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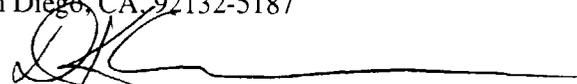
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MCAS El Toro, California

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Date/Time Received

**MARINE CORPS AIR STATION EL TORO**  
**RESTORATION ADVISORY BOARD MEETING**

**30 NOVEMBER, 1995**

*DRAFT MEETING MINUTES*

A Restoration Advisory Board (RAB) meeting for Marine Corps Air Station (MCAS) El Toro was held Thursday, November 30, 1995 at the Irvine City Hall. The meeting began at 7:15 p.m. These minutes summarize the discussions and presentations from the meeting.

**WELCOME, INTRODUCTIONS, AGENDA REVIEW**

Ms. Marcia Rudolph, Community RAB Cochair, opened the meeting by wishing everyone a happy holiday season. She introduced Mr. Joseph Joyce, Marine Corps/Navy RAB Cochair and asked all attendees to introduce themselves. She reminded the group that the RAB plays an advisory role for environmental issues, and that other forums exist to address other issues. RAB members were reminded to sign in on the preprinted RAB member sign-in sheets, rather than the guest sign-in sheets.

**Approval of October 26, 1995 Meeting Minutes**

The minutes were approved.

**RAB Member Subcommittee Participation**

Ms. Rudolph reminded the RAB that members have agreed to serve on at least one subcommittee. She encouraged everyone to adhere to this agreement, and passed around a new sign up sheet for subcommittees. She suggested that when subcommittee members review a document, it is best to pick one part of the document for initial review before reviewing the rest of the document. In addition, subcommittees may request participation of regulatory agency representatives to assist in document review.

**RAB Rules of Operation and Proposed Changes**

It was suggested that the RAB's Mission Statement and Operating Procedures be reviewed at the next meeting for possible modification. Issues include membership recruiting periods, notification of absence from meetings, and regulators' participation in subcommittees. Ms. Rudolph provided specific suggested wording for these changes as a starting point for discussion.

### **Future Meeting Dates**

Mr. Joyce presented a list of RAB meeting dates for 1996. They are: January 31, February 28, March 27, April 24, May 29, June 26, July 31, and August 28, all falling on the last Wednesday of each month. All meetings are scheduled for the Conference and Training Center, the large conference room at Irvine City Hall. In January, the Marine Corps/Navy will try to reserve the room for September through December.

### **Action Item Response**

Mr. Joyce reported that his response to the City of Irvine letter discussed at the October 26, 1995 RAB meeting is available tonight as a handout. Brief descriptions of the eleven "certified remedial technologies" discussed during one of the presentations at the October RAB meeting were also provided as a handout (California Environmental Protection Agency, Department of Toxic Substances, Technology Transfer Advisories, August 1995).

### **NEW BUSINESS**

#### **Regulatory Agency Comment Update**

Ms. Bonnie Arthur, U.S. Environmental Protection Agency (U.S. EPA) Project Manager, reported that U.S. EPA has reviewed the seven Engineering Evaluations/Cost Analyses (EE/CAs) for removals. The U.S. EPA review, the second round for the agency, occurred simultaneously with the public comment period, and the agency was pleased with the Marine Corps/Navy response. U.S. EPA recommended conducting confirmation soil sampling from the excavated areas after removal activities to be sure all contamination has been removed.

U.S. EPA also reviewed the Draft Sampling and Analysis Plan, the Draft Quality Assurance Project Plan, the Draft Data Management Plan, and the Draft Investigation Derived Waste Management Plan for the upcoming basewide groundwater monitoring effort at MCAS El Toro. Ms. Arthur provided copies of U.S. EPA's comments on these documents. A meeting with U.S. EPA and the Marine Corps/Navy to discuss these draft plans for groundwater monitoring is scheduled for December 1.

Ms. Arthur also reported that Superfund legislation has not been reauthorized; the funding ran out in September. Two bills now in Congress would reauthorize Superfund expenditures. The Senate subcommittee overseeing Superfund reauthorization was meeting this week.

Mr. Juan Jimenez, Project Manager with the California Environmental Protection Agency's Department of Toxic Substances Control (DTSC), could not attend tonight's

meeting. He will make a presentation at the January 1996 RAB meeting to provide DTSC comments on documents undergoing review.

### **Environmental Investigations Status Report - Mr. Tim Latas, CLEAN II**

Mr. Tim Latas, assigned as CLEAN II Contract Task Order Leader for preparation of the Phase II Remedial Investigation/Feasibility Study (RI/FS) Work Plans, Engineering Evaluation/Cost Analyses for Removal Actions, and technical lead for the landfill investigations, gave an overview and status update on the MCAS El Toro Phase II RI/FS. Details of Mr. Latas' presentation material are available in the handout provided at the RAB meeting. He stressed that many of the details presented are based on preliminary data from the Phase II investigation; they may change later under a quality assurance procedure that the team will use to review the data. His presentation included an overview of the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA) (Superfund) Process; status reports on the Volatile Organic Compound (VOC) Source Area Investigation, the Landfill Investigations, and the Operable Unit 3 (OU-3) Investigations; and a schedule for the Installation Restoration Program (IRP) highlighting milestones for the various Operable Units (Nos. 1, 2A, 2B, 2C, and 3).

Mr. Latas briefly explained the steps in the Superfund process and provided a flow chart on the process as a meeting handout. The Preliminary Assessment (PA) generally identifies past hazardous waste sites through a records search and a site walk. The Site Inspection (SI) provides more detailed site information, possibly sample data, and limited risk analysis. The purpose of the Remedial Investigation and Feasibility Study (RI/FS) is to delineate the extent of contamination, and identify appropriate cleanup alternatives. Following the RI/FS, a proposed cleanup plan is prepared that summarizes remedial alternatives presented in the detailed analysis of the RI/FS report and identifies the preferred remedial alternative. It is followed by a Record of Decision (ROD) that formally acknowledges selection of a cleanup alternative. The key period for public comment and involvement occurs when the RI/FS report and the Proposed Plan are released for public review.

Mr. Latas then reviewed the history and schedule of the Phase I and Phase II Remedial Investigations at MCAS El Toro. Anticipated completion dates for various RI/FS tasks are included in the handout presented at the meeting. He also explained the Superfund Accelerated Cleanup Model, which is a method of expediting environmental cleanup projects. Phase I RI efforts provided data that has helped the fast-track cleanup effort and the expediting of cleanup actions at various Installation Restoration Program sites at MCAS El Toro. Early next year, removal actions (cleanup) will begin at seven sites (4, 7, 11, 13, 14, 19 and 20) at MCAS El Toro, with other cleanup actions beginning in late 1996 or early 1997.

Results were presented on the Volatile Organic Compound (VOC) Source Area Investigation, including completed, current, and upcoming activities. Mr. Latas

supplemented this information with maps showing areas of VOC contamination, particularly plumes of trichloroethylene (TCE) in the soil gas and groundwater. Preliminary results indicate the presence of seven TCE plumes in the VOC Source Area. TCE is the primary contaminant from a human health risk standpoint. Benzene, a key component of gasoline, is another VOC that has been detected in this area near underground storage tanks. Monitoring wells have been installed to help delineate the extent of the groundwater plume in certain areas. Based on the preliminary analysis of groundwater sampling, the extent of the plumes have not changed from the Phase I data, only minor changes in the concentrations of contaminants have been identified. The vertical extent of the plume was examined by taking water samples at different depths. In the well that had the highest detection of TCE two years ago (Phase I data), concentrations of TCE have apparently decreased.

Mr. Latas explained that an air sparging pilot test is currently under consideration for the VOC Source Area. A draft air sparging pilot test plan was issued to the regulatory agencies this week for review. Air sparging is a proven technique for removing VOCs from groundwater. Pilot tests are needed to determine the site-specific effectiveness of this technology at this VOC Source Area. This method involves injecting air into the aquifer through an injection well to create "micro" air bubbles. The TCE in the groundwater is then carried upward by the bubbles to the silt and sand layers above the groundwater. The TCE is then released to soil gas and is collected in a vapor extraction well using a vacuum pump and that brings it to the surface. A treatment system located on the ground surface uses activated carbon filters to remove the TCE from the soil gas.

Discussion centered on the details of the air sparging process, including cost, soil characteristics, field results, well placement decisions, and measurement techniques. Mr. Joyce reminded the group that this pilot test is meant to evaluate the suitability of air sparging technology for use at MCAS El Toro. Preliminary data should be available by late February.

Together, planned activities for the VOC Source Area include surface water sampling, air sparging pilot testing, receiving and validating data from offsite laboratories, and preparing the draft RI report.

Regarding the Landfill Sites Investigation, the CLEAN II team hopes to finish field work before the Christmas holiday. The handout presented at the meeting provides further details of the geophysical surveys conducted at the landfill. The purpose of the surface geophysics surveys is to help delineate the landfill boundaries using electromagnetic techniques. Mr. Latas, using a series of "field" maps, illustrated the landfill boundaries, areas that contain trash, areas where utilities are present, seismic faults that have been identified, and areas where trenching work was done to determine landfill boundaries.

Mr. Latas explained how geophysicists interpret electromagnetic readings. Discussion centered on confirmation of initial interpretations, and electromagnetic anomalies

possibly resulting from non-landfill activities. Regarding an earlier question about the golf course, the geophysical anomalies appear to result from a high moisture content in the soil, rather than from landfill material.

Mr. Latas also discussed soil gas sampling at the landfills. For Site 2, using preliminary results obtained from soil gas sampling, he showed on the field maps areas where VOCs (vinyl chloride, freon 12, and total VOCs) have been detected. He also explained, using diagrams and maps, where monitoring wells with lysimeters have been installed and where trenching was conducted. He said that wells have not been placed in known landfill areas in order to avoid creating a conduit for contamination to reach the groundwater. Lysimeters were installed at angles under the landfills to extract soil moisture from beneath the landfills, and analyses of soil moisture will be used to assess if the landfill is leaking. The handout provided has specific details of the completed, current, and upcoming tasks associated with the landfills.

A brief update of Operable Unit 3 sites was provided. Mobilization of field efforts has begun, sampling locations are being marked, and utility clearances are being obtained. Drilling is expected to begin the week of December 11. Mr. Latas concluded his presentation with an outline of the schedule for upcoming draft Remedial Investigation reports and issue dates for these documents. Details are provided in the handout.

The group discussed the public comment period for the seven EE/CAs. Mr. Joyce has received no public comments. RAB members briefly discussed a suggestion to combine the OU-2 and OU-3 subcommittees. Because the discussion will require more time, due to the differences between these Operable Units, Ms. Rudolph suggested adding this issue to the January 1996 RAB meeting agenda. Mr. Joseph will provide information to both subcommittee chairs to help them with this discussion.

**Operable Unit 1 Revised Draft Interim Action Feasibility Study Report and Public Participation Activities - Andy Piszkin, Remedial Project Manager, Southwest Division Naval Facilities Engineering Command**

Mr. Andy Piszkin, SWDIV Remedial Project Manager for OU-1, provided a detailed presentation on the Draft Interim Action Feasibility Study (IAFS) Report. The report presents an evaluation of groundwater remediation alternatives. He provided a series of handouts that provided highlights of the document. He explained that the initial report was completed in September 1994, but has since been expanded to consider additional alternatives. The initial report focused on an alternative to utilize the Irvine Desalter Project desalter unit being planned for development by the Orange County Water District. However, this project is currently on hold. Mr. Piszkin explained that the OU-1 IAFS focuses on shallow groundwater, and the principal aquifer contaminated with VOCs, that has migrated off-station. The OU-1 IAFS does not consider other contaminants that may or may not be present in the groundwater.

Mr. Piszkin showed slides of the shallow groundwater and principal aquifer that make up the area of OU-1. It is a defused, low concentration plume that extends about 3 miles from the VOC Source Area. The primary contaminant of concern is TCE. In the shallow groundwater, TCE has been detected at up to 30 parts per billion (ppb); the deep aquifer has a range of TCE concentrations from 5 to 50 ppb with an average concentration of 34-37 ppb. Portions of the deep aquifer serve as a source for the local irrigation and reclaimed water systems.

Mr. Piszkin explained the goals of the Interim Action for OU-1: minimize VOC contamination in the groundwater; prevent human exposure to the contamination; and keep it contained so no further spreading occurs. In addition, cleanup actions eventually selected for the VOC Source Area (OU-2A) are expected to eliminate or significantly reduce migration of contamination into the plume making up the OU-1 area.

The general FS process was outlined including the evaluation of potential remedial alternatives and the supporting an informed risk management decision on a cleanup method. Mr. Piszkin stated that EPA guidance helps make these efforts consistent and the MCAS El Toro team is following the guidance, even though it is not mandatory. He then outlined the nine U.S. EPA Evaluation Criteria for remedial alternatives. He explained that the current effort is considered “interim” because it only addresses VOCs in the specific area. If it is determined later that more than VOCs need to be addressed in the regional area, other cleanup actions will be evaluated. If not, then most likely “no further action” reports will be prepared for the regional contaminated groundwater plume area. Groundwater cleanup plans for other areas and other contaminants around the station are actively being developed with the VOC Source Area (Site 24) as a high priority.

Mr. Piszkin discussed possible alternatives to remediating the large, deep diffused plume. Before the Orange County Water District’s Irvine Desalter Project was delayed in late 1994, every alternative (9/94 IAFS) that was studied in full detail depended on the desalter; therefore, the FS was expanded to its current form. Additional joint projects and several Department of the Navy (DON) stand-alone projects were explored further. A handout (OU-1 IAFS Draft Report Executive Summary Table 1) provided by Mr. Piszkin summarized the 12 alternatives that were evaluated. The alternatives were evaluated for their implementability, technical effectiveness, and cost effectiveness for addressing VOC contamination in the shallow groundwater unit and the principal aquifer. Another handout detailed the screening of the 12 alternatives. He then presented further details on the two alternatives, Alternative 2A (DON stand-alone) and Alternative 6A (a joint Department of the Navy/Orange County Water District project), currently seen as the front runners by the Marine Corps/Navy. These two alternatives have emerged as the best candidates from the standpoints of technical effectiveness and cost effectiveness. A handout that presents schematic drawings of these two alternatives was also provided.

He presented handouts detailing cost information from the Interim Action FS Report on Alternatives 2A and 6A (capital cost, operation and maintenance, and present worth costs). Alternative 2A would treat 3,200 gallons of water per minute and roughly cost \$54 million. Alternative 6A would treat 5,700 gallons of water per minute and roughly cost \$33 million which equates to the Department of the Navy paying approximately 74 percent of the total cost for this VOC remediation alternative.

The RAB also had a discussion on shared facility costs. Mr. Piszkin also showed schematics and diagrams for various technologies. The goal of the Interim Action FS Groundwater Modeling Analysis, he reiterated, is to compare alternatives, not to perfect (design) any single alternative; and cost figures generated in the Interim Action FS Report are more detailed than most since much of the project components are similar to that of the Orange County Water District's Irvine Desalter Project.

### **RAB Subcommittee for OU-1 Interim Report - Don Zweifel**

Mr. Zweifel reported that this subcommittee needs another week to complete its review and prepare an effective RAB presentation. He requested Marine Corps/Navy and regulatory agency representation at the next subcommittee meeting, tentatively scheduled for December 6.

### **MEETING EVALUATION**

RAB members stated that the meeting was too long and better planning is advised. Some suggested that meetings start earlier and on time. The presentations were well done and members felt that if content was decreased then not enough information would be provided. It was suggested that more important topics be placed at the top of the agenda. Suggested agenda topics for future RAB meetings included a presentation on the air sparging pilot test, discussion on Mission Statement and Operating Procedures, and discussion on possibilities of combining the OU-2 and OU-3 subcommittees.

### **FUTURE MEETING DATE AND LOCATION**

- The next RAB meeting is scheduled for Wednesday, January 31, 1996 at the Irvine City Hall, Conference and Training Center, One Civic Center Plaza, Irvine.

The meeting was adjourned at 10:15 p.m.

### **Attachments:**

- Sign-in sheets
- 1996 RAB meeting schedule (January-August)
- Proposed Changes to MCAS El Toro RAB Mission Statement and Operating Procedures (Marcia Rudolph)

**Handouts provided at the meeting and available at the Information Repository:**

- RAB meeting agenda
- RAB meeting minutes - 10/26/95 RAB meeting
- Acronyms and Glossary of Technical Terms
- Cal EPA, Dept. of Toxic Substances Control, Technology Transfer Advisories, August 1995 (11 "certified remedial technologies - descriptions, certifications, contacts
- MCAS El Toro RAB Subcommittees - Chairperson and Member Summary
- Revised "blue sheet" MCAS El Toro RAB, Major Document Release & Review Dates
- Letter from U.S. EPA to Joseph Joyce: agency comments on EE/CAs for Sites 4, 7, 11, 13, 14, 19 and 20
- Letter from U.S. EPA to Joseph Joyce: agency comments on the "Draft Quality Assurance Project Plan, Draft Sampling and Analysis Plan, and Draft Investigative-Derived Waste Management Plan
- Letter from Joseph Joyce to City of Irvine (response to September 12, 1995 City of Irvine letter) with attachments: (1) U.S. EPA Memorandum, OSWER Directive No. 9355.7-04, Land Use in the CERCLA Remedy Selection Process; (2) Department of Navy Memo - Environmental Policy Memo 95-02, Consideration of Future Land Use in Determining Cleanup Standards for Base Realignment and Closure (BRAC) Property
- Presentation - Overview of MCAS El Toro Phase II RI/FS
- Presentation - Operable Unit I Revised Draft Interim Action Feasibility Study Report and Public Participation Activities with attachments: Table ES-1 Overview of Remedial Alternatives; Table 3-2 Screening of Technology Process Options for General Response Actions; Memorandum - Definition of Operable Units 1, 2, 3, and 4 for MCAS El Toro

*A copy of these minutes and the handouts provided at the RAB meeting are available at the MCAS El Toro Information Repository, located at the Heritage Park Regional Library in Irvine. The address is 14361 Yale Avenue, Irvine; the phone number is (714) 551-7151. Library hours are Monday through Thursday, 10 am to 9 pm; Friday and Saturday, 10 am to 5 pm; closed Sunday.*

**MCAS EL TORO  
RESTORATION ADVISORY BOARD MEETING  
November 30, 1995**

**NON-RAB MEMBER SIGN-IN SHEET  
Other Attendees, Newcomers, Guests**

	NAME	AFFILIATION	MAILING ADDRESS	PHONE FAX	INTERESTED IN RAB MEMBERSHIP?
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RAB MEMBER	Greg Hurlby				
	Andy Piszkin	DEPT. OF NAVY (SOUTHWEST DIV)	1220 PACIFIC HWY SAN DIEGO CA 92132	619-532-2635 " " -2469	N/A
RAB MEMBER	Charles Bennett	Community	224 JACARANDA FULLERTON, CA	714-773-5525	MEMBER
	Jerry Kirchgasser	N/A	3486 EBOE ST IRVINE, CA 92714	714 552-3598	
RAB MEMBER	Peck Hersh	City of Irvine	One Civic Center Irvine CA 92677	714 724-6456 714 724-6440	member
RAB MEMBER	Chi Huang	Citizen	PO Box 4258 Irvine	509-9123	
	Tim Lakes	CLEAN II	Bechtel National 401 West A Street San Diego 92101	619 687-8848	

**MCAS EL TORO  
RESTORATION ADVISORY BOARD MEETING  
November 30, 1995**

**RAB MEMBER SIGN-IN SHEET**

Name	Signature	Name	Signature
Arthur, Bonnie	<i>B. Arthur</i>	Lamourex, Susan	<i>Susan Lamourex</i>
Allen, Bob	<i>Bob Allen Rep.</i>	Landis, Lorrie	
Barney, Col. Joseph P. (ret)		Matheis, Mary Aileen	
Bennett, Dr. Charles		Mathews, Thomas	
Boehringer, Roger	<i>Roger Boehringer</i>	McVicker, Robert R.	<i>Robert R. McVicker</i>
Brady Jr., Paul		Meier, Fred J.	<i>Fred J. Meier</i>
Britton, George	<i>George Britton</i>	Merryman, Robert	<i>Bob Allen Rep.</i>
Cohn-Gary, Enid	<i>Enid Cohn-Gary</i>	Mingay, Marsha	<i>Marsha Mingay</i>
Cooper, Frank		Mountford, Dan	<i>Dan Mountford</i>
Crompton, Chris		Murphy, Don	<i>Don Murphy</i>
DaCorte, George F.		Olquin, A. Richard	<i>A. Richard Olquin</i>
Felter, Fraser		Ritchie, Col. E.J.	<i>for P. Cicola</i>
Halbert, Gary J.		Rudolph, Marcia - Co-chair	<i>Marcia Rudolph</i>
Hayes, Finola		Shayegan, Maria	
Herndon, Roy	<i>Roy L. Herndon</i>	Sievers, Larry	
Huang, Chi		Sipp, Jr., Myron L.	
Hurley, Gregory	<i>Gregory Hurley</i>	Vasquez, Barbara	
Hersh, Peter		Vitale, Larry	
Hurt, Dr. Paul R.		Wagner, Jack	
James, Novel B.		Werner, Jerry B.	<i>Jerry Werner</i>
Jimenez, Juan		Westemeier, John F.	
Joyce, Joseph - Co-chair	<i>Joseph Joyce</i>	Woodings, Bob	
Kalwani, Rita		Zweifel, Donald E.	<i>D. Zweifel</i>
Koenigsberg, Dr. Stephen S.			

**MCAS EL TORO  
RESTORATION ADVISORY BOARD MEETING  
November 30, 1995**

**NON-RAB MEMBER SIGN-IN SHEET  
Other Attendees, Newcomers, Guests**

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Roger Brakenridge	Environmentalist		(714) 918-8803	
Ron Okuda	CAL-EPA	245 W. BROADWAY, STE 35 LONG BEACH, CA 90802	(310) 590-4065	
Kim Look	CITIZEN			
Richard J. Quinn	AUCAL	9 BREAKERS LANE ALISO VIEJO 92656	(714) 643-5207	Member
P.F. Gish	MCAS EL TORO	CONCASWEST BRHU ATTN: P.F. Gish MCAS EL TORO PO Box 95001 Suite 400, CA 92709	(714) 726-2679	

RAB MEMBER

RAB MEMBER

**Note: new 6:30 p.m. start time**

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***MARINE CORPS AIR STATION  
EL TORO***

**Restoration Advisory Board**



**The next meeting of the Restoration  
Advisory Board is scheduled for:**

**Wednesday, January 31, 1996  
6:30 - 9:00 p.m.**

**Irvine City Hall  
Conference and Training Center  
One Civic Center Plaza, Irvine**

***Agenda to be mailed week of January 15, 1996***



For more information please contact:  
Commanding General, AC/S, Environmental (1AU),  
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