



DEPARTMENT OF THE AIR FORCE  
HEADQUARTERS 377TH AIR BASE WING (AFMC)

 ENTERED

NOV 13 2012



Colonel John C. Kubinec  
377 ABW/CC  
2000 Wyoming Blvd SE  
Kirtland AFB, NM 87117-5000

Mr. John Kieling, Manager  
RCRA Permits Management Program  
Hazardous Waste Bureau (HWB)  
New Mexico Environment Department (NMED)  
2905 Rodeo Park Road  
Santa Fe, New Mexico 87505

Dear Mr. Kieling

Kirtland Air Force Base (AFB) is pleased to submit its quarterly Resource Conservation and Recovery Act Corrective Action Report for the period 01 July – 30 September 2012 in compliance with Sections 6.1.6 and 6.2.4.1 of the July 2010 Hazardous Waste Treatment Facility Operating Permit, Permit No. NM9570024423.

If you have any questions concerning this report, please contact Ms. Victoria R. Martinez at (505) 846-6362 or at [victoria.martinez@kirtland.af.mil](mailto:victoria.martinez@kirtland.af.mil).

Sincerely

  
JOHN C. KUBINEC, Colonel, USAF  
Commander

Attachment: RCRA CA Quarterly Report 01 July – 30 September 2012

cc:

377 MSG/CEAN  
NMED-HWB (Mr. Moats)  
NMED-HWB (Mr. McDonald)  
EPA Region 6 (Ms. King)  
NMED-GWQB (Mr. Swanson)  
NMED-GWQB (Mr. Faris)  
NMED-GWQB (Mr. Olson)  
NMED-PSTB (Mr. Reuter)  
AFCEE/CMSE (Mr. Oyelowo)  
AFCEE/EXEC (Mr. Urrutia)  
USACE Omaha (Mr. Zink)  
Shaw Environmental (Mr. Cooper)

CH2M HILL (Ms. Minchak)  
TLI Solutions (Mr. Swanson)  
HGL (Ms. McNamara)  
EA Engineering (Ms. Radu)  
Public Info Repository (Central New Mexico)  
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File

KAFB3969



**ENVIRONMENTAL RESTORATION PROGRAM  
KIRTLAND AIR FORCE BASE, NEW MEXICO**

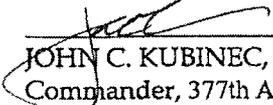
***RESOURCE CONSERVATION AND RECOVERY ACT*  
CORRECTIVE ACTION QUARTERLY REPORT  
1 JULY 2012 THROUGH 30 SEPTEMBER 2012  
EPA ID NM9570024423**

**October 2012**

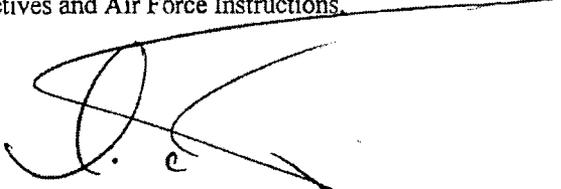
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40 CFR 270.11  
DOCUMENT CERTIFICATION  
OCTOBER 2012

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\_\_\_\_\_  
JOHN C. KUBINEC, Colonel, USAF  
Commander, 377th Air Base Wing

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KIRTLAND AIR FORCE BASE  
377th Air Base Wing Public Affairs

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## 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 was issued to Kirtland Air Force Base (AFB) to operate a hazardous waste treatment facility (EPA ID NM9570024423, July 2010).
- B. This Quarterly Report is consistent with the terms and conditions of the permit found under Sections 6.1.6 and 6.2.4.1. Item 2 in section 6.2.4.1, the requirement for lab data summary inclusion in quarterly reports, is met via site report submittals to avoid undue mass submittals and duplication efforts.

## II. DESCRIPTION OF WORK COMPLETED

The following tables list the Solid Waste Management Units (SWMUs) and areas of concern (AOCs) requiring corrective action as listed in Table I-3 of the RCRA permit, the SWMUs and AOCs for which corrective action is complete without controls as shown in Table K-1 of the RCRA permit, and sites not regulated under RCRA. Corrective action is conducted under the Kirtland AFB Environmental Restoration Program (ERP) and the Environmental Compliance Program (ECP). Each Kirtland AFB ERP or ECP site listed below includes the SWMU number, the Kirtland AFB identification number, and the site name.

### SWMUs and AOCs Requiring Corrective Action

| SWMU    | KAFB No. | Site Name                                     |
|---------|----------|---|
| 6-1     | LF-001   | Landfill No. 1                                |
| 6-2     | LF-002   | Landfill No. 2                                |
| 6-4     | LF-008   | Landfill 4, 5, & 6                            |
| 6-24    | WP-016   | Manzano Sewage Treatment Facility             |
| 6-30    | RW-006   | Radioactive Burial 11                         |
| 10-2-A  | ST-325   | Corrosion Control Shop, Storm Drain, Bldg 482 |
| 10-2-B  | ST-220   | Paint Shop, Bldg 1001, Storm Drain            |
| 10-2-C  | ST-220   | Plating & Anodizing, Bldg 1001, Storm Drain   |
| 10-2-D  | ST-329   | Propulsion Branch Floor Drains, Bldg 336      |
| 10-2-F  | ST-325   | H-3/H-53, Phase Dock, Bldg 1000 Floor Drains  |
| 10-2-G  | ST-331   | C-130 Maintenance Shop Bldg 1009, Storm Sewer |
| 10-2-H  | ST-285   | West Storm Sewer System                       |
| 10-2-I  | ST-286   | East Storm Sewer System                       |
| 10-7-V  | ST-267   | Oil/Water Separator, Bldg 57007               |
| 10-21-B | ST-288   | Bldg 614 Septic System                        |
|         | ST-289   | Bldgs 617/620 Septic System                   |
|         | ST-291   | Bldg 617 Septic System                        |
| 10-21-C | ST-294   | Bldg 633 Septic System                        |
|         | ST-298   | Bldgs 730 & 734 Septic System                 |
|         | ST-299   | Bldg 751 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                      |

| <b>SWMU</b>   | <b>KAFB No.</b> | <b>Site Name</b>  |
|---|-----------------|---|
| 10-21-S   | ST-314          | Bldgs 48056 & 48059 Septic System   |
| 10-21-T   | ST-316          | Bldgs 57003/57012 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-Z   | ST-330          | Bldg 1032 Septic System   |
| 10-21-AA  | ST-333          | Bldg 66001 Septic System, SOR   |
|   | ST-343          | Bldgs 66000/66008 Septic System, SOR                                      |
|   | ST-344          | Bldg 66042 Septic System, SOR   |
| 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-258)                            |
| ST-70-I   | ST-070          | Bldg 20422 Oil/Water Separator (Former ST-260)                            |
| ST-73   | ST-073          | CERF Drain  |
| DP-88   | DP-088          | Trestle Site Disposal Area  |
| WP-26   | WP-026          | Sewage Lagoons & Golf Course Pond   |
| SS-102  | SS-102          | ARES Test Facility  |
| RW-68   | RW-068          | Radium Dump/Slag Pile & Cratering Area ( <i>Reopened</i> )                |
| DP-67   | DP-67           | Three Mine Shafts ( <i>Reopened</i> )                                     |
| 6-19  | OT-029          | EOD Range ( <i>to be closed with the Open Burn/Open Detonation Unit</i> ) |
| ST-106  | ST-106          | Spill At Bulk Fuels Facility  |
| SS-111  | SS-111          | Bulk Fuels Facility Phase-Separated Hydrocarbon (PSH)                     |
| MBG   | ST-105          | Manzano Base Groundwater, TCE-Contaminated Groundwater                    |
| TAG   | ST-105          | Tijeras Arroyo Groundwater, TCE-Contaminated Groundwater                  |
| WYO-4   | ST-105          | Monitoring Well WYO-4 Area, TCE Contaminated Groundwater                  |
| McCormick Ranch <sup>a</sup>  | ST-105          | Nitrate-Contaminated Groundwater  |
| <sup>a</sup> The Nitrate-Contaminated Groundwater portion at ST-105 is regulated by the New Mexico Environment Department Ground Water Quality Bureau (NMED-GWQB). The TCE-contaminated groundwater at ST-105 is regulated by the NMED-Hazardous Waste Bureau (NMED-HWB). |                 |   |

**SWMUs and AOCs for which Corrective Action is Complete without Controls (Granted No Further Action Status)**

| <b>SWMU</b>   | <b>KAFB No.</b> | <b>Site Name</b>                             |
|---|-----------------|--|
| <b>Class 3 Permit Modification Dated 28 August 2003</b> |                 |  |
| 6-7   | LF-018          | Landfill A                                   |
| 6-10  | LF-009          | Abandoned Landfill                           |
| 6-15  | LF-045          | Unnamed Dump                                 |
| 6-16  | FT-013          | Kirtland Fire Training Area                  |
| 8-53  | ST-335          | Paint Shop Floor Drain Bldg 20681            |
| 8-58  | ST-321          | Battery Storage Area, Bldg 57007             |
| 10-3  | ST-249          | Waste Oil Storage Tank Bldg 20205            |
| ST-66   | ST-066          | Trestle Facility Oil/Water Separator and Pit |
| RW-68   | RW-068          | Radium Dump/Slag Pile & Cratering Area       |
| SS-76   | SS-076          | Fuel Tank Burn Area                          |
| SS-83   | SS-083          | Skeet Range & Landfill Road                  |
| ST-326  | ST-326          | Waste Oil Storage Tank Bldg 20375            |
| ST-328  | ST-328          | BOP Site Cesspools                           |

| <b>SWMU</b>  | <b>KAFB No.</b> | <b>Site Name</b>   |
|--|-----------------|--|
| <b>Class 3 Permit Modification Dated 3 August 2005</b>     |                 |  |
| 06-A1  | RW-021          | Radioactive Burial Site 7                                  |
| 08-49  | SS-061          | Bldg 20677 Fuel Shop Battery Storage Area (ST-275)         |
| DP-067   | DP-067          | Three Mine Shafts  |
| LF-056   | LF-056          | Landfill D   |
| OT-086   | OT-086          | Former Small Arms Firing Range Disposal Pit Building 29015 |
| RW-085   | RW-085          | Manzano Maintenance Building                               |
| SS-065   | SS-065          | Horizontal Dipole Drum Rack                                |
| SS-082   | SS-082          | ALECS Facility   |
| SS-103   | SS-103          | Jet Engine Test Fuel Line                                  |
| ST-059   | ST-059          | ART Drum   |
| ST-060   | ST-060          | Armament Research Test (ART) Facility Drain Pit            |
| <b>Class 3 Permit Modification Dated 21 September 2005</b> |                 |  |
| 06-08  | LF-015          | Landfill B   |
| 06-29  | LF-020          | Manzano Landfill ("Manzano Dump")                          |
| 06-A2-A  | RW-004          | Radioactive Holding Tank RB-4                              |
| 06-A2-B  | RW-005          | Radioactive Holding Tank RB-5                              |
| 06-A2-C  | RW-017          | Radioactive Holding Tank RB-6                              |
| 06-A2-D  | RW-019          | Radioactive Holding Tank RB-8                              |
| 06-A2-E  | RW-023          | Radioactive Holding Tank RB-9                              |
| 08-13  | ST-071          | Bldg 1000/1001 Oil/Water Separator (Formerly ST-221)       |
| 09-14  | ST-270          | Buried Caustic Drain Line Bldg 617                         |
| 09-15  | ST-271          | Neutralization Pit Bldg 617                                |
| 09-16  | ST-272          | Evaporation/Infiltration Pond Bldg 617                     |
| 10-21-OO   | ST-355          | Riding Stables Residence                                   |
| 10-21-S  | ST-353          | Building 48057 Septic Tank                                 |
| 10-21-S  | ST-354          | Sheep Grooming Septic Tank                                 |
| OT-010   | OT-010          | Radiation Training Sites 5-8 (TS5, TS6, TS7)               |
| RW-075   | RW-075          | South Tijeras Radiation Trench                             |
| SS-069   | SS-069          | Drum Storage Area  |
| ST-100   | ST-100          | Coyote Springs Cess Pool                                   |
| ST-341   | ST-341          | Condensate Tank Bldg 1033                                  |
| WP-058   | WP-058          | East Laundry Bldg 20451                                    |
| <b>Class 3 Permit Modification Dated 29 November 2005</b>  |                 |  |
| 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 Building 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                              |

| <b>SWMU</b>   | <b>KAFB No.</b> | <b>Site Name</b>  |
|---|-----------------|---|
|   | ST-235          | Oil/Water Separator Bldg 1051                                     |
|   | ST-236          | Oil/Water Separator Bldg 1051                                     |
|   | ST-237          | Area Drain Bldg 1051  |
| 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          | Oil/Water Separator Bldg 20422                                    |
| 10-7-T  | ST-263          | Oil/Water Separator Bldg 23226                                    |
| 10-7-U  | ST-264          | Oil/Water Separator Bldg 30142                                    |
| <b>Class 3 Permit Modification Dated 27 February 2006</b> |                 |   |
| 6-14  | ST-051          | Sewage Effluent Line  |
| 8-5   | ST-201          | Oil/Water Separator, Bldg 255                                     |
| 8-6   | WP-047          | Silver Recovery Unit  |
| 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                                   |
| 8-31  | ST-252          | Oil /Water Separator, Bldg 20348                                  |
|   | ST-253          | Oil/Water Separator, Bldg 20348                                   |
| 8-41  | ST-274          | Waste Battery Storage Area, Bldg 20423                            |
| 8-47  | ST-261          | Oil/Water Separator, Bldg 20423                                   |
| 8-55  | ST-262          | Oil/Water Separator, CE Bldg 20698                                |
| 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-283          | Sanitary Sewer System F   |
| 10-1-G  | ST-284          | Sanitary Sewer System G   |
| 10-1-H  | ST-327          | Manzano Sanitary Sewer System                                     |
| <b>Class 3 Permit Modification Dated 2 June 2006</b>      |                 |   |
| AOC DP-101  | DP-101          | Old EOD Disposal Pits   |
| 6-31  | OT-028          | McCormick Range Ranch   |
| OT-074  | OT-074          | Pistol Range Sites  |
| OT-091  | OT-091          | South Coyote Firing Range   |
| AOC RW-084  | RW-084          | Manzano Burial Site   |
| SD-090  | SD-090          | JATO Rocket Motor Disposal Site                                   |
| 9-20  | SS-062          | Bldg 909 Inactive Waste Accumulation Area (SS-62) (Former ST-277) |
| AOC SS-081  | SS-081          | Detention Pond and Yard Bldg 907                                  |
| ST-72   | ST-072          | MWSA Security Garage Oil/Water Separator Bldg 30146               |
| AOC DP-099  | DP-099          | Disposal Pit Bldg 29015   |
| FT-15   | FT-015          | NMERI Fire Suppression Test Area                                  |
| SS-079  | SS-079          | Bldg 381 Spill Site   |
| SS-078A   | SS-078A         | Water Tower Soils - 21650   |
| AOC SS-089  | SS-089          | Transportation Yard   |
| ST-080  | ST-080          | Manzano Auto Hobby Shop Bldg 30124                                |
| 10-21-B   | ST-273          | Bldg 618 Septic System, Chemical Laser                            |
| 9-4   | ST-276          | Waste Accumulation Area Bldg 617                                  |
| ST-347  | ST-347          | Building 29015 Cess Pool  |

| <b>SWMU</b>   | <b>KAFB No.</b> | <b>Site Name</b>                                    |
|---|-----------------|---|
| 10-21-B   | ST-351          | Building 635 Septic Tank                            |
| 10-21-B   | ST-352          | Building 613/614 Septic Tank                        |
| WP-087  | WP-087          | Grab Site Waste Pile                                |
| WP-339  | WP-339          | Contractor Yard West of Building 20423              |
| LF-268  | LF-268          | Active Landfill                                     |
| <b>Class 3 Permit Modification Dated 17 July 2007</b> |                 |   |
| 6-11  | LF-044          | Fill Area SE of Sewage Lagoons                      |
| SS-77   | SS-077          | Abandoned Railroad Spur                             |
| 6-22  | OT-046          | Lake Christian                                      |
| 6-32  | FT-014          | Manzano Fire Training Area                          |
| 8-35  | ST-214          | Waste Oil Storage Tank, Bldg 471                    |
| 10-2-E  | SS-063          | Jet Engine Test Cell (Former ST-336)                |
| 10-21-B   | ST-348          | Building 610 Septic Tank                            |
|   | ST-349          | Building 626 Septic Tank                            |
| ST-64   | ST-064          | COE Vehicle Maintenance Yard (Former ST-337)        |
| SS-078-B  | SS-078-B        | Water Tower 21871                                   |
| SS-078-C  | SS-078-C        | Water Tower 2474                                    |
| SS-078-D  | SS-078-D        | ITRI WTs  |
| LF-107  | LF-107          | VA Hospital Demolition Debris Landfill              |
| ST-108  | ST-108          | Abandoned JP-4 Fuel Line                            |
| <b>Class 3 Permit Modification Dated 4 April 2008</b> |                 |   |
| 10-21-A   | ST-287          | Building 525 Septic System                          |
| 10-21-B   | ST-290          | Building 619 Septic System                          |
| 10-21-B   | ST-292          | Building 622 Septic System                          |
| 10-21-C   | ST-295          | Building 638 Septic System                          |
| 10-21-D   | ST-296          | Building 702 Septic System                          |
| 10-21-D   | ST-297          | Building 707 Septic System                          |
| 10-21-E   | ST-300          | Building 20199 Septic System                        |
| 10-21-F   | ST-301          | Building 20560 Septic System                        |
| 10-21-G   | ST-302          | Building 20599 Septic System                        |
| 10-21-H   | ST-303          | Building 20749 Septic System                        |
| 10-21-I   | ST-304          | Building 20797 Septic System                        |
| 10-21-J   | ST-305          | Building 28054 Septic System                        |
| 10-21-J   | ST-306          | Building 28050 Septic System                        |
| 10-21-K   | ST-307          | Building 30101 Septic System                        |
| 10-21-L   | ST-308          | Building 37511 Septic System                        |
| 10-21-K   | ST-315          | Building 30102 Septic System                        |
| 10-21-T   | ST-317          | Building 57011 Septic System                        |
| 10-21-W   | ST-320          | Building 20149 Septic System                        |
| 10-21-X   | ST-323          | Building 29042 Septic System                        |
| 10-21-Y   | ST-324          | Building 29051 Septic System                        |
| 10-21-AA  | ST-342          | SOR Building 66029 Septic System                    |
| 10-21-AA  | ST-345          | SOR Building 66006 Septic System                    |
| 10-21-BB  | ST-346          | Trestle Site Septic System                          |
| 6-3   | LF-007          | Landfill 3  |
| ST-356  | ST-356          | Skeet Range Septic Tank (Domestic Sewage)           |
| 10-21-X   | ST-350          | 600 Area Field Office Septic Tank (Domestic Sewage) |

**Non-RCRA Units**  
**(Included in Quarterly Report but not subject to**  
**Hazardous Waste Management Regulations)**

| SWMU  | KAFB No. | Site Name   |
|---|----------|---|
| N/A   | UST 58   | UST Site 58   |
| ST-105  | ST-105   | Trichloroethene (TCE) and Nitrate Contaminated Groundwater <sup>a</sup> |
| EOD Hill  | EOD Hill | Perchlorate Contaminated Groundwater                                    |
| <sup>a</sup> The Nitrate-Contaminated Groundwater portion at ST-105 is regulated by the New Mexico Environment Department Ground Water Quality Bureau (NMED-GWQB). The TCE-contaminated groundwater at ST-105 is regulated by the NMED-Hazardous Waste Bureau (NMED-HWB). |          |   |

**III. SUMMARY OF ACTIVITIES AND FINDINGS**

**A. SWMU Assessments and New SWMUs and AOCs:**

1. **SWMU Assessments:** SWMU Assessment Reports have been developed for four new AOCs, as follows:
  - Building 57001,
  - Zia Park Area,
  - Asphalt Dump Area, and
  - Transient Alert Pad.
2. **New AOCs:** The AOCs listed above are being investigated to determine if a release was made at these sites. SWMU Assessment Reports were to NMED. Accelerated Corrective Measures Work Plans have been developed and delivered to NMED. Field work (sampling of sites) has been completed and KAFB is currently awaiting results.

**B. RCRA Facility Investigation (RFI):**

1. **Sampling and Analysis Plans (SAPs):** No planned activities.
2. **Field Work:** No planned activities.
3. **Reports:** No planned activities.

**C. Risk Assessment:**

1. **Ecological Risk:** No planned activities.
2. **Human Health Risk:** No planned activities.

**D. Corrective Measures Study (CMS):**

1. **Work Plans:** No planned activities.
2. **Study and Field Work:** No planned activities.
3. **Reports:** No planned activities.

**E. Accelerated and Interim Corrective Measures (ACMs/ICMs):**

**1. Work Plans:**

- SWMU ST-70-E, Oil/Water Separator (OWS) (ST-070): Kirtland AFB submitted a request to extend the deadline for submittal of an investigation work plan required by the NMED in their 23 July 2012 letter.

**2. Field Work:**

- SWMU ST-70-E, Oil/Water Separator (OWS) (ST-070): The soil vapor extraction (SVE) system operations and field monitoring activities continued during the reporting period.

**3. Reports:**

- SWMU ST-70-E, Oil/Water Separator (OWS) (ST-070): The January to June 2012 ICM Report was completed and submitted to the NMED.

**F. Corrective Measure Designs/Implementations (CMDs/CMIs):**

**1. Designs:** No planned activities.

**2. Implementation:** No planned activities.

**3. Remedial Action Operation:**

- SWMU 6-1, Landfill 1 (LF-001): Quality Assurance Project Plan (QAPP) for SWMUs 6-1 (LF-001), 6-2 (LF-002) and 6-4 (LF-008) was submitted to NMED during the third quarter 2011 and comments are still pending. After regulatory approval, this plan will replace the groundwater monitoring components of the November 2006 Long-Term Monitoring and Maintenance Plan for SWMUs 6-1, SWMU 6-2, and 6-4, under which groundwater monitoring has been performed to date.
- Monthly inspections of the condition of the landfill evapotranspirative (ET) cover were performed.
- Quarterly groundwater monitoring well gauging took place in July. Current contracted 2011-2012 project work is 100 percent complete.
- A new task order was awarded to HydroGeoLogic, Inc. on August 30, 2012 for RA-O at LF-001. A project kickoff meeting was held on September 13, 2012. A September 2012 monthly inspection of the condition of the landfill evapotranspirative (ET) cover was performed.
- SWMU 6-2, Landfill 2 (LF-002): Quality Assurance Project Plan (QAPP) for SWMUs 6-1 (LF-001), 6-2 (LF-002) and 6-4 (LF-008) was submitted to NMED during the third quarter 2011 and comments are still pending. After regulatory approval, this plan will replace the groundwater monitoring components of the November 2006 Long-Term Monitoring and Maintenance Plan for SWMUs 6-1, SWMU 6-2,

and 6-4, under which groundwater monitoring has been performed to date.

- Monthly inspections of the condition of the landfill ET cover were performed.
- Quarterly groundwater monitoring well gauging took place in July. Current contracted 2011-2012 project work is 100 percent complete.
- A new task order was awarded to HydroGeoLogic, Inc. on August 30, 2012 for RA-O at LF-001. A project kickoff meeting was held on September 13, 2012. A September 2012 monthly inspection of the condition of the landfill evapotranspirative (ET) cover was performed.
- SWMU 6-4, Landfills 4, 5, and 6 (LF-008): Quality Assurance Project Plan (QAPP) for SWMUs 6-1 (LF-001), 6-2 (LF-002) and 6-4 (LF-008) was submitted during the third quarter 2011 to NMED and comments are still pending. After regulatory approval, this plan will replace the groundwater monitoring components of the November 2006 Long-Term Monitoring and Maintenance Plan for SWMUs 6-1, SWMU 6-2, and 6-4, under which groundwater monitoring has been performed to date.
- Monthly inspections of the condition of the landfill ET cover were performed.
- Quarterly groundwater monitoring well gauging took place in July. Current contracted 2011-2012 project work is 100 percent complete.
- A new task order was awarded to HydroGeoLogic, Inc. on August 30, 2012 for RA-O at LF-001. A project kickoff meeting was held on September 13, 2012. A September 2012 monthly inspection of the condition of the landfill evapotranspirative (ET) cover was performed.

**4. Reports:**

- The final of the Annual Monitoring and Maintenance Activities Report for the landfills was completed in August.

**G. Other Investigations and Activities:**

**1. Groundwater Monitoring (Long-Term Monitoring [LTM])**

- The 2011 annual LTM report was submitted in August 2012.
- 2011 Annual LTM activities are 100 percent complete.

**2. Base-Wide Background and Hydrogeology: No planned activities.**

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

- Kirtland AFB continues to serve as a member of the Tijeras Arroyo Groundwater Group to characterize the hydrogeology and the extent of TCE in the perched and regional aquifers in this area.

- Five monitoring wells were purged and quarterly groundwater samples and field measurements were collected in July 2012 at AOC ST-105, Trichloroethene-Contaminated Groundwater site.
- Current groundwater sampling activities are 75 percent complete.

**4. Nitrate Contamination (ST-105):**

- Production of nitrate-contaminated groundwater from production well KAFB-7 continued during the reporting period. The water is piped to the Tijeras Arroyo Golf Course for beneficial use as an irrigation source. Through the end of September 2012, approximately 1.150 billion gallons of groundwater have been extracted since the rehabilitation of well KAFB-7 in September 2002. Current project work 100 percent complete.
- Completed final monitoring well installation work plan for Air Force review to further define the source and horizontal and vertical extent of nitrate contamination and geological/hydrogeological setting for Plumes 1, 2, 3-4, and McCormick Ranch. The project will include installation of up to 30 additional monitoring wells and replacement of three existing monitoring wells. Current project work is 20 percent complete.

**5. No Further Action (NFA):** Statement of basis documents are being prepared for 21 NFA sites (23 SWMUs) for submittal in October 2012. Current project work is 65 percent complete.

**6. Base-Wide Plans:** No planned activities.

**7. Bulk Fuels Facility Spill SWMUs ST-106 and SS-111:**

- Drilling of nine additional groundwater monitoring wells was initiated in Third Quarter 2012; eight of the wells were completed by the end of September 2012.
- The SVE system at the former offloading rack continued operations during the quarter.
- SVE units 344, 345, and 335 continued operations at locations as follows: Unit 344 (KAFB-106161), Unit 345 (KAFB-106160), and Unit 335 (KAFB-106149).
- SVE unit stack testing, as required by the AEHD permit, was conducted in September 2012. Quarterly groundwater sampling was conducted at the 28 existing monitoring wells associated with the Bulk Fuels Facility, 77 newly installed wells, the Kirtland AFB production wells (KAFB-3, KAFB-15 and KAFB-16), and VA-2 during July through September 2012.
- Quarterly soil vapor sampling was conducted at the 51 existing and newly installed soil vapor monitoring (SVM) wells, the 13 SVE wells,

and the 4 SVE units during the period of July through September 2012.

- Current project work is 53 percent complete.

**8. UST Site 58:**

- Quarterly groundwater elevation measurements were collected in September 2012.
- The draft annual UST-58 report was prepared and submitted to Kirtland AFB in July 2012. The final report was prepared and submitted to Kirtland AFB in August 2012 for transmittal to NMED.
- Current project work is 100 percent complete.

**9. RW-006:**

- Final Status Survey Report was submitted to the USAF Radioisotope Committee, which was approved and delivered to the Nuclear Regulatory Commission (NRC). Comments to FSSR have been addressed, and once final approval is obtained from the NRC, NMED will be provided with the final document.
- Current project work is 98 percent complete.

**H. Public Meeting:**

- Kirtland AFB public meetings are held on a semi-annual basis. A public meeting was not scheduled during the quarter.
- Civilian Advisory Board (CAB) meeting was held on 21 August 2012

**I. Military Munitions Response Program (MMRP):**

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- The draft final NFA Report was submitted to the Air Force in Sept 2012 with comments from Draft document addressed and approved. Draft final document will go out for 30 day public comment period in Nov 2012.
- The draft RI Report was submitted to the Air Force on July 20, 2012. Air Force review comments were provided to the contractor and contractor is incorporating comments for the draft-final report.

**IV. SUMMARY OF PROBLEMS**

- A. SWMU Assessments and New SWMUs and AOCs:** No problems were encountered.
- B. RCRA Facility Investigation:** No problems were encountered.
- C. Risk Assessment:** No problems were encountered.

**D. Corrective Measures Study:** No problems were encountered.

**E. Accelerated and Interim Corrective Measures:** No problems were encountered.

**F. Corrective Measure Designs/Implementations**

**1. Designs:**

- SWMU WP-26, Sewage Lagoons and Golf Course Main Pond: The pilot study and CMD for SWMU WP-26 were delayed due to the NMED's Notice of Deficiency (November 2010) for the 2009 RFI. The CMD is on hold until the CMS is approved. The CMS was submitted for review in September 2010.

**2. Remedial Action Operation:**

- UST Site 58: Contractual funding to run the remediation system (solar powered air sparging system) was not funded in the new contract awarded at the end of 2011. The remediation system did not run during the July through September 2012 time period. System parts replacement and troubleshooting is needed to get the system running.

**3. Reports:** No problems were encountered.

**G. Other Investigations and Activities:**

**1. Groundwater Monitoring:** No problems were encountered.

**2. Base-Wide Background and Hydrogeology:** No problems were encountered.

**3. TCE Characterization and Abatement:** No problems were encountered.

**4. Nitrate Contamination:** No problems were encountered.

**5. No Further Action:** No problems were encountered.

**6. Base-Wide Plans:** No problems were encountered.

**7. Fuel Spill at Bulk Fuels Facility:** No problems were encountered.

**8. UST Site 58:** No problems were encountered.

**H. Public Meeting:** No problems were encountered.

**I. MMRP:** No problems were encountered.

**V. PROJECTED WORK FOR THE NEXT REPORTING QUARTER**

**A. SWMU Assessments and New SWMUs and AOCs:**

- 1. SWMU Assessments:** Review of sampling results from field work and determine path forward.

2. **New AOCs:** No planned activities.
- B. RCRA Facility Investigation:**
1. **Sampling and Analysis Plans (SAP):** No planned activities.
  2. **Field Work:** No planned activities.
  3. **Reports:** No planned activities.
- C. Risk Assessment:**
1. **Ecological Risk:** No planned activities.
  2. **Human Health Risk:** No planned activities.
- D. Corrective Measures Study:**
1. **Work Plans:** No planned activities.
  2. **Field Work and Study:** No planned activities.
  3. **Reports:** No planned activity.
- E. Accelerated and Interim Corrective Measures (ACMs/ICMs):**
1. **Work Plans:**
    - SWMU ST-70-E, Oil/Water Separator (OWS) (ST-070): The Uniform Federal Policy Quality Assurance Project Plan will be completed.
  2. **Field Work:**
    - SWMU ST-70-E (ST-070, Former ST-219): Ongoing system maintenance and site field sampling activities will continue during the quarter. System waste will be disposed of.
  3. **Reports:** No planned activity.
- F. Corrective Measures:**
1. **Designs:** No planned activities.
  2. **Implementation:** No planned activities.
  3. **Remedial Action Operation:**
    - SWMU 6-1, Landfill 1 (LF-001): Monthly inspections of the condition of the landfill ET cover will continue. Quarterly monitoring well gauging will be performed in October.
    - SWMU 6-2, Landfill 2 (LF-002): Monthly inspections of the condition of the landfill ET cover will continue. Quarterly monitoring well gauging will be performed in October.
    - SWMU 6-4, Landfills 4, 5, and 6 (LF-008): Monthly inspections of the condition of the landfill ET cover will continue. Quarterly monitoring well gauging will be performed in October.

- SWMU 6-4, Landfills 4, 5, and 6 (LF-008): Monthly inspections of the condition of the landfill ET cover will continue. Quarterly monitoring well gauging will be performed in October.

5. **Reports:** No planned activities.

**G. Other Investigations and Activities:**

1. **Groundwater Monitoring (Long Term Monitoring [LTM] and Maintenance and Monitoring [M&M]):**

- Annual groundwater monitoring is expected to occur in 3<sup>rd</sup> quarter 2012.

2. **Base-Wide Background and Hydrogeology:** No planned activities.

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

- AOC ST-105, Trichloroethene-Contaminated Groundwater: Conduct quarterly groundwater sampling at five groundwater monitoring wells.

4. **Nitrate Contamination (ST-105):**

- Nitrate-contaminated groundwater will continue to be extracted from well KAFB-7 to provide mass removal and hydraulic containment of the nitrate plume. The nitrate-contaminated groundwater will continue to be conveyed to the Tijeras Arroyo Golf Course Main Pond for irrigation use.
- Complete and submit for NMED approval the final monitoring well installation work plan, health and safety plan, and sampling and analysis plan/field sampling plan.

5. **No Further Action:**

- Submit the Statement of Basis documents for submittal of a Class 3 permit modification in October 2012. Hold a poster session on the proposed sites during the 23 October 2012 public meeting.

6. **Base-Wide Plans:** No planned activities.

7. **Bulk Fuels Facility Spill SWMUs ST-106 and SS-111:**

- Operation for the SVE remediation systems at Bulk Fuels Facility will be ongoing during Quarter 3 2012.
- Pre-remedy quarterly monitoring will be initiated in October 2012. This will include groundwater sampling of the existing and additional newly installed monitoring wells, sampling of the Kirtland AFB production wells KAFB-3, KAFB-15, and KAFB-16, and VA-2. Also included will be vapor sampling at all existing Bulk Fuels Facility soil vapor monitoring and extraction wells, SVE unit monitoring, and water and LNAPL measurements.

- The Bulk Fuels Facility Quarter 2 Pre-Remedy Monitoring and Site Investigation Report for April – June 2012 will be submitted to NMED in October 2012.
- Drilling and installation of 9 additional groundwater monitoring wells will be ongoing in Quarter 3 as part of the Groundwater Investigation Work Plan.

**8. UST Site 58:**

- No activities scheduled.

**9. RW-006:**

- Final Status Survey report was submitted to the USAF Radioisotope Committee, which was approved and delivered to the Nuclear Regulatory Commission (NRC). Once final approval is obtained from the NRC, NMED will be provided with the final document.

**H. Public Meeting:**

- Kirtland AFB public meetings are held on a semi-annual basis. A public meeting is schedule for 23 October 2012.

**I. MMRP**

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- The RI report will be revised in response to Air Force comments.
- The NFA report will go out for 30 day public comment period.