

***Final Minutes
Restoration Advisory Board
Former Lowry Bombing and Gunnery Range
May 17, 2006***

The May 17, 2006 meeting of the Restoration Advisory Board (RAB) was held at the Doubletree Hotel at 13696 E. Illiff Place, Aurora, CO. The meeting started at 6:30 p.m.

Welcome and Opening Remarks

Mr. Jerry Hodgson, U.S. Army Corps of Engineers (USACE), opened the meeting at 6:30 p.m. Mr. Hodgson asked all in attendance to introduce themselves.

Attendance

The following RAB members were present:

- Jerry Hodgson, USACE Omaha District, Co-chair
- Julio Iturria, Arapahoe County
- Don Roche, City of Aurora
- Pete Pagano, DTH#2
- Mark Harding, Rangeview Metropolitan District
- Melissa Yoder, State Land Board
- Jeff Swanson, Colorado Department of Public Health and Environment (CDPHE)
- Lynn Robbio Wagner, Tri County Department of Health (TCHD)

Other attendees:

- Keith Wegner, Correlation Corp.
- Morey Engle, Shaw Environmental, Inc.
- John Mullen, Shaw Environmental, Inc.
- Teri Farrell, Shaw Environmental, Inc.
- Chris Sundeen, Shaw Environmental, Inc.
- Rick St. Amand, Shaw Environmental, Inc.
- Pat McGinnis, Shaw Environmental, Inc.
- Greg Travis, Zurich NA
- Gary Foster, CH2MHill
- Spencer Luft, Cunningham Fire District

GENERAL RAB ITEMS

Mr. Hodgson asked if the board had an opportunity to review the minutes from the November 16, 2005 and January 19, 2006 RAB meetings prior to the meeting. Both meeting minutes were approved without comment.

***FORMER LOWRY TRAINING ANNEX
FIELD WORK UPDATE***

(presentation posted on the web)

Mr. Hodgson presented an update on the Former Lowry Training Annex (FLTA). Munitions response activities at the FLTA EOD circle (circular boundary) and the northern and eastern extension grids are complete. The proposed plan forward for the FLTA is to address the 460 acre area between the FLTA EOD circle and the Navy/DRI site to the east using digital geophysical mapping (DGM) and munitions clearance activities. The subject area is bounded by Quincy Avenue on the south and the Ground Wave Emergency Network (GWEN) site on the north. Initially, the priority is the 145 acre northern area. Funding for this work is currently in place. Additionally, the Air Force is actively pursuing funding for the remaining work within the 315 acre southern area. Yucca removal and surface clearance activities are complete for both the northern and southern areas. Munitions clearance activities will begin this summer using existing teams from the Former Lowry Bombing and Gunnery Range (FLBGR) project.

**FORMER LOWRY BOMBING AND GUNNERY RANGE
FIELD WORK UPDATE**

(presentation posted on the web)

Mr. Hodgson presented an update of the FLBGR project status. The presentation included a summary of activities completed to date, ongoing activities, and future efforts. Mr. Hodgson was pleased to announce that this project has worked at least 2,302 days without a lost time injury. Six munitions response teams are currently working at the Rocket Range site and one geophysics team is working at the Mortar Range site.

Since the last RAB meeting on 18 January 2006, 15 grids have been completed in Bombing Target 3, two grids have been completed in Bombing Target 4, one additional grid has been completed in the Mortar Range, and 28 grids have been completed in the Rocket Range. The overall estimated percent complete to date is 35% for the entire FLBGR.

BOMBING TARGET 2

A 5-day demonstration project is planned for the second week in June utilizing a modified excavator/scrapper to perform remote controlled munitions removal for the top 6" of soil in five site grids (~3 acres) at Bombing Target 2 (BT2). The intent of the demonstration is to evaluate this new technology in relation to detecting and removing munitions from the near surface soil, un-manned. The demonstration is aimed at clearing the larger portion of surface clutter (i.e., anomalies) within the target center to enable better DGM results. Mr. Hodgson indicated that one of the potential negative issues with this technology lies in the fact that it is not designed to excavate the one to two feet of soil required for the optimal preparation of the ground for DGM activities.

Mr. Jeff Swanson, CDPHE, added that this modified scrapper is designed to be used for the first pass over a contaminated area and that a traditional scrapper could then be used to remove the remainder of the soil. Alternatively, the modified scrapper could be used for multiple passes to achieve the required depth of excavation. The modified scrapper has previously been used on seeded targets/sites, but this will be the first demonstration on a live target site.

Mr. Hodgson stated that Mr. Keith Wegner (Correlation Corp.) has been invited to attend the demonstration as a representative of the RAB.

JEEP/DEMOLITION RANGE (JDR)

The Mr. Hodgson stated the USACE and CDPHE both agree that the recovered chemical warfare materiel (RCWM) risk at the Jeep/Demolition Range (JDR) is extremely low and have recommended resumption of conventional munitions response activities. As a result, conventional clearance activities are expected to resume at the JDR within the next month. Mr. Hodgson stated that based on the current project schedule, he is expecting munitions response activities within the JDR to be complete in approximately 6 months. However, this work excludes the area within the bermed triangle located at the center of the site. A timeline for addressing this heavily contaminated area has not been developed.

BOMBING TARGET 5 (FPRI)

Bombing Target 5 (BT5) munitions response activities are being performed by CH2M Hill. To date, 573 acres have been surface cleared at BT5 and 622 acres have been geophysically mapped. "Map & dig" operations are complete in 500 acres and "mag & dig" operations are complete in 50 acres. To date, 47 demolitions shots have been performed and 237 live items have been recovered.

Geophysical mapping was scheduled to be complete in May 2006, with intrusive investigations to be completed by the end of June 2006. The post-removal verification phase is scheduled for completion later this summer.

TECHNICAL ASSISTANCE FOR PUBLIC PARTICIPATION (TAPP) UPDATE *(presentation posted on the web)*

Mr. Keith Wegner, Correlation Corp., reported on his recent activities associated with the FLBGR project. Mr. Wegner stated that he had completed the Draft Final Area of Concern (AOC) Prioritization report and then presented an overview of his new proposed scoring methodology as discussed below.

PROJECT PRIORITIZATION

Mr. Wegner described the process and rationale for determining the revised scoring for the prioritization of AOCs at FLBGR. He indicated that the following factors had changed the initial scoring that was presented at the 19 January 2006 RAB meeting:

- The Type of Hazard category was revised to take into account the density of live items found over the total acreage of an AOC. Scoring ranges were also changed from 25-100 to 25-150 for the Type of Hazard and Overall Hazard categories:
- Infrastructure and Land Use criteria were applied in terms of the original Engineering Evaluation/Cost Analysis (EE/CA) land use groupings.
 - EE/CA Group I – Open Space/Habitat Management/Ranch Land Uses (50)
 - EE/CA Group II- Parks and Recreational Uses (75)
 - EE/CA Group III – Institutional/Public, Commercial/Business Park, Industrial, Residential, Agricultural, Other, and Tourism Land Use (100)
 - Mixed Usage (75)
- Cost was ranked highest to lowest in terms of percent complete and cost to complete for each AOC.
- Access was evaluated in terms of new construction and changed land usage.

The end result of this new scoring is shown below in Table 1.

Table 1. Final Draft Scoring

FINAL DRAFT SCORING - CATEGORIES ARRANGED BY MEAN SCORE										
Criteria	Land Use	Type of Hazard	Overall Hazard	Infrastructure	Access	Cost	Environmental Impacts	Economic Impacts	Legal Restrictions	Total Score
Weighting Factor	0.138	0.146	0.152	0.179	0.069	0.083	0.131	0.055	0.048	
Jeep/Demolition Range	100	150	150	100	75	100	25	75	50	
Rocket Range	75	75	75	75	100	50	50	50	50	
BT2	75	75	50	75	50	100	25	75	50	
BT6	75	50	50	75	75	100	50	50	25	
BT7	50	100	75	50	25	50	50	25	50	
AG Gunnery Range	75	25	50	75	25	25	100	50	50	
BT5 (FPR)	100	75	50	25	75	75	25	50	25	
BT3	50	100	75	25	50	25	50	50	50	
20mm Range Fan Area B	75	25	25	75	75	75	50	25	50	
Mortar Range	75	50	50	50	75	25	50	25	50	
BT4	100	75	75	25	25	25	25	25	25	
BT1	50	50	25	50	50	25	50	25	25	
Mean	75.0	70.8	62.5	58.3	58.3	56.3	45.8	43.8	41.7	59.7

Mr. Wegner pointed out that one of the big changes with this iteration of the AOC scoring is that the Air-to-Ground Gunnery Range (AGGR) moved from being the first priority AOC to the middle of the rankings due to the revised interpretation of the Land Use category. Mr. Wegner pointed out that under the revised AOC scoring, the JDR site returned to the number one priority AOC, suggesting that the revised ranking is a better model since the JDR is, by RAB consensus, the most hazardous and highest priority AOC at FLBGR. Additionally, Mr. Wegner pointed out that BT2 and Bomb Target 6 (BT6) moved up in priority since their current percent complete estimates are higher than the other AOCs.

Mr. Wegner then described how the AOC scoring was calculated and that the AOCs are ranked relative to one another. For example, if an AOC is located adjacent to an area with existing or planned residential development, this AOC would receive a score of 100%. As an example, the infrastructure category was used (with a relative weighting of 0.179 as shown in Table 1, above). The 0.179 value was calculated by taking the number of votes this category received by the total number of votes available (each voting RAB member received the equivalent of two votes [i.e., chips] per category when voting was conducted in November, 2005).

Mr. Mark Harding, Rangeview Metropolitan District, stated that he feels that the RAB does not and did not completely understand the scoring methodology prior to voting in November 2005. However, he stated that he feels the revised scoring is currently acceptable. However, when prioritization is revisited next year, he wants to be sure the RAB fully understands the scoring methodology so they can cast their votes accordingly. He also stated that though the AGGR site does not have to be addressed this year, it will be a priority site in 2007.

Mr. Swanson suggested that during the next AOC prioritization effort, Mr. Wegner calculate the relative weighting factors prior to voting. Mr. Hodgson pointed out that voting is not supposed to be based on a particular AOC, rather for criteria which are deemed the most appropriate for the entire FLBGR. Ms. Lynn Robbio Wagner, TCHD, said she is pleased to see that the Land Use category has become a more important weighting factor.

Mr. Pete Pagano, DTH #2, asked that if BT6 is almost complete, why not go ahead and complete the entire target. He felt that regardless of cost, if a target that was a high priority a few years ago is so close to completion, why not have munitions response teams complete clearance activities before moving to a different AOC. His preference is to not skip around the AOCs until they all are 50% done, but rather finish the AOCs that have already been started. Mr. Julio Iturreria, Arapahoe County, also agreed with Mr. Pagano about finishing AOCs already started. Ms. Melissa Yoder, State Land Board, also agreed that if there is an effective way to make progress at the FLBGR, then it might be beneficial to finish an AOC before moving to another target. Mr. Hodgson pointed out that the top four priorities in the revised scoring are the AOCs with the most work already completed.

After discussion, the RAB voted on whether or not to accept Mr. Wegner's prioritization of the FLBGR AOCs. All members present voted to accept the Draft Final prioritization.

Adjournment

The meeting adjourned at 7:30 p.m. Arrangements were made for the next meeting to be held on 19 July 2006 at the Aurora Public Library; 14949 E. Alameda Dr., Aurora, Colorado. It was agreed that the meeting notification for the next RAB meeting would be sent out on or around 10 July 2006.