Tank, Bldg 20205
10-7-A	ST-204	Sediment Trap, Bldg 333
	ST-205	Oil/Water Separator, Bldg 333
10-7-B	ST-206	Oil/Water Separator, Bldg 336
	ST-207	Oil/Water Separator, Bldg 336
	ST-208	Oil/Water Separator, Bldg 336
	ST-209	Catch Basin, Bldg 336
10-7-C	ST-212	Oil/Water Separator, Bldg 381
	ST-213	Area Drain, Bldg 381
10-7-D	ST-217	Oil/Water Separator, Bldg 481
10-7-E	ST-218	Oil/Water Separator, Bldg 482
10-7-F	ST-222	Oil/Water Separator, Bldg 1031
	ST-223	Sewage Ejector Unit, Bldg 1031
	ST-224	Area Drain, Bldg 1031
	ST-225	Holding Tank, Bldg 1031
10-7-G	ST-226	Oil/Water Separator, Bldg 1037
	ST-227	Holding Tank, Bldg 1037
10-7-H	ST-228	Area Drain, Bldg 1040
10-7-I	ST-229	Sewage Ejector Unit, Bldg 1043
10-7-J	ST-230	Oil/Water Separator, Bldg 1046
	ST-231	Holding Tank, Bldg 1046
	ST-232	Sewage Ejector Unit, Bldg 1046
	ST-233	Area Drain, Bldg 1046

10-7-K	ST-234	Oil/Water Separator, Bldg 1051
	ST-235	Oil/Water Separator, Bldg 1051
	ST-236	Oil/Water Separator, Bldg 1051
	ST-237	Area Drain, Bldg 1051

Corrective Action Unit No.	KAFB No.	DESCRIPTION
10-7-L	ST-238	Oil/Water Separator, Bldg 1056
	ST-239	Oil/Water Separator, Bldg 1056
10-7-M	ST-240	Holding Tank, Bldg 1058
10-7-N	ST-241	Oil/Water Separator, Bldg 1061
10-7-O	ST-244	Oil/Water Separator, Bldg 1064
	ST-245	Holding Tank, Bldg 1064
10-7-P	ST-246	Oil/Water Separator, Bldg 1070
10-7-Q	ST-254	Oil/Water Separator, Bldg 20365
10-7-R	ST-255	Oil/Water Separator, Bldg 20375
	ST-256	Oil/Water Separator, Bldg 20375
	ST-257	Oil/Water Separator, Bldg 20375
10-7-S	ST-259	Area Drain, Bldg 20422
10-7-T	ST-263	Oil/Water Separator, Bldg 23226
10-7-U	ST-264	Oil/Water Separator, Bldg 30142
10-7-V	ST-267	Oil/Water Separator, Bldg 57007
10-21-A	ST-287	Bldg 525 Septic System
10-21-B	ST-273	Bldg 618 Septic System, Chem Laser
	ST-288	Bldg 614 Septic System, Chem Laser
	ST-289	Bldgs 617/620 Septic System, Chem Laser
	ST-290	Bldg 619 Septic System, Chem Laser
	ST-291	Bldg 617 Septic System, Chem Laser
	ST-292	Bldg 622 Septic System, Chem Laser
	ST-348	Building 610 Septic Tank
	ST-349	Building 626 Septic Tank
	ST-351	Building 635 Septic Tank
	ST-352	Building 613/614 Septic Tank
10-21-C	ST-294	Bldg 633 Septic System, FAA Facility
	ST-295	Bldg 638 Septic System, FAA Facility
10-21-D	ST-296	Bldg 702 Septic System, Rnge & Ammo
	ST-297	Bldg 707 Septic System, Rnge & Ammo
	ST-298	Bldgs 730/734 Septic System, Rnge & Ammo
	ST-299	Bldg 751 Septic System, Rnge & Ammo
10-21-E	ST-300	Bldg 20199 Septic System
10-21-F	ST-301	Bldg 20560 Septic System
10-21-G	ST-302	Bldg 20599 Septic System
10-21-H	ST-303	Bldg 20749 Septic System
10-21-I	ST-304	Bldg 20797 Septic System
10-21-J	ST-305	Bldg 28054 Septic System
	ST-306	Bldg 28054 Septic System
10-21-K	ST-307	Bldg 30101 Septic System, Manzano Gate
	ST-315	Bldg 30102 Septic System, Manzano Gate
10-21-L	ST-308	Bldg 37511 Septic System
10-21-M	ST-309	Bldg 37504 Septic System
10-21-N	ST-310	Bldgs 37507/37508/37513 Septic System
	ST-322	Bldgs 37507/37508/37513 Septic System
10-21-O	ST-311	Plant 1 and Bldg 37501 Septic System
10-21-P	ST-312	Plant 2 and Bldg 37503 Septic System
10-21-Q	ST-313	Bldgs 37529/37530 Septic System
10-21-R	ST-293	Bldg 37570 Septic System
10-21-S	ST-314	Bldgs 48056/48059 Septic System
	ST-353	Building 48057 Septic Tank
	ST-354	Sheep Grooming Septic Tank

10-21-T	ST-355	Building 48062 Septic Tank
	ST-316	Bldgs 57003/57012 Septic System, CERF
	ST-317	Bldg 57011 Septic System, CERF
	ST-340	Bldgs 57001 and 57002 Septic System, CERF
10-21-U	ST-318	Bldg 37200 Septic System
10-21-V	ST-319	Bldg 37541 Septic System
10-21-W	ST-320	Bldg 20149 Septic System
10-21-X	ST-323	Bldg 29042 Septic System
10-21-Y	ST-324	Bldg 29051 Septic System

Corrective Action Unit No.	KAFB No.	DESCRIPTION
10-21-Z	ST-330	Bldg 1032 Septic System
10-21-AA	ST-333	Bldg 66001 Septic System, SOR
	ST-342	Bldg 66029 Septic System, SOR
	ST-343	Bldgs 66000/66008 Septic System, SOR
	ST-344	Bldg 66042 Septic System, SOR
	ST-345	Bldg 66006 Septic System, SOR
10-21-BB	ST-346	Trestle Site Septic Tank
WP-26	WP-026	Sewage Lagoons & Golf Course Pond
LF-56	LF-056	Landfill D
WP-58	WP-058	Bldg 20451, East Laundry
ST-59	ST-059	ART Drum
ST-60	ST-060	ART Pit
ST-64	ST-064	COE Vehicle Maintenance Yard (Former ST-337)
SS-65	SS-065	Horizontal Dipole Drum Rack (Former ST-338)
ST-66	ST-066	Trestle Facility OWS and Pit
DP-67	DP-067	Three Mine Shafts
RW-68	RW-068	Radium Dump/Slag Pile & Cratering Area
SS-69	SS-069	Drum Storage Area
ST-70-A	ST-070	Bldg 333/334 OWS & Sediment Trap (Former ST-202 & ST-203)
ST-70-B	ST-070	Bldg 377 OWS, Tank, & Drying Rack (Former ST-210)
ST-70-C	ST-070	Bldg 381, Oil/Water Separator (Former ST-211)
ST-70-D	ST-070	Bldg 471, 2 Oil/Water Separators (Former ST-215 & ST-216)
ST-70-E	ST-070	Bldgs 481/482 Oil/Water Separator (Former ST-219)
ST-70-F	ST-070	Bldg 2637 Oil/Water Separator (Former ST-247)
ST-70-G	ST-070	Bldg 20205 Oil/Water Separator (Former ST-248)
ST-70-H	ST-070	Bldg 20375 Oil/Water Separator (Former ST-256)
ST-70-I	ST-070	Bldg 20422 Oil/Water Separator (Former ST-260)
ST-72	ST-072	Bldg 30146, MWSA Security Garage OWS (Former ST-265)
ST 73	ST-073	CERF Drain
OT-74	OT-074	Pistol Range Sites
SS-76	SS-076	Fuel Tank Burn Area
SS-77	SS-077	Abandoned Railroad Spur
SS-78	SS-078	Water Tower Soils
SS-79	SS-079	Bldg 381 Spill Site
ST-80	ST-080	Bldg 30124, Auto Hobby Shop
SS-81	SS-081	Bldg 907 Detention Pond and Yard

SS-82	SS-082	ALECS Facility
SS-83	SS-083	Skeet Range and Landfill Road
RW-84	RW-084	Manzano Burial Sites
OT-86	OT-086	Former Small Arms Range
WP-87	WP-087	GRABS Site Waste Pile
DP-88	DP-088	Trestle Site Disposal Area
SS-89	SS-089	Transportation Yard
SD-90	SD-090	JATO Rocket Motor Disposal Site
OT-91	OT-091	South Coyote Firing Site
DP-99	DP-099	Bldg 29015 Disposal Pit
ST-100	ST-100	Coyote Springs Cesspool
DP-101	DP-101	Old EOD Disposal Pits
SS-102	SS-102	ARES Test Facility

Corrective Action Unit No.	KAFB No.	DESCRIPTION
SS-103	SS-103	Jet Engine Test Cell Spill Site
LF-107	LF-107	VA Hospital Demolition Debris Landfill
ST-326	ST-326	Waste Oil Storage Tank, Bldg 20375
ST-328	ST-328	Blast Overpressure Sites Cesspools
WP-339	WP-339	Contractor Yard West of Bldg 20423
ST-341	ST-341	Evap Pond/Condensate Tank, Bldg 1033
ST-347	ST-347	Building 29015 Cesspool

NEW UNITS NOT ASSIGNED A CAU NUMBER

Corrective Action Unit No.	KAFB No.	DESCRIPTION
N/A	ST-109	Acetone Spill Site

UNITS WITH FINAL NFA APPROVAL

Corrective Action Unit No.	KAFB No.	DESCRIPTION
None		

Non-RCRA UNITS (Included in Quarterly Report but Not HMB Oversight)

Corrective Action Unit No.	KAFB No.	DESCRIPTION
N/A	OT-010	Radiation Training Sites 5-8
N/A	RW-075	South Tijeras Rad Trench
N/A	RW-085	Manzano Maintenance Bldg
N/A	XU-092	Proximity Fuse Range
N/A	XU-093	Tijeras Mortar Range
N/A	XU-094	Coyote M-20 Range
N/A	XU-095	Tijeras Small Arms Ranges
N/A	XU-096	Frustration Mortar Range
N/A	XU-097	Field Firing Range
N/A	XU-098	McCormick Ranch Range (UXO)
N/A	XU-104	Military Munitions Rule Sites
N/A	ST-105	TCE and Nitrate Contaminated Grndwtr
N/A	ST-106	Spill At Bulk Fuels Facility
N/A	ST-108	Abandoned Fuel Lines

III. SUMMARY OF ACTIVITIES AND FINDINGS

A. SWMU Assessments and New CAUs and AOCs:

1. SWMU Assessments: No activity
2. New AOCs: No new AOCs identified

B. RCRA Facility Investigation (RFI):

1. Sampling and Analysis Plans (SAPs):
 - CAU RW-84, Manzano Burial Sites (RW-84): We continued developing the SAP for an additional geophysical survey.
2. Field Work:
 - CAU SS-102, ARES Test Facility (SS-102): We completed the installation of a downgradient groundwater monitoring well.
 - CAU SS-103, Jet Engine Test Cell Spill Site: The site assessment field efforts took place in August 2001. Analytical data evaluation and report preparation is currently taking place. The draft report will be submitted in April 2002.
 - CAU LF-107, VA Hospital Demolition Debris Landfill: The site assessment field efforts took place in August 2001. Test pit excavation and sampling at LF-107 took place in December. Analytical data evaluation and report preparation is currently taking place. The draft report will be submitted in April 2002.

- Request for Supplemental Information (RSI) from NMED for Additional Characterization at eight landfills: During this reporting period, the second phase of fieldwork continued, consisting of test pit excavation and soil sampling at six landfills. Soil gas sampling and test pit excavation and soil sampling will take place in the western portion of LF-02 during the first and second quarters of 2002. The sites are listed below:
 - CAU 6-1, Landfill 1 (LF-01)
 - CAU 6-2, Landfill 2 (LF-02)
 - CAU 6-3, Landfill 3 (LF-07)
 - CAUs 6-4, Landfills 4, 5 and 6 (LF-08)
 - CAU 6-8, Landfill B (LF-15)
 - CAU 6-20, Manzano Landfill (LF-20)
 - CAU 6-11, Landfill 44 (LF-44)
 - CAU LF-56, Landfill 56 (LF-56)

The RSI was submitted to Kirtland AFB in response to NMED review of the Phase II RCRA Facility Investigation. Planned field activities at these landfills include active soil gas sampling for methane, passive soil gas sampling for volatile organic compounds (VOCs), subsurface soil sampling, and test pit excavation. For the most part, the RSI is based on the evaluation of existing geophysical surveys and sampling results for the landfills, and new information available that indicates additional investigation is necessary in order to proceed with finalizing corrective measures studies, designs, and/or corrective measure implementation at these sites. The draft report presenting the results of the RSI field program at these sites will be submitted during the second quarter of 2002.

3. Reports:

- CAU 9-4, Building 617, Waste Accumulation Area (ST-276): We completed preparation of the draft RFI report.
- CAU ST-80, Building 30124, Manzano Auto Hobby Shop (ST-80): We completed preparation of the draft RFI report.

C. Risk Assessment:

1. Ecological Risk: No activity
2. Human Health Risk: No activity

D. Corrective Measures Study (CMS):

1. Work Plans: No activity

2. Study and Field Work:

- CAU ST-70-E, KAFB Oil/Water Separators (ST-70): We discontinued the pilot-scale bioventing test at the Bldg 481/482 OWS site to prevent the potential spread of vadose zone contamination. Collected samples from the soil vapor wells used in the bioventing test for VOCs. The results indicated that TCE, PCE, and DCE are present in the soil gas at site ST-70E (ST-219). Developed a work plan to perform a passive soil gas sampling event around the CAU to determine if the TCE present in the groundwater and vadose zone at the site is most likely from this CAU or potentially from an off-site source.

3. Reports:

- CAU 9-20, Building 909, Waste Accumulation Area (SS-62): We continued preparing the draft CMS report.
- CAU SS-69, Drum Storage Area (SS-69): We continued preparing the draft CMS report.
- CAU ST-72, Building 30146, MWSA Security Garage OWS (ST-72): We continued preparing the draft CMS report.
- CAU WP-339 South, Contractor Yard West of Bldg 20423 (WP-339 South): Draft RFI Report for the soil sampling activities is in review.
- CAU ST-341, Condensate Holding Tank and Evaporation Pond (ST-341): We continued preparing the draft CMS report.

E. Voluntary and Interim Corrective Measures (ICMs):

1. Work Plans:

- CAU OT-74, Pistol Range Sites (OT-74): We continued plan preparation for site cleanup.

2. Field Work:

- CAU 6-16, Kirtland Fire Training Area (FT-13): We continued site grading and drainage activities for installation of the Modified Asphalt Technology (MatCon) cap at the site.
- CAU 10-3, Waste Oil Storage Tank, Bldg 20205 (ST-249): We continued site grading and drainage activities for installation of the Modified Asphalt Technology (MatCon) cap at the site.
- CAU ST-64, COE Vehicle Maintenance Yard (ST-64): We continued site grading and drainage activities for installation of the Modified Asphalt Technology (MatCon) cap at the site.
- CAU OT-91, South Coyote Firing Site (OT-91): We initiated site cleanup. UXO clearance and site demolition was completed.

3. Reports:

- CAU 6-2, Landfill No. 2 (LF-02): The final completion report for the ICM (Tijeras Arroyo Stabilization) was submitted. This project is complete.
- CAU SS-78, Water Towers Soils (SS-78): We completed preparation of and submitted the final ICM report.
- CAU SS-79, Building 381 Spill Site (SS-79): We completed preparation of and submitted the final ICM report
- CAU WP-87, GRABS Site Waste Pile (WP-87): We completed preparation of the final ICM report.
- CAU ST-341, Condensate Holding Tank and Evaporation Pond (ST-341): We completed preparation of and submitted the final ICM report.

F. Corrective Measures (CMDs/CMIs):

1. Designs: No activity

2. Field Activities:

- CAU 6-4, Landfill No. 4,5,6 (LF-08): We continued construction of the evapo-transpiration cover.

3. Reports: No activity

G. Other Investigations and Activities:

1. Groundwater Monitoring (LTM):

- The Sept 2001 GMSP report has been submitted.
- The December 2001 quarterly well gauging and sampling event was completed in early January 2002.
- The Draft FY01 Annual LTM report is in review.
- The March semiannual detection monitoring event was initiated in mid March and will be completed in mid April.

2. Base-Wide Background and Hydrogeology:

- We continued to serve as a member of the HPT-Tijeras Arroyo Group to characterize the hydrogeology of the perched and regional aquifers in this area.

3. TCE Characterization and Abatement (ST-105):

- CAU 6-2, Landfill No. 2 (LF-002): Submitted Work Plan for investigation of potential TCE in the perched aquifer at this CAU. One monitoring well (KAFB-0219) was installed in the perched aquifer at the site.
- CAU 6-29, Manzano Landfill (LF-020): Submitted Work Plan for investigation of potential TCE in the perched aquifer at this CAU. One monitoring well (KAFB-LF-2004) was installed in the perched aquifer at this site.
- CAU 8-28, Oil/Water Separator Building 20338 (ST-250): Submitted Work Plan for investigation of potential TCE in the perched aquifer at this CAU. One monitoring well (KAFB-8-2802) was installed in the perched aquifer at this site.
- CAU WP-26, Sewage Lagoon and Golf Course Pond (WP-026): Submitted Work Plan for investigation of potential TCE in the perched aquifer at this CAU. Two monitoring wells (WP-26-01, WP-26-02) were installed at this site. One of the wells WP-26-02 was completed as a vapor well because a perched groundwater interval was not encountered.
- ST-105, TCE and Nitrate Contaminated Groundwater (ST-105):
- We continue to analyze for samples for the LTM and GMSP program for TCE.
- We continued to serve as a member of the HPT-Tijeras Arroyo Group to characterize the hydrogeology and the extent of the TCE contamination of the perched and regional aquifers in this area.

4. Nitrate Contamination (ST-105):

- We completed and submitted the Biannual Groundwater Monitoring Report for the Stage 1 Abatement Plan for Nitrate-Impacted Groundwater.
- We continued preparation of the final Stage 2 Abatement Plan for Nitrate-Impacted Groundwater Interim. The Stage 2 Abatement Plan proposes hydraulic control of the nitrate groundwater plume utilizing production well KAFB-7.
- We continued to serve as a member of the HPT-Tijeras Arroyo Group to characterize the hydrogeology and the extent of the nitrate contamination of the perched and regional aquifers in this area.
- We continue to analyze for samples for the LTM and GMSP program for nitrate.
- Installed, developed, sampled, and surveyed in one additional groundwater monitoring well (KAFB-0516) for the Nitrate Contaminated Groundwater as part of the Stage 1 Abatement Plan.

5. Management Action Plan (MAP) Update: No activity.

6. No Further Action (NFA):

- We began preparation of the Request for Supplemental Information for No Further Action Proposals for: CAUs SS-77, Abandoned Railroad Spur; SS-82 ALECS Facility; 10-2, Storm Sewer System; 10-21 Septic Tanks; and 8-35 Waste Oil Storage Tank.
- Met with NMED personnel to review NFA process and Class III Permit modification process.

7. Base-Wide Plan: No activity

8. HSWA Survey: No activity

9. Post Closure Care at CAU WP-26, Sewage Lagoons and Golf Course Main Pond: No activity

10. Radiation Training Sites 5-8 (OT-10):

- We completed preparation of and submitted the NRC's request for supplemental information to support an environmental assessment of the OT-10 decommissioning activities.
- We completed preparation of and submitted a technical memorandum on the RESidual RADiation (RESRAD) Dose Rate Modeling for OT-10. The RESRAD technical memorandum defines the soil remediation standard for the radiation training sites.
- We continued preparation of the remedial action work plan.

11. Spill at Bulk Fuels Facility (ST-106):

- Submitted Stage 2 Abatement Plan. Installed additional groundwater monitoring well to determine extent of EDB contamination detected in on-site well.

H. Budget and Program: Funding for our program was not received. The defense budget was approved, but not distributed to the services. There are 19 projects funded through the Installation Restoration Program for \$8,779,000 and 13 projects funded through the Environmental Compliance Program for \$3,535,000. The IRP budget was reduced due to a revised scope of work for RW-06 and reduced funding for OT-10 due to reallocation of funds at the DOD level.

I. Restoration Advisory Board (RAB):

- We held the RAB meeting on January 17, 2001. Kirtland AFB provided a briefing on the landfill cover construction and bulk fuels facility projects.

J. Perchlorate Survey: No activity

K. Military Munitions Rule: No activity

L. Range Inventory: No activity

IV. SUMMARY OF PROBLEMS

General: The Base Commander's requirement for contractor escorts resulting from the September terrorist attack, has been lifted. Contractors may now work unescorted at the base, but must have a picture ID and a base vehicle pass.

A. SWMU Assessments and New CAUs and AOCs: No problems encountered.

B. RCRA Facility Investigation:

- CAU SS-63, Jet Engine Test Cell. Funding has not been received for the planned Phase 2 RFI.
- CAU SS-103, Jet Engine Test Cell Spill. Funding has not been received for planned RFI.

C. Risk Assessment: No problems encountered.

D. Corrective Measures Study:

- CAU 6-32, Manzano Fire Training Area (FT-14): The data from the CMS indicate that there were still elevated levels of TPH in the surface soils after the ICM was completed. We submitted a CMS Work Plan to collect 5 additional soil samples to determine if the TPH levels are still present in the surface soils. NMED also has requested that deeper soil samples be collected and these will be included in the field effort.
- CAUs DP-88 and SS-102, Trestle Site Disposal Area (DP-088) and ARES Test Facility (SS-102): Funding has not been received for planned CMS at these sites.

E. Voluntary and Interim Corrective Measures: No problems encountered

F. Corrective Measures: No problems encountered.

G. Other Investigations and Activities:

1. Groundwater Monitoring: No problems encountered
2. Base-Wide Background and Hydrogeology: No problems encountered.
3. TCE Characterization and Abatement: No problems encountered.

4. Nitrate Contamination:

- The Stage 1 Abatement Plan groundwater sampling event scheduled for March 2002 was postponed due to a delay in project funding. We notified the NMED-GWQB of the delay in our proposed schedule. The sampling event has been tentatively rescheduled for June 2002.

5. Management Action Plan Update: No problems encountered.

6. No Further Action: No problems encountered.

7. Base-Wide Plan: No problems encountered.

8. HSWA Survey: No problems encountered.

9. Post Closure Care at CAU WP-26, Sewage Lagoons and Golf Course Main Pond:
No problems encountered

10. Radiation Training Sites 5–8 (OT-10): No problems encountered

11. Fuel Spill At Bulk Fuels Facility (ST-106): No problems encountered

- Funding to continue the design and clean-up activities specified in the Stage 2 Abatement Plan for this site has been delayed. We notified the NMED-GWQB of the delay of our proposed schedule.

H. Budget & Program: No problems encountered.

I. Restoration Advisory Board: No problems encountered.

J. Perchlorate Survey: No problems encountered.

K. Military Munitions Rule: No problems encountered.

L. Range Inventory: No problems encountered.

V. PROJECTED WORK FOR THE NEXT REPORTING QUARTER

A. SWMU Assessments: No work projected

B. RCRA Facility Investigation:

1. Sampling and Analysis Plans:

- CAU RW-84, Manzano Burial Sites (RW-84): We will submit the SAP for an additional geophysical survey at the site.

2. Field Work:

- CAU RW-84, Manzano Burial Sites (RW-84): We will identify the appropriate aerial geophysical technique for the survey and begin procurement of the subcontractor.
- CAU ST-106, Spill at the Bulk Fuels Facility: We will perform a pilot-scale soil vapor extraction test at this site once funding is received.
- CAU SS-102, ARES Test Facility (SS-102): We will complete sampling of the downgradient groundwater monitoring well.
- Request for Supplemental Information (RSI) from NMED for Additional Characterization at eight landfills: The second phase of fieldwork, consisting of test pit excavation and soil sampling at six landfills, to be continued in January, and completed in April. The contractor will provide the draft report for review in June. The sites are listed below:
 - CAU 6-1, Landfill 1 (LF-01)
 - CAU 6-2, Landfill 2 (LF-02)
 - CAU 6-3, Landfill 3 (LF-07)
 - CAU 6-4, Landfills 4, 5, & 6 (LF-08)
 - CAU 6-8, Landfill B (LF-15)
 - CAU 6-29, Landfill 20 (LF-20)
 - CAU 6-11, Landfill 44 (LF-44)
 - CAU LF-56, Landfill 56 (LF-56)

3. Reports:

- CAU WP-339 South, Contractor Yard West of Bldg 20423 (WP-339 South): We will submit the final RFI Report for the soil sampling activities.
- CAU DP-99, Building 29015 Disposal Pit (DP-99): We will complete the draft report of results from the nature and extent investigation.
- CAU SS-102, ARES Test Facility (SS-102): We will complete the draft report of results from the installation and sampling of a downgradient groundwater monitoring well.
- ST-108, Abandoned Fuel Lines (ST-108): We will complete the draft report of results from the nature and extent investigation.
- SS-103, Jet Engine Test Cell Spill Site: The contractor will provide the draft site assessment report to USACE, Kirtland AFB, and NMED for review in April.
- LF-107, VA Hospital Demolition Debris Landfill: The contractor will provide the draft site assessment report to USACE, Kirtland AFB, and NMED for review in April.
- CAU 9-4, Waste Accumulation Area, Building 617 (ST-276): We will submit the final RFI Report.
- CAU ST-80, Bldg 30124 Auto Hobby Shop (ST-80): We will submit the final RFI Report.
- We will submit the LTM Fiscal Year 2001 Annual Report

C. Risk Assessment:

1. Ecological Risk:

- a). We will initiate Ecological Risk Assessments/Screenings at the following CAUs: No activity planned.
- b). We will complete Ecological Risk Assessments at the following CAUs: No activity planned.

2. Human Health Risk

- a). We will initiate Human Health Risk Assessments/Screenings at the following CAUs: No activity planned.
- b). We will complete Human Health Risk Assessments at the following CAUs:
 - CAU 9-4, Waste Accumulation Area, Building 617 (ST-276)
 - CAU ST-80, Bldg 30124 Auto Hobby Shop (ST-80)
 - CAU ST-341, Evaporation Pond/Condensate Holding Tank, Building 1033 (ST-341)

D. Corrective Measures Study

1. Work Plans: No activity planned.

2. Field Work and Study:

- CAU 6-32, Manzano Fire Training Area (FT-14): We will collect five additional surface samples for TPH analysis.
- CAU ST-70-E, Kirtland Oil/Water Separators (ST-70): We will perform a passive soil gas sampling event to determine the source of the vadose zone and groundwater contamination detected at this site.

3. Reports:

- CAU 9-20, Bldg 909 Waste Accumulation Area (SS-62): We will complete and submit the CMS report.
- CAU SS-69, Drum Storage Area (SS-69): We will complete and submit the CMS report.
- CAU ST-70, Kirtland Oil/Water Separators (ST-70): We will begin review of the draft CMS report.

E. Voluntary and Interim Corrective Measures:

1. Work Plans:

- CAU 6-8, Landfill No. 15 (LF-015): The contractor will provide the final work plan to the USACE, Kirtland AFB, and NMED in May.
- CAU OT-74, Pistol Range Sites (OT-74): We will finalize plans for site cleanup.
- CAU ST-105, Nitrate Contamination and Abatement (ST-105): The interim corrective measures work plan has been renamed a Stage 2 Abatement Plan for Nitrate-Impacted Groundwater. We will complete and submit the final Stage 2 Abatement Plan.

2. Field Work:

- CAU 6-16, Kirtland Fire Training Area (FT-13): We will complete installation of the Modified Asphalt Technology (MatCon) cap at the site.
- CAU 10-3, Waste Oil Storage Tank, Bldg 20205 (ST-249): We will complete installation of the Modified Asphalt Technology (MatCon) cap at the site.
- CAU ST-64, COE Vehicle Maintenance Yard (ST-64): We will complete installation of the Modified Asphalt Technology (MatCon) cap at the site.
- CAU SS-81, Building 907 Detention Yard and Pond (SS-81): We will complete site cleanup.
- CAU OT-91, South Coyote Firing Site (OT-91): We will complete site restoration.

3. Reports:

- CAU 9-20, Bldg 909 Waste Accumulation Area (SS-62): We will submit the final ICM report as an appendix to the CMS report.
- CAU ST-72, Building 30146, MSWA Security Garage OWS (ST-72): We will submit the final ICM report as an appendix to the CMS report.
- The Final FY01 Annual LTM and Baseline Determination report will be submitted.
- The September and December FY01 LTM reports will be submitted.
- The March 2001 GMSP report will be submitted.

F. Corrective Measures

1. Designs:

- CAU 6-1, Landfill No. 1 (LF-01): Final design of the evapo-transpiration cover will be submitted for KAFB and NMED-HWB review.

2. Implementation:

- CAU 6-1, Landfill No. 1 (LF-01): We will begin construction of the evapo-transpiration cover.

G. Other Investigations and Activities:

1. Groundwater Monitoring: No LTM activity planned.

2. Base-Wide Background and Hydrogeology:

- We will continue to serve as a member of the HPT-Tijeras Arroyo Group to characterize the hydrogeology of the perched and regional aquifers in this area.

3. TCE Characterization and Abatement :

- We continued to serve as a member of the HPT-Tijeras Arroyo Group to characterize the extent of the TCE contamination of the perched and regional aquifers in this area.
- We will install and sample additional monitoring wells for the investigation of the TCE contamination

4. Nitrate Contamination:

- The second biannual sampling event has been tentatively rescheduled for June 2002.

5. Management Action Plan Update: No activity planned.

6. No Further Action:

- We have received formal notification from NMED that the following sites are appropriate for NFA and will submit a Request for a Class III Modification to the Hazardous Waste Permit Part B for Kirtland AFB to transfer the CAUs to No Further Action status:
 - CAU 6-16, Kirtland Fire Training Area (FT-013)
 - CAU 6-7, Landfill A (LF-18)
 - CAU 6-10, Abandoned Landfill (LF-09)
 - CAU 6-15, Unnamed Dump (LF-45)
 - CAU 8-53, Paint Shop Floor Drain Bldg 20681 (ST-335)
 - CAU 8-58, Battery Storage Area, Bldg 57007 (ST-321)
 - CAU 10-3, Waste Oil Storage Tank Bldg 20205 (ST-249)
 - CAU ST-66, Trestle Facility OWS and Pit (ST-66)
 - CAU RW-68, Radium Dump/Slag Pile and Crtr Area (RW-68)

- CAU SS-76, Fuel Tank Burn Area (SS-76)
- CAU SS-83, Skeet Range and Landfill Road (SS-83)
- CAU ST-326, Waste Oil Storage Tank Bldg 20375 (ST-326)
- CAU ST-328, BOP Site Cesspools (ST-328)

- CAU SS-77, Abandoned Railroad Spur (SS-77): We will complete and submit the RSI.
- CAU SS-82, ALECS Facility (SS-82): We will complete and submit the RSI.
- CAU 10-2, Storm Sewers: We will complete and submit the RSI.
- CAU 10-21, Septic Tanks: We will complete and submit the RSI.
- CAU 8-35, Waste Oil Storage Tank, Bldg 471: We will complete and submit the RSI.

7. Base-Wide Plan: No activity planned.

8. HSWA Survey: No activity planned.

9. Post Closure Care at Site WP-26, Sewage Lagoons and Golf Course Main Pond: No activity planned.

10. Radiation Training Sites 5-8 (OT-10):

- We will submit the corrective measures work plan.

11. Fuel Spill at Bulk Fuels Facility (ST-106):

- We will begin the pilot-scale soil vapor extraction tests upon receipt of funding.

H. Program and Budget: Upon receipt, we will begin distribution of the FY02 funding to our contractors for planning and implementation of the proposed FY02 projects.

I. Restoration Advisory Board: We will hold our next meeting on July 18, 2002 in conjunction with the DOE's Quarterly Meeting.

J. Perchlorate Survey: No activity planned.

K. Military Munitions Rule: No activity planned.

L. Range Inventory:

- Site XU-93, Tijeras Mortar Range: We will prepare a work plan for a records search on the site to confirm that the area was never used as a mortar range.



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