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Ser09ER2EG/L6081  
18 Jan 1996

California Environmental Protection Agency  
Department of Toxic Substances Control, Region 2  
Attn: Ms. Mary Rose Cassa  
700 Heinz Avenue, Suite 200  
Berkeley, CA 94710

Subj: ENVIRONMENTAL SAMPLING AT CLIPPER COVE SKEET RANGE  
NAVAL STATION, TREASURE ISLAND (NAVSTA TI)

Dear Ms. Cassa:

This letter confirms the recent telephone conversations among Dr. James Baker of PRC Environmental Management, Inc. (PRC) and Navy contractor, Ms. Susan Gladstone of the California Regional Water Quality Control Board (RWQCB), and Dr. Jim Polisini of the California Department of Toxic Substances Control (DTSC) concerning the sampling and analysis plan for the Clipper Cove skeet range at Naval Station Treasure Island (NAVSTA TI). The sampling and analysis will proceed in accordance with the "Phase II Ecological Risk Assessment Draft Final Work Plan and Field Sampling Plan, Naval Station Treasure Island" dated November 8, 1995. The following points are based on the approved sampling plan for the skeet range and on decisions made in recent telephone conversations:

- Core samples will be collected at 12 stations. The top 1 foot of sediment will be sampled and analyzed for lead at all stations. If the resultant lead concentration exceeds the ambient bay values, then the 2-foot and 3-foot interval will be analyzed for lead until the concentrations fall below the ambient bay values.
- Water samples will be collected about 1 foot above the sediment surface for lead analysis at four stations.
- Sediments for bioassays will be collected at four stations. Stations will be selected based on a visual determination of the presence of lead shot. Location will correspond to high (1 station), medium (2 stations), and low (1 station) concentration of lead shot. Approved station locations are S2, S4, S10, and S12. If these stations do not meet lead shot concentration criteria, they will be changed.
- Two bioassays will be conducted at each bioassay station: an amphipod test with *Eohaustorius estuarius*, using whole sediment; and the echinoderm abnormal development test with *Strongylocentrotus purpuratus*, using sediment-extracted pore water. Polychaete tests will not be conducted for the skeet range assessment, but may be considered for the offshore characterization of NAVSTA TI.

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- PAHs will be analyzed at a total of six stations, including the four bioassay stations. Following are the stations that are approved for PAH analysis unless moved to coincide with the bioassays: S2, S3, S4, S7, S10, and S12. The PAH concentrations will be compared to ambient bay levels and will be analyzed at each 1-foot increment until the concentrations fall below the ambient bay levels.
- The criteria for screening for both lead and PAHs will be based on the 1993 and 1994 Regional Monitoring Plan data collected by the San Francisco Estuary Institute. The Navy will analyze the data collected from stations near NAVSTA TI for use in determining the ambient bay levels. Determined values will be reviewed by DTSC and RWQCB before use.

Unless you have any further questions or concerns with the above plan, the Navy will proceed with the sampling of the Clipper Cove skeet range the week of January 22, 1996.

If you have any questions, please call me at (415) 244 2560.

Sincerely,

**Original signed by:**

ERNESTO M. GALANG  
By direction of  
the Commanding Officer

Copies to:

California Regional Water Quality Control Board (Attn: Ms Gina Kathuria)  
California Regional Water Quality Control Board (Attn: Ms Susan Gladstone)  
California Department of Toxic Substances Control (Attn: Dr. Jim Polisini)  
California Department of Fish and Game (Attn: Ms Susan Ellis)  
U.S. Environmental Protection Agency, Region IX (Attn: Ms. Rachel Simons)  
U.S. Environmental Protection Agency, Region IX (Attn: Dr. Clarence Callahan)  
NAVSTA Treasure Island (Attn: Mr. Jim Sullivan)  
San Francisco Department Of Public Health ( Attn: Ms. Martha Waters)  
PRC Environmental Management, Inc. (Attn: Ms. Sharon Tobias)  
Restoration Advisory Board Co-Chair (Attn: Mr. Brad Wong/Mr. Paul Hehn)

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