



**ANDERSEN AFB
GUAM**

**ADMINISTRATIVE RECORD
COVER SHEET**

AR File Number 636

**ANDERSEN AIR FORCE BASE
RESTORATION ADVISORY BOARD (RAB)
MEETING MINUTES
20 November 2003**

Board Members:

Colonel Thurlow E. Crummett, Jr. – Acting Installation Co-Chairperson
Senator Joanne Brown – RAB Member
Mr. John Jocson – RAB Member
Ms. Mauryn McDonald – RAB Member
Ms. Lucrina Concepcion – RAB Member
Mr. Mike Gawel – RAB Member
Mr. Michael Cruz - GEPA

Support Staff Attendees:

Mr. Gregg Ikehara – 36 CES/CEVR
Mr. Jess Torres – 36 CES/CEVR
Mr. Danny Agar – 36 CES/CEVR
Ms. Yvette Bordallo – 36 CES/CEVR

Public Attendees:

Senator Larry Kasperbauer – Legislature/Private
Mr. Merlin Miller – 36 CES/DCE
Mr. Paul Dusenbury – Booz Allen
Mr. Chris Arnsfield – Shaw Environmental
Mr. Greg Brady – Weston
Ms. Mary Torres – USNH
Mr. Michael Torres - Citizen

1. Introduction

Mr. Ikehara began the RAB meeting at 6:40 p.m. by welcoming all members and guests. He explained that Colonel Crummett would be sitting in for Colonel White, and that Mr. Castro would not be attending because he was off-island.

2. Review of Previous Minutes

Mr. Ikehara asked the members to review the 25 September 2003 meeting minutes, and with no discrepancies noted, the minutes were approved. He then informed the group that this would be Ms. McDonald's last RAB since she would be relocating to the mainland. Mr. Castro has opted to step down from his position as the Community Co-Chair. Nominations for a new

Community Co-Chair will be conducted at the next RAB meeting. Mr. Ikehara emphasized to the group that a campaign to recruit for new RAB members is ongoing at this time.

The site tour that Senator Brown requested for is scheduled for Tuesday, 13 January 2004 at 0900. *Mr. Ikehara will make arrangements for transportation and security passes.*

3. Corrective Action Management Unit (CAMU) Plan

Mr. Agar mentioned that the Air Force plans to address the disposal of remedial wastes from several of its IRP sites by the continued use of Landfill 02, where non-hazardous remedial waste will be consolidated. The Landfill 02 will be used as a modified Corrective Action Management Unit (CAMU). A CAMU is defined as "a land area within a facility regulated under RCRA Subtitle C (i.e., facilities with permitted or interim status) that is designated by the EPA Regional Administrator or the authorized State for the purpose of managing remediation wastes generated from corrective action activities."

The current capacity at the active landfill is 70,000 CY of space with a life span of 9 years. The Air Force anticipates 50,000 CY of remedial waste from various IRP sites. If these wastes were to be disposed of in the active landfill, the life span will be reduced to only 3 years.

The groundwater flow is to the northwest of the Andersen AFB Landfill Complex. There is extensive groundwater monitoring at the Landfill Complex, and the fifteen semi-annual sampling rounds conducted have shown no contamination present. The Landfill Complex contains an active landfill (Landfill 01) and was permitted as vertical expansion of an existing landfill. The active landfill is adjacent to Landfill 02 and was built in 1997. The Landfill 02 was utilized from 1947 through 1974 as a trench-fill municipal waste dump. Remedial wastes from Landfill 29 and Waste Pile 1 have been consolidated within the original Landfill 02 trenches. Senator Kasperbauer asked if there was any drainage that comes out at Ypao Beach in Tumon. Mr. Ikehara replied, that the Landfill 01 was an existing landfill prior to its vertical expansion. During the vertical expansion a liner was placed on top of the old landfill and served two purposes. The first purpose was to collect leachate from the vertically expanded portion and to cover the existing wastes. Any leachate that is developed on top of this is collected in a leachate collection system. The Air Force does control certain liquids that come out of the landfill. Mr. Michael Torres asked if the leachate comes from old and new waste? Mr. Ikehara said that the leachate only comes from the new portion. Mr. Torres then questioned whether the waste was leaching into the ocean. Mr. Ikehara responded that it could still be leaching, but the impervious cover would prevent water flow. Mr. Torres expressed his concern over limestone testing and whether it was being conducted. He asked if the AF was conducting fish tissue sampling of transient species near Tarague Beach to determine if contamination from Andersen was causing fish contamination at Orote Point. Mr. Ikehara explained that no fish tissue testing is conducted, but there are monitoring wells around the landfill complex, and they monitor any kind of groundwater flow that could be resulting from water entering the landfill complex and moving out into the ocean. The AF conducted a dye trace in 1995 that simulated many types of infiltration through the landfill and as it reached the groundwater body. Most of the groundwater flows through the north. The dye trace was introduced in different layers, i.e., the surface, the middle of the limestone above the water table, and the water table itself. The lens was checked

with a network of wells that were able to track the time and distribution of dye. The Air Force has determined that the flow within the groundwater would carry any potential leachate to the ocean. However, the monitoring network is showing the groundwater is clean.

The Chemicals of Concern (COCs) in IRP soils already disposed of in Landfill 02 are the Antimony, Dioxins, Lead, Asphalt, PCBs, and Pesticides. These COCs are low mobility and are not expected to leach and contaminate groundwater above the drinking water standards. Future IRP site soil COCs are expected to be low-mobility chemicals. Senator Brown asked the size of Landfill 02 and types of COCs that were located. Mr. Agar stated it was approximately 69 acres and the COCs located consist of Antimony, Dioxins, Lead, Asphalt, PCBs, and Pesticides. Several slides illustrated the waste placement and cover process previously used at Landfill 02. A similar trench, fill and cover process is proposed for soils from future IRP sites. The mine pit area will be initially utilized. It will store approximately 33,000 CY of material. The proposed Trench 9 between Trench 14 and 15 will be constructed and it will consolidate approximately 18,000 CY. Approximately 35,000 CY of consolidation space can be constructed for future remedial waste disposal in-between other trenches. The typical Trench construction will be excavated to 10-foot depth Below Ground Surface (bgs). Remedial waste will be placed into the trench. A 1-foot layer of asphalt mixed with dirt will be placed on top of the remedial waste. The asphalt tar will come from the Waste Pile 1 area. The final cover will consist of a 1-foot layer of 2-inch minus coral compacted to 85 percent. Senator Kasperbauer asked what types of pesticides were found and whether it was military derived? Mr. Agar explained that the pesticides were used for lawns, and confirmed it was military derived. *A complete listing of the pesticides will be available at the next RAB.* Mr. Gawel asked what types of permitting is required. Mr. Agar mentioned that they were existing trenches and the area was used for the consolidation of wastes from Landfill 29 and Waste Pile 1. Mr. Jess Torres explained that the regulators recommended that an EE/CA be prepared to establish a CAMU at Landfill 02 for the remainder of the IRP sites to be cleaned.

4. Groundwater

Mr. Ikehara stated that as a result of the last meeting it was decided to prioritize the MARBO hotspot wells to be sampled early enough to be able to have the analyses returned in time to report to the RAB this meeting. Partial data is available for the ongoing groundwater sampling for IRP-31 and select wells near MARBO. The data for IRP-31 initially came back with a reported TCE concentration of 1,880 ug/L. After QA of the lab report, it was noted that the dilution factor was suspect, and a recalculation was conducted. A calculation error was indeed identified and the lab went ahead and re-analyzed the remaining sample, which was still within the holding time. The remaining samples were reanalyzed, but the lab did not follow the Andersen AFB Quality Assurance (QA) procedures, as written in the QAPP. The reanalyzed number confirmed that the lab had not correctly factored in the dilution and that the TCE concentration of 1,880 ug/L was four times the actual value. The new corrected TCE value was 470 ug/L TCE. The decision was made by the Base to collect another sample and run a whole new analysis. This new value came in the day before the RAB meeting at 450 ug/L confirming the calculation error. Additional sampling data showed that the Tumon Maui well had TCE and PCE below the Maximum Contaminant Level (MCL), but the AF needs the RAB to understand

that these were static samples not pumped samples. Under stress of pumpage, the well could have very different values.

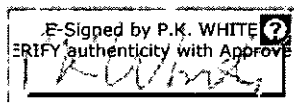
Sampling information is also being collected for several GEPA wells located in the Harmon area using passive diffusion samplers in a string to determine possible offsite migration of contaminated ground water. At the same time, the Base also is looking at TCE and PCE hits that have historically been noted in the upgradient GWA production wells in Yigo. It opens up the likelihood that some chlorinated substances are migrating onto AF property from upgradient sources that have yet to be identified. As well data becomes available, the Base will present it in future RAB meetings. Mr. M. Torres commented that AF should conduct interviews with retirees or ex-military for any knowledge they may have regarding any previously unidentified sites. He also inquired if there was additional funding available to locate other AOCs. The AF has investigated all potential sources at the MARBO complex, and it is very sensitive because of the proximity of production wells in the vicinity. Mr. Jocson asked if there was a possibility that GWA would be given the Tumon Maui well. Colonel Crummett stated that there was a request to allow GWA to pump water from it for local use, but because of unknown future growth on Andersen AFB, the AF is reluctant to release the well at this time. Senator Kasperbauer asked if the Tumon Maui well contamination was in relation to the Tumon Tank Farm demolition. Mr. Ikehara said that the Tumon Tank Farm destruction was not part of the IRP, although the IRP has been concerned with it. It was Mr. Ikehara's understanding that prior to the demolition of the USTs, the tanks were emptied and cleaned out. *Senator Brown requested that Tumon Tank Farm information be available at the next RAB meeting.*

Three well location maps were also presented to show the changes in the number of wells that have been taken out of the sampling program for Main Base, MARBO, and the Landfill complex. Wells with persistent non-detects were removed to allow some flexibility in acquiring new data that could help identify the problem locations in these areas.

5. Next RAB Meeting

Mr. Ikehara thanked everyone for attending the meeting. With no other business at hand, the meeting was adjourned at 8:30 p.m. The next RAB meeting will be combined with the MARBO Operable Unit public meeting on 19 February 2004.

APPROVED/DISAPPROVED



P. K. WHITE, Colonel, USAF
Installation Co-Chair, Restoration Advisory Board

15 Dec 2003
DATE

DISTRIBUTION LIST

Colonel P. K. White
Senator Joanne M. Salas Brown
Mr. Fred Castro
Mr. Jim D. Iglesias
Ms. Carmen Sian-Denton
Mr. Edward C. Artero
Mr. John Jocson
Mr. Michael J. Gawel
Mr. Jerry Flores
Mr. Francis L.G. Damian
Ms. Lucrina Concepcion
Mr. Mark Ripperda
Mr. Mike Cruz



DEPARTMENT OF THE AIR FORCE
HEADQUARTERS, 36TH AIR BASE WING (PACAF)
UNIT 14003, APO AP 96543-4003

15 Dec 03

MEMORANDUM FOR SEE DISTRIBUTION

FROM: 36 ABW/CV

SUBJECT: Meeting Minutes for Restoration Advisory Board (RAB) Meeting, 20 Nov 03

1. The Andersen Air Force Base RAB meeting minutes for 20 November 2003 are forwarded for your review as Attachment 1. Also attached with the meeting minutes is the RAB member distribution list (Attachment 2).

2. We look forward to continued communication with you. Should you have any questions, please contact Mr. Gregg Ikehara at 366-4692.

E-Signed by P.K. WHITE
VERIFY authenticity with Approve

P. K. WHITE, Colonel, USAF
Installation Co-Chairperson
Restoration Advisory Board

Attachments:

1. RAB Meeting Minutes
2. Distribution List

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ADMINISTRATIVE RECORD

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