



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

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Kirtland AFB NM 87117-5659




Ms. Nancy Morlock, Environmental Engineer
RCRA Permits Branch
U.S. EPA Region 6
1445 Ross Ave, Ste 1200
Dallas TX 75202-2733

Dear Ms. Morlock

Enclosed are the quarterly status reports for July-September 1994 from Brown & Root Environmental and the USGS. Please call me if you have any questions, (505) 846-0053.

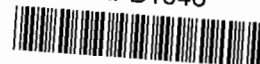
Sincerely


CHRISTOPHER B. DeWITT, R.P.G.
Chief, Restoration Branch
Environmental Management Division

Attachment:
Quarterly Reports

cc:
NMED-HRMB (Mr. Pullen)

KAFB1546






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C-49-12-4-001

**QUARTERLY REPORT
1 DECEMBER 1994**

To: Mr. Rodney C. Arnold
Contracting Officer's Representative
AFCEE/ESR
8001 Inner Circle Dr., Suite 2
Brooks AFB TX 78235-5328

From: Roger A. Clark, Ph.D. 
Project Manager

Contractor: Halliburton NUS Corporation
Halliburton NUS Project Numbers 0494 & 2A56

Contract No: F33615-90-D-4011

Title: Installation Restoration Program
RCRA Facility Investigation
Stage 2B (Appendix II), Stage 2C (Appendix III), & Stage 2D (Appendix IV)
Kirtland AFB, NM

Period Covered: June 26, 1994 through September 24, 1994

The following is a summary of project activities conducted during the period of performance for the above listed RCRA Facility Investigation. This report summarizes the activities as described in the project monthly R&D status reports for each monthly reporting period. The format used was derived from previous Quarterly Reports generated by the United States Geological Survey (contractor for previous stages of the investigation) as requested by the Environmental Management Group at Kirtland AFB.

**R&D STATUS REPORT
JUNE 26, 1994 THROUGH JULY 30, 1994
RFI FOR
KIRTLAND AIR FORCE BASE, NEW MEXICO
CONTRACT NO. F33615-90-D-4011
DELIVERY ORDER 22**

**PREPARED BY HALLIBURTON NUS CORPORATION
AUGUST 19, 1994**

The Scope of Work for Delivery Order 22 consists of three major components; Stage 2B (Halliburton NUS Project No. 2A56), Stage 2C (Halliburton NUS Project No. 0494), and Stage 2D (Halliburton NUS Project No. 2A95). Each of these component stages is presented in separate sections of this report.

2B SCOPE OF WORK

Project activities are divided into the following tasks:

- Task 01 - Project Management
- Task 02 - Scoping Documents
- Task 03 - Field Investigation
- Task 04 - Informal Technical Information Reports
- Task 05 - RFI Report
- Task 06 - Miscellaneous Reports
- Task 07 - Meetings

During the performance period the following occurred:

1. Technical Progress

Task 01 - Project Management

Routine project management functions occurred during the reporting period including oversight of Stage 2B field activities and RFI Report planning.

Task 02 - Scoping Documents

The primary scoping documents to be implemented by Halliburton NUS during the 2B work were generated by the United States Geological Survey (USGS), and approved by USEPA Region VI.

Task 03 - Field Investigation

The Geoprobe portion of the Stage 2B field investigation was completed on July 7 following a four month period of continuous field activities. The portion of the field investigation requiring deeper sampling using a hollow-stem auger drill rig was initiated in early July and completed on July 27. With the completion of the hollow-stem sampling, all Stage 2B field work has been finished.

Tasks 04, 05 and 06 reports

Halliburton NUS began preparation of reports including the Stage 2B RFI Report.

2. Planned Activities**Task 01 - Project Management**

The upcoming monthly progress meeting will be held at Kirtland AFB on August 24, 1994. At this meeting, Halliburton NUS will discuss overall 2B schedule and budget status with the COR. The primary focus of activities over the coming three month period will be the completion of a Draft RFI Report for submission to AFCEE and KAFB on October 17, 1994 for internal review. The project is on schedule to meet this deliverable date which is critical to compliance with KAFB's permit mandated Draft Final RFI submission date to USEPA of December 8, 1994.

Task 04, 05 and 06 - Reports

Report writing will continue during the upcoming period.

Task 07 - Meetings

The next monthly progress meeting will be held on August 24, 1994 at Kirtland AFB. An Environmental Working Group meeting (community) is scheduled for August 25, 1994. The IRP staff will present a 15-20 minute slide show on field procedures and progress to date. Halliburton NUS will provide the slides for this presentation.

3. Problems Encountered/Proposed Solutions

None

4. Key Personnel Changes

None

5. Schedule

The key deliverable date is the submission of the Draft Final RFI Report to the EPA on 8 December 1994. This projected deliverable remains on schedule. An internal draft RFI Report will be submitted to AFCEE and KAFB on October 17, 1994.

6. Budget

See attached Performance and Cost Report

2C SCOPE OF WORK

Project activities are divided into the following tasks:

- Task 01 - Project Management
- Task 02 - Scoping Documents
- Task 03 - Field Investigation
- Task 04 - Informal Technical Information Reports
- Task 05 - RFI Report
- Task 06 - Miscellaneous Reports

Task 07 - Meetings

During the performance period the following occurred:

1. Technical Progress

Task 01 - Project Management

Routine project management functions occurred during the reporting period including coordination of the non-waste line sites field work under the 2C Work Plan.

Task 03 - Field Investigation

The Stage 2C field crew, after conducting non-waste line site sampling for the majority of June, supported Stage 2D-1 activities from July 1 through July 25, 1994. When Stage 2D-1 field work was completed on July 25, Stage 2C field activities resumed and continued through July 31, 1994. During that week, drilling and sampling activities were completed at the Waste Accumulation Area (ST-276), the Condensate Holding Tank (ST-321), and the Contractor's Yard (ST-339). Field activities at all non-waste line sites have now been completed.

Task 07- Meetings

In support of the next quarterly Environmental Working Group meeting, Halliburton NUS began preparing a public information Fact Sheet.

2. Planned Activities

Task 01- Project Management

Stage 2C fieldwork is anticipated to be completed in late 1994 or early 1995.

Task 02 - Scoping Documents

The following scoping documents will be issued in Final form during August 1994.

- Non-Waste Line Work Plan
- Waste Line Investigation Work Plan
- Data Collection Quality Assurance Plan
- Data Management Plan
- Community Relations Plan
- Project Management Plan
- Health and Safety Plan

Task 07 - Meetings

The next monthly progress meeting is scheduled for August 24 at KAFB.

The quarterly Environmental Working Group Meeting (community) is scheduled for August 25, 1994.

3. Problems Encountered/Proposed Solutions

Approximately 95 percent of funding of Stage 2C has been expended. Invoicing through the end

of this reporting period total only 50 percent of the allocated budget; however, field samples are now at the analytical laboratory undergoing analysis. No additional Stage II work is anticipated at this time.

4. **Key Personnel Changes**

None

5. **Schedule**

The project remains on schedule. Field work began in May 1994 and will continue through late 1994.

6. **Budget**

See attached Performance and Cost Report.

2D SCOPE OF WORK

Project activities are divided into the following tasks:

- Task 01 - Project Management
- Task 02 - Scoping Documents
- Task 03 - Field Investigation
- Task 04 - Informal Technical Information Reports
- Task 05 - RFI Report
- Task 06 - Miscellaneous Reports
- Task 07 - Meetings

During the reporting period the following occurred:

Task 01 - Project Management

Routine project management functions occurred during the reporting period including directing field activities and the preparation of weekly and monthly status reports.

Task 03 - Field Investigation

The Stage 2D-1 field investigation continued in July with the initiation of soil sampling at site RB-11 on July 5, 1994 using the Geoprobe drilling methodology. Soil sampling at this site was completed on July 18, 1994 after completing sampling at 38 boring locations and 6 surface soil sample locations. Soil sampling at RB-07 commenced on July 20, 1994 and was completed on July 21, 1994. Surface and shallow soil samples were collected from 11 locations using a hand auger and hand sampling tools. All field activities for 2D-1 are now complete.

Task 07 - Meetings

In the monthly meeting held on July 6, 1994, Col. Pratt indicated that the USEPA is finalizing its review of the 2D-2 Work Plan. USEPA has informally indicated that one phase will be required including sampling the tank contents concurrently with soil borings around the tanks. This approach should be approved during the next meeting with the EPA currently scheduled for August 25 prior to the Environmental Working Group Public Meeting.

2. Planned Activities

Task 05 - RFI Report

The Draft 2D-1 RFI Report writing will be initiated.

Task 07 - Meetings

Resolution of the phased approach methodology presented in the 2D-2 Work Plan should be accomplished at the next meeting with the USEPA.

3. Problems Encountered/Proposed Solutions

None

4. Key Personnel Changes

None

5. Schedule

A draft RFI Report for Stage 2D-1 will be submitted to AFCEE and KAFB on October 17, 1994.

6. Budget

See attached Performance and Cost Report.

**R&D STATUS REPORT
JULY 31, 1994 THROUGH AUGUST 27, 1994
RFI FOR
KIRTLAND AIR FORCE BASE, NEW MEXICO
CONTRACT NO. F33615-90-D-4011
DELIVERY ORDER 22**

**PREPARED BY HALLIBURTON NUS CORPORATION
SEPTEMBER 23, 1994**

The Scope of Work for Delivery Order 22 consists of three major components; Stage 2B (Halliburton NUS Project No. 2A56), Stage 2C (Halliburton NUS Project No. 0494), and Stage 2D (Halliburton NUS Project No. 2A96). Each of these component stages is presented in separate sections of this report.

2B SCOPE OF WORK

Project activities are divided into the following tasks:

- Task 01 - Project Management
- Task 02 - Scoping Documents
- Task 03 - Field Investigation
- Task 04 - Informal Technical Information Reports
- Task 05 - RFI Report
- Task 06 - Miscellaneous Reports
- Task 07 - Meetings

During the performance period the following occurred:

1. Technical Progress

Task 01 - Project Management

Routine project management functions occurred during the reporting period including oversight of Stage 2B RFI data evaluation and Report writing .

Task 03 - Field Investigation

Field work was completed on July 27, 1994. Demobilization occurred during the reporting period.

Tasks 04, 05 and 06 reports

Halliburton NUS continued preparation of reports including the Stage 2B RFI Report.

Task 07 meetings

A monthly progress meeting was held with KAFB and AFCEE personnel at the Base on August 24, 1994. Also a meeting with USEPA and NMED was held by KAFB and AFCEE with Halliburton NUS in attendance on August 25 to discuss the Regulatory Agencies approval comments on the Stage 2D-2 Work Plan. An EWG Public meeting was attended by KAFB, AFCEE, and Halliburton NUS on August 25 at which Stages 2B, 2C, and 2D were discussed.

2. Planned Activities**Task 01 - Project Management**

Project Management will continue during the upcoming period.

Task 04, 05 and 06 - Reports

Report writing will continue during the upcoming period. The primary focus of activities over the coming two month period will be the completion of a Draft RFI Report for submission to AFCEE and KAFB on 17 October 1994 for internal review. The project is on schedule to meet this deliverable date which is critical to compliance with KAFB's permit mandated Draft Final RFI submission date to USEPA of December 8, 1994.

Task 07 - Meetings

The next monthly progress meeting will be held on September 29, 1994 at Kirtland AFB.

3. Problems Encountered/Proposed Solutions

None

4. Key Personnel Changes

None

5. Schedule

An internal draft RFI Report will be submitted to AFCEE and KAFB on October 17, 1994. The key deliverable date is the submission of the Draft Final RFI Report to the EPA on December 8, 1994. This project is on schedule.

6. Budget

See attached Performance and Cost Report.

2C SCOPE OF WORK

Project activities are divided into the following tasks:

- Task 01 - Project Management
- Task 02 - Scoping Documents
- Task 03 - Field Investigation
- Task 04 - Informal Technical Information Reports
- Task 05 - RFI Report
- Task 06 - Miscellaneous Reports
- Task 07 - Meetings

During the performance period the following occurred:

1. Technical Progress

Task 01 - Project Management

Routine project management functions occurred during the reporting period.

Task 03 - Field Investigation

Notes and forms from field work performed during June and July 1994 were organized and demobilization occurred during the reporting period completed.

Task 07- Meetings

A monthly progress meeting was held with KAFB and AFCEE personnel at the Base on August 24, 1994. Also a meeting with USEPA and NMED was held by KAFB and AFCEE with Halliburton NUS in attendance on August 25 to discuss the Regulatory Agencies approval comments on the Stage 2D-2 Work Plan. An EWG Public meeting was attended by KAFB, AFCEE, and Halliburton NUS on August 25 at which Stages 2B, 2C, and 2D were discussed.

2. Planned Activities

Task 01- Project Management

Project Management will continue during the upcoming period.

Task 02 - Scoping Documents

The following scoping documents will be issued in Final form during September - October 1994.

- Non-Waste Line Work Plan
- Waste Line Investigation Work Plan
- Data Collection Quality Assurance Plan
- Data Management Plan
- Community Relations Plan
- Project Management Plan
- Health and Safety Plan

Task 07 - Meetings

The next monthly progress meeting will be held on September 29, 1994 at Kirtland AFB.

3. Problems Encountered/Proposed Solutions

None

4. Key Personnel Changes

None

5. Schedule

The project remains on schedule. Field work began in May 1994 and will continue through late 1994. Field work will likely extend into early 1995.

6. Budget

See attached Performance and Cost Report

2D SCOPE OF WORK

Project activities are divided into the following tasks:

- Task 01 - Project Management
- Task 02 - Scoping Documents
- Task 03 - Field Investigation
- Task 04 - Informal Technical Information Reports
- Task 05 - RFI Report
- Task 06 - Miscellaneous Reports
- Task 07 - Meetings

During the reporting period the following occurred:

1. Technical Progress

Task 01 - Project Management

Routine project management functions occurred during the reporting period including oversight of Stage 2D RFI data evaluation and Report writing

Task 03 - Field Investigation

Field work was completed in July. Demonization activities occurred during the reporting period.

Task 07 - Meetings

A monthly progress meeting was held with KAFB and AFCEE personnel at the Base on August 24, 1994. Also a meeting with USEPA and NMED was held by KAFB and AFCEE with Halliburton NUS in attendance on August 25 to discuss the Regulatory Agencies approval comments on the Stage 2D-2 Work Plan. An EWG Public Meeting was attended by KAFB, AFCEE, and Halliburton NUS on August 25 at which Stages 2B, 2C, and 2D were discussed.

2. Planned Activities

Task 05 - RFI Report

The Draft 2D-1 RFI Report writing continued.

Task 07 - Meetings

The next monthly progress meeting will be held on September 29, 1994 at Kirtland AFB.

3. Problems Encountered/Proposed Solutions

None

4. Key Personnel Changes

None

5. Schedule

A draft RFI Report for Stage 2D-1 will be submitted to AFCEE and KAFB on October 17, 1994.

6. Budget

See attached Performance and Cost Report.

**R&D STATUS REPORT
28 August 1994 THROUGH 24 September 1994
RFI FOR
KIRTLAND AIR FORCE BASE, NEW MEXICO
CONTRACT NO. F33615-90-D-4011
DELIVERY ORDER 22**

**PREPARED BY HALLIBURTON NUS CORPORATION
14 OCTOBER 1994**

The Scope of Work for Delivery Order 22 consists of three major components; Stage 2B (Halliburton NUS Project No. 2A56), Stage 2C (Halliburton NUS Project No. 0494), and Stage 2D (Halliburton NUS Project No. 2A96). Each of these component stages is presented in separate sections of this report.

2B SCOPE OF WORK

Project activities are divided into the following tasks:

- Task 01 - Project Management
- Task 02 - Scoping Documents
- Task 03 - Field Investigation
- Task 04 - Informal Technical Information Reports
- Task 05 - RFI Report
- Task 06 - Miscellaneous Reports
- Task 07 - Meetings

During the performance period the following occurred:

1. Technical Progress

Task 01 - Project Management

Routine project management functions occurred during the reporting period including oversight of Stage 2B RFI data evaluation and Report writing .

Task 03 - Field Investigation

Field work was completed on July 27, 1994. Demobilization occurred during the reporting period.

Tasks 04, 05 and 06 reports

Halliburton NUS continued preparation of reports including the Stage 2B RFI Report.

Task 07 meetings

A monthly progress meeting was held with KAFB and AFCEE personnel at the Base on 28 September, 1994.

Task 05 - RFI Report
Task 06 - Miscellaneous Reports
Task 07 - Meetings

During the performance period the following occurred:

1. Technical Progress

Task 01 - Project Management

Routine project management functions occurred during the reporting period.

Task 03 - Field Investigation

Notes and forms from field work performed during June and July 1994 were organized and demobilization occurred during the reporting period completed.

Task 07- Meetings

A monthly progress meeting was held with KAFB and AFCEE personnel at the Base on 29 September 1994.

2. Planned Activities

Task 01- Project Management

Stage 2C field work is anticipated to be completed in early 1995.

Task 02 - Scoping Documents

The following scoping documents were issued in Final form during October 1994.

- Non-Waste Line Work Plan
- Waste Line Investigation Work Plan
- Data Collection Quality Assurance Plan
- Data Management Plan
- Community Relations Plan
- Project Management Plan
- Health and Safety Plan

Task 07 - Meetings

The next monthly progress meeting will be held on 14 November 1994 in Pittsburgh at Halliburton NUS's office. An Environmental Working Group Meeting (community) is scheduled for 17 November 1994. The IRP staff will present a 30 to 45 minute slide show on new Solid Waste Management Unit (SWMU) Sites that have been discovered and are under planning for potential investigation during 1995.

3. Problems Encountered/Proposed Solutions

None

4. Key Personnel Changes

None

5. Schedule

The project remains on schedule. Field work began in May 1994 and will continue through late 1994. Field work will extend into early 1995.

6. Budget

See attached Performance and Cost Report

2D SCOPE OF WORK

Project activities are divided into the following tasks:

- Task 01 - Project Management
- Task 02 - Scoping Documents
- Task 03 - Field Investigation
- Task 04 - Informal Technical Information Reports
- Task 05 - RFI Report
- Task 06 - Miscellaneous Reports
- Task 07 - Meetings

During the reporting period the following occurred:

1. Technical Progress

Task 01 - Project Management

Routine project management functions occurred during the reporting period including oversight of Stage 2D RFI data evaluation and Report writing.

Task 03 - Field Investigation

The Stage 2D-1 field investigation was completed in July after sampling at 36 boring locations and 6 surface soil sample locations. Soil sampling at RB-7 was also completed in July. Surface and shallow soil samples were collected from 11 locations using a hand auger and hand sampling tools. All field activities for 2D-1 are now complete.

Task 07 - Meetings

A monthly progress meeting was held with KAFB and AFCEE personnel at the Base on 29 September 1994.

2. **Planned Activities**

Task 05 - RFI Report

The Draft 2D-1 RFI Report writing has been initiated and is continuing.

Task 07 - Meetings

The next monthly progress meeting will be held on 14 November 1994 in Pittsburgh at Halliburton NUS's office. An Environmental Working Group Meeting (community) is scheduled for 17 November 1994. The IRP staff will present a 30 to 45 minute slide show on new Solid Waste Management Unit (SWMU) Sites that have been discovered and are under planning for potential investigation during 1995.

3. **Problems Encountered/Proposed Solutions**

None

4. **Key Personnel Changes**

None

5. **Schedule**

A draft RFI Report for Stage 2D-1 will be submitted to AFCEE and KAFB on October 17, 1994.

6. **Budget**

See attached Performance and Cost Report.

QUARTERLY REPORT--JULY-SEPTEMBER 1994

INVESTIGATION: NM-36001 Kirtland Air Force Base, Phase II, Stage 2A

PERIOD OF INVESTIGATION: January 1991 to December 1994

INVESTIGATION CHIEF: Jerry D. Larson

INVESTIGATION ADMINISTRATOR: U.S. Air Force Center for Environmental Excellence (AFCEE), Brooks AFB, TX

TECHNICAL PROGRAM MANAGER: Mr. Rodney Arnold, AFCEE

PRINCIPAL POINTS OF CONTACT AT KIRTLAND AFB: Mr. Christopher Dewitt, Environmental Management

OBJECTIVES: Assess potential soil contamination associated with 18 sites.

WORK ACCOMPLISHED DURING QUARTER: The Stage 2A RFI draft report was being reviewed by EPA and a response was expected and received on September 30, 1994. Began the process of loading the Stage 2A data into the IRPIMS database.

PLANS FOR NEXT QUARTER: Address a response to EPA of the review and NOD for the RFI report. Continue the process of putting the data into the IRPIMS database.

PROJECT STATUS; The Stage 2A investigation is fully funded and proceeding on schedule.

Quarterly Report

July through September 1994

Investigation NM-36003: Kirtland Air Force Base, Phase II, Stage 2B Installation Restoration Program (IRP)

Period of Investigation: September 1991 to December 1994

Investigation Chief: Ralph Wilcox

Investigation Administrator: U.S. Air Force Center for Environmental Excellence (AFCEE), Brooks AFB, TX

Technical Program Manager: Mr. Rodney Arnold, AFCEE

Principal Points of Contact at Kirtland AFB: Mr. Jerroll Sillerud, Mr. Steven Lee, and Mr. Christopher DeWitt, Environmental Management Division

Objectives: Assess potential soil contamination associated with 6 sites.

Work Accomplished During Quarter:

On July 29 draft copies of an Open-file report presenting the results of this investigation were submitted to AFCEE, and Halliburton NUS (Kirtland AFB environmental contractor). During August and September the Open-file report was revised on the basis of colleague-review comments. Work on the IRPIMS data base was ongoing during this quarter.

Plans for Next Quarter:

The Open-file report will be approved, and delivered to AFCEE. The IRPIMS data base will be completed, and submitted to AFCEE.

Project Status: The Stage 2B investigation is fully funded, and proceeding on schedule.