



DEPARTMENT OF THE AIR FORCE

HEADQUARTERS 49TH FIGHTER WING (TAC)
HOLLOMAN AIR FORCE BASE NM 88330-5000

*File HAFB
RED 92*

4.3.92

REPLY TO
ATTN OF DEV

SUBJECT Compliance Agreement Quarterly Report

TO Mr Courtland Fesmire, Environmental Engineer
US EPA, Region VI, (6H-CS)
1445 Ross Avenue
Dallas, TX 75202-2733



1. Pursuant to the requirements set forth in Section X--REPORTING AND EXTENSIONS section of the Compliance Agreement signed on 20 December 1988, we hereby submit the 13th quarterly progress report (Atch 1). This report will provide a brief outline of events from 1 Jan to 31 Mar 1991.
2. Documentation for the contents of the attached report is available upon request from the 49 SG/DEV office at Holloman AFB. If you have any questions or comments, contact Dr. Fred M. Fisher, (505) 479-3931.

[Signature]
GORDON R. JANIEC, Lt Col, USAF
Base Civil Engineer

1 Atch
Compliance Agreement Report (2 cys)

- cc: w/Atch
 HQ TAC/DEV
 49 FW/JA
 49 SG/CC
 US EPA (Mark Peycke)
 NMED (Dr Bruce Swanton)
 US Army COE, Omaha NE
 (B.Stewart)
 BLM, Las Cruces (Jim Fox)
 BLM, Santa Fe (Mark Blakeslee)
 DOI (Raymond P. Churan)
 F&W Service (Tom O'Brien)



COMPLIANCE AGREEMENT QUARTERLY REPORT

HOLLOMAN AIR FORCE BASE

THIRTEENTH QUARTERLY PROGRESS REPORT

1 JAN-31 MAR 92

PREPARED BY

**HOLLOMAN AFB, NM
49 SG/DEV**

3 Apr 92

QUARTERLY PROGRESS REPORT

1 JAN - 31 MAR 1992

02 Jan 92: 12th quarterly Compliance Agreement Quarterly Report for 1 Oct - 31 Dec 91 was submitted to NMED and USEPA Region VI.

22 Jan 92: Meeting of informal Lake Holloman working group held at Holloman AFB (HAFB). Attending were representatives of US Fish and Wildlife Service (FWS), BLM-Santa Fe, BLM-Las Cruces, Geo-Marine Corp (Plano, TX), and HAFB. F. Fisher of HAFB briefed on recent (1989-present) and scheduled sample collections. L. Shomo of FWS briefed on their Jul 1991 sample collections of biota and sediments.

03 Feb 92: Received drafts of "Chemical Data Acquisition Plan" and "Site Safety and Health Plan" from Radian Corp for the sample collections scheduled to begin during the week of 10 Feb 92.

03 Feb 92: Received copy of memo from Radian Corp to Dr Bruce Swanton, NMED, regarding method detection limits (MDLs) and health based limits (HBLs). The memo addressed Radian's concerns about relatively high achievable MDLs for the HAFB lagoon samples that result from the difficult sample matrix. HBLs were also a source of concern for several reasons: (1) HBL values differ among various EPA literature sources, (2) HBLs may be lower than MDLs for some chemical constituents, and (3) HBLs do not exist for some constituents. Radian requested a conference call to resolve these issues.

06 Feb 92: Conference call between Radian Corp. personnel and Dr. Bruce Swanton, NMED. A protocol for dealing with MDLs and HBLs was developed based upon reporting chemical constituents exceeding health based limits (HBLs) wherever possible. Calculated HBLs are to be used if they differ from published HBLs since the factors used for calculations come from frequently updated databases. Calculations are performed according to Appendix 4 of "Draft Preliminary Standards for RCRA Risk Assessment," EPA Region VI, Feb 1991 (equivalent to Appendix E of proposed "Corrective Action for SWMUs at Hazardous Waste Management Facilities," 27 Jul 1990, Fed Reg). Sources for reference doses and slope factors were identified. Only one constituent of concern, kepone, had no HBL. This was conservatively set at 0.5 the HBL for DDT. Where HBLs were lower than MDLs, the two values were very similar except in one case, benzo(a)pyrene, where the HBL was approximately an order of magnitude lower than the MDL.

10-11 Feb 92: Radian Corp. arrived and made preparations for drilling 2 new wells and sampling soil, sludge, and groundwater.

12 Feb 92: Soil samples collected from two bore holes, one upgradient and one downgradient, by Southwest Engineering and Radian Corp.

13-14 Feb 92: Southwest Engineering and Radian Corp. installed two new upgradient monitoring wells to replace one disallowed by EPA.

17-21, 24-29 Feb 92: Soil/sludge samples collected from lagoons C-G, the D-G ditch, and Lakes Holloman and Stinky by Quaternary Research Inc and Radian Corp.

18 Feb 92: Received final "Site Safety and Health Plan" from Radian Corp. for sampling effort in progress.

19 Feb 92: Received statement of work for preparation of NPDES permit by CH2M Hill for new wastewater facility.

25 Feb 92: Received documentation from Mark Blakeslee of BLM concerning EPA's decision that a playa lake near Carlsbad is "waters of the United States" because of its value as wildlife habitat.

25 Feb 92: Received reminder from NMED that annual groundwater report was due 1 Mar.

28 Feb 92: Mailed annual groundwater report to NMED.

11 Mar 92: Received wastewater survey from Armstrong Laboratory, Brookes AFB, TX for use in design of the new wastewater treatment facility.

19 Mar 92: Received NMED response to questions regarding operator certification required to run the new wastewater treatment facility.

24 Mar 92: Request TAC HQ authorize funding for initial stage of lagoon RI/FS to support closure. Funding requested included a comparative ecological toxicology study, additional water sampling requested by BLM, data management using the Air Force IRP information management system, a geostatistical analysis of existing data to identify sampling densities necessary to support closure, and a feasibility study of lagoon closure alternatives.