SITE ASSESSMENT REPORT ROUTING SLIP

3/28

- CONTRACTOR AND STATE DELIVERABLE -

DOCUMENT TYPE: __ Site Screening Assessment __ PA __ SI __ PA/SI __ ✓ Reassessment
DOCUMENT ORIGINATOR: __ Weston __ DTSC __ ADEQ _____ Other
SITE NAME: Treasure Island Naval Station
SITE ID NUMBER: CA7170023330

Note: SSA Requires only section 1.0, 2.0, 3.0, 6.0, and 7.0 All other site assessment documentation must go through all sections.	Initials	Date
1.0 DOCUMENT CONTROL: Joan Simmons (SFD 9-1) • Log site in Data Monster	JS	5/28/08
2.0 SAM REVIEW: Thilip • Document Review only (SSA) • Document Review: Acceptable ✓ Yes _____ NO • Status: If NO return to _____ Date _____ • FINAL DRAFT RECEIVED _____ (Date) • Decision/Rationale Memo • Update SA Schedule and SA Supplemental Screen in CERCLIS		
3.0 DOCUMENT SCREENING COORD: Joan Simmons (SFD-9-1) • Completeness Check of Document and CERCLIS QA of 2.0 • Fax approval page to DTSC & Forward to Records Ctr (SSA)	JS	5/28/08
4.0 SECTION CHIEF: Betsy Curnow (SFD-9-1) • (Management Approval of Decision, CERCLIS Decision Finalization, e.g. Decision Form, SA Schedule, Non-NPL Status Decision) • If Not approved, return to SAM (Comments below) • ARCHIVE SITE (indicate yes or no): _____ If Yes, DSC Generates Archive Memo for SAM and ERO Signature	DES	6/30/08
5.0 DOCUMENT SCREENING COORD: Joan Simmons (SFD-9-1) • Generate Archive Memo for Archive site as necessary • Update Archive Tracking Sheet • Transmittal Mailing • Complete Document Processing Spreadsheet		
6.0 SUPERFUND RECORDS CENTER: Barbara Chertowsky		

MISC. INSTRUCTIONS/COMMENTS:

SITE REASSESSMENT REPORT CHECKLIST

Site Name: Treasure Isl Naval Station EPA ID#: CA7170023330

1. Site Reassessment Report
2. EPA Region 9 Remedial Site Assessment Decision Form
3. CERCLIS Archive Site Memo to File - for NFA sites only
4. References

Review conducted by: Philip [illegible] 5/28/08

3128

U.S. General Accounting Office

RECEIVED

GAO Survey of NPL-Eligible Sites: U.S. EPA

JUN 23 1998

SFUND RECORDS CTR

Introduction

The U.S. General Accounting Office (GAO) examines issues for the U.S. Congress. We are conducting a review of contaminated sites that are considered "NPL-eligible." That is, these sites are found to be eligible for placement on the National Priorities List (NPL) after a site inspection by the U.S. Environmental Protection Agency (EPA). As part of our review, we are sending surveys to all EPA regions to request information on the individual sites located in their region. We are assessing the likelihood that sites will be placed on the NPL and the activities that are occurring to mitigate contamination at these sites.

This questionnaire asks about 1 of 3,000 NPL-eligible sites nationwide (as of October 8, 1997). In this questionnaire, we ask for information contained in your site inspection records. We are sending a similar survey to the appropriate state/territory/tribe to gain its perspective and to obtain additional information that they might have. Therefore, it is not necessary to consult with the state, territory, or tribe since they are also providing site information to us. Please have the most appropriate EPA staff fill out the questionnaire for the site indicated on the label.

Your response within 21 days of receiving this survey will help us avoid costly follow-ups. If the self-addressed business-reply envelope is missing, please return the questionnaire to the following address:

U.S. General Accounting Office
Attn: Vincent Price
441 G Street NW, Room 2T23
Washington, DC 20548

If you have any questions, please call Vince Price at (202) 512-6529.

Thank you for your assistance.

Site name and location:

TREASURE ISL NAVAL STATION
TREASURE ISLAND
SAN FRANCISCO CA 94130

CERCLIS #: CA7170023330 GAO #: 2726-B

1. Please fill out the following in case we need to contact the person completing this survey.

Name: James Ricks ~~Karen Johnson~~

Phone: (415) 744-2402 ~~(415) 981-2811~~

2. Please answer each question below to determine whether this site should be included in our survey. *(Please circle answers.)*

a. Is site deferred to RCRA or the Nuclear Regulatory Commission? Yes (No)

b. Is site's preliminary Hazardous Ranking System score below 28.5? Yes (No)

c. Is site now designated as "no further remedial action planned" (NFRAP)? Yes (No)

d. Is site now addressed as part of an existing NPL site? Yes (No)

e. Is site proposed for the NPL? Yes (No)

3. Did you answer "yes" for any item above? *(Check one.)*

1. [ ] Yes--> Please stop here and return this survey to us.

2. [✓] No --> Please continue with survey.

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Please note: Because we don't know whose information is most current, we are also asking the state/territory/tribe for answers to Questions 4-8, 13-15, 17, and 19. So, if you do not have the information for those questions, there is no need to contact the state/territory/tribe for the answers.

Effects of site's contamination

4. How does contamination at this site affect groundwater? *(Check one.)*

1. [✓] Actual contamination
2. [ ] Potential contamination
3. [ ] No potential or actual contamination identified
4. [ ] Need more information to answer
5. [ ] Other *(Please explain.)*

5. How does contamination at this site affect ***drinking water*** (surface water or groundwater sources)? *(Check one.)*

1. [ ] Actual contamination
2. [ ] Potential contamination
3. [✓] No potential or actual contamination identified
4. [ ] Need more information to answer
5. [ ] Other *(Please explain.)*

Site conditions

6. Are there any residents or regular employees within 0.5 miles of the site? *(Check one.)*

1. [ ] Residents only
2. [✓] Employees only
3. [ ] Both residents and employees
4. [ ] Neither residents nor employees
5. [ ] *Need more information to answer*
6. [ ] Other (Please explain.)

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7. Do your region's records and/or your knowledge of the site indicate that this site's contamination contributes to any of the following? *(Check one for each row.)*

(Check one for each row.)	Yes (1)	No (2)	Uncertain (3)	Other *(Please explain.)* (4)
Drinking water				
a. Residents are advised not to use their wells.		✓		
b. Residents are advised to use filtered water.		✓		
c. Residents are advised to use bottled water.		✓		
d. Water supply is temporarily changed.		✓		
e. Water supply is permanently changed.		✓		
Other uses of water				
f. Livestock drink contaminated water.		✓		
g. Crops are irrigated with contaminated water.		✓		
h. Fish could be unsafe to eat.			✓	
i. Fish, plants, or animals are sick/dying.			✓	
j. Recreation is stopped or restricted (e.g., fishing, swimming).	✓		✓	
k. Residents, workers, etc., use water that fails to meet water quality standards (e.g., for bathing, watering vegetable gardens, or landscaping).		✓		

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Treasure Island Naval Station

(Check one for each row.)	Yes (1)	No (2)	Uncertain (3)	Other *(Please explain.)* (4)
Soil/air				
l. Residents/others should avoid exposure to contaminated dust or other particulates on some days.		✓		
m. Residents are advised not to let children play/dig in their yards.		✓		
n. Fences/barriers/signs are erected to keep residents or others out of contaminated areas.	✓		✗	
o. Obnoxious odors are present.		✓		
Other conditions				
p. Trespassers, including children, may come into direct contact with contaminants.	✓			
q. Workers or other legitimate visitors may come into direct contact with contaminants.	✓			
r. Institutional restrictions are necessary because of the site's contamination (for example, a deed restriction limits the property to industrial use or a legal limit is placed on well depth).	✓	✗		
s. Residents/community have concerns about contamination or potential health effects caused by this site.		✓		

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EPA activity at the site

8. Has EPA overseen or funded any of the following activities at this site? *(Check all that apply.)*

1. [✓] Removing waste from the site
2. [✓] Taking other interim actions to mitigate the site's contamination
3. [ ] Constructing final cleanup
4. [ ] Other *(Please specify.)*
5. [X] ***None of the above --> Skip to Question 10.***

9. In what calendar year did the above site activities begin? (See previous question.) *(Enter two digits.)*

19 95

State/territorial/tribal activity at site

10. Has the state/territorial/tribal agency participated in evaluating and assessing this site (e.g., gathering information, hiring contractors)? *(Check one.)*

1. [ ] Yes
2. [✓] No
3. [ ] *Don't know*

11. Has EPA ***funded*** any assessment activities by the state/territory/tribe at this site? *(Check one.)*

1. [✓] Yes
2. [X] No
3. [ ] *Don't know*

Site risk

12. Please rate the ***current risk*** to human health and the environment posed by this site. *(Check one.)*

1. [ ] Very high risk
2. [ ] High
3. [ ] Average
4. [✓] Low
5. [ ] Very low risk
6. [X] Too early to tell/Need more information to answer
7. [ ] Other *(Please explain.)*

13. Please rate the ***potential risk*** to human health and the environment posed by this site if it is not cleaned up. *(Check one.)*

1. [ ] Very high risk
2. [ ] High
3. [ ] Average
4. [ ] Low
5. [ ] Very low risk
6. [✓] Too early to tell/Need more information to answer
7. [ ] Other *(Please explain.)*

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Status of site cleanup

14. As of September 30, 1997, will more cleanup be needed at this site to protect human health or the environment? *(Check one.)*

1. [✓] Definitely yes
2. [✓] Probably yes
3. [ ] Uncertain
4. [ ] Probably no
5. [ ] Definitely no
6. [ ] *Cannot say; depends on future spread of contamination*
7. [ ] Too early to tell/Need more information to answer
8. [ ] Other *(Please explain.)*

15. Is cleanup currently under way that will complete all remediation needed at this site to protect human health and the environment? *(Check one.)*

1. [ ] Yes
2. [ ] No
3. [✓] Cleanup is under way but it is too early to tell if more will be needed
4. [ ] Other *(Please explain.)*

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PRP involvement at site

16. If you expect participation by potentially responsible parties (PRPs) in this site's cleanup, under what program(s) would this activity occur? *(Check all that apply.)*

1. [ ] *Do not expect PRP participation*
2. [ ] CERCLA after placement on NPL
3. [ ] CERCLA without placement on NPL
4. [ ] RCRA (including delegated to state)
5. [ ] State/territorial/tribal program
6. [ ] Too early to tell/Need more information to answer
7. [✓] Other (Please specify.)
   Defense Environmental Restoration Program

17. Which one of the following ***best*** describes involvement of PRPs at this site? *(Check one.)*

1. [ ] No PRP likely (orphan site, etc.)
2. [ ] PRP(s) identified, but viability is uncertain
3. [ ] PRP(s) identified, but cooperation is uncertain
4. [ ] PRP(s) will participate in site's cleanup, but extent of participation uncertain
5. [✓] PRP(s) likely to clean up all or almost all of site's contamination
6. [ ] PRP(s) have already begun final cleanup and are expected to fund all or almost all of it
7. [ ] Too early to tell/Need more information to answer
8. [ ] Other (Please specify.)

Opinions on site's placement on NPL

18. Considering EPA records and your professional opinion, will this site eventually be placed on the NPL? *(Check one.)*

1. [ ] Definitely yes
2. [ ] Probably yes
3. [ ] Uncertain
4. [√] Probably no
5. [ ] Definitely no
6. [ ] *Contamination no longer qualifies site for placement on the NPL*
7. [ ] Too early to tell/Need more information to answer
8. [ ] Other *(Please explain.)*

19. In your professional opinion, which ***one*** of the following seems to be the ***most likely*** outcome for this site? *(Check only one.)*

1. [ ] Cleanup as an NPL site
2. [ ] No NPL listing, but EPA conducts or oversees cleanup (RCRA, removal, etc.)
3. [√] No NPL listing, but the state/ territory/tribe conducts or oversees cleanup (enforcement, voluntary cleanup, state-funded cleanup, etc.)
4. [ ] No cleanup conducted because not needed to protect human health and the environment
5. [ ] Further cleanup action is needed, but will not be conducted (due to limited resources, other priorities, etc.).
6. [ ] Too early to tell/Need more information to answer
7. [ ] Other *(Please describe.)*

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20. In your opinion, to what extent does each of the following statements currently explain why this site has not already been proposed for the NPL? *(Check one for each row.)*

(Check one for each row.)	Major factor (1)	Moderate factor (2)	Minor factor (3)	Not a factor (4)	*No basis to judge* (5)
a. We consider the state/territorial/tribal program to have the lead for the site.	✓				
b. The state/territory/tribe told EPA that it plans to conduct or oversee cleanup.				✓	
c. The state/territory/tribe is already conducting or overseeing further cleanup or assessment.	✓				
d. State/territory/tribe is waiting for resources to proceed with cleanup/further assessment.				✓	
e. We are waiting for the state/territory/tribe to provide necessary information.				✓	
f. EPA's assessment resources are limited.				✓	
g. EPA's resources for placing sites on the NPL are limited.				✓	
h. EPA's cleanup resources are limited.				✓	
i. The state/territory/tribe is opposing inclusion on the NPL.		✓			
j. The local government/community is opposing inclusion on the NPL.		~~✓~~		✓	
k. We expect the site to be deferred to RCRA.				✓	
l. Our removal program is working on the site.				✓	
m. We are waiting for a federal agency (as PRP) to provide necessary information.				✓	
n. We need to collect more information on the current risk at this site.			✓		
o. Site is awaiting expanded site inspection (ESI).				✓	
p. Site is undergoing ESI.				✓	
q. Hazardous ranking system (HRS) package preparation is underway.				✓	
r. Placing site on NPL is low priority because contamination does not ***currently*** threaten humans or the environment.				✓	
s. We are waiting for a letter from the governor supporting placement on the NPL.				✓	

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21. For each contaminant listed below, please indicate the media in which it is present at this site, according to the site inspection records. For the contaminants that are not present or not assessed, check box 1, "Contaminant not present/not assessed." *(Check all that apply.)*

	(1) *Contaminant not present/ not assessed*	(2) Air	(3) Soil	(4) Groundwater	(5) Surface water	(6) Other (incl. sediment, biota)
a. Metals			✓	✓		
b. Pesticides			✓	✓		
c. VOCs		✓	✓	✓		
d. SVOCs			✓	✓		
e. PCBs			✓			
f. Dioxin	✗		✓			
g. Other						

Abbreviations:

VOCs -- volatile organic compounds
SVOCs -- semivolatile organic compounds
PCBs -- polychlorinated biphenyls

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22. What is the approximate calendar year of the most recent information that you used to answer this survey? *(Check one.)*

1. [ ] 1990 or earlier
2. [✓] 1991
3. [ ] 1992
4. [ ] 1993
5. [ ] 1994
6. [ ] 1995
7. [ ] 1996
8. [✓] 1997
9. [ ] Other *(Please explain.)*

23. Please consider the information sources that you used to complete this survey and indicate the category below that most closely fits your situation. *(Check one.)*

1. [✓] Used site records only; have no other experience with this site
2. [✓] Used my own knowledge of this site and site records as needed
3. [X] Other *(Please explain.)*

~~Treasure Island Naval Station has closed down. Parts are in use, but assumed no residents left.~~

Sept 1997 Draft Final RI
Dec 1997 Offshore Ecological Risk Assessment

24. Thank you for your assistance with this survey. You may use the space below to add comments.

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SITE/INCIDENT FORM 1 (SI1)

ENFORCEMENT SENSITIVE INFORMATION

*SITE NAME: TREASURE ISL NAVAL STA
*EPA ID NO: CA7170023330 FMS SITE/SPILL ID: 09

S/I RPM-OSC NAME/PHONE: _____/(___)___-____
OTHER REG CONTACT NAME/PHONE: _____/(___)___-____

ALIAS NAME(S): NAVAL STATION TREASURE ISL ,

_____, _____

_____, _____

*STREET: TREASURE ISL
*CITY: SAN FRANCISCO
*COUNTY: SAN FRANCISCO
*STATE: CA
*ZIP: 94130

*LATITUDE: 37/49/51.0
*LONGITUDE: 122/22/18.0
*LL SOURCE: R
*LL ACCURACY: _

CONGRESSIONAL DISTRICT: 05
COUNTY CODE: 075
*SMSA: 7360
USGS HYDRO UNIT: 18050002
FED AGENCY PRP FLG: N
STATE PRP FLAG: N
PRP AGENCY CODE: ____, ____, ____, ____, ____, ____.
SECTION CODE : _____

*FED. FACILITY FLAG: Y
*RCRA FACILITY FLAG: _
FED FACILITY DOCKET FLAG: T
DIOXIN TIER: _____
SITE NAME SOURCE: R
MUNICIPAL PRP FLAG: N
COST RECOVERY IND: E

AGGREGATE CASE BUDGET OBLIGATIONS:
AGGREGATE FUND OBLIGATIONS: TBD

*SITE/INCIDENT ABSTRACT: _____

*SITE CLASSIFICATION: ND

(NG) FUND LEAD/NEGOT
(FE) FEDERAL ENFORCEMENT
(F) FUND LEAD/NO NEGOT
(ND) NO DETERMINATION(DEFAULT)
(SE) STATE ENFORCEMENT

*CORE DATA ELEMENT OR CODE
@ USACE OWNED SUBEVENT

ANY QUESTIONS? CALL CSC CERCLIS STAFF

ACTION:_____(CSC ONLY)

SITE/INCIDENT FORM 2 (SI2/MED)
*SITE NAME: TREASURE ISL NAVAL STA
*EPA ID NO: CA7170023330 FMS SITE/SPILL ID: 09

ENFORCEMENT SENSITIVE INFORMATION
S/I RPM-OSC NAME/PHONE: _____/(___)___-____
OTHER REG CONTACT NAME/PHONE: _____/(___)___-____

*ENTRY NPL/STATUS INDICATOR: N

*PROPOSED NPL UPDATE NO: __ *FINAL NPL UPDATE NO: __

(S) PRE-PROPOSAL TO NPL
(P) SITE CURRENTLY PROPOSED FOR THE NPL
(R) SITE REMOVED FROM THE PROPOSED NPL
(F) SITE CURRENTLY ON THE NPL
(D) SITE DELETED FROM NPL
(N) SITE IS NOT CURRENTLY NOR WAS FORMERLY ON THE PROPOSED OR FINAL NPL
(O) NON SITE: A SITE/INCIDENT WHICH WILL NOT COUNT IN THE INVENTORY OR IN STATISTICAL REPORTS

*SITE CATEGORY: _

(A) ABANDONED
(D) DIOXIN
(H) HOUSING AREA/FARM
(L) LANDFILL
(O) OTHER
(T) MINES/TAILING
(B) CHEM. PLANT/IND REF
(F) FEDERAL FACILITY
(I) IND. WASTE TREATMENT
(M) MANUFACTURING PLANT
(P) PURE LAGOONS
(V) WATERWAYS/CREEKS/RIVERS
(C) CITY CONTAMINATION
(G) GROUND WATER
(J) INORGANIC WASTE
(N) MILITARY RELATED
(R) RADIOACTIVE SITE
(W) WELLS

*OWNERSHIP INDICATOR: FF

(PR) PRIVATELY OWNED
(FF) FED. OWNED
(ST) STATE OWNED
(CO) COUNTY OWNED
(DI) DISTRICT OWNED
(MN) MUNICIPALITY OWNED
(IL) INDIAN LANDS
(MX) MIXED OWNERSHIP
(OH) OTHER
(UN) UNKNOWN

*INCIDENT TYPE: (FOR REMOVAL OSC'S ONLY) _

(O) OIL SPILL OCCURING AT A LOCATION NOT PREVIOUSLY IDENTIFIED AS A CERCLIS SITE
(N) SPILL (OTHER THAN OIL) OR OTHER REMOVAL AT A LOCATION NOT PREVIOUSLY IDENTIFIED AS A CERCLIS SITE

MEDIA SECTION

M[illegible]A: __
(LA) LAND
(AI) AIR
(SW) SURFACE WATER
(GW) GROUND WATER

GOAL ATTAINED: _
(F) FULLY ACHIEVED
(A) MEDIUM NOT AFFECTED
(P) PARTIALLY ACHIEVED
(Z) MEDIUM NOT INVOLVED
(U) CLEANUP UNDERWAY

DIRECT THREAT ADDRESSED: _
(Y) YES
(N) NO
(Z) DIRECT CONTACT THREAT DOES NOT EXIST

*CORE DATA ELEMENT OR CODE
@ USACE OWNED SUBEVENT

ANY QUESTIONS? CALL CSC CERCLIS STAFF

ACTION:_____(CSC ONLY)

ALIAS FORM (ALI)
*SITE NAME: TREASURE ISL NAVAL STA
*EPA ID NO: CA7170023330 FMS SITE/SPILL ID: 09

ENFORCEMENT SENSITIVE INFORMATION
S/I RPM-OSC NAME/PHONE: _____/(___)___-____
OTHER REG CONTACT NAME/PHONE: _____/(___)___-____

ALIAS NAME: NAVAL STATION TREASURE ISL

ALIAS ID: 01

STREET: _____

LATITUDE: __/__/__._

CITY: _____

LONGITUDE: ___/__/__._

STATE: __ ZIP: _____

ALIAS DESCRIPTION: _____

_____

_____

_____

SITE/INCIDENT COMMENTS (SIC)
*SITE NAME: TREASURE ISL NAVAL STA
*EPA ID NO: CA7170023330 FMS SITE/SPILL ID: 09

ENFORCEMENT SENSITIVE INFORMATION
S/I RPM-OSC NAME/PHONE: _____/(___)___-____
OTHER REG CONTACT NAME/PHONE: _____/(___)___-____

CSC USE	COMMENT TYPE	GROUP NUMBER	LINE NUMBER	*COMMENT

--------				

*CORE DATA ELEMENT OR CODE
@ USACE OWNED SUBEVENT

ANY QUESTIONS? CALL CSC CERCLIS STAFF

ACTION:_____(CSC ONLY)

REGIONAL UTILITIES (RUT)
*SITE NAME: TREASURE ISL NAVAL STA
*EPA ID NO: CA7170023330 FMS SITE/SPILL ID: 09

ENFORCEMENT SENSITIVE INFORMATION
S/I RPM-OSC NAME/PHONE: _____/(___)___-____
OTHER REG CONTACT NAME/PHONE: _____/(___)___-____

CSC USE	REGIONAL UTILITY CODE	DESCRIPTION	DATE 1 MM/DD/YY	DATE 2 MM/DD/YY	DATE 3 MM/DD/YY	FREE FIELD
---	HSCH01	HEAVY METALS	/ /	/ /	/ /	
---	HSCO01	OILY WASTES	/ /	/ /	/ /	
---	HSCP01	PCB'S	/ /	/ /	/ /	
---	OPDD01	DRUMS, ABOVE GROUND	/ /	/ /	/ /	
---	OPDT01	TANKS (SOLVENTS, OIL, SLUDGE)	/ /	/ /	/ /	
---	9RCR01	RCRA REGULATED: GENERATOR (EXEMPT RECYCLER) SEE NOTIFICATION FILE	/ /	/ /	/ /	

---						

*CORE DATA ELEMENT OR CODE
@ USACE OWNED SUBEVENT

ANY QUESTIONS? CALL CSC CERCLIS STAFF

ACTION:_____(CSC ONLY)

OPERABLE UNITS (OPU)
*SITE NAME: TREASURE ISL NAVAL STA
*EPA ID NO: CA7170023330 FMS SITE/SPILL ID: 09

ENFORCEMENT SENSITIVE INFORMATION
S/I RPM-OSC NAME/PHONE: _____/(___)___-____
OTHER REG CONTACT NAME/PHONE: _____/(___)___-____

*OPERABLE UNIT IND: 00 *OPERABLE UNIT NAME: SITE EVAL/DISP

*OPERABLE UNIT DESCRIPTION: _____

*OPERABLE UNIT IND: ___ *OPERABLE UNIT NAME: _____

*OPERABLE UNIT DESCRIPTION: _____

*OPERABLE UNIT IND: ___ *OPERABLE UNIT NAME: _____

*OPERABLE UNIT DESCRIPTION: _____

NOTE: *FOR PREREMEDIAL AND REMOVAL EVENTS, OPERABLE UNIT INDICATOR = 00.
*FOR REMEDIAL EVENTS, ASSIGN OPERABLE UNIT INDIICATORS BEGINNING WITH 01.
*AN "ALIAS LINK" LINKS AN OPERABLE UNIT WITH A SPECIFIC ALIAS

*CORE DATA ELEMENT OR CODE
@ USACE OWNED SUBEVENT

ANY QUESTIONS? CALL CSC CERCLIS STAFF

ACTION:_____(CSC ONLY)

PREREMEDIAL
INFORMATION (EVT/SVT/FIN)
*SITE NAME: TREASURE ISL NAVAL STA
*EPA ID NO: CA7170023330 FMS SITE/SPILL ID: 09

ENFORCEMENT SENSITIVE INFORMATION

S/I RPM-OSC NAME/PHONE: _____/(___)___-____
EVENT REGIONAL CONTACT NAME/PHONE: _____/(___)___-____
OTHER REG CONTACT NAME/PHONE: _____/(___)___-____

*OP UNIT *EVENT SUBEVENT TYPE	*OP UNIT NAME *EVENT NAME *SUBEVENT NAME	LEAD	<----START----> PLAN (MM/DD/YY)	*PLAN (FY/Q)	*ACTUAL (MM/DD/YY)	<---- COMPLETE ----> PLAN (MM/DD/YY)	*PLAN (FY/Q)	*ACTUAL (MM/DD/YY)	PLANNING STATUS	SCAP NOTE
00	SITE EVAL/DISP									
DS1	DISCVRY 1	FF	__/__/__	__/_	__/__/__	__/__/__	__/_	07/01/80	_	_____
*EVENT QUALIFIER: _										
PA1	PA 01	FF	__/__/__	__/_	__/__/__	__/__/__	__/_	12/27/91	_	_____
*EVENT QUALIFIER: H										
SI1	SI 01	FF	__/__/__	__/_	__/__/__	__/__/__	__/_	12/27/91	_	_____
*EVENT QUALIFIER: H										

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Vol. 1

ecology and environment, inc.
160 SPEAR STREET, SAN FRANCISCO, CALIFORNIA 94105, TEL. 415/777-2811
International Specialists in the Environment

MEMORANDUM

TO: Carolyn Douglas, EPA Region IX

FROM: Abby Goldenberg, Ecology and Environment, Inc.

DATE: October 18, 1991

SUBJECT: Completed Work

cc: Marcia Brooks, E & E FIT

Attached is the following completed:

PA___ PA Review___ SSI___ LSI___ SIRe____

Other Federal Facility PA/SI Review

Site Name: Treasure Island Naval Station

EPA ID #: CA7170023330

City, County: San Francisco, San Francisco

State Recommendation:
(for Reviews only)

FOR EPA USE ONLY

CERCLIS Lead: FF

PA 1 H
SI 1 H
Anita L. Parker 12-27-91

entered 12-31-91

he/tins/cwm-trans

recycled paper

ecology and environment, inc.
160 SPEAR STREET, SAN FRANCISCO, CALIFORNIA 94105, TEL. 415/777-2811
International Specialists in the Environment

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Vol. 1

FEDERAL FACILITY
PRELIMINARY ASSESSMENT/SITE INSPECTION REVIEW

SUBMITTED TO: Carolyn Douglas, Federal Facilities Coordinator
EPA Region IX

PREPARED BY: Howard Edwards, Ecology and Environment, Inc. HK

THROUGH: Abby Goldenberg, Ecology and Environment, Inc. g for AG

DATE: October 15, 1991

FACILITY: Treasure Island Naval Station
San Francisco County, California

TDD#: F9-9108-055

EPA ID#: CA7170023330

PROGRAM ACCOUNT#: FCA1843PAA

FIT REVIEW/CONCURRENCE: Karen L Johnson 10/23/91

cc: FIT Master File

1. INTRODUCTION

In accordance with Section 120 of the Superfund Amendments and Reauthorization Act of 1986, all federal facilities listed on the Federal Agency Hazardous Waste Compliance Docket were required to submit a Preliminary Assessment (PA) to the U.S. Environmental Protection Agency (EPA) by April 17, 1988. Upon completion of the PA, facilities were requested to perform a Site Inspection (SI) of sites at the facility that warranted further investigation. Ecology and Environment, Inc.'s Field Investigation Team (FIT) has been tasked to review the PA/SI submitted by Naval Energy and Environmental Support Activity for Treasure Island Naval Station to ensure that an accurate response determination is made.

The strategy for determination of further action under the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) is based solely on each facility's potential to achieve a sufficient score on the Hazard Ranking System (HRS) for inclusion on the National Priorities List (NPL). This strategy is intended to identify those sites posing the highest relative risk to human health or the environment. The following report is a summary of FIT's findings with regard to this facility.

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2. EXECUTIVE SUMMARY

A Preliminary Assessment/Site Inspection of Naval Station Treasure Island, California by the Naval Energy and Environmental Support Activity (NEESA-PA) and a Site Inspection (SI) of Naval Station Treasure Island by PRC Environmental Management, Inc. were provided to FIT for this review. FIT obtained additional information from contacts with the Naval Facilities Engineering Command, Treasure Island Naval Facility, and various regulatory agencies.

3. SITE DESCRIPTION

The Treasure Island Naval Station (TINS) facility consists of two contiguous islands, Treasure Island and Yerba Buena Island. These islands are located in the San Francisco Bay midway between the cities of San Francisco and Oakland (see Figure 1). The facility is situated in Township 1 South, Range 5 West, in Section 24 and 25, Mount Diablo Baseline and Meridian (latitude 37°50'00" North, and longitude 122°22'30" West). The San Fracisco Bay Bridge connects the facility to both San Francisco and Oakland (1,2).

Treasure Island (TI) is a relatively flat, 450-acre, man-made island composed of dredged bay materials. TI is covered with a network of streets that are lined with numerous buildings and facilities (1). Yerba Buena Island (YBI) is a steeply sloped, 130-acre, natural rock island. YBI is ringed with several roads and contains numerous structures. YBI is transected by Interstate Highway 80. The two islands are connected by a causeway (see Figure 2 and 3) (1,2).

The major function of the TINS facility is to provide naval support to the U.S. Pacific Fleet. However, other government agencies and organizations lease space and operate within the facility, including the U.S. Coast Guard which operates a 30-acre base on YBI. Currently 4,000 military and non-military persons are employed at the TINS facility. FIT estimates that approximately 3,000 residents live on site in 1,116 housing units (1,2,4).

4. APPARENT PROBLEM

The NEESA-PA identified 26 areas of concern within the Treasure Island Naval Station and recommended further remedial investigation on 20 of the areas and remedial activities on two of the areas (1). The SI documented additional soil investigation results on three of the areas of concern identified in the NEESA-PA. These three areas were Army Point Sludge Disposal Area, the Refuse Transfer Area, and the Seaplane Maintenance Area. The SI recommended further investigation on those sites (2).

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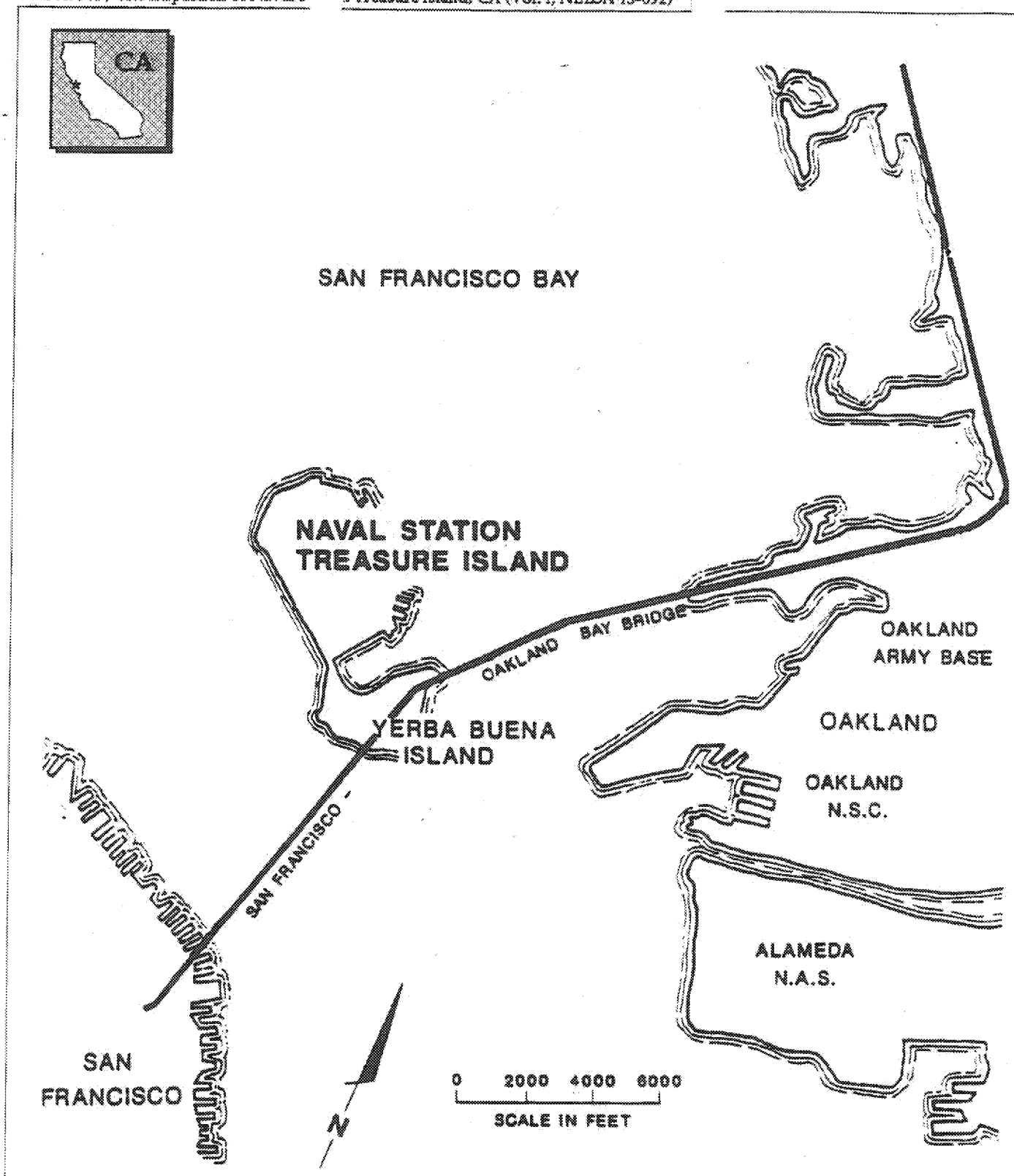
source: PA / Site Inspection of Naval S[illegible] Treasure Island, CA (Vol. I, NEESA 13-092)



Reference: Master Plan for the Naval Station Treasure Island, 1985

ecology & environment, inc.

Figure 1

-- REGIONAL LOCATION --

NAVAL STATION TREASURE ISLAND

San Francisco Bay, California

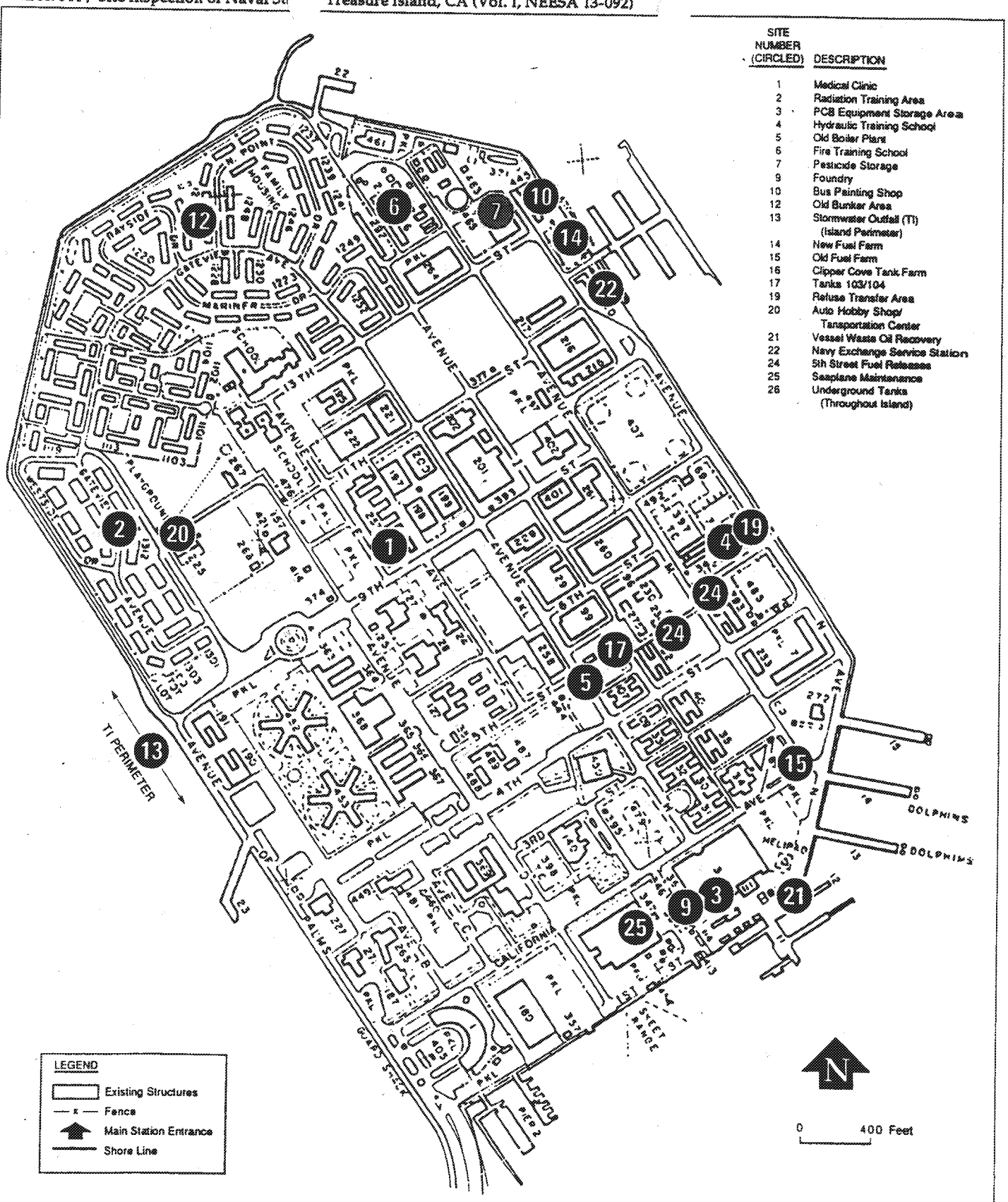


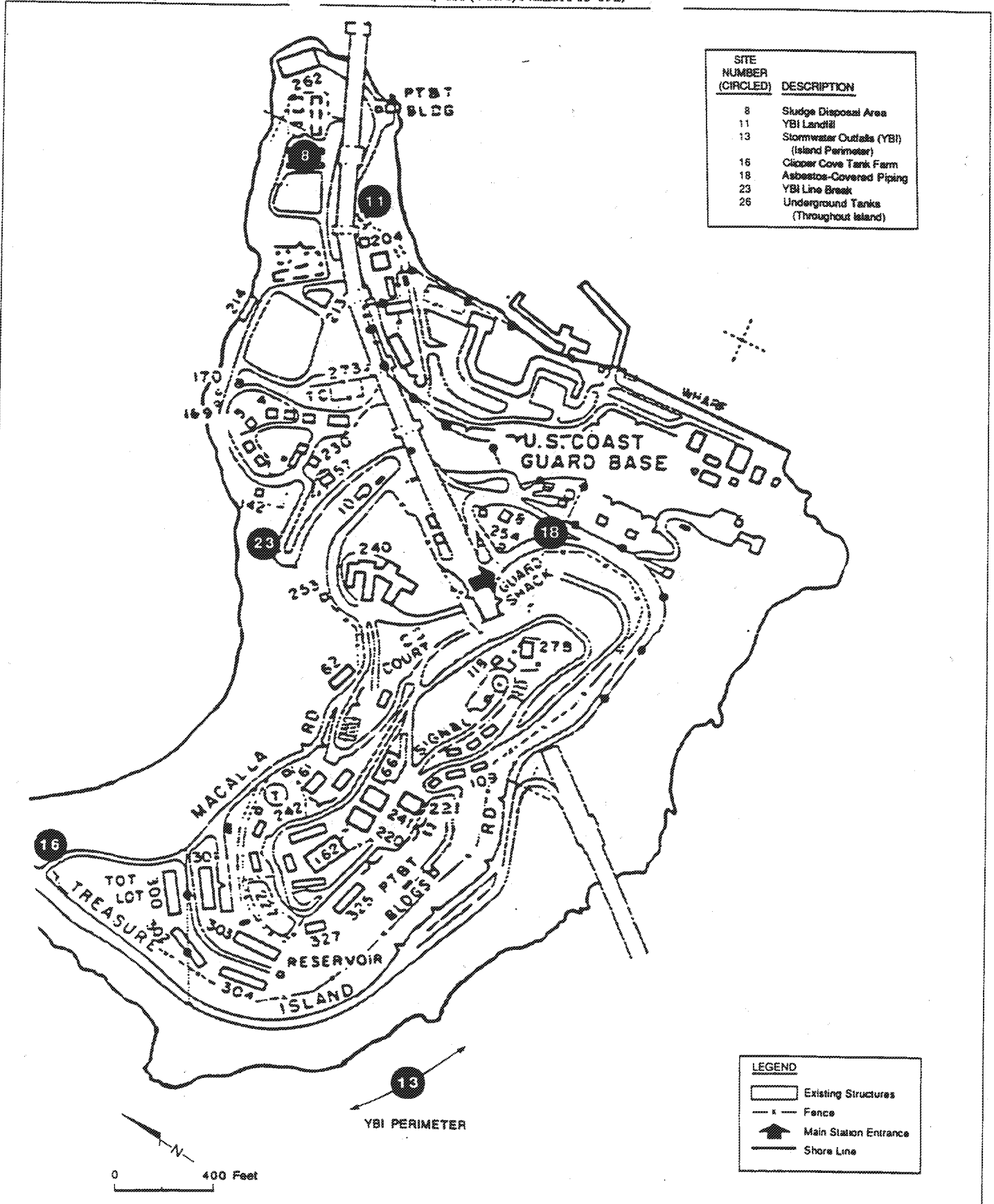
Figure 2

-- LOCATION of IDENTIFIED SITES - TREASURE ISLAND (TI) --

NAVAL STATION TREASURE ISLAND

San Francisco Bay, California

source: PA / Site Inspection of Naval St Treasure Island, CA (Vol. I, NEESA 13-092)



ecology & environment, inc.

Figure 3

-- LOCATION of IDENTIFIED SITES - YERBA BUENA ISLAND (YBI) --

NAVAL STATION TREASURE ISLAND

San Francisco Bay, California

FIT's review of past operations at the Treasure Island Naval Station has identified 15 areas where CERCLA contaminants may have been deposited. There appear to be 12 areas of concern on Treasure Island (see Figure 2 for area locations) and three areas of concern on Yerba Buena Island (see Figure 3 for area locations) (1,2). Hazardous substances found or deposited at the TINS facility include sludges and solutions containing heavy metals, asbestos, organic solvents, polychlorinated biphenyls (PCBs), and pesticides (1,2).

In addition, waste oils and other petroleum products were disposed of, generated, and stored on site (1,2). Petroleum, including crude oil and refined fractions, is specifically excluded from the definition of "hazardous substance" and "pollutant or contaminant" in Sections 101(14) and (33) of CERCLA. This exclusion does not apply to waste petroleum products that have been altered by use. Generally, waste oil that has been used as a lubricant in machinery contains high levels of metals and, thus, qualifies the waste oil as a hazardous substance. Since petroleum products which have been spilled or have leaked from storage containers are specifically excluded from the definition of a hazardous substance under CERCLA, areas of concern identified in the NEESA-PA relating to non-altered-petroleum products were excluded from this review.

4.1 TREASURE ISLAND

Site 1: Medical Clinic

The medical clinic is located in the central wing of Building 257. Building 257, which is situated in the center of TI, formerly contained x-ray photographic equipment. Corrosive liquid and silver-containing solution from this equipment have reportedly contaminated as much as 100 square feet of soil underlying the building (1).

Site 3: PCB Equipment Storage Area

A storage area utilized to store PCB-contaminated equipment is located in the south part of TI. Reportedly, spills of PCB-contaminated fluids occurred in this area (1). FIT was unable to determine whether soils underlying and surrounding the area had been contaminated. FIT was unable to determine whether PCB-contaminated equipment is still stored in this area.

Site 5: Old Boiler Plant

An old boiler was formerly situated in Building 102 in the center of TI. Asbestos from this boiler is apparently buried in the vicinity of Building 102 (1).

Site 6: Fire Training Area

A fire fighting training area is located in the northern part of TI (1). Reportedly waste oils and solvents have traditionally been used as fuel for fire in these areas (4).

Site 7: Pesticide Storage Area

The pesticide storage area is situated in the northern part of TI in Building 62. Paints, pesticides, and herbicides were apparently stored and prepared in this area. Excess materials were reportedly poured directly to the ground. In addition, reportedly, up to 1,440 cubic yards of sludge from wastewater treatment operations were reportedly spread on the ground either around Building 62 or at Site 8 on YBI. Although most of this area is paved contaminants in the sludge may have migrated downwards to groundwater (1).

Site 10: Bus Painting Shop

The bus painting shop was located at the north end of TI in Building 335. Wastes from this operation were reportedly released directly to the bay and to the ground near the building (1).

Site 12: Old Bunker Area

An old bunker area was located at the north end of TI. Unknown types of wastes were reportedly deposited and buried in trenches in this vicinity (1). There has been no known sampling of this disposal area.

Site 19: Refuse Transfer Area

A refuse transfer area is located on the east side of TI. The types of waste and refuse handled in this area are not known (1). Soil sampling of this area indicates the presence of metals and semi-volatile organic compounds. FIT was unable to determine whether contamination was above background level since reference sample were not collected and analyzed (2).

Site 20: Auto Hobby Shop/ Transportation Center

A transportation center was located in the western side of TI. Numerous buildings were formerly located in this area. Currently, only Building 225, which is now an auto hobby shop, remains. Reportedly, waste oil from the center was deposited to the storm drain system. Currently waste oil-containing drums are stored near the hobby shop. Soils around drums have been sampled and documented to contain heavy metals and petroleum hydrocarbons, however soils throughout the former Transportation Center area which have not been sampled, may also be contaminated with heavy metals and petroleum hydrocarbons (1).

Site 21: Vessel Waste Oil Recovery

Waste oil was removed from Navy vessels and transported to the shore at a pier area on the southern side of TI. Waste oil was likely released to the bay and to soils near the bay during the transfer. Reportedly, boiler water containing mercuric nitrate was occasionally released into the bay from vessels parked in this area.

Site 25: Seaplane Maintenance

The Seaplane Maintenance Area is located at the southern end of TI, adjacent to and south of buildings 2, 3, and 180. Waste oil and solvents from maintenance operations may have been deposited in this area. Heavy metals were detected in soils in this area (1,2).

Site 13: Stormwater Outfalls

TI is surrounded with stormwater outfalls which release untreated water directly from the storm drainage system to the bay. Various waste materials generated throughout TI may have been discharged into the storm drainage system (1).

4.2 YERBA BUENA ISLAND

Site 8: Army Point Sludge Disposal Area

Army Point is located at the east end of YBI. Reportedly, up to 1,440 cubic yards of sludge from wastewater treatment operations were spread either here or at Site 7. Sludge was reportedly deposits over approximately 40,000 square feet of area (1,2). Sampling conducted during the SI indicated that the area appears to be contaminated with DDT, cadmium, lead, arsenic, mercury, antimony, barium, beryllium, copper, nickel, and vanadium (2).

Site 11: YBI Landfill

The southern edge of the eastern tip of YBI is reportedly a former landfill. The area of landfill is approximately 40,000 square feet. The type of materials deposited into the landfill is not known (1). No known sampling of this landfill has been performed.

Area 3: Stormwater Outfalls (Site 13)

YBI is surrounded with stormwater outfalls which release untreated water directly from the storm drainage system to the bay. Various waste materials generated throughout the island may have been discharged into the storm drainage system (1).

5. HRS FACTORS

The Hazard Ranking System (HRS) is a scoring system used to assess the relative threat associated with actual or potential releases of hazardous substances from sites. It is the principal mechanism EPA uses to place sites on the National Priorities List (NPL). FIT has evaluated the following HRS factors relative to this site.

5.1 WASTE TYPE/QUANTITY

Information on actual amounts and constituents of wastes deposited at the site is unavailable for most areas of concern. FIT estimated waste types and quantities at areas of concern based on disposal area sizes provided in the NEESA-PA and the Comprehensive Long-Term Environmental Action Navy (CLEAN) Site Inspection Report of Treasure Island Naval Station.

Soil sampling of the Medical Clinic, Auto Hobby Shop/Transportation Center, Army Point Sludge Disposal Area, PCB Storage Area, Fire Training Area, Pesticide Storage Area, the Old Bunker Area, YBI Landfill, Refuse Transfer Area, and the Seaplane Maintenance Area indicate that the soil is contaminated. The contaminants include heavy metals, PCBs, pesticides and organic hydrocarbons. Reference sample soils and soil in other source areas have not been sampled (1,2).

See Table 1 for waste type and quantity information for each waste source found on Treasure Island and Yerba Buena Island (1,2).

5.2 GROUNDWATER

Groundwater underlying the TINS facility is not used as a drinking water or agricultural irrigation water source. The water is generally non-potable due to mixing with brackish bay water (1,2).

Groundwater underlying the facility flows and mixes into the San Francisco Bay. Since the groundwater level is at 3 to 6 feet below ground surface, a high potential exists for contaminants in soil to migrate into the groundwater and eventially into surface water (1,2)

5.3 SURFACE WATER

Run-off water throughout the entire facility either enters the storm drainage system or flows directly to the San Francisco Bay. It is likely that hazardous substances handled and deposited on the facility also entered the San Francisco Bay. It is not known to FIT whether the TINS site in considered to be in a flooding zone. However, the average elevation of Treasure Islands is only 11 feet above mean sea level. It also appears likely that contaminants in soil have migrated into groundwater and then into the San Francisco Bay (1,2).

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Table 1

PAST DEPOSITION OF WASTE AT TREASURE ISLAND

Area Name	Waste Types	Primary Contaminants	Approximate Waste Quantity
Medical Clinic	Corrosive and aqueous liquids	silver	100 square feet of contaminated soil.
PCB Storage Area	Oils	PCBs	100 square feet of contaminated soil.
Old Boiler Plant	Refuse	Asbestos	Unknown.
Fire Training Area	Oil and solvents	Heavy metals and organic compounds.	4,000 square feet of contaminated soil.
Pesticide Storage Area	Paint, pesticide mixtures and sludge.	Heavy metals, pesticides and organic compounds.	1,440 cubic yards deposited as sludge. Unknown quantity deposited as paint and pesticide waste.
Bus Painting Area	Paint-related wastes	Heavy metals and organic compounds.	Unknown.
Old Bunker Area	Refuse	Unknown	16,000 cubic yards
Refuse Transfer Area	Refuse	Heavy metals and organic compounds	Unknown
Auto Hobby Shop/ Transportation Center	Waste oil	Heavy metals	Unknown
Vessel Waste Oil Recovery	Waste oil and Boiler wastewater	Heavy metals	Unknown
Seaplane Maintenance Area	Waste oil and solvent	Heavy metals and organic compounds	Unknown
Stormwater Outfalls	Wastewater	Unknown	Unknown

Table 1 (Cont.)

PAST DEPOSITION OF WASTE AT YERBA BUENA ISLAND

Area Name	Waste Types	Primary Contaminants	Approximate Waste Quantity
Army Point Sludge Disposal Area	Sludge	Heavy metals and Pesticides	1,440 cubic yards
YBI Landfill	Refuse	Unknown	40,000 square feet
Stormwater Outfalls	Wastewater	Unknown	Unknown

The San Francisco Bay which surrounds the TINS facility is not used as a drinking water source. However, the bay is utilized extensively for recreation and commercial fishing (1,2,3).

There are currently no wetlands on or adjacent to the TINS facility (1). However, the San Francisco Bay is listed by the EPA's National Estuary Program as a nationally significant estuary (5). The bay may support a habitat for three state and federally listed endangered species: The California least tern (Sterna albifrons browni), the California brown pelican (Pelecanus occidentalis californicus) and the peregrine falcon (Falco peregrinus anautum) (1,2).

The has been no surface water or sediment sampling to determine whether TINS facility has contaminated surface water within the bay.

5.4 AIR

There has been no air sampling. The TINS facility has several sources, primarily the landfills and areas of exposed soil contamination, which have a potential to release hazardous substance to air (1,2).

Approximately 4,000 employees work on site and over 3,000 people live on site. The location of the residents and employees in relationship to the waste sources are not known to FIT. Estimated resident population within 4 miles of the TINS facility is given in Table 2 (6,7). Three federally listed endangered species are known to occasionally use the TINS facility for hunting and foraging (1).

Table 2

ESTIMATED RESIDENT POPULATION WITHIN 4 MILES OF THE TINS FACILITY

Distance (Miles)	Population
0 to 0.25	3,000
0.25 to 0.50	0
0.50 to 1.0	0
1 to 2	35,178
2 to 3	96,688
3 to 4	125,843

5.5 SOIL EXPOSURE

Person living or working at TINS may potentially be exposed to on-site contamination. Several areas of surface soil have been documented to be contaminated. Each of these areas have or potentially have uncontained contaminated soils within 2 feet of the surface.

The extent of soil or asphalt cover over the landfill and other areas is not known to FIT. It is also not known to FIT how accessible the areas of contamination are to facility employees and residents.

Since the TINS facility is both a military facility and an island it is relatively inaccessible to non-residents and non-employees (1).

6. CURRENT CONDITIONS

All information on potential hazardous substances at this site is current as of October 2, 1991 (4). The Navy plans to conduct a Remedial Investigation and Feasibility Study (RI/FS) for all sites identified in the NEESA-PA except Site 2, Site 18 and Site 23. The Department of Toxic Substance Control has recently reviewed and commented on the Work Plan for the planned Remedial Investigation and Feasibility Study. The final Work Plan is expected to be completed on approximately October 31. Remedial activities are planned between January and April 1992. (8).

A written agreement (termed a non-NPL Federal Facility Agreement) is currently being negotiated between Treasure Island Naval Station, DTSC, and Regional Water Quality Control Board regarding future remedial activities.

7. SUMMARY OF HRS CONSIDERATIONS

Treasure Island Naval Station is situated on two contiguous islands, Treasure Island and Yerba Buena Island, located in the San Francisco Bay. The facility is approximately 2 miles northeast of the city of San Francisco.

The Treasure Island Naval Station historically and currently provides support facilities to the U.S. Naval Fleet. Portions of the facility are, however, leased and operated by other governmental agencies.

Significant factors of the Hazard Ranking System associated with the Treasure Island Navel Station are:

- Soil contaminated with heavy metals, pesticides, and organic hydrocarbons has been documented on site;
- High potential for hazardous substances to have been released into the San Francisco Bay;
- The San Francisco Bay was historically and is currently used for fishery;
- The San Francisco Bay is a known habitat for three endangered species; and
- Approximately 3,000 people are living at the site.

8. EPA RECOMMENDATION

	Initial	Date
No Further Remedial Action Planned under CERCLA		
Higher-priority for Further Site Assessment	ASP	12-27-91
Lower-priority for Further Site Assessment		
Defer to Other Authority (e.g., RCRA, TSCA, NRC)		

Notes:

9. REFERENCES

1. Naval Energy and Environmental Support Activity, "Preliminary Assessment/ Site Inspection of Naval Station Treasure Island, California," NEESA 13-092, April 1988

2. PRC Environmental Management, Inc., "Site Inspection Report, Naval Station Treasure Island, San Francisco, California," Comprehensive Long-Term Environmental Action Navy, Department of the Navy, Western Division, Naval Facilities Engineering Command, April 26, 1991.

3. U.S. Fish and Wildlife Service, "Pacific Coast Ecological Inventory, San Francisco, California," 1981.

4. Galang, Ernie, Naval Facilities Engineering Command, and Howard Edwards, Ecology and Environment Inc. (E&E), Field Investigation Team (FIT), telephone conversation, October, 2 1991.

5. Kreissman, Bern, California, An Environmental Atlas and Guide, Bear Klaw Press: Davis, California, 1991.

6. U.S. EPA, Office of Toxic Substances, Graphical Exposure Modeling System, March 1989.

7. Sarmiento, Eddy, Treasure Island Naval Station, and Howard Edwards, E&E FIT, October 4, 1991.

8. Dracott, Joan, California Department of Toxic Substance Control, and Howard Edwards, E&E FIT, October 4, 1991.

APPENDIX A

FURTHER INFORMATION NEEDS

1. Sampling of surface water and surface water sediments to confirm and document an observed release to surface water and fishery contamination is needed. The sampling should include reference background sampling of surface water and sediments not affected by contaminant migration from Treasure Island Naval Station.

2. Surface and subsurface soil sampling of all areas of concern not previously sampled. The sampling should also include reference background sampling of non-contaminated areas.

3. Information is needed on the locations and populations of residents and facility workers and their accessiblity to contaminated areas.

4. Areas on and around the site where endangered species are known to feed or that are considered habitat areas should be delineated.

he/tins/ffsi

APPENDIX B

CONTACT LOG AND REPORTS

he/tins/ffsi

CONTACT LOG

Facility Name: Treasure Island Naval Station
Facility ID: CA7170023330

Name	Affiliation	Phone #	Date	Information
Ernie Galang	U.S. Dept. of the Navy	415-244-2557	10-2-91	See Contact Report.
Romy Fuentes	California Environmental Protection Agency	415-540-3815	10-4-91	See Contact Report.
Eddy Sarmiento	Treasure Island Naval Station	415-395-5454	10-4-91	See Contact Report.
Joan Dracott	Air Quality Management District	415-777-6000	10-4-91	See Contact Report.

he/tins/clcr

CONTACT REPORT

AGENCY/AFFILIATION: U.S. Department of the Navy		
DIVISION: Naval Facilities Engineering Command		
ADDRESS/CITY: San Bruno		
COUNTY/STATE/ZIP: California 94066-0727		
CONTACT(S)	**TITLE**	**PHONE**
1. Ernie Galang	Remedial Project Manager	(415) 244-2557
2.		
E & E PERSON MAKING CONTACT: Howard Edwards		**DATE:** 10-2-91
SUBJECT: Current remedial activities		
SITE NAME: Treasure Island		**EPA ID#:**CA7170023330

Mr. Galang indicated that the investigation at Treasure Island Naval Station is at the Remedial Investigation/ Feasibility Study (RIFS) stage. He indicated that the Work Plan for the Investigation was underway. He indicated that California EPA would be overseeing the RIFS and would be approving the Work Plan.

As far as he knew, no sampling of surface water or sediments of the San Francisco Bay was planned.

He indicated the the RIFS would cover all areas of concern identified in the PA/SI, except Sites 2, 18, and 23.

He stated that there were 1,009 housing units on the facility. The did not know the population.

Jim Sullivan 415 395-5454 was given as a contact for more information on the site.

Romy Fuentes (415) 540-3815 was given a the Department of Toxic Substance Control contact.

he/tins/clcr

CONTACT REPORT

AGENCY/AFFILIATION: California Environmental Protection Agency		
DEPARTMENT: Toxic Substances Control (DTSC)		
ADDRESS/CITY: 700 Heinz Ave. Bldg. F,		
COUNTY/STATE/ZIP: Alameda County, California, 94710		
CONTACT(S)	**TITLE**	**PHONE**
1. Romy Fuentes	Project Manager	(415) 540-3815
2.		
E & E PERSON MAKING CONTACT: Howard Edwards		**DATE:** 10-4-91
SUBJECT: DTSC activities at the site		
SITE NAME: Treasure Island Naval Facility		**EPA ID#:**CA7170023330

Major points from conversation with Mr. Fuentes:

- DTSC has reviewed the PA/SI and the SI for the facility. The department has also reviewed the Work Plan for the planned remedial investigation. The final Work Plan is due on the 31st of October. Investigation is scheduled between January and April 1992.

- Surface water sediment sampling is planned during remedial investigation.

- Bay sediment samples taken in the vicinity of Pier 1 has indicated cyanide and petroleum hydrocarbon contamination. It is not known if contamination is attributable to the site. The facility plans to set up a treatment system to remediate this contamination.

- A non-NPL Federal Facilities Agreement is currently being negotiated.

- DTSC is the lead oversight agency. The California Regional Water Quality Control Board is also involved.

- There has been no enforcement order issued as far as Mr. Fuentes knew.

- Mr. Fuentes was unaware on any community groups interest in this facility. However, he indicated that the facility is currently developing a community relations plan.

he/tins/clcr

CONTACT REPORT

AGENCY/AFFILIATION: Treasure Island Naval Station		
DEPARTMENT: Environmental		
ADDRESS/CITY: Treasure Island, San Francisco		
COUNTY/STATE/ZIP: California		
CONTACT(S)	**TITLE**	**PHONE**
1. Eddy Sarmiento	Environmental Manager	(415) 395-5454
2.		
E & E PERSON MAKING CONTACT: Howard Edwards		**DATE:** 10-4-91
SUBJECT: Environmental Activities on the island		
SITE NAME: Treasure Island Naval Station		**EPA ID#:** CA7170023330

Major points from conversation with Mr. Sarmiento:

- He did not have any population data, but would get back to me with it.
- A number of units on site are permitted by Air Quality Management District.
- AQMD had required that a vapor recovery system be installed at the service station.
- The San Francisco Underground Storage Tank program is involved with UST monitoring on site.

he/tins/clcr

CONTACT REPORT

AGENCY/AFFILIATION: Air Quality Management District (AQMD)		
DEPARTMENT: Information		
ADDRESS/CITY: 939 Ellis Street, San Francisco		
COUNTY/STATE/ZIP: San Francisco County, California, 94109		
CONTACT(S)	**TITLE**	**PHONE**
1. Joan Dracott	Information Officer	(415) 777-6000
2.		
E & E PERSON MAKING CONTACT: Howard Edwards		**DATE:** 10-4-91
SUBJECT: AQMD involvement with the site		
SITE NAME: Treasure Island Naval Station		**EPA ID#:**CA7170023330

The following information was gathered:

- The Naval Station is regularly inspected and is responsible to comply with all regulation and permit requirements.
- In the past five years the facility has had only one violation. The violation was for the operation of boiler(s) without a permit in 1987. The boiler(s) are now permitted.
- The Permitting Engineer for Treasure Island Naval Facility is Julian Elliot.

he/tins/clcr

3128

JUL 16 1992

mailed CT

E&E, Inc.

REPORT TRANSMITTAL

CA7170023330

Date delivered to H-8-1: 10-20-9

SAM: Carolyn Douglas

Copies of this Federal Facilties PA/SI Review for Treasure Island Naval Station should be sent to the following individuals:

Department of the Navy
Western Division
Naval Facilities Engineering Command
900 Commodore Drive
San Bruno, California 94066
Attention: Ernie Galang

Treasure Island Naval Station
Staff Civil Engineering Department
Building 1, Code 84
San Francisco, California 94130
Attention: Eddy Sarmiento

California Environmental Protection Agency
Department of Toxic Substances Control
2151 Berkeley, California 94704
Berkeley, California 94704
Attention: Romy Fuentes

California Regional Water Quality Control Board
San Francisco Bay Region
2101 Webster Street, 5th floor
Oakland, California 94612
Attention: Steve Morse

+ one as needed

he/tins/cwm-trans

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Geomatrix

May 15, 2006
Project 4850.005.3

Mr. James B. Sullivan
Ms. La Rae Landers
Department of the Navy
Base Realignment and Closure
Program Management Office West
1455 Frazee Rd., Suite 900
San Diego, CA 92108-4310

Subject: Comments on Draft Environmental Closeout Strategy and Schedules Document
Naval Station Treasure Island
San Francisco, California

Dear Mr. Sullivan and Ms. Landers:

On behalf of the Treasure Island Development Authority (TIDA), Geomatrix Consultants, Inc. (Geomatrix) is submitting the following comments on the subject draft document. Our review was limited to the Summary Information and Appendix A.

- In the discussion for Site 12 (page A-10), the definition and accounting of the solid waste disposal areas is confusing. The text states that there are four solid waste disposal areas (SWDAs), "Three of the areas occur along the shoreline and the fourth is in the central portion of Site 12." Is the fourth SWDA supposed to be the former storage yard area? If so, this appears to conflict with a later sentence that states "The former storage yard differs from the solid waste disposal areas because…." Please clarify.

- The schedules for Sites 28 and 29 show estimated site closeout to occur in March 2011. Based on recent discussions with the BCT, it may be possible to close out Site 28 with completion of a Remedial Investigation (RI) Report. Because completion of the RI and other CERCLA documents for Site 29 will be delayed due to Caltrans construction activities, it may be prudent to complete a separate RI for Site 28 so that this site can be closed much sooner than 2011. This comment may also apply to Site 8.

- In the discussions for Sites 28 and 29 (pages A-15 and A-16), we suggest pointing out the recent boundary change (e.g., Caltrans property that was formerly in Site 28 but is now in Site 29).

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Oakland, California 94612-3066
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- In the discussion for Site 31 (page A-18), the text implies that the entire site is the asphalt-covered playground. We suggest that the text be revised to clarify that the site also includes 11th Street and the southwest corner of parcel T089.

- In the discussion for Petroleum Program Site 6 (page A-22), the expected date for petroleum closure is May 2006. Given recent Regional Board comments about not concurring with No Further Action (NFA), we suggest revising the closure date.

- In the discussion about underground storage tank (UST) sites (pages A-28 through A-29) we suggest that the text explain the difference between sites that have received NFA concurrence and those that have received regulatory closure.

- On Figures 1, 8 and 9, only a small portion of the non-FOST property is designated as FOSET property (most but not all parcels on the southeast side of the island). It is not clear why other non-FOST property is not considered FOSET property (i.e., the northern portion of the island including Sites 6, 7, 10 12, 14/22, 20, 30, 31, 32; parcels T030, T031 and T032; parcels T005 and T006; and parcels T008 and T009).

We appreciate the opportunity to review the draft document. Please feel free to contact me or Mr. Marc McDonald of TIDA if you have any comments.

Sincerely yours,
GEOMATRIX CONSULTANTS, INC.

Gary R. Foote

Gary R. Foote, P.G.
Principal Geologist

GF/bg

cc: Mr. Marc McDonald, Treasure Island Development Authority
Mr. Jack Sylvan, Treasure Island Development Authority
Mr. James Ricks, U.S. Environmental Protection Agency, Region IX
Mr. David Rist, Cal EPA Department of Toxic Substances Control
Mr. Alan Friedman, Cal EPA Regional Water Quality Control Board
Ms. Agnes Farres, Cal EPA Regional Water Quality Control Board
Mr. Keith Sheets, CH2M Hill

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Department of Toxic Substances Control

Alan C. Lloyd, Ph.D.
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Cal/EPA

700 Heinz Avenue, Suite 200
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Arnold Schwarzenegger
Governor

January 24, 2006

Ms. La Rae Landers
Lead Remedial Project Manager
Department of the Navy
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Program Management Office West
1455 Frazee Road, Suite 900
San Diego, California 92108-4310

IDENTIFICATION OF STATE APPLICABLE OR RELEVANT AND APPROPRIATE REQUIREMENTS (ARARs) FOR THE SITE 30 (PARCEL T094) DRAFT FEASIBILITY STUDY, NAVAL STATION TREASURE ISLAND, SAN FRANCISCO, CALIFORNIA

Dear Ms. Landers:

Thank you for the opportunity to provide State of California laws and regulations for developing ARARs for the draft Feasibility Study for Site 30 at Naval Station Treasure Island. Below are the requirements of the Department of Toxic Substances Control (DTSC). DTSC also understands that the Navy will be soliciting ARARs from other State agencies and request that in areas where there are overlapping State requirements, that the most stringent of these requirements apply.

The following California laws and regulations are applicable to the remedial technology alternatives that include excavation and off-site disposal as determined by the Department of Toxic Substances Control.

Determination of a Hazardous Waste

California Code of Regulations, Title 22 (22 CCR), Division 4.5, Chapter 11

Hazardous Waste Determination requirements are applicable for alternatives that

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will generate waste. The above identified sections include requirements for determining whether excavated material or extracted groundwater or other generated waste are either RCRA or non-RCRA hazardous waste (i.e. California only waste).

Land Disposal Restrictions (LDR)

California Code of Regulations, Title 22, Chapter 18.

Land disposal restrictions prohibit disposal of hazardous waste unless treatment standards are met and are applicable for alternatives that will generate waste subject to land disposal restrictions.

Hazardous Waste Generator Requirements

California Code of Regulations, Title 22, Chapter 12 and Chapters 15 and 18 as referenced in Chapter 12.

On-site hazardous waste accumulation requirements are applicable if hazardous waste is generated and accumulated on site before transport.

Drinking Water Primary Standards

California Code of Regulations, Title 22, Div. 4, Ch. 15, Article 4, Section 64431 et seq., and Article 5.5, Section 64444 et seq.

These requirements are considered relevant and appropriate where the aquifer is a potential drinking water source and the State MCLs are more stringent than Federal MCLs (Even though Treasure Island groundwater has been de-designated as a potential drinking water source, concentrations of contaminants at Site 30 should be compared to the State MCLs as a basis for the establishment of institutional controls to prohibit the use of groundwater).

Remediation Waste Staging and On-Site Storage

California Health and Safety Code, Chapter 6.5, Article 2, section 25123.3

This section provides definitions and requirements for on-site storage of non-RCRA hazardous waste soil prior to on-site treatment or off-site transportation and is applicable if non-RCRA hazardous waste soil is accumulated and stored on-site.

Transportation of Hazardous Waste

California Code of Regulations, Title 22, Chapter 13, Sections 66263.10 -.18

This regulation is applicable as these requirements must be fully complied with when transporting hazardous waste off-site.

The following regulation is relevant and appropriate for remedial technology alternatives that involve the consolidation of waste and the installation of a protected cap. These regulations are relevant and appropriate because Site 30 is known to contain hazardous waste.

Construction of Landfill Cover Systems

California Code of Regulations, Title 22, Chapter 14, Article 14. Landfills, section 66264.303. Monitoring and Inspection.

This section describes the requirements for inspections during construction or installation cover systems. These systems shall be inspected for uniformity, damage, and imperfections.

Landfill Closure and Post Closure Care

California Code of Regulations, Title 22, Chapter 14, Article 14. Landfills, section 66264.310.

This section describes the design and construction requirements for landfill cover as well as post closure requirements. Also, describes requirements for gas recovery.

The following regulation is applicable for the remedial technology alternatives using land use controls.

Covenants to Restrict Use of Property - Environmental Restriction

California Civil Code, section 1471

This section allows an owner of land to make a covenant to restrict use of land for the benefit of a covenantee. The covenant runs with the land to bind successive owners, and the restrictions must be reasonably necessary to protect present or future human health or safety or the environment as a result of the presence on the land of hazardous materials, as defined in section 25260 of the California Health and Safety Code. Requires recording of the covenant in the county where the land is located.

California Health and Safety Code section 25202.5

This section allows DTSC to enter into an agreement with the owners of a hazardous waste facility to restrict present and future land uses.

California Health and Safety Code sections 25221.1 and 25355.5(a)(1)(C)

This section allows DTSC to enter into voluntary agreements with land owners to restrict the use of property. The agreements run with the land restricting present and future uses of the land.

California Health and Safety Code sections 25233(c) and 25234

This section provides the process and criteria for obtaining written variances from land use restrictions, and for termination of land use restrictions.

California Code of Regulation, Title 22, Division 4.5, Chapter 39, section 67391.1

This section defines requirements for establishing land use covenants for imposing limitations on land use when hazardous materials, hazardous waste or constituents, or hazardous substances will remain at the property at levels which are not suitable for unrestricted use of the land.

The above State of California ARARs reflects DTSC's understanding of the remedial alternatives that are to be presented in the upcoming draft Feasibility Study for Site 30. The State of California may submit additional ARARs as more specific information on the remedial alternatives is provided by the Navy. If you have any questions regarding State ARARs please call me at 510-540-3763.

Sincerely,

David Rist

David Rist
Hazardous Substance Scientist
Office of Military Facilities

cc: See next page.

cc: Ms. Patti Collins (SFD-8-2)
U.S. Environmental Protection Agency, Region IX
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California Regional Water Quality Control Board
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3/28

DEPARTMENT OF THE NAVY
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5090
Ser 06CA.JS/0941
17 September 2004

Mr. Alan Friedman
California Regional Water Quality Control Board
San Francisco Bay Region
1515 Clay Street, Suite 1400
Oakland, CA 94612

SUBJ: TRANSMITTAL OF FINAL INTERIM GROUNDWATER STATUS REPORT: SUMMARY OF GROUNDWATER MONITORING AT SITES 12, 21, AND 24, MAY 2004, NAVAL STATION TREASURE ISLAND, SAN FRANCISCO, CALIFORNIA

Please find enclosed the captioned document for groundwater monitoring activities completed under the facilitywide groundwater monitoring program at former Naval Station Treasure Island. If you have any questions, please call Ellen Casados at (619) 532-0968.

JAMES B. SULLIVAN
BRAC Environmental Coordinator
By direction

Encl: Final Interim Groundwater Status Report: Summary of Groundwater Monitoring at Sites 12, 21, and 24, May 2004, Naval Station Treasure Island, San Francisco, California

Copy to:

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17 September 2004

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Writer: E. Casados, Code 06CA.EC, 2-0968
Typist: E. Casados, Code 06CA.EC, 2-0968

TRANSMITTAL OF FINAL INTERIM GROUNDWATER STATUS REPORT AT SITES 12, 21, AND 24, MAY 2004, NAVAL STATION TREASURE ISLAND, SAN FRANCISCO, CALIFORNIA

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DEPARTMENT OF THE NAVY
SOUTHWEST DIVISION
NAVAL FACILITIES ENGINEERING COMMAND
1220 PACIFIC HIGHWAY
SAN DIEGO, CA 92132-5190

5090
Ser 06CA.JW/0930
September 9, 2004

From: Commander, Southwest Division, Naval Facilities Engineering Command
To: Distribution

Subj: FINAL SUMMARY REPORT, SITE 12 HOUSING AREA, SITEWIDE INVESTIGATION TREASURE ISLAND, SAN FRANCISCO, CA

Encl: (1) Final Summary Report, Site 12 Housing Area, Sitewide Investigation Treasure Island, San Francisco, CA., of June 29, 2004 - Sent 9/9/04

1. Enclosure (1) is provided as the Final Summary Report, Site 12 Housing Area, Sitewide Inspection located on Treasure Island for your files.

2. For further information, please contact Mr. Jim Whitcomb at (619) 532-0936 or me at (619) 532-0966.

JAMES B. SULLIVAN
BRAC Environmental Coordinator
By direction

Distribution:
Mr. David Rist, California Department of Toxic Substances Control
Ms. Patti Collins, U.S. Environmental Protection Agency, Region IX
Ms. Sarah Baker, California Regional Water Quality Control Board
Mr. Randall Smith, San Francisco Public Utilities Commission
Mr. Jack Sylvan, Treasure Island Development Authority
Mr. Phil Burke, CH2M Hill
Mr. Gary Foote, Geomatrix Consultants
Ms. Victor Early, Tetra Tech EM Inc. (w/o encl)
Mr. John Baur Shaw, Environmental & Infrastructure (w/o encl)

Community RAB Members:
Mr. Nathan Brennan
Ms. Dale Smith
Mr. Douglas Ryan
Mr. Woody Baker-Cohn
Mr. Saul Bloom, ARC Ecology

Encl: Final Summary Report CD, Site 12 Housing Area, Sitewide Investigation

DEPARTMENT OF THE NAVY
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1220 PACIFIC HIGHWAY
SAN DIEGO, CA 92132 - 5190

5090
Ser 06CA.LL/0792
July 30, 2004

From: Commander, Southwest Division, Naval Facilities Engineering Command
To: Distribution

Subj: FINAL ENVIRONMENTAL CLOSEOUT STRATEGY AND SCHEDULES, NAVAL STATION TREASURE ISLAND, SAN FRANCISCO, CA

Encl: (1) Final Environmental Closeout Strategy and Schedules, Naval Station Treasure Island, San Francisco, CA., July 30, 2004

1. Enclosure (1) is provided as the Final Environmental Closeout Strategy and Schedules for Naval Station Treasure Island for your information and file.

2. For further information, please contact me at (619) 532-0970.

LA RAE LANDERS
Lead Remedial Project Manager
By direction of the Commander

Distribution:
Ms. Patti Collins, U.S. Environmental Protection Agency, Region IX
Mr. David Rist, California Department of Toxic Substances Control
Mr. Alan Friedman, California Regional Water Quality Control Board
Mr. Jack Sylvan, Treasure Island Development Authority
Mr. Phil Burke, CH2M Hill
Mr. Gary Foote, Geomatrix Consultants
Ms. Marcie Rash, Tetra Tech EM Inc. (w/o encl)
Mr. John Baur, Shaw, Environmental & Infrastructure

Community RAB Members:
Mr. Nathan Brennan
Ms. Dale Smith
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Ms. Eve Bach, ARC Ecology

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5090
Ser 06CA.EC/0460
14 May 2004

Ms. Sarah Raker
California Regional Water Quality Control Board
San Francisco Bay Region
1515 Clay Street, Suite 1400
Oakland, CA 94612

SUBJ: TRANSMITTAL OF THE FINAL SAMPLING AND ANALYSIS PLAN FOR THE FACILITYWIDE GROUNDWATER MONITORING PROGRAM, NAVAL STATION TREASURE ISLAND, SAN FRANCISCO, CALIFORNIA

Please find enclosed the captioned sampling and analysis plan (SAP) for field activities under the facilitywide groundwater monitoring program at former Naval Station Treasure Island. This final version of the document incorporates input provided on the draft document. If you have any questions, please call Ellen Casados at (619) 532-0968.

JAMES B. SULLIVAN
BRAC Environmental Coordinator
By direction

Encl: Sampling and Analysis Plan for the Facilitywide Groundwater Monitoring Program, Naval Station Treasure Island, San Francisco, California

Copy to:

Mr. David Rist
Department of Toxic Substances Control
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DEPARTMENT OF THE NAVY
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5090
Ser 06CA.EC/0461
14 May 2004

Ms. Sarah Raker
California Regional Water Quality Control Board
San Francisco Bay Region
1515 Clay Street, Suite 1400
Oakland, CA 94612

SUBJ: TRANSMITTAL OF THE FINAL GROUNDWATER STATUS REPORT, SUMMARY OF GROUNDWATER MONITORING: MAY THROUGH DECEMBER 2003, NAVAL STATION TREASURE ISLAND, SAN FRANCISCO, CALIFORNIA

Please find enclosed the captioned groundwater status report for facilitywide groundwater monitoring program conducted between May and December 2003 at former Naval Station Treasure Island. The document has been provided for informational purposes; comments on the document are not requested. If you have any questions, please call Ellen Casados at (619) 532-0968.

JAMES B. SULLIVAN
BRAC Environmental Coordinator
By direction

Encl: Final Groundwater Status Report, Summary of Groundwater Monitoring: May through December 2003, Naval Station Treasure Island, San Francisco, California

Copy to:

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14 May 2004

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14 May 2004

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Writer: E. Casados, Code 06CA.EC, 2-0968
Typist: E. Casados, Code 06CA.EC, 2-0968

TRANSMITTAL OF THE FINAL GROUNDWATER STATUS REPORT, SUMMARY OF GROUNDWATER MONITORING: MAY THROUGH DECEMBER 2003, NAVAL STATION TREASURE ISLAND, SAN FRANCISCO, CALIFORNIA

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DEPARTMENT OF THE NAVY
SOUTHWEST DIVISION
NAVAL FACILITIES ENGINEERING COMMAND
1220 PACIFIC HIGHWAY
SAN DIEGO, CA 92132-5190

5090
Ser 06CA.JS/1575
19 December 2003

Ms. Sarah Raker
California Regional Water Quality Control Board
San Francisco Bay Region
1515 Clay Street, Suite 1400
Oakland, CA 94612

SUBJ: TRANSMITTAL OF FINAL INTERIM GROUNDWATER STATUS REPORT: SUMMARY OF GROUNDWATER MONITORING AT SITES 11, 12, 21, AND 24, MAY THROUGH AUGUST 2003, NAVAL STATION TREASURE ISLAND, SAN FRANCISCO, CALIFORNIA

Please find enclosed the captioned document for groundwater monitoring activities completed under the facilitywide groundwater monitoring program at former Naval Station Treasure Island. If you have any questions, please call Ellen Casados at (619) 532-0968.

JAMES B. SULLIVAN
BRAC Environmental Coordinator
By direction

Encl: Final Interim Groundwater Status Report: Summary of Groundwater Monitoring at Sites 11, 12, 21, and 24, May through August 2003, Naval Station Treasure Island, San Francisco, California

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CA version of previously submitted plan (10/22/03)

DEPARTMENT OF THE NAVY
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NAVAL FACILITIES ENGINEERING COMMAND
1220 PACIFIC HIGHWAY
SAN DIEGO, CA 92132-5190

5090
Ser 06CA.SA/1391
October 15, 2003

From: Commander, Southwest Division, Naval Facilities Engineering Command
To: Distribution

Subj: FINAL SAMPLING AND ANALYSIS PLAN (SAP) ADDENDUM – CHARACTERIZATION AND REMOVAL OF LEAD-CONTAMINATED SOIL AT QUARTERS 1 THROUGH 7, BUILDING 62, AND BUILDING 230, YERBA BUENA ISLAND, NAVAL STATION TREASURE ISLAND, SAN FRANCISCO, CALIFORNIA

Encl: (1) Final SAP Addendum – Characterization and Removal of Lead-Contaminated Soil at Quarters 1 through 7, Building 62, and Building 230, Yerba Buena Island, Naval Station Treasure Island, San Francisco, California., of October 13, 2003

1. Enclosure (1) is provided as the Final SAP Addendum – Characterization and Removal of Lead-Contaminated Soil at Quarters 1 through 7, Building 62, and Building 230. The field investigation is expected to begin on October 20, 2003.

2. For further information, please contact Mr. Scott Anderson at (619) 532-0938 or me at (619) 532-0966.

for JAMES B. SULLIVAN
BRAC Environmental Coordinator
By direction

Distribution:
Ms. Patti Collins, U.S. Environmental Protection Agency, Region IX
Mr. David Rist, California Department of Toxic Substances Control
Ms. Sarah Raker, California Regional Water Quality Control Board
Mr. Stephen Proud, Treasure Island Development Authority
Mr. Phil Burke, CH2M Hill
Mr. Gary Foote, Geomatrix Consultants
Ms. Sharon Tobias, Tetra Tech EM Inc. (w/o encl)
Mr. John Baur Shaw, Environmental & Infrastructure (w/o encl)

Community RAB Members:
Mr. Nathan Brennan
Ms. Dale Smith
Mr. Douglas Ryan
Mr. Woody Baker-Cohn
Ms. Christine Shirley, ARC Ecology

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DEPARTMENT OF THE NAVY
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NAVAL FACILITIES ENGINEERING COMMAND
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CD version

5090
Ser 06CA.JS/1124
August 1, 2003

From: Commander, Southwest Division, Naval Facilities Engineering Command

Subj: FINAL SITE 12 HOUSING AREA, SITEWIDE INVESTIGATION, PROJECT PLANS, TREASURE ISLAND, SAN FRANCISCO CA

Encl: (1) Final Site 12 Housing Area, Sitewide Investigation, Project Plans, Treasure Island, San Francisco CA, dated August 1, 2003
(2) Response to Comments on the June 27, 2003 Draft Sampling and Analysis Plan

1. Enclosures (1) and (2) are forwarded. The Project Plans include the Quality Control Plan, Sampling and Analysis Plan, and the Health and Safety Plan.

2. Field work is scheduled to begin the week of August 4, 2003.

3. Thank you for your review and comments on this document. If you have any questions, please contact me at (619) 532-0966.

JAMES B. SULLIVAN
BRAC Environmental Coordinator
By direction

Distribution:
California Department of Toxic Substances Control (Attn: Mr. David Rist)
California Regional Water Quality Control Board (Attn: Ms. Sarah Raker)
U.S. Environmental Protection Agency, Region IX (Attn: Ms. Patti Collins)
Treasure Island Development Authority (Attn: Mr. Stephen Proud) (2 copies)
Geomatrix Consultants (Attn: Mr. Gary Foote)
Tetra Tech EM Inc. (Attn: Mr. Victor Early)
Shaw Environmental & Infrastructure (Attn: Mr. John Baur) (w/o encl)
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3128

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5090
Ser 06CA.EC/0854
10 June 2003

Ms. Sarah Raker
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SUBJ: TRANSMITTAL OF THE FINAL SAMPLING AND ANALYSIS PLAN FOR THE FACILITYWIDE GROUNDWATER MONITORING PROGRAM, NAVAL STATION TREASURE ISLAND, SAN FRANCISCO, CALIFORNIA

Please find enclosed the captioned sampling and analysis plan (SAP) for field activities under the facilitywide groundwater monitoring program at former Naval Station Treasure Island. This final version of the document incorporates input provided at the SAP working meeting on April 22, 2003. If you have any questions please call me at (619) 532-0968.

Ellen Casados

ELLEN M. CASADOS
Environmental Engineer

Encl: Sampling and Analysis Plan for the Facilitywide Groundwater Monitoring Program, Naval Station Treasure Island, San Francisco, California

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