

**DEPARTMENT OF TOXIC SUBSTANCES CONTROL**

REGION 2

1 HEINZ AVE., SUITE 200  
BERKELEY, CA 94710-2737

(510) 540-3724



November 18, 1994

Mr. Julian Elliot  
Bay Area Air Quality Management District  
929 Ellis Street  
San Francisco, California 94102

Dear Mr. Elliott:

**SOLICITATION OF APPLICABLE OR RELEVANT AND APPROPRIATE  
REQUIREMENTS FOR NAVAL STATION TREASURE ISLAND, SAN FRANCISCO,  
CALIFORNIA**

The Department of Toxic Substances Control (DTSC) is the lead State agency for the environmental investigation and cleanup at Naval Air Station, Alameda. The Federal Facility Site Remediation Agreement among DTSC, the San Francisco Bay Regional Water Quality Control Board and the U. S. Navy requires full compliance with State and Federal applicable or relevant and appropriate requirements (ARARs) during the implementation of remedial investigations and response actions at Naval Air Station, Alameda.

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1137



Mr. Julian Elliot  
November 18, 1994  
Page Two

Mr. Thomas P. Lanphar  
Department of Toxic Substances Control  
700 Heinz Avenue, Suite 200  
Berkeley, California 94710

If you have any questions regarding this letter or the enclosure, please contact Mr. Lanphar at 510-540-3809. If you would like to review DTSC files on Naval Air Station, Alameda, you may call 510-540-3800 to schedule an appointment.

Sincerely,



Chein Kao, P. E.  
Section Chief  
Office of Military Facilities

Enclosure

cc: Mr. James Nusrala  
Regional Water Quality Control Board  
2101 Webster Street, Suite 500  
Oakland, California 94612

Lt. Mike Petouhoff  
Base Environmental Coordinator  
Alameda Naval Air Station  
Building 1, Code 52  
Alameda, California 94501

Mr. Gary Munekawa  
Western Division  
Naval Facilities Engineering Command  
900 Commodore Drive  
San Bruno, California 94066-2402

Mr. James Ricks  
U.S. Environmental Protection Agency  
Region IX  
75 Hawthorne Street  
San Francisco, California 94105

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HEINZ AVE., SUITE 200  
BERKELEY, CA 94710-2737

(510) 540-3724



November 18, 1994

Dr. Michael Martin  
California Department of Fish and Game  
20 Lower Ragsdale Dr., Suite 100  
Monterey, California 93940

Dear Dr. Martin:

**SOLICITATION OF APPLICABLE OR RELEVANT AND APPROPRIATE  
REQUIREMENTS FOR NAVAL STATION TREASURE ISLAND, SAN FRANCISCO,  
CALIFORNIA**

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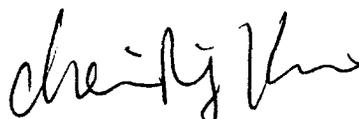


Dr. Michael Martin  
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Mr. Thomas P. Lanphar  
Department of Toxic Substances Control  
700 Heinz Avenue, Suite 200  
Berkeley, California 94710

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Office of Military Facilities

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Regional Water Quality Control Board  
2101 Webster Street, Suite 500  
Oakland, California 94612

Lt. Mike Petouhoff  
Base Environmental Coordinator  
Alameda Naval Air Station  
Building 1, Code 52  
Alameda, California 94501

Mr. Gary Munekawa  
Western Division  
Naval Facilities Engineering Command  
900 Commodore Drive  
San Bruno, California 94066-2402

Mr. James Ricks  
U.S. Environmental Protection Agency  
Region IX  
75 Hawthorne Street  
San Francisco, California 94105

**DEPARTMENT OF TOXIC SUBSTANCES CONTROL**

REGION 2

J HEINZ AVE., SUITE 200  
BERKELEY, CA 94710-2737

(510) 540-3724

November 18, 1994

Mr. Edgar Howell  
Division of Hazardous Materials  
Department of Environmental Health  
Alameda County Health Agency  
80 Swan Way, Room 200  
Oakland, California 94621

Dear Mr. Howell:

**SOLICITATION OF APPLICABLE OR RELEVANT AND APPROPRIATE  
REQUIREMENTS FOR NAVAL STATION TREASURE ISLAND, SAN FRANCISCO,  
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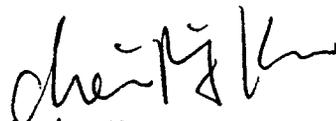
Mr. Edgar Howell  
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Department of Toxic Substances Control  
700 Heinz Avenue, Suite 200  
Berkeley, California 94710

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Regional Water Quality Control Board  
2101 Webster Street, Suite 500  
Oakland, California 94612

Lt. Mike Petouhoff  
Base Environmental Coordinator  
Alameda Naval Air Station  
Building 1, Code 52  
Alameda, California 94501

Mr. Gary Munekawa  
Western Division  
Naval Facilities Engineering Command  
900 Commodore Drive  
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Mr. James Ricks  
U.S. Environmental Protection Agency  
Region IX  
75 Hawthorne Street  
San Francisco, California 94105

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REGION 2

HEINZ AVE., SUITE 200  
BERKELEY, CA 94710-2737

(510) 540-3724



November 18, 1994

Mr. Steve McAdam  
S. F. Bay Conservation and Development Commission  
30 Van Ness Avenue, Rom 2011  
San Francisco, California 94102

Dear Mr. McAdam:

**SOLICITATION OF APPLICABLE OR RELEVANT AND APPROPRIATE  
REQUIREMENTS FOR NAVAL STATION TREASURE ISLAND, SAN FRANCISCO,  
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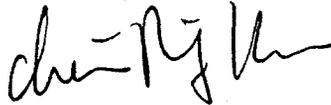


Mr. Steve McAdam  
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700 Heinz Avenue, Suite 200  
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Alameda Naval Air Station  
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Western Division  
Naval Facilities Engineering Command  
900 Commodore Drive  
San Bruno, California 94066-2402

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U.S. Environmental Protection Agency  
Region IX  
75 Hawthorne Street  
San Francisco, California 94105

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1 HEINZ AVE., SUITE 200  
BERKELEY, CA 94710-2737

(510) 540-3724



November 18, 1994

Ms. Diane Richardson  
Office of Planning and Research  
1400 Tenth Street  
Sacramento, California 95814

Dear Ms. Richardson:

**SOLICITATION OF APPLICABLE OR RELEVANT AND APPROPRIATE  
REQUIREMENTS FOR NAVAL STATION TREASURE ISLAND, SAN FRANCISCO,  
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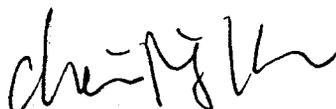


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REGION 2

7 HEINZ AVE., SUITE 200  
BERKELEY, CA 94710-2737

(510) 540-3724



November 18, 1994

Mr. John Schmidt  
Wildlife Conservation Board  
801 K Street, Suite 806  
Sacramento, California 95814

Dear Mr. Schmidt:

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REQUIREMENTS FOR NAVAL STATION TREASURE ISLAND, SAN FRANCISCO,  
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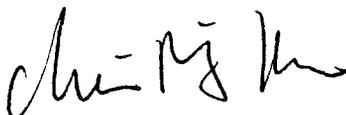


Mr. John Schmidt  
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Department of Toxic Substances Control  
700 Heinz Avenue, Suite 200  
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Oakland, California 94612

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Alameda Naval Air Station  
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Western Division  
Naval Facilities Engineering Command  
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(510) 540-3724



November 18, 1994

Ms. Cherilyn Weidell  
State Historical Resources Commission  
Department of Parks and Recreation  
P. O. Box 942896  
Sacramento, California 94296-0001

Dear Ms. Weidell:

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Ms. Cheryl Weidell  
November 18, 1994  
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REGION 2

1000 HEINZ AVE., SUITE 200  
BERKELEY, CA 94710-2737

(510) 540-3724

November 18, 1994

Mr. Alan Jones  
Department of Water Resources  
P. O. Box 942836  
Sacramento, California 94236-0001

Dear Mr. Jones:

**SOLICITATION OF APPLICABLE OR RELEVANT AND APPROPRIATE  
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REGION 2

HEINZ AVE., SUITE 200  
BERKELEY, CA 94710-2737

(510) 540-3724



November 18, 1994

Mr. Kenneth K. Henderson  
Commission Advisory and Compliance Division  
Public Utility Commission  
505 Van Ness Avenue, Room 3209  
San Francisco, California 94102

Dear Mr. Henderson:

**SOLICITATION OF APPLICABLE OR RELEVANT AND APPROPRIATE  
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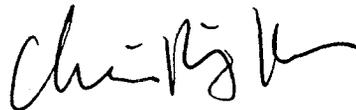


Mr. Kenneth K. Henderson  
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(510) 540-3724



November 18, 1994

Mr. John Banuelos  
Department of Boating and Waterways  
1629 S Street  
Sacramento, California 95814

Dear Mr. Banuelos:

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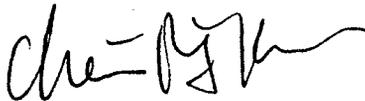


Mr. John Banuelos  
November 18, 1994  
Page Two

Mr. Thomas P. Lanphar  
Department of Toxic Substances Control  
700 Heinz Avenue, Suite 200  
Berkeley, California 94710

If you have any questions regarding this letter or the enclosure, please contact Mr. Lanphar at 510-540-3809. If you would like to review DTSC files on Naval Air Station, Alameda, you may call 510-540-3800 to schedule an appointment.

Sincerely,



Chein Kao, P. E.  
Section Chief  
Office of Military Facilities

Enclosure

cc: Mr. James Nusrala  
Regional Water Quality Control Board  
2101 Webster Street, Suite 500  
Oakland, California 94612

Lt. Mike Petouhoff  
Base Environmental Coordinator  
Alameda Naval Air Station  
Building 1, Code 52  
Alameda, California 94501

Mr. Gary Munekawa  
Western Division  
Naval Facilities Engineering Command  
900 Commodore Drive  
San Bruno, California 94066-2402

Mr. James Ricks  
U.S. Environmental Protection Agency  
Region IX  
75 Hawthorne Street  
San Francisco, California 94105

**DEPARTMENT OF TOXIC SUBSTANCES CONTROL**

REGION 2

3 HEINZ AVE., SUITE 200  
BERKELEY, CA 94710-2737

(510) 540-3724



November 18, 1994

Mr. Jason Marshall  
Environmental Coordinator  
Department of Conservation  
801 K Street, 24th Floor  
Sacramento, California 95814

Dear Mr. Marshall:

**SOLICITATION OF APPLICABLE OR RELEVANT AND APPROPRIATE  
REQUIREMENTS FOR NAVAL STATION TREASURE ISLAND, SAN FRANCISCO,  
CALIFORNIA**

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Berkeley, California 94710

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Alameda Naval Air Station  
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Western Division  
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U.S. Environmental Protection Agency  
Region IX  
75 Hawthorne Street  
San Francisco, California 94105

**DEPARTMENT OF TOXIC SUBSTANCES CONTROL**

REGION 2

HEINZ AVE., SUITE 200  
BERKELEY, CA 94710-2737

(510) 540-3724

November 18, 1994

Ms. Stacey Mason  
Environmental Engineering Division  
Integrated Waste Management Board  
8800 Cal Center Drive  
Sacramento, California 95826

Dear Ms. Mason:

**SOLICITATION OF APPLICABLE OR RELEVANT AND APPROPRIATE  
REQUIREMENTS FOR NAVAL STATION TREASURE ISLAND, SAN FRANCISCO,  
CALIFORNIA**

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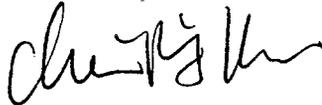


Ms. Stacey Mason  
November 18, 1994  
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Department of Toxic Substances Control  
700 Heinz Avenue, Suite 200  
Berkeley, California 94710

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Section Chief  
Office of Military Facilities

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2101 Webster Street, Suite 500  
Oakland, California 94612

Lt. Mike Petouhoff  
Base Environmental Coordinator  
Alameda Naval Air Station  
Building 1, Code 52  
Alameda, California 94501

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Western Division  
Naval Facilities Engineering Command  
900 Commodore Drive  
San Bruno, California 94066-2402

Mr. James Ricks  
U.S. Environmental Protection Agency  
Region IX  
75 Hawthorne Street  
San Francisco, California 94105

**DEPARTMENT OF TOXIC SUBSTANCES CONTROL**

REGION 2

HEINZ AVE., SUITE 200  
BERKELEY, CA 94710-2737

(510) 540-3724



November 18, 1994

Mr. D. E. Sanders  
State Lands Commission  
1807 13th Street  
Sacramento, California 95814

Dear Mr. Sanders:

**SOLICITATION OF APPLICABLE OR RELEVANT AND APPROPRIATE  
REQUIREMENTS FOR NAVAL STATION TREASURE ISLAND, SAN FRANCISCO,  
CALIFORNIA**

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November 18, 1994  
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Department of Toxic Substances Control  
700 Heinz Avenue, Suite 200  
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2101 Webster Street, Suite 500  
Oakland, California 94612

Lt. Mike Petouhoff  
Base Environmental Coordinator  
Alameda Naval Air Station  
Building 1, Code 52  
Alameda, California 94501

Mr. Gary Munekawa  
Western Division  
Naval Facilities Engineering Command  
900 Commodore Drive  
San Bruno, California 94066-2402

Mr. James Ricks  
U.S. Environmental Protection Agency  
Region IX  
75 Hawthorne Street  
San Francisco, California 94105

**DEPARTMENT OF TOXIC SUBSTANCES CONTROL**

REGION 2

HEINZ AVE., SUITE 200  
BERKELEY, CA 94710-2737

(510) 540-3724

November 18, 1994

Ms. Shin-Roei Lee  
San Francisco Bay Region  
California Regional Water Quality Control Board  
2101 Webster Street, Suite 500  
Oakland, California 94612

Dear Ms. Lee:

**SOLICITATION OF APPLICABLE OR RELEVANT AND APPROPRIATE  
REQUIREMENTS FOR NAVAL STATION TREASURE ISLAND, SAN FRANCISCO,  
CALIFORNIA**

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Ms. Shin-Roei Lee  
November 18, 1994  
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Mr. Thomas P. Lanphar  
Department of Toxic Substances Control  
700 Heinz Avenue, Suite 200  
Berkeley, California 94710

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Section Chief  
Office of Military Facilities

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Regional Water Quality Control Board  
2101 Webster Street, Suite 500  
Oakland, California 94612

Lt. Mike Petouhoff  
Base Environmental Coordinator  
Alameda Naval Air Station  
Building 1, Code 52  
Alameda, California 94501

Mr. Gary Munekawa  
Western Division  
Naval Facilities Engineering Command  
900 Commodore Drive  
San Bruno, California 94066-2402

Mr. James Ricks  
U.S. Environmental Protection Agency  
Region IX  
75 Hawthorne Street  
San Francisco, California 94105

**DEPARTMENT OF TOXIC SUBSTANCES CONTROL**

REGION 2

3 HEINZ AVE., SUITE 200  
BERKELEY, CA 94710-2737

(510) 540-3724



November 18, 1994

Mr. Clifford L. Bowen  
Drinking Water Field Operations Branch  
Department of Health Services  
2151 Berkeley Way  
Berkeley, California 94704

Dear Mr. Bowen:

**SOLICITATION OF APPLICABLE OR RELEVANT AND APPROPRIATE  
REQUIREMENTS FOR NAVAL STATION TREASURE ISLAND, SAN FRANCISCO,  
CALIFORNIA**

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Department of Toxic Substances Control  
700 Heinz Avenue, Suite 200  
Berkeley, California 94710

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Section Chief  
Office of Military Facilities

Enclosure

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Regional Water Quality Control Board  
2101 Webster Street, Suite 500  
Oakland, California 94612

Lt. Mike Petouhoff  
Base Environmental Coordinator  
Alameda Naval Air Station  
Building 1, Code 52  
Alameda, California 94501

Mr. Gary Munekawa  
Western Division  
Naval Facilities Engineering Command  
900 Commodore Drive  
San Bruno, California 94066-2402

Mr. James Ricks  
U.S. Environmental Protection Agency  
Region IX  
75 Hawthorne Street  
San Francisco, California 94105

**DEPARTMENT OF TOXIC SUBSTANCES CONTROL**

REGION 2

HEINZ AVE., SUITE 200  
BERKELEY, CA 94710-2737

(510) 540-3724

November 18, 1994

Mr. Charles Andrews  
Department of Pesticide Regulation  
1020 N Street, Room 300  
Sacramento, California 95814

Dear Mr. Andrews:

**SOLICITATION OF APPLICABLE OR RELEVANT AND APPROPRIATE  
REQUIREMENTS FOR NAVAL STATION TREASURE ISLAND, SAN FRANCISCO,  
CALIFORNIA**

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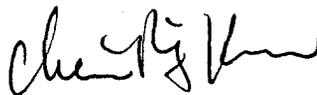


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U.S. Environmental Protection Agency  
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75 Hawthorne Street  
San Francisco, California 94105

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REGION 2

HEINZ AVE., SUITE 200  
BERKELEY, CA 94710-2737

(510) 540-3724

November 18, 1994

Ms. Deborah Hesse  
Office of Environmental Health Hazard Assessment  
601 North Seventh street, Suite 307  
P. O. Box 9423732  
Sacramento, California 94234-7320

Dear Ms. Hesse:

**SOLICITATION OF APPLICABLE OR RELEVANT AND APPROPRIATE  
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Western Division  
Naval Facilities Engineering Command  
900 Commodore Drive  
San Bruno, California 94066-2402

Mr. James Ricks  
U.S. Environmental Protection Agency  
Region IX  
75 Hawthorne Street  
San Francisco, California 94105

# SITE SUMMARY

## NAVAL AIR STATION, ALAMEDA

### SITE BACKGROUND

NAS Alameda is located on the eastern side of the San Francisco Bay and occupies the western quarter of Alameda island as shown in Figure 1. The station contains 2,842 acres of land, water and airspace easement, including 1,734 acres of dry land. NAS Alameda is surrounded by the City of Alameda to the east, the San Francisco Bay on the south and west, and the Oakland Estuary is to the north. NAS Alameda's facilities include a naval airfield, deep water port, and aircraft maintenance and rework facilities.

Two large industrial sites, a borax processing plant and an oil refinery were located on what is now NAS Alameda prior to 1930. The U.S. Army acquired the NAS site from the city of Alameda in 1930 and began construction activities in 1931. In 1936, the Navy received title to the land and began building the air station in response to the military buildup in Europe before World War II. A large portion of the Air Station is constructed on hydraulic fill material.

Currently, the eastern portion of the station is developed with offices, residences, and industrial facilities. The western portion of the station is primarily developed with runways and support facilities.

Hazardous waste contamination at NAS Alameda has resulted from various facility operations including metal plating; paint removal; aircraft maintenance, fueling, and engine testing;

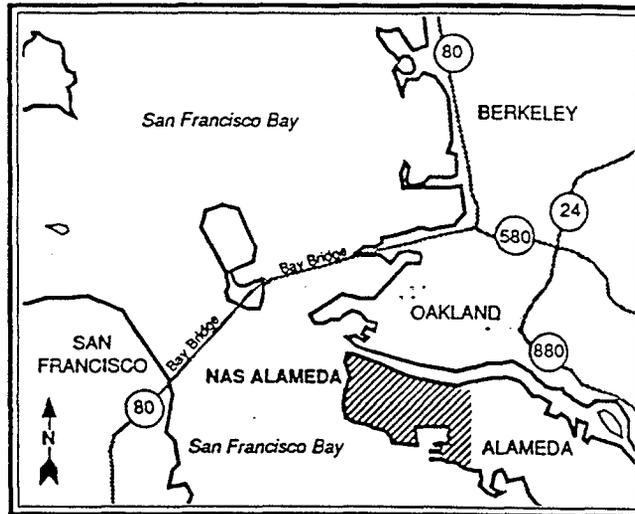


Figure 1: NAS Alameda Location Map

vehicle fueling, pest control; missile reworking; operation of a power plant and a fire training school; and waste disposal at two landfill sites on base.

### ENVIRONMENTAL CLEANUP

Investigation of environmental contamination at NAS Alameda, from past use and disposal of hazardous materials, began in 1981. An Initial Assessment Study was performed at that time to identify the areas of potential contamination. By 1987 a total of 20 sites were identified as potentially contaminated. These sites were to be studied in the Remedial Investigation (RI). The 20 sites include 2 landfills (Sites 1 & 2), aviation fueling operations (Site 3), industrial shops including plating and paint stripping (Sites 4, 5 & 9), aircraft maintenance and engine testing facilities (Sites 6, 10 & 11), service

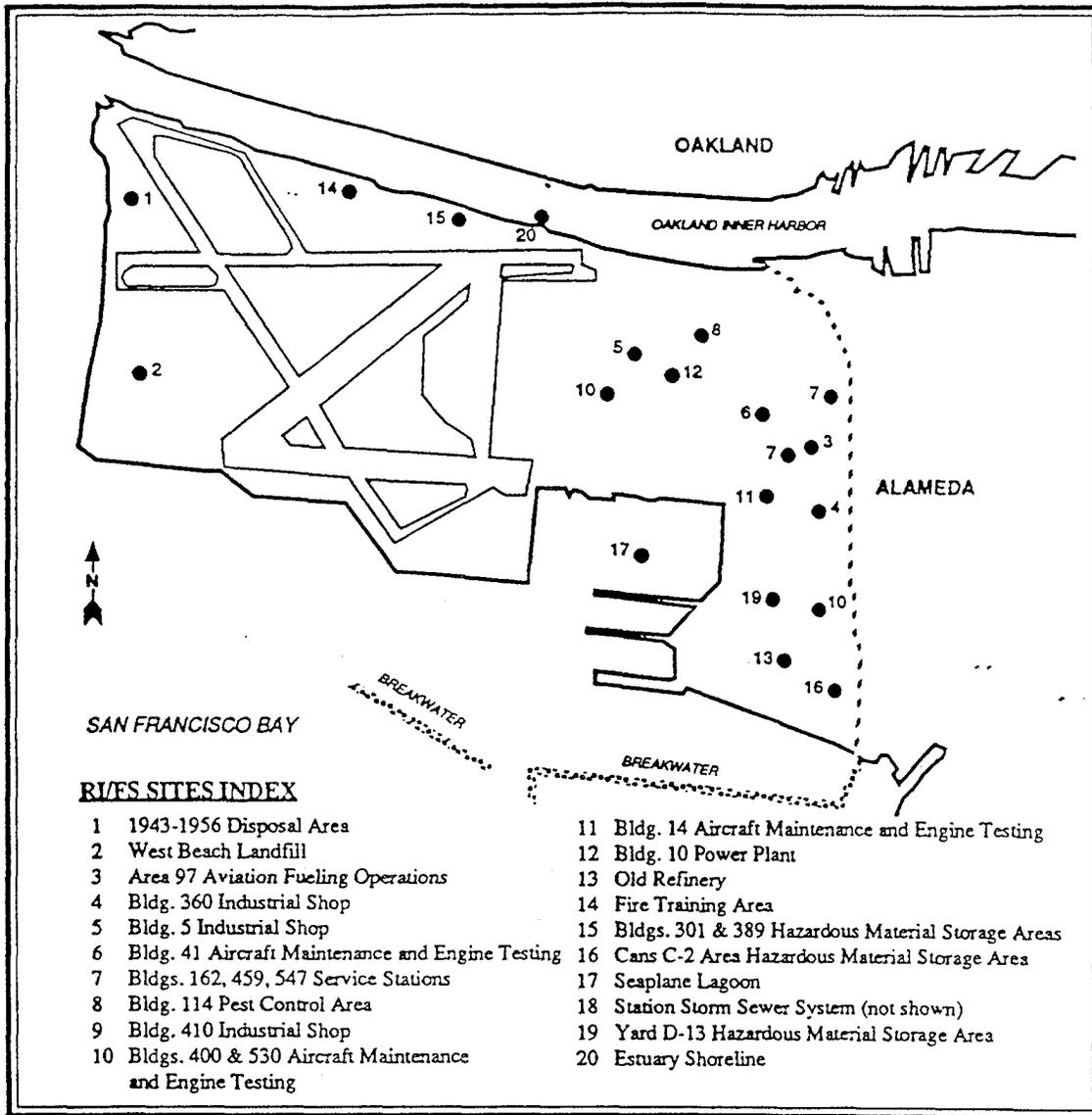


Figure 2: NAS Alameda Site Map

stations (Site 7a, b, & c), pest control area (Site 8), power plant (Site 12), old refinery (Site 13), fire training area (Site 14), hazardous material storage areas (Sites 15, 16 & 19), sea plane lagoon (Site 17), the Station's storm sewer system (Site 18), and the estuary or the Oakland Inner Harbor shoreline (Site 20). See Figure 2 for site locations.

The RI sites are grouped into four Operable Units (OUs). OU-1 addresses the soil and groundwater at Sites 3, 4, 7A, 7B, 7C, 10B, 11, 16, and 19. OU-2 includes the groundwater and vadose zone soil of Sites 5, 6, 8, 10A, 12, 14, and

15. OU-3 consists of the two landfills, sites 1 and 2. OU-4 consists of the two offshore sites (sites 17 and 20). These sites include sediment and surface water and affect the ecological system of the San Francisco Bay and Oakland Inner Harbor waters.

The initial stage of field investigation (soil and groundwater sampling) has been completed for all the RI sites. A second stage of field work began in February 1994 and is scheduled for completion in December 1994. Quarterly groundwater sampling will then continue until May, 1995.

An Ecological Assessment has been prepared for OU-4 and for wetland areas at Site 1 and near Site 17. A second phase of the Ecological Assessment is scheduled to begin in February 1995. The second phase Ecological Assessment will assess the impact of the other OUs on the ecology at NAS Alameda.

The known contaminants that have been identified to date at NAS Alameda include heavy metals (such as lead and cadmium), some organic compounds including petroleum products (aviation fuel, oil, and grease), solvents, pesticides, and the chemicals benzene, toluene, and xylene; plating chemical (cyanide); and polychlorinated biphenyls (PCBs).

NAS Alameda received a Resource Conservation and Recovery Act (RCRA) Hazardous Waste Facility Permit on June 24, 1993. A RCRA Facility Assessment (RFA) was conducted in preparation of the Hazardous Waste Facility Permit. The RFA identified 142 Solid Waste Management Units (SWMUs) and Areas of Concern (AOCs). Included in these sites are Underground and Aboveground Storage Tanks and areas where hazardous waste were managed. These sites are being investigated to determine if a hazardous substance release has occurred at any of these sites. Sites that are contaminated will be incorporated into the one of the Operable Units of the Remedial Investigation. The results of this screening investigation will be available in July of 1995.

Naval Air Station, Alameda  
ARARs Mailing List  
(November, 1994)

1. Mr. Julian Elliot  
Bay Area Air Quality Management District  
929 Ellis Street  
San Francisco, CA 94102
2. Dr. Michael Martin  
California Department of Fish and Game  
20 Lower Ragsdale Dr., Suite 100  
Monterey, CA 93940
3. Mr. Edgar Howell  
Division of Hazardous Materials  
Department of Environmental Health  
Alameda County Health Agency  
80 Swan Way, Room 200  
Oakland, CA 94621
4. Mr. Steve McAdam  
S. F. Bay Conservation and Development Commission  
30 Van Ness Avenue, Rom 2011  
San Francisco, CA 94102
5. Ms. Diane Richardson  
Office of Planning and Research  
1400 Tenth Street  
Sacramento, CA 95814
6. Mr. John Schmidt  
Wildlife Conservation Board  
801 K Street, Suite 806  
Sacramento, Ca 95814
7. Ms. Cherilyn Weidell  
State Historical Resources Commission  
Department of Parks and Recreation  
P. O. Box 942896  
Sacramento, CA 94296-0001
8. Mr. Alan Jones  
Department of Water Resources  
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