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14 Nov 1994

From: Commander, Engineering Field Activity West, Naval Facilities Engineering Command
To: Distribution

Subj: REMEDIAL INVESTIGATION/FEASIBILITY STUDY FOR NAVAL STATION
TREASURE ISLAND, SAN FRANCISCO

Encl: (1) Restoration Advisory Board (RAB) Meeting Minutes - October 25, 1994

1. Enclosure (1) is provided for your review. Please give your comments on or before the next scheduled RAB meeting on December 6, 1994. The RAB meetings agenda will include the discussion and approval of the last meeting minutes.

2. Thank you for your guidance and involvement in this project. For further information, please call me at (415) 244-2560.

original signed WSE

ERNESTO M. GALANG
By direction

Distribution:

California Department of Toxic Substances Control (Attn: Ms. Mary Rose Cassa)
California Regional Water Quality Control Board (Attn: Mr. Michael Bessette)
California Department of Fish and Game (Attn: Dr. Michael Martin)
US Environmental Protection Agency, Region IX (Attn: Ms. Rachel Simons)
US Fish & Wildlife Services (Attn: Mr. Steve Schwarzbach)
Bay Area Air Quality Management District (Attn: Mr. Julian Elliot)
Bay Conservation and Development Commission (Attn: Mr. Steve McAdam)
National Oceanic & Atmospheric Administration (Attn: Ms. Denise Klimas)
Copy to:

California Department of Toxic Substances Control (Attn: Ms. Shirley Buford)
NAVSTA Treasure Island (Attn: Mr. Jim Sullivan)
NAVSTA Treasure Island (Attn: Lt. Roberts)
COMNAVBASE San Francisco (Attn: CDR Al Elkins)
San Francisco Department of Public Health (Attn: Mr. Scott Nakamura)
NAVSTA TI Community RAB Members (see attached list)

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**NAVAL STATION TREASURE ISLAND
RESTORATION ADVISORY BOARD (RAB)
COMMUNITY MEMBERS**

Mr. Joseph Alcedo
Mr. James Aldrich
Mr. Don Angus
Mr. Saul Bloom (ARC Ecology)
Mr. Charles Boatman
Mr. Nathan Brennan
Mr. Richard Coxall
Mr. Paul Hehn
Ms. Michelle Dunne-Iverson
Ms. Martha Kohler
Mr. Denny Larson
Ms. Audry Lee

Mr. Clinton Loftman
Ms. Carolyn Lown
Mr. Daniel McDonald
Mr. David Moser
Mr. Rick Nedell
Ms. Patricia Nelson
Mr. Henry Ongerth
Ms. Margaret Race
Ms. Patsy Reese
Mr. Earl Rynerson
Ms. Dale Smith
Mr. Brad Wong

**NAVAL STATION TREASURE ISLAND
RESTORATION ADVISORY BOARD MEETING MINUTES**

**Fleet Admiral Nimitz Conference Center
Tuesday, October 25, 1994**

On October 25, 1994, at 7:00 p.m., the Naval Station Treasure Island (NAVSTA TI) Restoration Advisory Board (RAB) met in the ballroom of the Fleet Admiral Nimitz Conference Center at NAVSTA TI. The purpose of the meeting was to (1) discuss and approve the draft NAVSTA TI RAB operating procedures, (2) review the upcoming environmental document report schedule, (3) present the draft phase IIA and phase IIB remedial investigation (RI) work plan addendum, and (4) present the Base Realignment and Closure (BRAC) Cleanup Plan (BCP). Handout materials as well as a list of attendees at the October 25 meeting is attached.

I. WELCOMING REMARKS

Mr. James Sullivan, the Navy BRAC Environmental Coordinator (BEC) opened the meeting by offering a special welcome to the RAB interim community co-chair, Mr. Don Angus. RAB members next approved the minutes from the September 27, 1994, RAB meeting; the minutes will be placed in the NAVSTA TI information repositories. Mr. Sullivan noted that NAVSTA TI is in the process of contracting for a stenographer to prepare transcripts of future RAB meetings.

II. NAVSTA TI RAB ORGANIZATION AND OPERATING PROCEDURES

Draft RAB operating procedures were distributed for review and discussion. The draft procedures included revisions made by Mr. Earl Rynerson, a RAB member, to incorporate comments from the last RAB meeting. RAB members reviewed the procedures page by page; revisions agreed to are outlined below:

- I.A. after "obtain constructive community" strike "review."
- I.A. add "all" after "and advice on."
- I.B. strike "in any capacity."
- II.A. strike reference to "25" community members; membership should not be limited to 25.
- II.A. move "and government agencies" from the end of the paragraph to after "community members."
- II.A. edit entire paragraph because the wording is not clear.
- II.C. replace "or" with "nor."
- III.B. "Brac" should be in all caps: "BRAC."

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- Throughout the document, "Co-chair" and "RAB" should appear consistently. (In some places it appears as Co-Chair and Rab).
- II.D. add "and other government agencies" to the heading.
- II.D.1. strike "at large."
- VI.A. B. and C. strike "community" from all RAB designations.
- VII.A.4. after " ...times will be scheduled with the... " revise the text to state, "...approval of the majority of RAB community members."
- VII.C.1. capitalize "community."
- VII.C.3. revise "Members" to "members."
- VII.D.3. Delete entire paragraph.

Key issues discussed during the review of the operating procedures are highlighted below.

- In response to an inquiry on why the remedial action plan/record of decision (RAP/ROD) are not specifically mentioned as documents that will be reviewed by the RAB, Mr. Sullivan explained that a public comment period on the RAP/ROD is required by law; therefore, RAB review of the documents is a given fact that does not need to be noted in the operating procedures.
- Communication between the RAB and NAVSTA TI citizens' reuse committee (CRC) should be ongoing; RAB members who also participate in the CRC should function as channels for ongoing information exchange.
- The operating procedures should be limited to fundamental guidelines so that the procedures do not become too prescriptive. The guidelines can be modified, as needed, on an ongoing basis.
- With regard to whether the RAB should maintain a minimum number of members, Mr. Angus noted that initially the RAB selection panel had envisioned only 10 to 15 members. However, given the large number of applications submitted for membership, the membership was expanded to 25. Ms. Michelle Dunne-Iverson, a RAB member, pointed out that the larger the membership, the more difficult it becomes to make decisions and progress. The suggestion was made to establish a nominations or membership committee to review this matter and advise the RAB.
- The issue of whether a permanent replacement member, temporary substitute member, or alternate member is allowed must be clearly stated in the operating procedures. RAB members drew a distinction between members representing an organization and

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members representing themselves. To maintain consistency the RAB's activities and its focus, it is important that the same members attend meetings on an ongoing basis. While the same holds true for an organization such as the ARC Ecology, ARC Ecology should be allowed some flexibility in sending alternates to the meetings as that organization will be involved in the cleanup process regardless of which one of its members sits on the RAB. The consensus appeared to be that paragraph II.D is sufficiently broad and does not limit alternatives, but requires a consensus by RAB members if any alternatives are proposed.

- The term "community" was stricken from selected places within the text to distinguish between activities that involve the entire RAB and those that refer only to the community RAB members. For example, under VII.C.1., "RAB community members" should remain in the text as the other RAB members (e.g. the regulatory agencies) will automatically receive the draft documents for review.
- Section VII.D.3 was deleted since RAB members agreed that they should be allowed to serve on more than one standing committee.
- The question of what number of members should constitute a quorum may be evaluated by a future membership subcommittee. Ms. Mary Rose Casa of the California Environmental Protection Agency, Department of Toxic Substances Control (DTSC), pointed out that since the RAB government members get compensated for their time and travel to attend RAB meetings, a quorum should be based on the number of RAB community members present. However, RAB members agreed that determining what would satisfy a quorum is not an imminent issue as the RAB is not expected to vote on issues other than organizational and administrative issues. The RAB is not a consensus body and forcing a consensus would overlook key individual minority views.

Mr. Sullivan volunteered to talk with Mr. Rynerson and offered to incorporate the revisions discussed at the RAB meeting into the draft operating procedures. A draft of the revised operating procedures will be sent to RAB members for final approval at the next RAB meeting.

The discussion next turned to organizational business. On Saturday, October 29, 1994, from 9:00 a.m. to 4:00 p.m., the CRC will meet to strategize on execution of reuse plans; RAB members are welcome to attend the meeting and listen to the discussion. The next CRC meeting is scheduled for November 7, 1994, at 4:00 p.m. at the Redevelopment Agency at 777 Golden Gate Avenue; RAB members have a standing invitation to attend regular CRC meetings.

The CRC intends to complete a draft reuse plan by April 1995. Mr. Angus emphasized the importance of maintaining communication between the RAB and CRC to ensure that the RAB understands reuse objectives and factors them into the cleanup planning process. Since he is a member of both the CRC and the RAB, Mr. Angus agreed to provide a brief report to the RAB on the environmental issues discussed at CRC meetings.

Mr. Sullivan distributed a calendar of 1995 RAB meetings and a draft December 6, 1994, RAB meeting agenda.

III. UPCOMING ENVIRONMENTAL REPORT REVIEW SCHEDULE

Documents expected to be ready for RAB review in the coming months include the following:

- Draft Final Phase IIB RI Work Plan Addendum (January 1, 1994; 30-day comment period)
- Draft Phase II Ecological Risk Assessment Work Plan (December 23, 1994; 60-day comment period)
- Draft BCP (December 9, 1994; 30-day comment period)

Mr. Sullivan will inquire whether particular RAB members would like to receive the entire document or only the executive summary. He noted that the phase I RI is completed and the phase IIA RI work plan addendum is completed. The phase IIA RI work plan addresses primarily ground water; work is currently underway. The phase IIB RI work plan addendum deals primarily with soil sampling and encompasses a much more expansive scope of sampling and investigation than the phase IIA RI work plan addendum.

IV. PHASE IIA/IIB WORK PLAN PRESENTATION (PART 1 OF 2)

An overview of the phase IIA/IIB RI work plan addenda was presented (overhead presentation attached). Mr. Sullivan made a standing offer for RAB members to observe field sampling work. Key questions that arose during the presentation are summarized below.

- How will "abandoned" wells be handled?

The Navy does not plan to abandon any wells unless they are irreparable. The Navy will comply with any applicable permitting procedures in the event wells are abandoned. The RAB will be informed of the total number of abandoned wells. During the phase IIB RI, additional wells will be installed. The Navy will provide the RAB with abandoned well criteria at the next RAB meeting.

- What is the history of wells that are not used; why were they installed?

The wells were originally installed to detect any contamination in the groundwater. Wells are installed according to existing standards; however, heavy equipment around the wells may have caused some damage to the wells. Rather than attempt to repair damaged wells, the Navy plans to replace them with new wells.

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- Is the amount of time and resources spent to study the groundwater worth the potential future use of the groundwater?

The yield in the wells will be measured to help determine the potential beneficial uses of the groundwater. The primary reason for assessing existing or potential contamination to the groundwater is to determine the potential for migration of that contamination to other sites. Many of the installation restoration sites on NAVSTA TI are located along the perimeter of the island; contaminated groundwater could seep into the San Francisco Bay and impact ecological receptors in the bay. The Navy is conducting an ecological risk assessment that will evaluate ecological receptors and determine the effects of all contamination on these receptors. The Navy is also fairly certain that the groundwater is recharging the bay waters, which qualifies as a beneficial use.

- Is the Navy only sampling the island perimeter? Why not sample bay waters around NAVSTA TI?

At this time, the Navy is only sampling the IR sites, many of which are on the perimeter of the island. Samples taken from Bay waters would likely contain contaminants from other sources and it would be very difficult to delineate the source of the various contaminants identified. The Navy will provide a more detailed explanation of its approach to sampling at the next RAB meeting.

- Has the Navy obtained enough data from the wells to make a determination regarding the level of contamination?

All wells have been sampled only once; common practice is to obtain quarterly samples (once per quarter) to determine whether the contamination appears to be increasing or possibly decreasing due to natural attenuation.

- Is the Navy investigating for herbicide and pesticide contamination?

Yes.

- Why is the Navy using a Geoprobe hydraulic punch to sample groundwater when monitoring wells provide more appropriate samples for analysis?

A RAB member pointed out that groundwater samples from a hydraulic punch may contain soils that may be contaminated and thereby contaminate the water sample.

Ms. Rachel Simons of the U.S. Environmental Protection Agency (EPA) pointed out that the hydraulic punch will be used as a screening tool to determine the extent of the plume and identify the locations for installation of monitoring wells.

A description of the Geoprobe hydraulic punch technology will be provided to RAB

members at the next RAB meeting.

V. BRAC CLEANUP PLAN PRESENTATION (PART 1 OF 2)

Mr. Sullivan referred members to a handout (attached) and explained that the BCP serves a roadmap to guide environmental restoration activities at NAVSTA TI. The BCP has been provided to RAB members and is currently undergoing an update. RAB members will be provided with a draft of the updated BCP for their review and comment. The following points were raised during the presentation on the BCP.

- No property transfers have yet occurred; two buildings on NAVSTA TI have been licensed to film production companies.
- The Federal Facility Site Remediation Agreement (FFSRA) was signed by the Navy, DTSC, and the Regional Water Quality Control Board in 1992. Although the EPA is a member of the BRAC Cleanup Team, it is not a party to the FFSRA since NAVSTA TI is not a federal Superfund site. The FFSRA governs the environmental restoration process and delineates roles and responsibilities and establishes schedules. Parties to the FFSRA are currently renegotiating the schedule; the RAB will receive an update on the FFSRA at the next RAB meeting.
- A map contained in the BCP categorizes property parcels. Property categories 1 through 4 are ready to be leased or transferred; categories 5 through 7 cannot be transferred by deed, but could possibly be leased with restrictions.

VI. NEXT RAB MEETING

The next RAB meeting will be held on Tuesday, December 6, 1994, at 7:00 p.m., at the Fleet Admiral Nimitz Conference Center, located on Naval Station Treasure Island, San Francisco, California.

AGENDA
NAVAL STATION TREASURE ISLAND
ENVIRONMENTAL RESTORATION ADVISORY BOARD MEETING
25 OCTOBER 1994
7:00 P.M.
FLEET ADMIRAL NIMITZ CONFERENCE CENTER
TREASURE ISLAND

7:00 WELCOME REMARKS

DISCUSSION/APPROVAL OF AGENDA

APPROVAL OF MEETING MINUTES FROM 27 SEPTEMBER 94

7:15 RESTORATION ADVISORY BOARD ORGANIZATION:

- DISCUSSION OF DRAFT NSTI RAB OPERATING PROCEDURES
- APPROVAL OF RAB OPERATING PROCEDURES
- ORGANIZATIONAL BUSINESS

8:00 UPCOMING ENVIRONMENTAL REPORT REVIEW SCHEDULE

- DRAFT PHASE IIB REMEDIAL INVESTIGATION WORK PLAN - 1 JAN 94 (30 DAYS)
- DRAFT PHASE II ECOLOGICAL RISK ASSESSMENT WORK PLAN - 23 DEC 94 (60 DAYS)
- DRAFT BRAC CLEANUP PLAN - 9 DEC 94 (30 DAYS)

8:05 BREAK

8:15 PHASE IIA/IIB WORKPLAN PRESENTATION (PART 1 OF 2)

8:40 BRAC CLEANUP PLAN PRESENTATION (PART 1 OF 2)

9:05 OPEN QUESTIONS

9:20 AGENDA ITEMS FOR NEXT MEETING(S)

CALENDAR YEAR 1995 MEETING SCHEDULE

9:25 CLOSING REMARKS

9:30 END OF MEETING

NEXT REGULAR MEETINGS: 7:00 pm. Tuesday, 6 December 1994

7:00 pm. Tuesday, 17 January 1995

PLEASE BRING YOUR BRAC CLEANUP PLAN TO THE MEETING

WHAT IS A BRAC CLEANUP PLAN?:

- A Department of Defense initiative for all closing bases.
- Roadmap for program execution.
- Macro view of all environmental issues.
- Status of disposal planning process.
- Status of all environmental activities.
- Strategy for executing cleanup.
- Master Schedules for entire program.
- Identifies reuse planning progress and reuse-based cleanup goals.
- Identifies regulatory process and investigation strategy for each site.
- Tool for effective program continuity and communication.

CHAPTERS:

- * 1. Introduction and Program Summary
- * 2. Property Disposal and Reuse Plan
- * 3. Installation-Wide Environmental Program Status
- 4. Installation-Wide Strategy for Environmental Restoration
- 5. Environmental Program Master Schedules
- 6. Technical and Other Issues to be Resolved

Appendixes

CHAPTER 3: INTRODUCTION AND SUMMARY (P. 1-1)

1.3 Environmental Response Objectives (P. 1-3)

- Protect human health and the environment
- Meet reuse goals established by the community
- Comply with existing environmental laws
- Meet the cleanup schedule to be negotiated between the Navy and the State of California

1.5 BCT/PROJECT TEAM (P. 1-4)

- BRAC Cleanup Team (BCT)
- BRAC Project Team (BPT)

1.7 OFF-BASE PROPERTY

- Instrument Building on leased land on Marina Green.

CHAPTER 2: PROPERTY DISPOSAL AND REUSE PLAN (P. 2-1)

2.1 Status of Property Disposal Planning Process (P. 2-1)

- Naval Station Treasure Island scheduled to close on 30 SEPT 97. Navy operations will be "drawn-down" and some facilities will become available for lease prior to this date.
- The status of YBI is still unknown, but is expected to be released by the Bureau of Land Management (BLM) to the Navy for disposal.
- A Draft Community Reuse Plan from the City is expected in Summer 1995.

2.2 Relationship to Environmental Programs (P. 2-1)

- CERCLA governs the transfer of Federal property.
- If residual contamination exists after remedial actions have been implemented, or have been initiated but not completed, restrictions may be placed on the future use of the property.

2.3 Property Transfer Methods (P. 2-3)

- Findings of Suitability to Lease (FOSL)
 - Environmental Baseline Survey (EBS)
 - FOSL
 - NEPA Documentation
 - Consultations with State to meet requirements of the Endangered Species Act and National Historic Preservation Act

- Findings of Suitability to Transfer (FOST)
 - Similar process to FOSL but more detailed

2.4 Property Transfer Status (P. 2-5)

- No transfers have yet occurred. Space in two buildings has been leased to the City for film production.
- The U.S. Government Printing Office and the Coast Guard want to retain small facilities.
- The Department of Labor has selected Treasure Island as a new Job Corps Center site and has begun planning.
- State interest in the continued operation of the Fire Fighting School.

CHAPTER 3: INSTALLATION-WIDE ENVIRONMENTAL PROGRAM STATUS (P. 3-1)

3.1. Environmental Restoration Program Status (P. 3-1):

- Federal Facilities Site Remediation Agreement (FFSRA) signed on 9 SEPT 1992.
- Navy, Department of Toxic Substances Control (DTSC) and the SF Regional Water Quality Control Board.

3.1.1 Discovery/Assessment Status (P. 3-2):

- Preliminary Assessment/Site Investigation (PA/SI) completed in 1988. 26 sites investigated.
- 22 of 26 sites investigated in the Phase I Remedial Investigation during 1992/1993.
- Clipper Cove Skeet Range Added per direction of RWQCB.
- Two sites under Bay Bridge added due to identified lead contamination.
- 25 sites to be investigated in the Phase II RI.

3.1.2 Restoration Sites (P. 3-4):

- Baseline Human Health Risk Assessment (BHHRA), Ecological Risk Assessment (EA) and Draft Phase I Remedial Investigation Report prepared.
- No further action recommended at Site 3 PCB Equipment Storage Area.
- Removal Actions recommended at:
 - Site 1 Medical Clinic
 - Site 6 Old Fire Fighting School
 - Sites 14,22 Fuel Farm/Gas Station

3.2 Compliance Program Status (P. 3-4)

3.2.1 Underground Storage Tanks (UST) (P. 3-5)

- Regulated by RWQCB and County of San Francisco
- 30 USTs removed and 3 closed in place. No USTs will remain in service after 1997.
- Final investigations/removals/closures to begin in 1995.
- Some tanks in housing on YBI will be closed under new RWQCB guidance that allows small tanks to be closed without investigation.
- Underground fuel lines will be removed in 1995/96.

3.2.2 Aboveground Storage Tanks (AST) (P. 3-5)

- 3 large out-of-service ASTs (55-210,000 gal) at Fuel Farm scheduled for demolition in 1995.
- 7 10,000 gal ASTs serving base Gas Station will likely remain to at least 1997.
- 2 out-of-service ASTs (210,000 gal each) at Public Works Boiler Plant. Demolition to be determined.
- Only ASTs to remain after closure will be for boiler plants and the Sewage Treatment Plant.

3.2.3 Hazardous Materials/Waste Management (P. 3-7)

- The Naval Station has not been an industrial activity.
- Hazmat/Hazwaste operations sites to be investigated for potential releases (spills) as part of the Environmental Baseline Survey (EBS) in 1994/95.
- All hazmat/hazwaste will be removed as areas are vacated.

3.2.4 Solid Waste Management (P. 3-8)

- A document incinerator will be investigated during the EBS. No cleanup issues expected.
- No landfills in operation. No other solid waste issues expected.

3.2.5 Polychlorinated Biphenyls (PCBs) (P. 3-9)

- All major electrical equipment replaced during the 1980's.
- Investigation/sampling in 1995 to confirm removals. Some identification of minor electrical equipment and hydraulics expected.

3.2.6 Asbestos (P. 3-10)

- Basewide Asbestos Survey begins 31 OCT 94 by MINSY. DOL has also begun survey of their identified facilities. PWC will do Family Housing on TI/YBI.
- Significant abatement not expected. ACM in good condition will remain in buildings.

3.2.7 Radon

- Screening conducted on 20 MAR 91. Non-detect at 4 of 6 locations. Low concentrations at 2 locations. No further action planned.

3.2.8 RCRA Facilities

- Pertains to permitted 1-Year Hazwaste Storage Sites. No RCRA sites at TI/YBI. No actions required.

3.2.9 NPDES Permits

- The Navy has NPDES permits for the Sewage Treatment Plant and for Stormwater Discharge.
- No issues with Treatment Plant. Plant serves all of TI/YBI including the Coast Guard Station (not closing). Future operator of plant to be determined.
- Stormwater Pollution Prevention (SWPP) will remain an ongoing program. Non-stormwater discharges into sewers will be identified and eliminated.

3.2.10 Oil/Water Separators

- No issues. Only separators are on IR Site 6.

3.2.11 Air Emissions

- Emissions permitted by the Bay Area Air Quality Management District (BAAQMD). No air issues expected.
- Most emissions associated with boiler plants and gas station.

3.2.12 Lead-Based Paint

- Housing areas to be inspected/abated.
- No Regulatory survey/abatement requirements in non-housing facilities.

3.3 Natural/Cultural Resources Programs (P. 3-16)

3.3.1 Natural Resources Programs (P. 3-16)

- TI is a heavily developed urban environment with limited natural resources.
- YBI includes more vegetated areas, but these areas consist primarily of landscaped areas and non-native eucalyptus groves.
- Federal and State Resource Trustees are involved.

3.3.1.3 Threatened and Endangered Species (P. 3-18)

- Species have been observed at near TI/YBI.

3.3.1.4 Rare or Sensitive Habitat (P. 3-18)

- Eucalyptus woodland, brushland, mixed woodland and grassland are present on YBI.
- Potential mudflats on West side of Clipper Cove.

3.3.1.6 Biota (P. 3-20)

- Migratory birds have been observed at TI/YBI.
- Fishing occurs off sea-walls and at the fishing pier. Commercial fishing boats have been observed in the area.
- The California Sea Lion and the Harbor Seal are routinely seen in the waters around TI/YBI. A small group of harbor seals may use the SW and W shore of YBI.

- Several California Special Animals, such as the Peregrine Falcon, and California Special Plants have been observed at TI/YBI.
- Animals of Public Interest such as the horned grebe and two species of bats have also been observed.

3.3.2 Cultural Resources Programs (P. 3-22)

3.3.2.1 Archeological Resources

- An area which may have been a village site was recorded on YBI around 1900. A survey will be performed to determine the conditions of the site and whether any other sites may exist.

3.3.2.2 Historical Structures

- The Treasure Island Golden Gate International Exposition Site is California Landmark No. 987.
- Buildings 1, 2 and 3 on TI are Exposition structures.
- Quarters 1 on YBI, the Nimitz House, has been nominated and listed in the National Register of Historic Places. Other housing of that era may also be eligible.

3.4 Environmental Condition of Property

- Category 1 (CERFA Clean): (Uncolored) No previous or current hazardous substances.
- Category 2: (Blue) Hazardous substances were present but no release (spillage) occurred.
- Category 3: (Light Green) Release of hazardous substances has occurred but no cleanup is necessary.
- Category 4: (Dark Green) Release of hazardous substances has occurred and cleanup actions are completed or in place (ie. groundwater treatment).

Properties in Categories 1, 2, 3 and 4 can be leased or transferred (deeded).

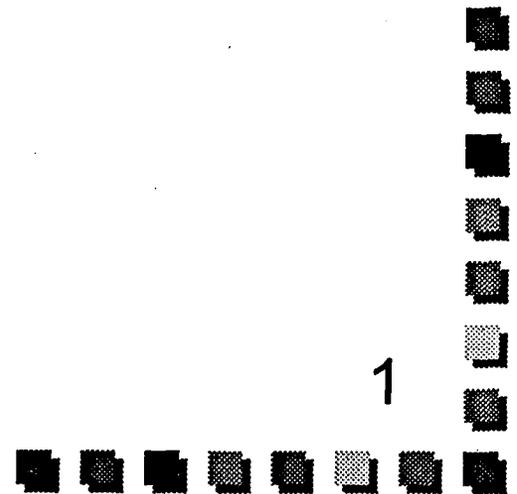
- Category 5: (Yellow) Release of hazardous substances has occurred and cleanup actions are in progress.
- Category 6: (Red) Release of hazardous substances has occurred and cleanup actions have not been started.
- Category 7: (Gray) Investigation not yet complete.

Properties in Categories 5, 6 and 7 cannot be transferred but might be leased but with possible use restrictions.

Naval Station Treasure Island

Restoration Advisory Board Meeting

October 25, 1994
Fleet Admiral Nimitz Conference Center



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Phase IIA

Remedial Investigation

- Quarterly groundwater monitoring
- Tidal influence study
- Single-well aquifer tests



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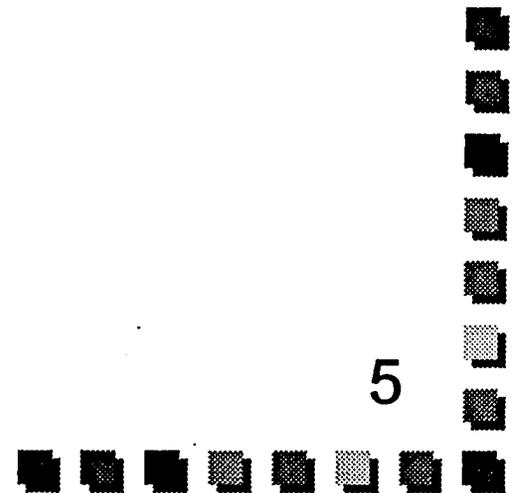
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Tidal Influence Study

- 15 monitoring locations at NAVSTA TI
- Site-specific tidal effects
- Evaluate salinity of groundwater for beneficial use



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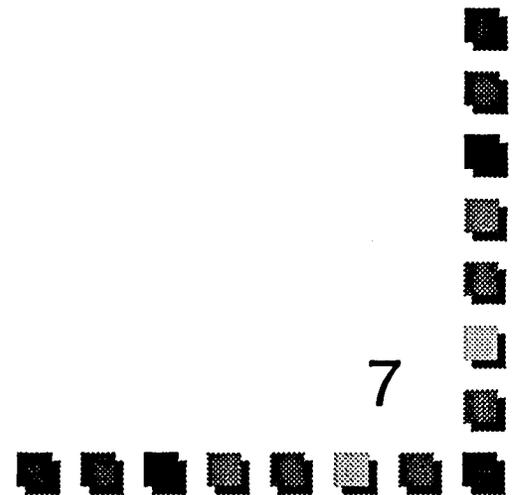
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Phase IIB

Remedial Investigation

- Soil and groundwater investigation
- Determine the extent of contamination



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Geoprobe Hydraulic Punch

- Will be used to:
 - Collect soil and groundwater samples at TI
 - Determine the extent of soil contamination
 - Determine appropriate monitoring well locations

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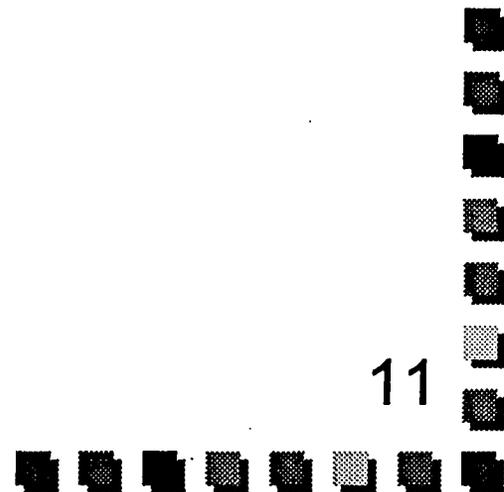
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Hollow Stem Auger/Core Drilling

- For bedrock drilling at Yerba Buena Island (YBI) Sites
- To collect soil samples at YBI
- To install monitoring wells on TI and YBI



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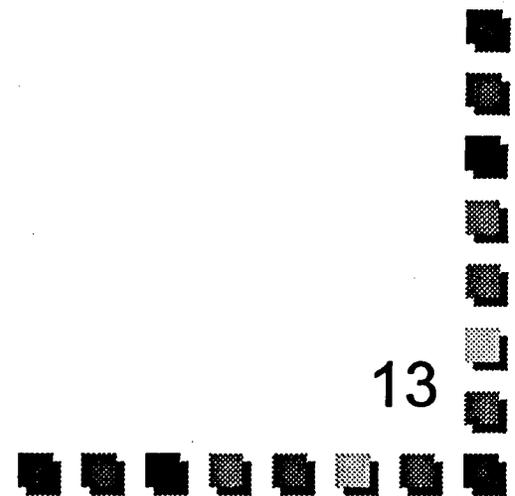
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Confirmatory Laboratory Analysis

- 20% of all samples
- Surface soil samples above immunoassay test detection limits
- 10% of samples below and above detection limits



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Soil Physical Parameters (Cont.)

- Cation exchange capacity
- Permeability
- Specific gravity
- Void ratio

