



M60050.002940  
MCAS EL TORO  
SSIC NO. 5090.3

## IRVINE RANCH WATER DISTRICT

15600 Sand Canyon Ave., P.O. Box 57000, Irvine, CA 92619-7000 (949) 453-5300

February 10, 2003

PR 10376.22

Mr. Karnig Ohannessian, Code 6CC.KHO  
Remedial Project Manager  
Marine Corps BRAC Team  
1230 Columbia St., Suite 870  
San Diego, CA 92101

Subject: BCT Informational Submittal  
Pilot Testing Documents  
Former MCAS El Toro OU1 and OU2A Groundwater Remedy  
SGU Extraction & Irvine Desalter Project

Dear Mr. Ohannessian:

Irvine Ranch Water District (IRWD) submits the following documents:

1. Pilot Testing Protocol.
2. Pilot Equipment Specifications.
3. Site Specific Health and Safety Plan.
4. Copy of OCWD letter to DON regarding License for Access to the Former MCAS El Toro.  
(Please note that this letter contains a preliminary schedule for the on-site piloting activities.)

We intend to pilot at three well sites: IRWD-107 (Culver and Trabuco) for principle aquifer potable water, ET-1 (Jeffery and Irvine Center Drive) for VOC contaminated principle aquifer reclaimed water, and Navy wells (former MCAS El Toro) for SGU water. Appendix B of the Pilot Testing Protocol provides the Pilot Testing P&IDs for the preliminary treatment, reverse osmosis (RO), and three site plans (potable, ET-1 and SGU). At each site, the low flow product and waste streams will be combined and then discharged to an adjacent IRWD sewer. Figure 2 – Process Diagram for Pilot VOC Air Stripper and Off Gas Treatment of the same report shows the VOC removal system which consists of packed column air stripping followed by granular activated carbon units. The primary goals of the pilot study will be to:

1. Investigate membrane fouling (due to organic constituents, biological and/or particulate matter).
2. Examine recovery limits of the membranes due to scaling.
3. Determine VOC removal effectiveness of the air stripping towers.
4. Analyze water quality characteristics of the waste stream for brine disposal permits.

As noted in the DON letter regarding Access License, IRWD and its contractors will be on-site shortly to clean the SGU wells and will start the pilot testing in early March.

February 10, 2003

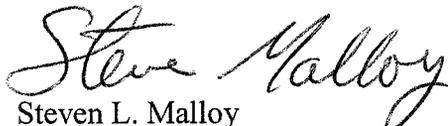
BCT Piloting Informational Submittal

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With the pilot testing to start within the next few weeks, we would appreciate your comments within the next two-week period, or no later than February 25, 2003. In particular, we would appreciate the Department of Toxic Substances Control's comments regarding hazardous waste handling procedures. Please note that as an informational submittal, this is not a Federal Facilities Agreement deliverable and therefore does not start the typical official review cycle.

Any questions you have regarding this submittal may be directed to Steve Tedesco, Tetra Tech, (949) 727-7099, or the undersigned at (949) 453-5570.

Yours truly,



Steven L. Malloy  
Principal Engineer - Design

SM/PAU/clg

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Attachments:

1. Pilot Testing Protocol
2. Pilot Equipment Specifications
3. Site Specific Health and Safety Plan
4. Copy of letter to DON regarding License for Access to the Former MCAS El Toro

Distribution:

Nicole Moutoux, US EPA  
Triss Chesney, Cal EPA  
John Broderick, Cal RWQCB  
Marcia Rudolph, MCAS El Toro Restoration  
Robert L. Woodings, P.E. MCAS El Toro Restoration  
Trish Samora, Headquarters Marine Corps  
Crispin Wanyoike, Earth Tech  
Daniel Jung, City of Irvine  
Rex Callaway, Southwest Div.  
Andrew Piszkin, Marine Corps BRAC Team  
Lynn Hornecker, Marine Corps BRAC Team  
Karnig Ohannessian, Marine Corps BRAC Team  
Scott Kehe, Marine Corps BRAC Team  
Diane Silva, SWDIV  
Steve Conklin, OCWD  
Steve Tedesco, Tetra Tech

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ENCLOSURE (1)  
DRAFT PILOT PROTOCOL FOR THE  
IRVINE DESALTER PROJECT

DATED 01 FEBRUARY 2003

IS ENTERED IN THE DATABASE AND FILED AT  
ADMINISTRATIVE RECORD NO. M60050.002951

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ENCLOSURE (2)  
PILOT EQUIPMENT SPECIFICATION FOR  
THE IRVINE DESALTER PROJECT

DATED 01 FEBRUARY 2003

IS ENTERED IN THE DATABASE AND FILED AT  
ADMINISTRATIVE RECORD NO. **M60050.002950**

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ENCLOSURE (3)  
SITE SPECIFIC HEALTH AND SAFETY PLAN  
PILOT TESTING FOR THE IRVINE  
DESALTER PROJECT

DATED 01 FEBRUARY 2003

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ENCLOSURE (4)  
LETTER REGARDING LICENSE FOR ACCESS BY  
ORANGE COUNTY WATER DISTRICT (OCWD)  
AND ITS SUBCONTRACTORS TO THE FORMER  
MCAS EL TORO

DATED 01 FEBRUARY 2003

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