

5090  
Ser 18312GK/L6219  
21 May 1996

Mr. Tom Lanphar  
California Environmental Protection Agency  
Department of Toxic Substances Control  
Region 2  
700 Heinz Avenue, Suite 200  
Berkeley, CA 94710-2737

Subj: RESPONSE TO COMMENTS FROM THE DEPARTMENT OF TOXIC  
SUBSTANCES CONTROL (DTSC)/DEPARTMENT OF HEALTH SERVICES  
(DHS), ON THE PRELIMINARY DRAFT ADDENDUM TO THE REMEDIAL  
INVESTIGATION/FEASIBILITY STUDY, SITES 1 AND 2 RADIATION SURVEY  
REPORT, NAVAL AIR STATION ALAMEDA, ALAMEDA, CA

Dear Mr. Lanphar,

Enclosed is the Navy's response to your comments on the Preliminary Draft Addendum to the Remedial Investigation/Feasibility Study, Sites 1 and 2 Radiation Survey Report. The Draft version of this document will be distributed soon.

If you have any questions regarding this matter, please feel free to contact Mr. George Kikugawa at (415) 244-2549, Fax (415) 244-2654.

Sincerely,

~~Original signed copy~~

GEORGE KIKUGAWA  
Remedial Program Manager for NAS Alameda  
By direction of  
the Commanding Officer

Copies to:  
DHS (Attn: Penny Leinwander)  
NAS Alameda (Attn: Steve Edde)  
NAS Alameda (Attn: Hans Peterson)  
Radiological Affairs Support Office (Attn: Lino Fragoso)  
PRC Environmental Management, Inc. (Attn: Duane Balch/Rich Halket)

Blind copies to:  
1831, 1831.1, 1831.2, 1831.3, 1831.4, 1831 file  
Administrative Record (3 copies)  
Writer: George Kikugawa, 1831.2GK, X2549  
Typist: A. Bordallo  
Chron, green  
Activity File: NAS ALAMEDA (File: L6219GK.DOC) ab

**RESPONSE TO DTSC/DHS COMMENTS ON THE PRELIMINARY DRAFT  
ADDENDUM TO THE REMEDIAL INVESTIGATION/FEASIBILITY STUDY  
SITE 1 AND 2 RADIATION SURVEY REPORT,  
FEBRUARY 5, 1996  
NAVAL AIR STATION, ALAMEDA, CALIFORNIA**

This document presents the Navy's response to comments received on April 30, 1996 from the Department of Toxic Substances Control (DTSC) and the Department of Health Services, Environmental Management Branch (DHS) on the Preliminary Draft *Addendum to the Remedial Investigation/Feasibility Study, Site 1 and Site 2 Radiation Survey Report*, dated February 5, 1996.

DTSC/DHS Comments are shown in bold type. Responses are in normal type.

## **RESPONSE TO COMMENTS FROM DTSC/DHS**

### **Specific Comments**

- 1. Comment: Page 53, Section 10.0 Conclusions: In the first paragraph it says that Bi-214 was identified in 20 of the 21 spectra. What caused the elevated readings in the spectra that did not identify Bi-214? How was it decided that Sr-90 was not present as stated on page 54, fourth paragraph? Was laboratory radiochemical analysis performed for Sr-90 on any samples?**

**Response:** For the in-situ spectra, a bismuth-214 peak was identified by the peak search routine of the analysis software in 20 of the 21 spectra collected indicating a radium-226 source. This, however, does not mean that the 21st spectrum was not due to radium-226, the most likely contributor. A visual analysis of the spectra (for Anomaly 19) does show a slight peak in the energy range of bismuth-214 that was not recognized by the analysis software. In this case, the source could be buried deep in the soil resulting in muffled peaks. Strontium-90 was eliminated as a potential source in this and all other spectra collected (in-site and soil sample) because no peaks were observed that could be attributed to bremsstrahlung radiation. No laboratory analysis for strontium-90 was performed on the soil samples.

- 2. Comment: Page 55, Section 11.0 Recommendations: DHS agrees with the recommendations to conduct further surveys and to institute measures to control access. Public access areas should be evaluated as soon as possible.**

**Response:** The draft work plan for the detailed surveys of the jogging trails and the recreational fishing point areas has been prepared and is currently under revision. The final work plan is expected to be approved in June 1996. The detailed survey will include coverage of 100 percent of these areas in Sites 1 and 2, which are frequented by civilian and military personnel. Access controls will be established if the Navy's Radiological Affairs Support Office (RASO) deems it necessary following the detailed survey.