

**RESTORATION ADVISORY BOARD**  
**DUGWAY PROVING GROUND**  
**ENGLISH VILLAGE COMMAND CENTER CONFERENCE ROOM A**

**November 8, 2000**  
**Meeting Minutes**

The meeting of the Dugway Proving Ground Restoration Advisory Board (RAB) was held on Wednesday, November 8, 2000 at 6:30 p.m. in the English Village Command Center Conference Room A at Dugway Proving Ground, Utah. A copy of the Agenda is provided as Enclosure 1. Attendees are listed on Enclosure 2. Handouts are included under Enclosure 3.

**6:35 Welcome/Introductions/Business**

- A. The meeting was brought to order by Community Co-chair, Royce Larsen. RAB members and guests introduced themselves and were welcomed. This is the fourth official meeting of the RAB.
- B. Joe Gearo informed the RAB that one member has requested a 6-month leave of absence, and would like to return after that time. Members agreed that this is acceptable, and that they will make an effort to keep the member informed as appropriate.

**6:40 Acceptance of Meeting Minutes from August 9, 2000 RAB Meeting**  
**Joe Gearo, Installation Co-chair**

**Motion:** A motion to accept the minutes was made by Marianne Rutishauser. Motion carried.

**6:45 RAB Operating Procedures – Continued Discussion/Vote**  
**Marianne Rutishauser, Member**

The Operating Procedures Committee met to discuss and address proposed changes identified during the August 2000 meeting. Changes to Revision 3 of the mission statement and operating procedures were reviewed. Additional changes were discussed, edited and approved during the meeting. A copy of the approved Operating Procedures is included under Enclosure 3.

**Motion:** Motion to accept the revised RAB Mission and Operating Procedures made by Alan Mitchell; seconded by Royce Larsen. Motion carried.

**7:10 Information Repository Status**  
**Vicky Henderson, Corps of Engineers**

An Administrative Record (located at Dugway Proving Ground) and two Information Repositories (located at the Tooele Chemical Stockpile Outreach Center and the University of Utah - Marriott Library) for Dugway Proving Ground environmental restoration documents and RAB activities are being established. All of the documents are available for RAB members and the public to review. As of November 2000, 30 documents have been placed in the repositories. It is the Installation's goal to have a complete repository available for public review within the next few months. A document list identifying reports currently available is attached under Enclosure 3.

**7:14 RAB Member Tour of DPG – What works? Environmental Restoration Tour Sites, Date,**  
**Time**  
**Scott Reed, Dugway Proving Ground**

In past meetings, RAB members have expressed an interest in touring the facility to familiarize them-selves with the some of the 200+ identified environmental sites. As it would not be feasible to see all of the sites during one tour, members are requested to identify sites of interest prior to the

tour. Sites representative of lagoons, landfills, etc. can be selected. It was also proposed that a winter tour would not be as beneficial as a spring tour. Members are encouraged to give feedback to the co-chairs by the next meeting. The tour may include lunch at the Ditto Diner if members wish.

**ACTION:** Members will discuss and identify sites of concern, potential tour dates, and times.

**7:25 ~BREAK~**

**7:40 EPA Requirements for Indoor Air Surveys  
Dave Larsen, UDEQ & Larry Diede, US EPA**

Dave Larsen and Larry Diede presented information on Indoor Air Monitoring, a part of EPA's Environmental Indicator Program (EI) to identify sites which have the potential to cause problems in any of three areas: soil, air and groundwater. They noted that Dugway Proving Ground is aware of the issues and concerns regarding indoor air monitoring. The EPA and State believe that this should be a priority because of the potential for exposure. The buildings of concern are located above solvent-contaminated groundwater plumes.

RAB members also received an update on EPA's EI program that led to further discussion. The program involves a review of each site to determine if waste releases are under control (i.e. the release is not an immediate threat to human health). EPA and UDEQ believe that only 3 of the 215 sites are considered "not under control" and these concerns are being assessed. The first concern is the quality of indoor air in buildings above the groundwater plumes (due to indoor air issues); the second is the oily ditch located approximately 50 yards south of the Ditto chemical lab; and the third is the potential for contaminated groundwater migrating from SWMU 79 east of Carr. None of the areas are in the English Village vicinity. At this time, no one is aware of any problem at these sites; however, the State would like further information before signing them off as being "under control."

Scott Reed explained Dugway doesn't concur with the EPA/UDEQ request for more indoor air sampling. He explained that Dugway has plotted the plumes and found that four buildings in the CARR and Ditto areas are located over TCE/PCE contaminated plumes. The air in those buildings have been sampled by DPG's Industrial Hygienist (IH), using those results and a risk assessment prediction model approved by the IH community, determined that these buildings are safe to occupy. Site-specific sampling will be continued to monitor the air at these sites by the Dugway IH. Of concern to Dugway's Environmental Office is that neither EPA nor UDEQ remediation programs have established a protocol for indoor air monitoring. Thus without a standard procedure any additional work conducted at these site may lead to inconclusive and misleading remediation decisions. He also stated that Dugway will continue to work towards resolution of these issues.

Q: Chae Kim – Is the air in these buildings contaminated?

A: Scott Reed – The solvents in the groundwater plumes are volatile and can come up through the soil; however, the IH air surveys of these buildings has not shown any presence of contamination.

With respect to the ditch with oil present in the soil, Scott explained that Dugway is responding to the State's concerns and has been working with them to address the question of human health exposure. Dugway believes that there are no human health issues at this site also based on the Dugway IH sampling and assessments. Dugway is also currently addressing the concern that groundwater from the contaminated aquifer may migrate. Sampling will start within the next few weeks.

Q: Chae Kim - Is the groundwater migrating toward trailer court near Bldg. 3445 (Carr)?

A: Scott Reed – Dugway is sampling to define the nature and extent of the plume in that area. The results will be made available to the RAB.

**8:00 Introduction to the Installation Restoration Program (IRP) – Current Work & Updates**  
**Scott Reed, Dugway Proving Ground**

The program status is separated into two types of sites: RFI Sites (SWMUs) and Consent Order Sites (HWMUs). In order to limit the information overload, the presenters will address sites where work is currently being performed, progress made at these sites since the last RAB meeting 3 months ago, current work and planned near-term work.

**8:05 RCRA Facility Investigation (RFI) Sites**  
**Solid Waste Management Units (SWMUs)**  
**Ed Staes, Parsons Engineering Sciences**

Mr. Staes presented a historical review and an update on the groundwater investigation activities at the RFI (RCRA Feasibility Investigation) SWMUs. Groundwater contamination has been identified at 3 SWMUs in the Ditto area and 5 in the Carr area. Contamination is primarily chlorinated solvents, within the first water-bearing zone, and is confined to on-post locations. A regional approach is being used to evaluate contamination and establish long-term actions. A copy of the presentation is included as part of Enclosure 3.

**8:25 Consent Order Sites**  
**Hazardous Waste Management Units (HWMU)**  
**Jeff Ogawa, IT Corporation**

Mr. Ogawa provided the RAB with an update on the Consent Order Sites field activities including Hazardous Waste Management Units (HWMUs) 33, 36, 42, and 63-2, and Sump Contents Characterization and Removal from HWMUs 51, 58, 63-1, and 128. A copy of his presentation is attached as part of Enclosure 3.

**8:40 Questions and Discussion**

It was proposed that maps in the handouts will be reproduced in color.

**Action:** Color maps from this meeting's presentations will be enclosed with the minutes.

**9:00 Set Next Meeting Agenda Topics**

The next meeting of the RAB is scheduled for Monday, **12 February 2001 at 5:30 PM** at Dugway Proving Ground, English Village Command Conference Room, Building 5450. Board approved.

RAB members present were surveyed for preference for Monday or Wednesday evening meetings. Of 12 members, 1 prefers Monday, 3 prefer Wednesday, and 8 had no preference. Meeting time of 5:30 was the preferred time, with 1 vote for 6:30. Vicky Henderson will survey the remaining members by telephone.

**9:20 Meeting adjourned.**

Attachments (handouts):

- 1 Agenda
- 2 Attendance Roster
- 3 Presentation Handouts:
  - a. Approved Mission Statement/Operating Procedures
  - b. Information Repository Inventory List (to date)
  - c. Presentations – Introduction, Business
    - Update - RFI Sites
    - Update - Consent Order Sites