



Final

2012 Site Management Plan

Naval Station Treasure Island San Francisco, California

September 11, 2012

Prepared for:

**Base Realignment and Closure
Program Management Office West
Naval Facilities Engineering Command
San Diego, California**

Prepared by:

**TriEco-Tt, a Joint Venture of TriEco LLC and
Tetra Tech EM Inc.
1230 Columbia Street, Suite 1000
San Diego, California 92101**

Prepared under:

**Naval Facilities Engineering Command
Contract Number N62473-11-D-2205
Delivery Order 0003**

Final

**2012 Site Management Plan
Naval Station Treasure Island
San Francisco, California**

Contract Number N62473-11-D-2205

PREPARED FOR:

DEPARTMENT OF THE NAVY

REVIEW AND APPROVAL

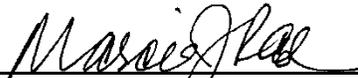
Project Manager:  Date: September 11, 2012
Marcie Rash, Tetra Tech EM Inc.

TABLE OF CONTENTS

REVIEW AND APPROVAL	i
ACRONYMS AND ABBREVIATIONS	iii
1.0 INTRODUCTION	1
2.0 SCHEDULE ASSUMPTIONS	3

TABLES

1 Document Production and Review Periods	6
2 Summary of Forthcoming CERCLA Documents and Phases	7
3 Petroleum Site Summary	8
4 Schedule Change Tracking Form – December 2011 through September 2012.....	16

FIGURES

1 CERCLA Sites, Petroleum Sites, and Transfer Parcels	
2 CERCLA Program Site Strategy Flow Chart	
3 Petroleum Program Site Strategy Flow Chart	
4 Site 12 Closure Strategy Flow Chart	
5 Timeline to Closure – CERCLA Program	
6 Timeline to Closure – Petroleum Program	
7 Underground Storage Tanks, Location Map, Treasure Island	
8 Underground Storage Tanks, Location Map, Yerba Buena Island	
9 PCB Program Status	
10 Transfer and EBS Parcels	
11 1996 Planned Reuse Areas, CERCLA and Petroleum Investigation Sites	
12 2011 Conceptual Land Plan, CERCLA and Petroleum Investigation Sites	

APPENDIX

A Site Summary Information	
B Environmental Schedule	
C Responses to Regulatory Agency Comments	

ACRONYMS AND ABBREVIATIONS

ACM	Asbestos-containing material
AST	Aboveground storage tank
ATG	Allied Technology Group, Inc.
Bay	San Francisco Bay
Bay Bridge	San Francisco-Oakland Bay Bridge
BCT	Base Realignment and Closure Cleanup Team
BRAC	Base Realignment and Closure
Cal/EPA	California Environmental Protection Agency
Caltrans	California Department of Transportation
CAP	Corrective action plan
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act
CRP	Community relations plan
DDT	Dichlorodiphenyltrichloroethane
DTSC	Department of Toxic Substances Control
EBS	Environmental baseline survey
ed	Elapsed day
EE/CA	Engineering evaluation/cost analysis
EPA	U.S. Environmental Protection Agency
ERM West	Environmental Resources Management West, Inc.
ESD	Explanation of significant differences
FFS	Focused feasibility study
FFSRA	Federal Facility Site Remediation Agreement
FHWA	Federal Highway Administration
FOSL	Finding of suitability to lease
FOST	Finding of suitability to transfer
FS	Feasibility study
FSS	Final status survey
GPR	Ground-penetrating radar
GWM	Groundwater monitoring
HHRA	Human health risk assessment
HRA	Historical radiological assessment
HUD	U.S. Department of Housing and Urban Development
IR	Installation Restoration
ISB	In situ bioremediation
LBP	Lead-based paint
LUC	Land use control
MARSSIM	Multi-Agency Radiation Survey and Site Investigation Manual
N/A	Not applicable
NAVSTA TI	Naval Station Treasure Island
Navy	Department of the Navy

ACRONYMS AND ABBREVIATIONS (Continued)

NFA	No further action
NTCRA	Non-time-critical removal action
OWS	Oil-water separator
PAH	Polycyclic aromatic hydrocarbon
PA/SI	Preliminary assessment/site inspection
PCB	Polychlorinated biphenyl
PCE	Tetrachloroethene (or perchloroethene)
PP	Proposed plan
RA	Remedial action
RAB	Restoration Advisory Board
RAP	Remedial action plan
RAWP	Removal action work plan
RASO	Radiological Affairs Support Office
RCA	Radiologically controlled area
RD	Remedial design
RI	Remedial investigation
ROD	Record of decision
RTC	Response to comments
SEBS	Supplemental environmental baseline survey
SFUSD	San Francisco Unified School District
Shaw	Shaw Environmental, Inc.
SI	Site inspection
SMP	Site Management Plan
SSPORTS	Supervisor of Shipbuilding, Conversion, and Repair, Portsmouth, Virginia, Environmental Detachment, Vallejo
SVOC	Semivolatile organic compound
SWDA	Solid waste disposal area
TBD	To be determined
TCE	Trichloroethene
Tetra Tech	Tetra Tech EM Inc.
TI	Treasure Island
TIDA	Treasure Island Development Authority
TPH	Total petroleum hydrocarbon
TSCA	Toxic Substances Control Act
USC	<i>United States Code</i>
USCG	U.S. Coast Guard
UST	Underground storage tank
VOC	Volatile organic compound
Water Board	Cal/EPA San Francisco Bay Regional Water Quality Control Board
WWTP	Wastewater treatment plant
YBI	Yerba Buena Island

1.0 INTRODUCTION

This is the annual update to the Naval Station Treasure Island (NAVSTA TI) Environmental Site Management Plan (SMP). The plan provides (1) the annual status of the strategies for the ongoing basewide environmental programs, and (2) an update to the schedules presented in the 1992 Federal Facility Site Remediation Agreement (FFSRA) for NAVSTA TI. The schedules included herein support the Joint California Execution Plan for NAVSTA TI, and the State's use of the EnviroStor deliverable tracking system, which is updated annually by the Department of the Navy (Navy) and the California Environmental Protection Agency (Cal/EPA) Department of Toxic Substances Control (DTSC). This plan reflects the Navy's current site-specific strategies and schedules to achieve site closure in a manner that is consistent with state and federal environmental requirements. The applicable environmental requirements are in programs that include the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) Program, the Petroleum Program, the Polychlorinated Biphenyls (PCB) Program, the Residential Lead-Based Paint (LBP) Program, the Asbestos-Containing Material (ACM) Program, and the Radiological Program. These strategies represent an ongoing closure process of the Installation Restoration (IR) Program; as a result, the strategies and related schedules are subject to change.

The Department of Defense developed the IR Program in 1981 to comply with CERCLA and other federal and state environmental regulatory requirements. The IR Program is specific to military facilities and its purpose is twofold: (1) to identify, investigate, and clean up or control releases of hazardous substances; and (2) to reduce the risk to human health and the environment in a cost effective manner. NAVSTA TI's IR Program consists of two programs: the CERCLA Program and the Petroleum Program. Under the CERCLA Program, environmental investigations and cleanup began on NAVSTA TI in the mid-1980s and continues today. The initial facilitywide Preliminary Assessment/Site Inspection (PA/SI) was conducted in 1987 to identify areas on Treasure Island (TI) and Yerba Buena Island (YBI) that required further investigation. The Navy identified 33 IR sites (24 CERCLA sites, 9 petroleum sites) on TI and YBI.

Since 1987, the CERCLA program has evolved to include the following 24 sites, which are summarized below. The current program status for each site is included on the reverse side of [Figure 1](#).

CERCLA Program Status			
Closed (12 Sites)		Open (12 Sites)	
No Action	28	Undergoing Investigation or Remediation	6, 12, 21, 24, 27, 30, 31, 32, 33
No Further Action	1, 2, 3, 7, 9, 10, 13, 18, 23	On-hold Pending Completion of San Francisco-Oakland Bay Bridge East Span Seismic Safety Project by Caltrans	8, 11, 29
Other (merged into Site 24)	5, 17		

The Petroleum Program includes nine petroleum sites along with numerous underground storage tanks (UST) and fuel lines throughout TI and YBI. Since 1987, many sites have been closed or are currently undergoing evaluation. The following table summarizes the Petroleum Program, though the current program status for each site is included on the reverse side of [Figure 1](#) and in [Appendix A](#).

Petroleum Program Status			
Closed		Open	
Petroleum Sites (8 Sites)	4/19, 14/22, 15, 16, 20, 25	Petroleum Sites (1 Site)	6
UST and Pipeline Sites	Various (see Appendix A for details)	UST and Pipeline Sites (3 Sites)	YF3 and U.S. Coast Guard (USCG) pipelines, and UST 238

This document is organized into two main sections (including this introduction), followed by tables, figures, and three appendices. [Section 2.0](#) provides an overview of the assumptions used to develop the site-specific schedules. These assumptions are driven by Navy contract funding execution plans, fiscal year remedial activities, and document production and review periods. [Table 1](#) shows the durations for standard production and review of the primary and secondary documents to be produced. Additional site-specific detail is provided on the information sheets included in [Appendix A](#) and in the environmental schedule provided in [Appendix B](#).

Completion dates for the forthcoming NAVSTA TI CERCLA documents are summarized by site in [Table 2](#). A summary of Petroleum Program closeout status is provided in [Table 3](#). [Table 4](#) is a schedule change tracking sheet that provides a brief reason for each schedule change reflected in [Table 2](#) and [Appendix B](#). [Appendix C](#) has the responses to agencies comments received on the draft SMP.

The NAVSTA TI Basewide Environmental Cleanup Program is illustrated on [Figure 1](#); the figure depicts the various program sites and transfer parcels on TI and YBI. The current program status for each site is included on the reverse side of [Figure 1](#).

The steps in the environmental closeout strategy for site closure under the CERCLA and Petroleum Programs are illustrated as flowcharts on [Figures 2 and 3](#), respectively. [Figure 4](#) presents the specific closure strategy flowchart for Site 12. [Figures 5 and 6](#) present the timeline for site closure based on the site-specific schedules for the CERCLA and the Petroleum Programs, respectively. The locations of USTs on TI and YBI are shown on [Figures 7 and 8](#), respectively. The status of the PCB program is shown on [Figure 9](#). Transfer-related and environmental baseline survey (EBS) parcels are depicted on [Figure 10](#). The reuse scenarios from the 1996 draft reuse plan are shown on [Figure 11](#). The April 2011 TI/YBI Redevelopment Project Conceptual Land Plan, prepared for Treasure Island Development Authority (TIDA), is shown on [Figure 12](#).

2.0 SCHEDULE ASSUMPTIONS

A list of assumptions for the FFSRA schedule was developed and agreed to by the Base Realignment and Closure Cleanup Team (BCT) for NAVSTA TI. The BCT consists of the Navy, DTSC, the Cal/EPA San Francisco Bay Regional Water Quality Control Board (Water Board) and the U.S. Environmental Protection Agency (EPA). Each of the site-specific schedules is based on these assumptions, which are presented below. The approved production and review periods have been published since July 30, 2004 in the annual “Site Management Plan Naval Station Treasure Island, San Francisco, California,” formerly referred to as the “Environmental Closeout Strategy and Schedules.” [Table 1](#) presents the standard production and review periods for both primary and secondary documents. [Table 2](#) summarizes completion dates, by site, for each step of the CERCLA closure process. These dates reflect the site-specific schedules in [Appendix B](#). [Table 3](#) summarizes the current closure status of sites in the Petroleum Program.

The assumptions below are incorporated into the FFSRA schedule for NAVSTA TI. Any modifications in the assumptions could necessitate a significant change in the schedule.

1. The Navy will reissue updates to the FFSRA schedule annually.
2. If the schedule changes for a document or other activity (such as field work) that is the critical path for subsequent activities or documents, then the schedule for these subsequent activities or documents will be accepted by the BCT. These changes will be documented in a schedule change tracking form ([Table 4](#)).
3. Consistent with the FFSRA, primary documents include remedial investigation (RI) reports, engineering evaluations/cost analyses (EE/CA), action memoranda, feasibility studies (FS), proposed plans (PP), RODs, remedial action plans (RAP), and remedial designs (RD). Findings of suitability to transfer (FOST) will follow the primary document schedule. All other documents are considered secondary.
4. The compliance program schedules are not required by the FFSRA. These compliance programs include Residential LBP, and other programs such as Petroleum, PCBs, and ACM. The Petroleum, PCB, ACM, and Residential LBP Program schedules are included for planning purposes, and are not enforceable by the regulatory agencies.
5. The specific closeout strategy and schedules for Sites 8, 11, and 29, and inactive fuel lines YF3 and USCG are impacted from continued Bay Bridge construction activities performed by the California Department of Transportation (Caltrans) in these areas.
6. In accordance with the FFSRA schedule, all parties have agreed to the following sequential process for the review of all primary documents (see revised production and review periods in [Table 1](#)):
 - A “scoping meeting” is included as a placeholder for the Navy and regulatory agencies to discuss the objectives of the document prior to preparing the document.

- The Navy will be allowed at least a 90-day period to develop internal draft documents.
 - A 30-day period will be provided for the Navy to review internal draft documents.
 - A 60-day period will be provided for the Navy Radiological Affairs Support Office (RASO) to review documents with radiological components.
 - A 14-day period will be included for the Navy to distribute draft documents to the regulatory agencies. For FS, PP, ROD, and FOST documents, a 30-day period will be included for Navy legal review, followed by a 14-day period to distribute the draft documents to the regulatory agencies.
 - A 30-day period will be provided for the regulatory agencies to review draft documents and submit written comments.
 - A 28-day period will be provided for the Navy to prepare preliminary responses to agency review comments received and distribute the responses to regulatory agencies for discussion and concurrence.
 - A “working meeting” is included as a placeholder for the Navy and regulatory agencies to discuss or resolve issues relating to a document. This working meeting may involve presenting the document and receiving or resolving comments submitted by the regulatory agencies.
 - A 30-day period will be provided for the Navy to develop internal final documents and finalize written responses to agency review comments that were submitted within the 30-day comment period.
 - A 10-day period will be included for the Navy to review internal final documents.
 - A 14-day period will be included for the Navy to distribute final documents.
 - A 14-day period will be included for the representatives of the regulatory agencies to accept the final documents. Documents automatically become final if no written comments are received within the 14-day comment period.
7. All parties have agreed to the following sequential process for all secondary documents (see revised production and review periods in [Table 1](#)):
- The Navy will be allowed at least a 30-day period to prepare internal draft documents.
 - A 14-day period will be provided for the Navy to review internal draft documents.
 - A 60-day period will be provided for the Navy RASO to review documents with radiological components.
 - A 7-day period will be included for the Navy to distribute draft documents to the regulatory agencies.
 - A 30-day period will be included for the regulatory agencies to review draft documents and submit written comments.

- A “working meeting” is included as a placeholder for the Navy and regulatory agencies to discuss or resolve issues relating to a document. This working meeting may involve presenting the document and receiving or resolving review comments submitted by the regulatory agency.
 - A 33-day period will be provided for the Navy to develop internal final documents and written responses to agency review comments that were submitted within the 30-day comment period.
 - A 14-day period will be included for the Navy to review internal final documents.
 - A 14-day period will be included for the Navy to distribute final documents.
 - A 14-day period will be provided for the representatives of the regulatory agencies to accept the final documents. Documents automatically become final if no written comments are received within the 14-day comment period.
8. For removal actions (such as a non-time-critical removal action [NTCRA]) other than an emergency response action, the Navy will provide the regulatory agencies with a removal action work plan (RAWP) at least 45 days prior to initiation of the response action. The RAWP will not be subject to the general requirements for primary and secondary documents noted above. The regulatory agencies will have a 14-day period to review and provide comments or notice of concurrence on the RAWP to the Navy. The Navy will provide responses to agency review comments no less than 10 days prior to initiation of the response action.
 9. In general, the following distribution will be followed for all documents, although certain exceptions or additions may apply to specific documents:
 - Regulatory agencies (DTSC, the Water Board, and EPA, the City of San Francisco and its contractors, the Restoration Advisory Board (RAB) co-chair, and the RAB technical focus group will receive copies of primary and secondary documents.
 - Final copies of all primary and secondary documents will be available in the information repositories and are listed in the administrative record.
 10. Time for laboratory analysis and data validation is included in the dates specified for field work.
 11. The current site evaluation criteria will not change significantly to delay the documents or field investigations.
 12. For planning purposes, the durations of the field investigations are assumed to be (1) 90 days for a single-phase event; and (2) 180 days for a multiple-phase event, up to three phases.
 13. For planning purposes, the remedial action (RA) field durations are assumed to be (1) 90 days for a small to medium RA with no groundwater concerns, (2) 250 days for a large RA with no groundwater concerns, and (3) 365 days for an RA with groundwater concerns.

TABLE 1: DOCUMENT PRODUCTION AND REVIEW PERIODS
 Site Management Plan, Naval Station Treasure Island, San Francisco, California

FFSRA Guidelines		Revised Production and Review Periods*#	
Primary Documents^a			
N/A	----	Scoping Meeting	****
Internal Draft	90 ed	Internal Draft	90 ed
Navy Review	15 ed	Navy Technical Review	30 ed ^b
N/A	----	Revise Internal Draft	14 ed ^c
N/A	----	Navy Legal Review	30 ed ^c
Draft	15 ed	Draft	14 ed
Agency Review	60 ed	Agency Review	30 ed
N/A	----	Preliminary Draft RTCs	28 ed ^d
N/A	----	Working Meeting	****
Internal Draft Final	46 ed	Internal Draft Final	----
Navy Review	7 ed	Navy Review	----
Draft Final	7 ed	Draft Final	----
Agency Review	30 ed	Agency Review	----
Internal Final	46 ed	Internal Final	30 ed
Navy Review	7 ed	Navy Review	10 ed
Final	7 ed	Final	14 ed
Total:	330 ed	Total:	290 ed
Secondary Documents^e			
Internal Draft	60 ed	Internal Draft	30 ed
Navy Review	7 ed	Navy Review	14 ed
Draft	7 ed	Draft	7 ed
Agency Review	30 ed	Agency Review	30 ed
N/A	----	Working Meeting	****
Draft Final	30 ed	Draft Final	----
Agency Review	30 ed	Agency Review	----
Internal Final	46 ed	Internal Final	33 ed
Navy Review	7 ed	Navy Review	14 ed
Final	7 ed	Final	14 ed
Total:	224 ed	Total:	142 ed

Notes:

- a Primary documents include remedial investigation reports, engineering evaluations/cost analyses, action memoranda, feasibility studies, remedial designs, proposed plans, and records of decision/remedial action plans. Findings of suitability to transfer will also follow the primary document schedule.
- b Primary or secondary documents with radiological components require a 60-day review by the Navy's Radiological Affairs Support Office.
- c The 14-day revised internal draft and Navy legal review is required for feasibility studies, proposed plans, and records of decision/remedial action plans.
- d The 28-day schedule includes drafting the response to comments, review of responses by Navy, and distribution for agency review.
- e Secondary documents include, but are not limited to, technical memoranda, design strategies, summary reports, sampling and analysis plans, quality assurance project plans, and work plans.
- * The revised document production and review periods were approved by the Base Realignment and Closure Cleanup Team in 2004 ("Environmental Closeout Strategy and Schedules, Naval Station Treasure Island, San Francisco, California," dated July 30, 2004, and published by SulTech). In some cases, standard production and review periods may not be followed.
- # Removal action work plans (RAWP) will be submitted for review at least 45 days prior to initiation of the response action. The regulatory agencies will have a 14-day review period to provide comments or notice of concurrence. The Navy will provide RTCs no less than 10 days prior to initiation of the response action.
- **** Working meetings and scoping meetings are included as placeholders for the Navy and regulatory agencies to discuss a document, receive review comments, or to discuss or resolve issues relating to a document.

ed Elapsed day (or calendar day, as opposed to a working day)
 FFSRA Federal Facility Site Remediation Agreement

N/A Not applicable
 RTC Response to comment

TABLE 2: SUMMARY OF FORTHCOMING CERCLA DOCUMENTS AND PHASES
 Site Management Plan, Naval Station Treasure Island, San Francisco, California

CERCLA Primary Documents	Date Complete	CERCLA Primary Documents	Date Complete
Site 6 (CERCLA)		Site 27	
RI/FS	10/25/12	✓ ROD/RAP	04/20/12
PP/ROD/RAP	05/30/14	RD/RA	12/08/13
RD/RA	09/24/15		
Site 12		Site 30	
✓ RI	06/20/12	Five-Year Review	12/06/14
FS	11/14/13		
PP/ROD/RAP	01/13/16	Site 31	
RD/RA	05/08/18	RD/RA	03/14/13
Site 21		Site 32	
PP/ROD/RAP	10/26/12	PP/ROD/RAP	10/23/14
LUC RD/RAWP	01/29/13		
Site 24		Site 33	
PP/ROD/RAP	09/08/14	RD/RA	11/09/12
RD/RA	08/20/20		

Notes:

PP/ROD/RAP end date is considered the date the ROD is signed.

RD/RA end date is considered the date the RACR is completed.

The "Date Complete" represents the end date of the final document as reflected in the Environmental Schedule in [Appendix B](#).

- ✓ Complete
- CERCLA Comprehensive Environmental Response, Compensation, and Liability Act
- FS Feasibility study
- LUC Land use covenant
- NTCRA Non-time-critical removal action
- PP Proposed plan
- RA Remedial action
- RACR Remedial action completion report
- RAP Remedial action plan
- RAWP Remedial action work plan
- RD Remedial design
- RI Remedial investigation
- ROD Record of decision

TABLE 3: PETROLEUM SITE SUMMARY

Site Management Plan, Naval Station Treasure Island, San Francisco, California

Petroleum Program Site	Water Board Case Number	Associated USTs/ASTs	Closure Report Requests NFA/Closure	Closure Report	Closure Letter Date	Comments
UST 1A, 1E, 368A, and 2C	38D9601 38D9602 38D9603 38D9604	UST 1A UST 1E UST 368A UST 2C	UST Closure	Draft UST Closure Report for UST Sites 1A, 1E and 368A at Naval Station Treasure Island. October 2000. AGS Inc. Draft Summary Report of UST Removals, Naval Station Treasure Island. January 20, 1994. PRC Environmental Management, Inc.	February 25, 2002	Regional Water Board UST case closure letter.
UST 180C, Building 180	38D9605	UST 180C	UST Closure	Final Closure Report Building 180 Request for No Further Action. August 15, 2005. Shaw Environmental, Inc.	October 11, 2005	Regional Water Board UST case closure letter.
Pipeline D4A UST 201	38D9606	Pipeline	Pipeline NFA	Final CAP Inactive Fuel Lines, Naval Station Treasure Island. December 2003. Tetra Tech EM Inc.	February 10, 2004	Regional Water Board NFA ¹ concurrence letter.
		UST 201	UST Closure	Draft Final UST Investigation Report for UST Sites 143, 180C, 201, 227, and 368B at Naval Station Treasure Island. January 2001. AGS Inc. Final CAP Inactive Fuel Lines, Naval Station Treasure Island. December 2003. Tetra Tech EM Inc.	February 10, 2004	Regional Water Board UST case closure letter.
Building 227	38D9607	UST 227	UST Closure	Final Closure Report, Site 227, Request for No Further Action, Naval Station Treasure Island. August 16, 2004. Shaw Environmental, Inc.	September 21, 2004	Regional Water Board UST case closure letter.
UST 368B	38D9608	UST 368B	UST Closure	Final Closure Report UST 368B Request for No Further Action, Naval Station Treasure Island. December 2003. Tetra Tech EM Inc.	December 17, 2003	Regional Water Board UST case closure letter.

¹ USTs with known releases to the environment are closed pursuant to Title 23 of the *California Code of Regulations*. If the UST was used to store heating oil and had a capacity of less than 1,100 gallons or a release has not occurred, the Navy will request NFA and submit a letter to the Regional Water Board for concurrence. For UST sites that have received no further action concurrence, the Navy has demonstrated to the Regional Water Board that no further action is required. For UST sites that have received regulatory closure, the Navy has completed all site investigations and remedial action related to the UST site.

TABLE 3: PETROLEUM SITE SUMMARY (CONTINUED)

Site Management Plan, Naval Station Treasure Island, San Francisco, California

Petroleum Program Site	Water Board Case Number	Associated USTs/ASTs	Closure Report Requests NFA/Closure	Closure Report	Closure Letter Date	Comments
Site 6	38D9609	USTs (240A, 240B, 248A, 248B, 248C, and 248D) ASTs (248, 240)	UST Closure, AST NFA, Site NFA	Final Closure Report Site 06 Request for No Further Action, Naval Station Treasure Island. December 16, 2005. Shaw Environmental, Inc.	TBD	Petroleum program investigations completed, report requesting NFA concurrence submitted, concurrence with NFA not granted. ² Ongoing groundwater monitoring at the site. Navy is planning for additional investigation at USTs 240 and 248.
Sites 14/22	38D9610	ASTs (4, 5, and 456) Existing Decommissioned ASTs (6A, 6B, 6C, 6E, 6F, and 6G) Removed USTs (85, 330A, 330B, 330E, and 330F)	UST Closure AST NFA Site NFA	Final Closure Report Site 14/22 Request for No Further Action, Naval Station Treasure Island. June 13, 2005. Shaw Environmental, Inc.	July 18, 2005	Regional Water Board NFA concurrence letter.
Site 20	38D9611	See UST 225A-D	Site NFA	Final Closure Report Site 20 Request for No Further Action Naval Station Treasure Island. January 2004. Tetra Tech EM Inc.	June 17, 2004	Regional Water Board NFA concurrence letter.
USTs 225 A-D	38D9611	USTs 225 A-D (Site 20)	UST Closure	Final Closure Report Site 20 Request for No Further Action Naval Station Treasure Island. January 2004. Tetra Tech EM Inc.	May 5, 2004	Regional Water Board UST case closure letter.

² Letter dated May 15, 2006, from A. Friedman, Regional Water Board, Water Resource Control Engineer, to Ellen Casados, Navy Remedial Project Manager. Regarding Regional Water Board Staff Comments on Final Closure Report, Site 6, Request for No Further Action, Naval Station Treasure Island, San Francisco.

TABLE 3: PETROLEUM SITE SUMMARY (CONTINUED)

Site Management Plan, Naval Station Treasure Island, San Francisco, California

Petroleum Program Site	Water Board Case Number	Associated USTs/ASTs	Closure Report Requests NFA/Closure	Closure Report	Closure Letter Date	Comments
USCG	38D9612	Pipeline	Pipeline NFA	Final CAP Inactive Fuel Lines, Naval Station Treasure Island. December 2003. Tetra Tech EM Inc.	TBD	Regional Water Board did not concur with NFA and requested additional investigation. ³ Investigation is on hold until completion of the Bay Bridge project. USTs associated with this site are tracked on a separate line.
		UST 270	UST Closure	Final UST Investigation Report, for Former UST Tank Site 270 at Naval Station Treasure Island. August 1999. ERM West. Final CAP Inactive Fuel Lines, Naval Station Treasure Island. December 2003. Tetra Tech EM Inc.	February 10, 2004	Regional Water Board UST case closure letter.
Building 66	38D9613	UST 66	UST Closure	Final Post Construction Summary Report Building 66 Remedial Excavation Naval Station Treasure Island. December 11, 2002. IT Corporation	October 23, 2002	Regional Water Board UST case closure letter.
USTs 204	38D9614	USTs 204 A, B, C, D (no release)	UST NFA	Final Post Construction Summary Report, UST Sites 204, 237, and 238, Naval Station Treasure Island. May 24, 2004. Shaw Environmental, Inc.	June 17, 2004	Regional Water Board NFA concurrence letter.
UST 237	38D9614	UST 237 (previously suspected)	UST NFA	Final Post Construction Summary Report, UST Sites 204, 237, and 238, Naval Station Treasure Island. May 24, 2004. Shaw Environmental, Inc.	June 17, 2004	NFA for UST 237 requested; however, petroleum-impacted soil (likely from the USCG site) remains in the vicinity. Report recommended additional investigation. Since a tank was not present, a case closure letter is not required.

³ Letter date illegible (February 2004) from S. Raker, Regional Water Board Engineering Geologist, to Ellen Casados, Navy Remedial Project Manager, Concurrence on Final Corrective Action Plan (CAP), Inactive Fuel Lines, Naval Station Treasure Island.

TABLE 3: PETROLEUM SITE SUMMARY (CONTINUED)

Site Management Plan, Naval Station Treasure Island, San Francisco, California

Petroleum Program Site	Water Board Case Number	Associated USTs/ASTs	Closure Report Requests NFA/Closure	Closure Report	Closure Letter Date	Comments
Site 25	38D9615	USTs (143A through 143I, and 2B)	UST Closure, Site NFA	Final Closure Report Site 25 Request for No Further Action, Naval Station Treasure Island. December 7, 2005. Shaw Environmental, Inc. Final Addendum to Closure Report Site 25 Request for No Further Action, Naval Station Treasure Island. January 29, 2010. Shaw Environmental, Inc. Targeted Soil Gas Investigation Results and Vapor Intrusion Pathway Evaluation and Site Closure Request Technical Memorandum, Site 25, Naval Station Treasure Island, March 7, 2011. Shaw Environmental, Inc.	October 28, 2011	Petroleum program investigations completed, report requesting NFA concurrence submitted, concurrence with NFA not granted. ⁴ Additional soil samples were collected in 2009 and a final revised request for NFA concurrence was submitted. At the request of the BCT, additional soil gas sampling was conducted in late 2010 and early 2011. The Regional Water Board concurred with NFA for Site 25 in an October 28, 2011 letter.
Pipeline D1B	38D9616	None	Groundwater and Site NFA	Final Addendum to Closure Report, Site D1B, Request for No Further Action for Shallow Soils, Naval Station Treasure Island. February 28, 2006. Shaw Environmental, Inc.	May 15, 2006	Regional Water Board NFA concurrence letter.
		None	Shallow Soil NFA	Final Closure Report, Site D1B, Request for No Further Action for Shallow Soils, Naval Station Treasure Island. April 18, 2005. Shaw Environmental, Inc.	July 20, 2005	Regional Water Board NFA concurrence letter.
Pipeline F2A/F2B	38D9617	USTs (14A and 14B) (suspected removed) ASTs (103 and 104)	UST NFA, AST NFA, Site NFA	Final Closure Report, Sites F2A and F2B, Request for No Further Action, Naval Station Treasure Island. July 15, 2005. Shaw Environmental, Inc.	August 19, 2005	Because tanks are not present, a case closure letter is not required (The Regional Water Board concurred NFA required for USTs and ASTs in a May 9, 2005 letter.).

⁴ Letter dated May 15, 2006, from A. Friedman, Regional Water Board, Water Resource Control Engineer, to Ellen Casados, Navy Remedial Project Manager. Regarding Regional Water Board Staff Comments on Final Closure Report, Site 25, Request for No Further Action, Naval Station Treasure Island, San Francisco.

TABLE 3: PETROLEUM SITE SUMMARY (CONTINUED)

Site Management Plan, Naval Station Treasure Island, San Francisco, California

Petroleum Program Site	Water Board Case Number	Associated USTs/ASTs	Closure Report Requests NFA/Closure	Closure Report	Closure Letter Date	Comments
Site 15	38D9618	None	AST and Site NFA	Final Closure Report, Site 15, Request for No Further Action, Naval Station Treasure Island. September 15, 2004. Shaw Environmental, Inc.	September 27, 2004	No USTs are associated with this site.
		None	Shallow Soil NFA	Final Post Construction Summary Report, Site 15 Remedial Excavation, Naval Station Treasure Island. November 19, 2003. Shaw Environmental Inc.	December 1, 2003	Regional Water Board NFA concurrence letter.
UST QR08, 230, and 257	38D9701	UST QR08	UST Closure	Underground Storage Tank Removal Summary Report for Tanks 248A, 248B, 257, QTR8, 180D, and 180E Naval Station Treasure Island. March 1997. Navy. Draft Tank Removal Summary Report, Naval Station Treasure Island, California. August 31, 1990. PRC Environmental Management, Inc. (Includes UST 230 TI.)	October 3, 1997	Regional Water Board UST case closure letter.
	38D9702	UST 230 (TI)				
	38D9703	UST 257				
UST 1B, 1C, 1D, 1F, 2A, 2D, 111, 169, 180A, 180B, 300D, and 330C	38D9704	UST 1B	UST Closure	Report on Abandoned Underground Storage Tank Investigation at Naval Station Treasure Island. April 1989. ERM West.	July 22, 1996	Regional Water Board UST case closure letter.
	38D9704	UST 1C				
	38D9704	UST1D				
	38D9705	UST 1F				
	38D9706	UST 2A				
	38D9707	UST 2D				
	38D9708	UST 330C				
	38D9708	UST 330D				
	38D9709	UST 180A				
	38D9709	UST 180B				
	38D9710	UST 111				
38D9711	UST 169					
UST 469 (1G)	UTOO3878	UST 469	City and County of San Francisco UST Closure UST Closure	Draft Final UST Closure Report at Building 369, Naval Station Treasure Island. May 2000. AGS Inc.	July 7, 2000	City and County of San Francisco UST Closure letter.

TABLE 3: PETROLEUM SITE SUMMARY (CONTINUED)

Site Management Plan, Naval Station Treasure Island, San Francisco, California

Petroleum Program Site	Water Board Case Number	Associated USTs/ASTs	Closure Report Requests NFA/Closure	Closure Report	Closure Letter Date	Comments
UST 238 (YBI)	--	UST 238 (YBI)	UST Closure	--	TBD	Suspected tank in USCG Site. Ground-penetrating radar was inconclusive in search for the tank; further investigation on hold until completion of the Bay Bridge project. ⁵
Pipeline YF3	--	None	Pipeline NFA	--	TBD	Regional Water Board letter received February 12, 2004, requested additional investigation. Investigation is on hold until completion of the Bay Bridge project. The Navy is planning additional investigation.
UST 140, 221, and 230	--	UST 140 (TI) UST 221 (YBI) UST 230 (YBI) (previously suspected)	UST NFA, UST Closure (221)	Final Post Construction Summary Report, UST Sites 140, 221, and 230, Naval Station Treasure Island. May 6, 2004. Shaw Environmental, Inc.	June 17, 2004 Not Received (UST 221)	UST 140: previously suspected tank. Unable to locate with further investigation; Regional Water Board concurred with NFA. UST 230: previously suspected tank. Unable to locate with further investigation; Regional Water Board concurred with NFA. UST 221 located and removed; no evidence of leaking observed. Navy requested closure of UST; Regional Water Board concurred with NFA. Therefore no closure letter required.
Site 16	--	10 Former ASTs	Site NFA	Final Closure Report Site 16 Clipper Cove Tank Farm Request for No Further Action, Naval Station Treasure Island. April 27, 2004. Shaw Environmental, Inc.	June 17, 2004	Regional Water Board NFA concurrence letter.

⁵ Letter dated June 17, 2004, from S. Raker, Regional Water Board Engineering Geologist, to Ellen Casados, Navy Remedial Project Manager. Regarding Concurrence on Request for No Further Action, USTs 204 and 237, Naval Station Treasure Island, San Francisco.

TABLE 3: PETROLEUM SITE SUMMARY (CONTINUED)

Site Management Plan, Naval Station Treasure Island, San Francisco, California

Petroleum Program Site	Water Board Case Number	Associated USTs/ASTs	Closure Report Requests NFA/Closure	Closure Report	Closure Letter Date	Comments
Pipeline YF2	--	None	Pipeline NFA	Final Post Construction Summary Report, YF2, Naval Station Treasure Island San Francisco. June 2, 2004. Shaw Environmental, Inc.	June 17, 2004	Regional Water Board NFA concurrence letter.
Pipeline D1A	--	None	Pipeline NFA	Final CAP Inactive Fuel Lines, Naval Station Treasure Island. December 2003. Tetra Tech EM Inc.	February 10, 2004	Regional Water Board NFA concurrence letter.
Pipeline D1C	--	None	Pipeline NFA	Final CAP Inactive Fuel Lines, Naval Station Treasure Island. December 2003. Tetra Tech EM Inc.	February 10, 2004	Regional Water Board NFA concurrence letter.
Pipeline D2A	--	UST 26 (suspected removed)	Pipeline/UST NFA	Final CAP Inactive Fuel Lines, Naval Station Treasure Island. December 2003. Tetra Tech EM Inc.	February 10, 2004	Regional Water Board NFA concurrence letter.
Pipeline D2B	--	None	Pipeline NFA	Final CAP Inactive Fuel Lines, Naval Station Treasure Island. December 2003. Tetra Tech EM Inc.	February 10, 2004	Regional Water Board NFA concurrence letter.
Pipeline D4B	--	UST 29 (suspected removed)	Pipeline/UST NFA	Final CAP Inactive Fuel Lines, Naval Station Treasure Island. December 2003. Tetra Tech EM Inc.	February 10, 2004	Regional Water Board NFA concurrence letter.
Pipeline D5	--	UST 15 (suspected removed)	Pipeline/UST NFA	Final CAP Inactive Fuel Lines, Naval Station Treasure Island. December 2003. Tetra Tech EM Inc.	February 10, 2004	Regional Water Board NFA concurrence letter.
Pipeline YF1	--	None	Pipeline NFA	Final CAP Inactive Fuel Lines, Naval Station Treasure Island. December 2003. Tetra Tech EM Inc.	February 10, 2004	Regional Water Board NFA concurrence letter.
Site 4/19	--	None	Site NFA	Final Closure Report Site 04/19 Request for No Further Action Naval Station Treasure Island. December 2003. Tetra Tech EM Inc.	December 17, 2003	Regional Water Board NFA concurrence letter.
Facilitywide UST	--	16 previously suspected USTs	UST NFA	Final Facilitywide Underground Storage Tank Summary Report, Naval Station Treasure Island. October 2003. Tetra Tech EM Inc.	December 2, 2003	Regional Water Board NFA concurrence letter.

TABLE 3: PETROLEUM SITE SUMMARY (CONTINUED)

Site Management Plan, Naval Station Treasure Island, San Francisco, California

Petroleum Program Site	Water Board Case Number	Associated USTs/ASTs	Closure Report Requests NFA/Closure	Closure Report	Closure Letter Date	Comments
Home Heating Oil UST 57 and 234	--	UST 57 UST 234	UST NFA	Report on Abandoned Underground Storage Tank Investigation at Naval Station Treasure Island. April 1989. ERM West.	September 5, 2003	Regional Water Board NFA concurrence letter.
Parcel T086	--	None	Site NFA	Final Post Construction Summary Report Parcel T086 Exploratory Trenching Naval Station Treasure Island. June 11, 2003. Shaw Environmental, Inc.	July 9, 2003	Regional Water Board NFA concurrence letter.
Building 530 Pipeline	--	None	Pipeline NFA	Final Post Construction Summary Report Building 530 Pipeline Removal and Closure Naval Station Treasure Island. June 11, 2003. IT Corporation.	July 9, 2003	Regional Water Board NFA concurrence letter.
Causeway Pipeline	--	None	Pipeline NFA	Final Post Construction Summary Report Causeway Pipeline Removal and Closure Naval Station Treasure Island. January 20, 2003. IT Corporation.	March 11, 2003	Regional Water Board NFA concurrence letter.
Home Heating Oil UST 1-7, 9, 10, 62, and 240	--	UST 1-7, 9, 10, 62, and 240	UST NFA	Summary of the Closure-in-Place of Eleven Underground Home Heating Oil Tanks at Yerba Buena Island, Naval Station Treasure Island. December 31, 1996. Navy.	July 23, 2002	Regional Water Board NFA concurrence letter.
UST 180D and 180E	--	UST 180D and 180E (no release)	UST NFA	Underground Storage Tank Removal Summary Report for Tanks 248A, 248B, 257, QTR8, 180D, and 180E Naval Station Treasure Island. March 1997. Navy.	October 3, 1997	Regional Water Board NFA concurrence letter.

Notes: Gray shading indicates action required. **Bold text** indicates sites that are not closed.

AST	Aboveground storage tank	TBD	To be determined
Bay Bridge	San Francisco-Oakland Bay Bridge	TI	Treasure Island
CAP	Corrective Action Plan	USCG	U.S. Coast Guard
ERM West	Environmental Resources Management West, Inc.	UST	Underground storage tank
GPR	Ground penetrating radar	Water Board	Cal/EPA San Francisco Bay Regional Water Quality Control Board
N/A	Not applicable	YBI	Yerba Buena Island
NFA	No further action		

TABLE 4: SCHEDULE CHANGE TRACKING FORM – DECEMBER 2011 THROUGH SEPTEMBER 2012

Site Management Plan, Naval Station Treasure Island, San Francisco, California

Site	Item(s)	Schedule ID No.	December 2011 SMP Finish Date	September 2012 SMP Finish Date	Change*	Change in Months	Reason	Initiator
CERCLA Program								
Site 6	RI / FS Report	157	04/13/12	10/25/12	Updated	6	Delays in agency review and responding to agency comments	All
	PP / Draft RAP	199	02/20/13	06/14/13	Updated	4	Delay in contracting the PP/Draft RAP	Navy
Site 12	RI Report	500	03/25/12	06/20/12	Updated, Completed	3	Additional agency comments received; delay responding to agency comments	All
	SWDA A&B Phase II and Phase III Work Plans / Field Work / RACR / FSS	654	09/16/14	09/22/14	Updated	2 weeks	SWDA A&B Units 1 through 5 were combined into one A&B unit with three phases of work	Navy
	Bayside / North Point Phase I PCSR	665	03/21/12	11/02/12	Updated	8	Delays caused by Navy review and document preparation	Navy/ Contractor
	Bayside / North Point Phase II Work Plan / Field Work / RACR / FSS	692	04/12/15	09/22/14	Updated	7	Bayside / North Point will be addressed concurrently to SWDA A&B; previous SMP that had them in sequence	Navy
	Recreational Area Characterization Survey Work Plan / Field Work / FSS	720	--	09/05/14	Added	--	Additional investigation of this area was recommended in the HRASTM	Navy
	Site-wide Site 12 (non-SWDA) Radiological Scoping Survey / Field Work / PCSR (includes Building 3, Pandemonium Sites I&II, Building 233 drain lines)	747	12/26/13	07/18/14	Updated	7	Delay in contracting; areas recommended in the HRASTM were added to the scope	Navy
	Bigelow Court NTCRA Work Plan	806	05/27/12	01/25/14	Updated	20	Delays due to contractual limitations; new line for document / contract added	Navy/ Contractor
	Building 1311 / 1313 Soil Gas Investigation Field Work / Data Analysis	824	--	10/07/12	Added, Completed	--	Additional investigation of soil gas impacts was determined necessary	Navy
	Backyard Investigation	--	08/06/11	--	Removed	--	Removed; any data gaps sampling recommended in the final Site 12 RI report will be conducted as pre-FS sampling	Navy

TABLE 4: SCHEDULE CHANGE TRACKING FORM – DECEMBER 2011 THROUGH SEPTEMBER 2012 (CONTINUED)

Site Management Plan, Naval Station Treasure Island, San Francisco, California

Site	Item(s)	Schedule ID No.	December 2011 SMP Finish Date	September 2012 SMP Finish Date	Change*	Change in Months	Reason	Initiator
CERCLA Program								
Site 12 (Cont'd)	Pre-FS Sampling Work Plan and Field Work	837	--	04/07/13	Added	--	Sampling will be conducted to fill data gaps prior to conducting the FS	Navy
	FS	850	05/15/13	11/14/13	Updated	6	Delay in the final RI report and data gaps sampling is also necessary	Navy/ Contractor
	PP / ROD / RAP	880	09/08/18	01/13/16	Earlier	32	Navy anticipates accelerated funding for Site 12 RD / RA	Navy
	RD / RA (RACR)	905	01/01/21	05/08/18	Earlier	29		
Site 21	Soil Gas Investigation Field Work / Data Analysis	971	01/04/12	03/19/12	Updated, Completed	2.5	Step-out sampling required; delay in issuing HHRA addendum report and signature of the ROD / RAP	Navy/ Contractor
	Soil Gas HHRA Addendum	980	05/17/12	10/26/12	Updated	5		
	ROD / RAP	1009	05/21/12	10/26/12	Updated	5		
	LUC RD / RAWP	1020	01/25/13	01/29/13	Updated	days	Selected alternative in the ROD / RAP was LUCs; thus the RD was initiated sooner and a five-year review replaced a RACR	Navy
Annual LUC Inspections and Five-Year Review	1032	06/21/18	10/26/17	Earlier	8			
Site 24	Phase III Expanded Treatability Study Report	1119	10/18/13	11/02/13	Updated	0.5	Durations of treatability study and document review times were lengthened	Navy/ Contractor
	ROD / RAP	1161	09/06/14	09/08/14	Updated	days	Linking error in 2011 SMP schedule	Navy
Site 27	ROD / RAP	1255	04/09/12	04/20/12	Updated, Completed	0.5	Delay in receiving agency comments	BCT
	RD / RA (RACR)	1305	08/01/13	12/08/13	Updated	4	Delay in contracting the RD	Navy
Site 30	2012 LUC Inspection and Report	1576	06/13/12	05/30/12	Earlier, Completed	0.5	Task was started earlier	Navy
	Radiological Scoping Survey Work Plan / Survey / FSS (includes Lot 69 and Building 342)	1642	--	03/12/15	Added	--	Additional investigation of these areas was recommended in the HRASTM	Navy
Site 31	Phase II Remedial Action Work Plan	1766	12/23/11	01/30/12	Updated, Completed	1	Delay in finalizing the work plan	All
	Site 31 Remedial Action Field Work / RACR	1786	10/20/12	03/14/13	Updated	5		

TABLE 4: SCHEDULE CHANGE TRACKING FORM – DECEMBER 2011 THROUGH SEPTEMBER 2012 (CONTINUED)

Site Management Plan, Naval Station Treasure Island, San Francisco, California

Site	Item(s)	Schedule ID No.	December 2011 SMP Finish Date	September 2012 SMP Finish Date	Change*	Change in Months	Reason	Initiator
CERCLA Program (Continued)								
Site 31 (Cont'd)	Site 31 FSS	1797	10/20/12	06/07/13	Updated	7.5	Delay in finalizing the work plan; document was previously called a gamma walk over survey and was concurrent with the RACR	All
Site 32	ROD / RAP	1850	03/10/12	10/23/14	Updated	31	Additional investigation of this area was recommended in the HRASTM; the ROD / RAP will be completed following the radiological scoping survey	Navy
	Radiological Scoping Survey / Work Plan / FSS (to be conducted with site-wide Site 12 scoping survey)	1878	--	07/18/14	Added	--		
Site 33	Remedial Action Work Plan	1914	12/23/11	01/30/12	Updated, Completed	1	Delays in addressing agency comments	Navy/ Contractor
	Site 33 Remedial Action Field Work / RACR	1934	08/31/12	12/07/12	Earlier	2	Extended time in the field	Navy/ Contractor
	Site 33 FSS	--	10/20/12	--	Removed	--	Document was previously called a gamma walkover survey; however, a FSS is not necessary for Site 33	Navy
Petroleum Program								
Site 6 (UST 240)	Additional Investigation Work Plan / Field Work / PCSR	2136	09/26/12	05/09/13	Updated	7.5	Delay in receiving Navy comments, preparing the draft, and receiving and addressing agency comments	All
YF3	Screening-Level Ecological Risk Assessment (SLERA)	2207	--	11/18/13	Added	--	A SLERA was recommended for the YF3 pipeline area	All
Residential Lead-Based Paint								
YBI	Lead-Based Paint Reevaluation	2415	12/31/12	04/04/13	Updated	4	Schedule for TI and YBI lead-based paint re-evaluations were separated	Navy
TI	Lead-Based Paint Reevaluation	2425	--	4/23/20	Added	--		
Radiological Program								
Building 233	Footprint Remediation, Characterization, and FSS Work Plan / Survey / FSS	2496	11/28/12	02/26/13	Updated	3	Delay in finalizing work plan and contracting for sanitary line removal	All

TABLE 4: SCHEDULE CHANGE TRACKING FORM – DECEMBER 2011 THROUGH SEPTEMBER 2012 (CONTINUED)

Site Management Plan, Naval Station Treasure Island, San Francisco, California

Site	Item(s)	Schedule ID No.	December 2011 SMP Finish Date	September 2012 SMP Finish Date	Change*	Change in Months	Reason	Initiator
Radiological Program (Continued)								
Basewide (Treasure Island)	Historical Radiological Assessment Supplemental Technical Memo (HRASTM)	2554	07/04/12	12/10/12	Updated	5	Delay in contracting and research and preparation of the draft	Navy/ Contractor
Building 3	Radiological Scoping Survey Work Plan / Survey / FSS	2576	--	08/28/13	Added	--	Additional investigation of this area was recommended in the HRASTM	Navy
Groundwater Monitoring Program								
Sites 6 and 12	2011 Annual Groundwater Monitoring Report	2685	04/24/12	10/11/12	Updated	5.5	Delay in document initiation, receiving and addressing agency comments	All
Sites 21 and 24	2011 Annual Groundwater Monitoring Report	2700	06/23/12	07/30/12	Updated; Completed	1	Delay in addressing internal comments	Navy/ Contractor
Transfer Related								
Basewide	Finding of Suitability to Transfer (FOST) 4	3398	12/21/12	01/25/13	Updated	1	Detailed schedule was added; FOSTs 5 through 8 were added	Navy
	Covenant to Restrict Use of Property (multiple)	3455	--	01/01/13	Added	--	DTSC requested CRUPs be added to the SMP for upcoming transfers	DTSC

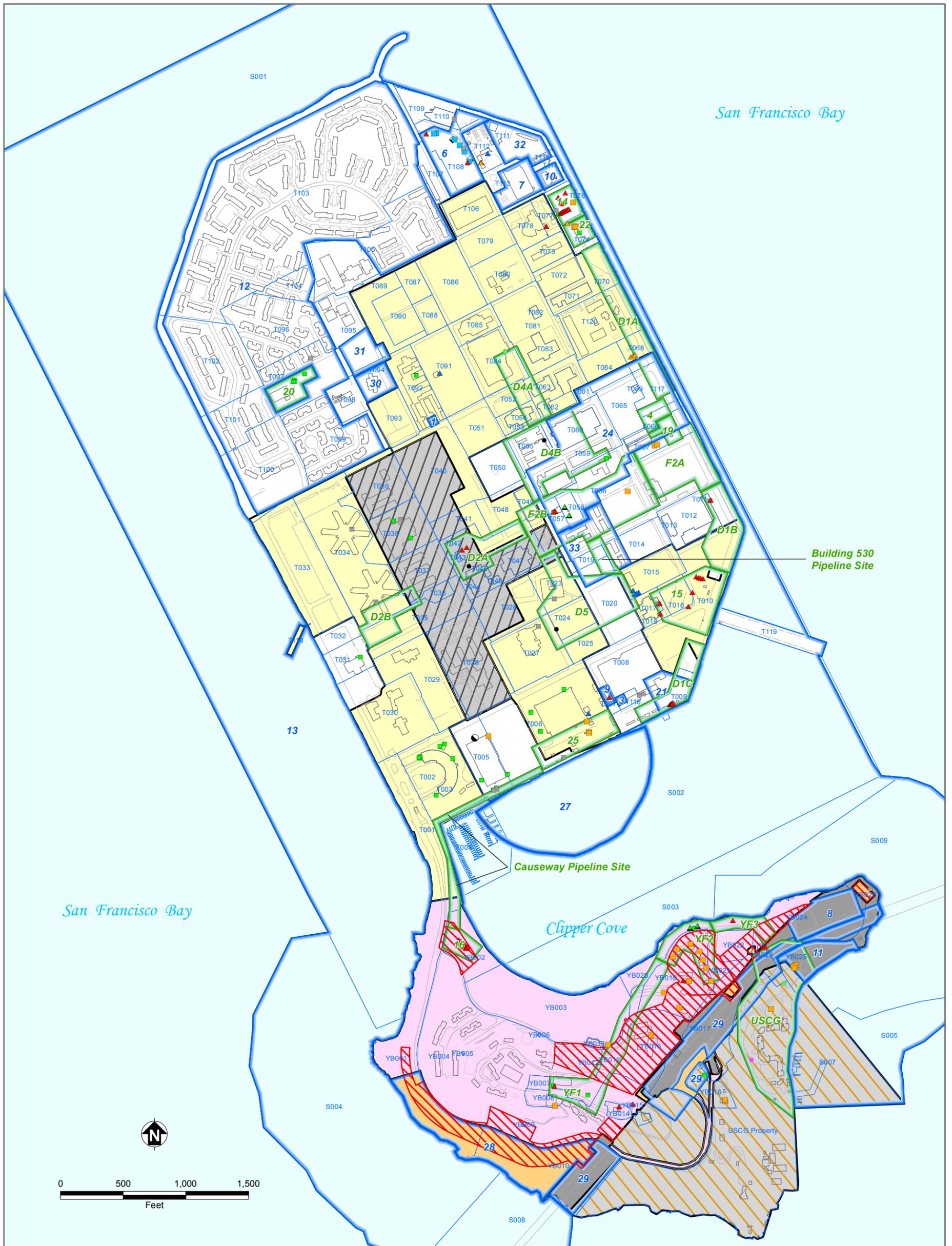
Notes:

* Items in this table are reflective of fundamental changes of site milestone scheduling since the issuance of the "Site Management Plan, Naval Station Treasure Island, San Francisco, California," dated December 2011, and published by Tetra Tech EM Inc.

-- Not applicable; document not previously listed in the December 2011 schedule, duration remains unchanged, or document or activity was cancelled.

BCT	Base Realignment and Closure Cleanup Team	PCSR	Post-construction summary report
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act	PP	Proposed plan
CRUP	Covenant to restrict use of property	RA	Remedial action
DTSC	Department of Toxic Substances Control	RACR	Remedial action completion report
FFSRA	Federal Facilities Site Remediation Agreement	RAP	Remedial action plan
FOST	Finding of suitability to transfer	RD	Remedial design
FS	Feasibility study	RI	Remedial Investigation
FSS	Final status survey	ROD	Record of decision
HHRA	Human health risk assessment	SMP	Site management plan
HRASTM	Historical radiological assessment supplemental technical memorandum	SWDA	Solid waste disposal area
LUC	Land use covenant	UST	Underground storage tank
NTCRA	Non-time critical removal action		

FIGURES



<p>TRANSFER PARCELS:</p> <ul style="list-style-type: none"> TI FOST Property (FOST 1) YBI FOST Property (FOST 2) YBI FOST Property (FOST 3) Pre-Closing Parcels Caltrans Property Job Corps Property U.S. Coast Guard Property EBS Parcel <p>INVESTIGATION SITES:</p> <ul style="list-style-type: none"> Petroleum Program Sites CERCLA Program Sites Building Road Edge 	<p>UNDERGROUND STORAGE TANKS:</p> <ul style="list-style-type: none"> Closed Closed via Inactive Fuel Lines CAP Further Investigation NFA Concurrence NFA via Inactive Fuel Lines CAP NFA Requested Never Existed <p>ABOVEGROUND STORAGE TANKS:</p> <ul style="list-style-type: none"> Closed-in-Place Active Inactive Removed <p>OIL-WATER SEPARATORS:</p> <ul style="list-style-type: none"> Potential Removed 	<p>Notes:</p> <ul style="list-style-type: none"> Caltrans California Department of Transportation CAP Corrective Action Plan CERCLA Comprehensive Environmental Response, Compensation, and Liability Act EBS Environmental baseline survey FOST Finding of suitability to transfer NFA No further action TI Treasure Island USCG United States Coast Guard YBI Yerba Buena Island <p>1. All areas on TI and YBI are untransferred, except for the Job Corps, Caltrans, and U.S. Coast Guard properties. This also includes the submerged area south of Parcel 1.</p> <p>(See Figures 7 and 8 for individual tank identification and location.)</p>	
---	--	---	---

Naval Station Treasure Island
Department of the Navy, BRAC PMO West, San Diego, CA

FIGURE 1
CERCLA SITES, PETROLEUM SITES,
AND TRANSFER PARCELS

Site Management Plan 2012

**NAVAL STATION TREASURE ISLAND
CERCLA AND PETROLEUM RELATED SITE INFORMATION**

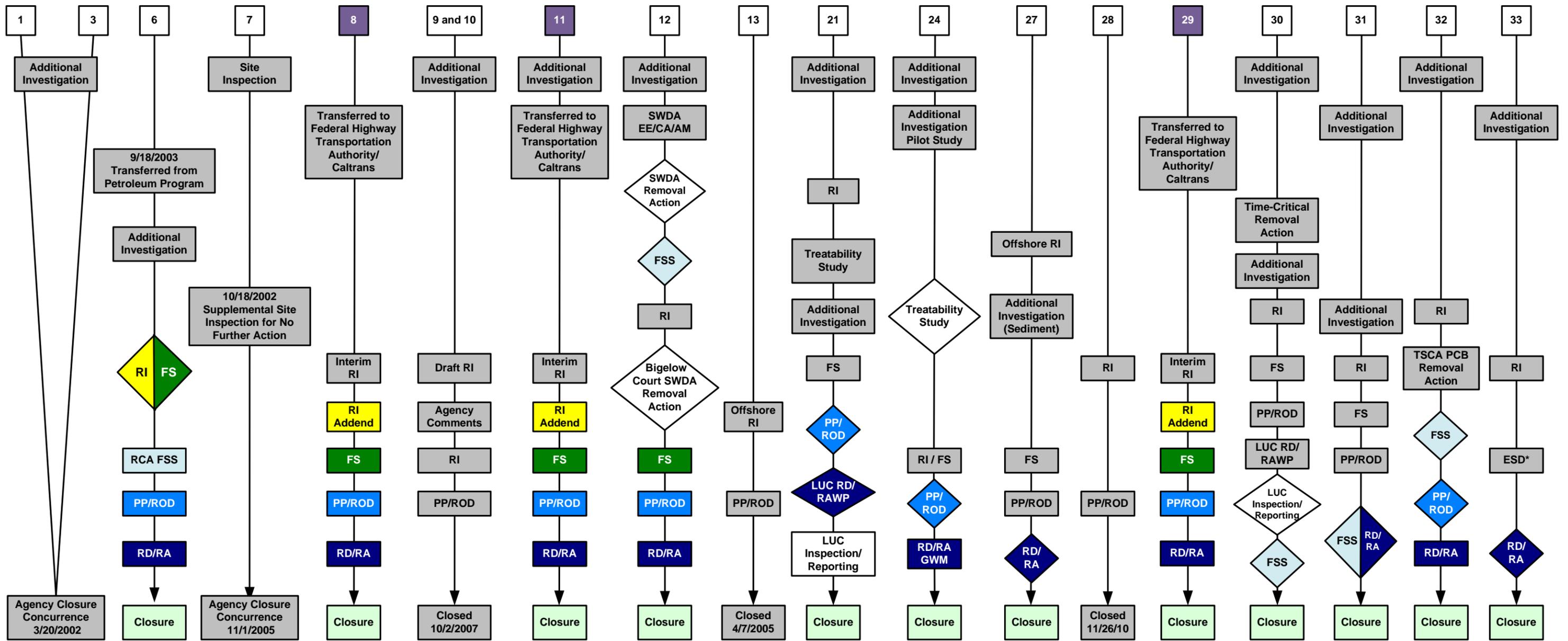
CERCLA SITE	SITE DESCRIPTION	CONTAMINANTS OF CONCERN	STATUS
Site 1	Medical Clinic – X-ray and photo processing laboratory was on site.	Silver	Site closed. Received agency concurrence on March 20, 2002.
Site 2	Radiation Training Area	Radionuclides	Site closed. Site recommended for NFA in 1988 Final PA/SI.
Site 3	PCB Equipment Storage Area – Area was used to store and repair transformers.	PCBs	Site closed. Received agency concurrence on March 20, 2002.
Site 5	Old Boiler Plant – Facility was incorporated into Site 24.	Petroleum	Site closed. Merged into Site 24 by letter dated January 17, 2001.
Site 6	Fire Training School – Area was used for Navy firefighting training for nearly 50 years.	Dioxins and furans, TPH, VOCs, PAHs	Transferred from Petroleum Program on September 18, 2003. Additional investigation (data gap investigation) is complete. RI/FS report being prepared.
Site 7	Pesticide Storage Area – Area was used to store pesticides, herbicides, and paint.	Metals, pesticides, herbicides	Site closed. Received agency concurrence on November 1, 2005.
Site 8	Army Point Sludge Disposal Area - Area was used to dispose of sludge from the wastewater treatment plant for approximately 8 years.	SVOCs and metals	Interim RI report for Sites 8 and 29 submitted March 6, 2009.
Site 9	Foundry – Area was used as a forge and foundry, paint shop, and welding school.	Iron, benzo(a)pyrene, dibenz(a,h)anthracene	Site closed. No Action ROD signed October 2, 2007.
Site 10	Bus Painting Shop – Shop was used for bus painting, paint mixing, storage of pest control solutions.	Iron, benzo(a)pyrene, dibenz(a,h)anthracene	Site closed. No Action ROD signed October 2, 2007.
Site 11	YBI Landfill – Area was used as a landfill for various debris.	TPH, PAHs, VOCs, metals	Interim RI report was submitted January 27, 2010.
Site 12	Old Bunker Area – Area housed ammunition bunkers, and areas for equipment storage, refuse, and solid waste incineration. Later military housing construction and earth work spread contaminants in surface soil across site.	PCBs, TPH, PAHs, dioxins, arsenic, lead, radium-226 and debris	Non-time critical removal action in solid waste disposal areas underway. RI report was finalized in June 2012. Pre-FS sampling investigation is being prepared.
Site 13	Stormwater Outfalls/Offshore Sediments – Stormwater system conveys water from surface and building drains to the Bay without treatment, and offshore sediments may be contaminated from onshore sites.	Metals, PAHs, PCBs, DDT, TPH	Site closed. No Action ROD signed April 7, 2005.
Site 17	Tanks 103/104 – Two 200,000-gallon aboveground diesel storage tanks were incorporated into Site 24.	Petroleum, oil, lubricants, PCBs	Site closed. Merged into Site 24 by letter dated January 17, 2001.
Site 18	Possible asbestos contamination on YBI was incorporated into asbestos investigations.	Asbestos	Site closed.
Site 21	Vessel Waste Oil Recovery Area – Area was used as an oil-water separator facility and for aircraft maintenance.	VOCs and TPH	Soil gas investigation completed in February 2012. ROD and HHRA addendum are being finalized. LUC RD/RAWP is being prepared.
Site 23	YBI fuel line rupture/land slide was not recommended for further remedial investigation.	NA	Site closed.
Site 24	Dry Cleaning Facility – Area was used as a laundry and dry cleaning facility for at least 35 years.	Petroleum, oil, lubricants, chlorinated solvents	Treatability study of plume area in operation. Soil gas investigation completed.
Site 27	Clipper Cove Skeet Range – Skeet range was operated for 10 years.	Lead shot, lead, PAHs	ROD signed March 28, 2012. Remedial design is being prepared.
Site 28	West Side On/Off Ramp – Maintenance of ramps included use of lead-based paint.	Lead	ROD signed November 22, 2011.
Site 29	East Side On/Off Ramp – Maintenance of ramps included use of lead-based paint.	Lead and SVOCs	Interim RI report for Sites 8 and 29 submitted March 6, 2009.
Site 30	Daycare Center – Area was undeveloped until 1985 when daycare facility was constructed. Includes burn debris burial areas.	Dioxins and metals	ROD signed August 5, 2009. Land use controls inspections ongoing. Radiological scoping survey is being planned.
Site 31	Former South Storage Yard – Area appears in aerial photos to have been used as a storage yard during the 1970s.	Lead, dioxin, PAH, PCBs, TPH, radium-226	ROD signed August 5, 2009. Remedial action ongoing.
Site 32	Former Training and Storage Area – Area was used for hazardous materials storage and for tear gas training area and storage. Contains a transformer pad.	PCBs, TPH, dioxins, pesticides, arsenic	Radiological scoping survey is being planned.
Site 33	Water Line Replacement Area – Area where debris was observed in water line trench during extensive historical repairs.	Arsenic and lead	Explanation of Significant Differences was finalized May 2011. Remedial action ongoing.
PETROLEUM-RELATED SITE	SITE DESCRIPTION	CONTAMINANTS OF CONCERN	STATUS
Site 4/19	Hydraulic Training School/Refuse Transfer Area – Area housed 15 55-gallon drums of waste oil, and fenced area used for the transfer, holding, and disposal of refuse for approximately 35 years.	Petroleum, oil, lubricants	NFA concurrence letter received from Water Board dated December 17, 2003.
Site 6	Fire Training School – Area was used for Navy firefighting training for nearly 50 years.	Dioxins and furans, TPH, VOCs, PAHs	Closure report requesting NFA submitted December 16, 2005. Water Board did not concur with request for NFA. Moved to CERCLA Program on September 18, 2003. Groundwater monitoring to be conducted under CERCLA Program. UST 240s investigation is being planned.
Site 14/22	New Fuel Farm/Navy Exchange Service Station – Area was the primary storage and distribution area for fuels for more than 50 years.	Petroleum, oil, lubricants, VOCs	NFA concurrence letter received from Water Board dated July 18, 2005.
Site 15	Old Fuel Farm – Original fuel storage and distribution facility, much of which was moved to New Fuel Farm by 1945.	Petroleum, oil, lubricants	NFA concurrence letter received from Water Board dated September 2004.
Site 16	Clipper Cove Tank Farm – Area stored aviation gasoline and automotive diesel for more than 20 years.	Petroleum, oil, lubricants	NFA concurrence letter received from Water Board dated June 17, 2004.
Site 20	Auto Hobby Shop/Transportation Center – Area has been used for steam cleaning and degreasing vehicles and for storage of hydraulic fluid and recycled oil.	Petroleum, oil, lubricants, VOCs	NFA concurrence letter received from Water Board dated June 17, 2004.
Site 25	Seaplane Maintenance Area – Three areas are used for storing and maintaining vehicles and seaplanes.	Petroleum, oil, lubricants	NFA concurrence letter received from Water Board dated October 28, 2011.
Pipeline Sites	Inactive fuel pipelines.	Petroleum	NFA concurrence letters for selected pipelines sites received from Water Board on various dates; further investigation and site completion are planned for YF3 and USCG.
UST Sites (Site 26)	Underground storage tanks.	Petroleum	Various NFA concurrence letters received; NFA concurrence requested for USTs at Site 6; UST 238 on YBI awaits completion of Caltrans activities.

Notes:

Bay	San Francisco Bay
Caltrans	California Department of Transportation
Cal/EPA	California Environmental Protection Agency
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act
DDT	Dichlorodiphenyltrichloroethane
FS	Feasibility study
LUC	Land use covenant
Metals	Chromium, arsenic, beryllium, thallium, lead, manganese, nickel, and cadmium

NFA	No further action
PAH	Polycyclic aromatic hydrocarbons
PA/SI	Preliminary assessment/site inspection
PCB	Polychlorinated biphenyls
RD/RAWP	Remedial design/remedial action work plan
RI	Remedial investigation
ROD	Record of decision
SVOC	Semivolatile organic compounds

TPH	Total petroleum hydrocarbons
TSCA	Toxic Substances Control Act
USCG	U.S. Coast Guard
UST	Underground storage tank
VOC	Volatile organic compounds
Water Board	Cal/EPA San Francisco Bay Regional Water Quality Control Board
YBI	Yerba Buena Island



Legend:

◊ Shape indicates current ongoing activity, activities below this point are anticipated as of this update.

◻ Shading indicates activity completed

8 Caltrans property

- RI Indicates RI or RI Addendum
- FSS Indicates FSS in accordance with MARSSIM
- FS Indicates FS
- PP/ROD Indicates PP/ROD
- RD/RA Indicates RD/RA
- Closure Indicates Site Closure

Notes:

- AM Action memorandum
- Caltrans California Department of Transportation
- CERCLA Comprehensive Environmental Response, Compensation, and Liability Act
- EE/CA Engineering evaluation / cost analysis
- ESD Explanation of significant differences
- NFA No further action
- FS Feasibility study
- FSS Final status survey
- GWM Groundwater monitoring
- LUC Land use control
- MARSSIM Multi-Agency Radiation Survey and Site Investigation Manual
- PA/SI Preliminary assessment/site inspection
- PCB Polychlorinated biphenyl
- PP Proposed plan
- RA Remedial action
- RCA Radiologically controlled area
- RD Remedial design
- RI Remedial investigation
- ROD Record of decision
- SWDA Solid waste disposal area
- TI Treasure Island
- TSCA Toxic Substances Control Act
- WP Work plan

Flow chart refers to the potential overall site strategy. These strategies represent an ongoing closure process; therefore, they and any related schedules are subject to change. Specific sites may be completed earlier.

* The ESD was written to modify the Site 31 ROD/RAP to include Site 33 as part of the remedy.

Sites 2, 18, and 23 were recommended for NFA in the PA/SI.

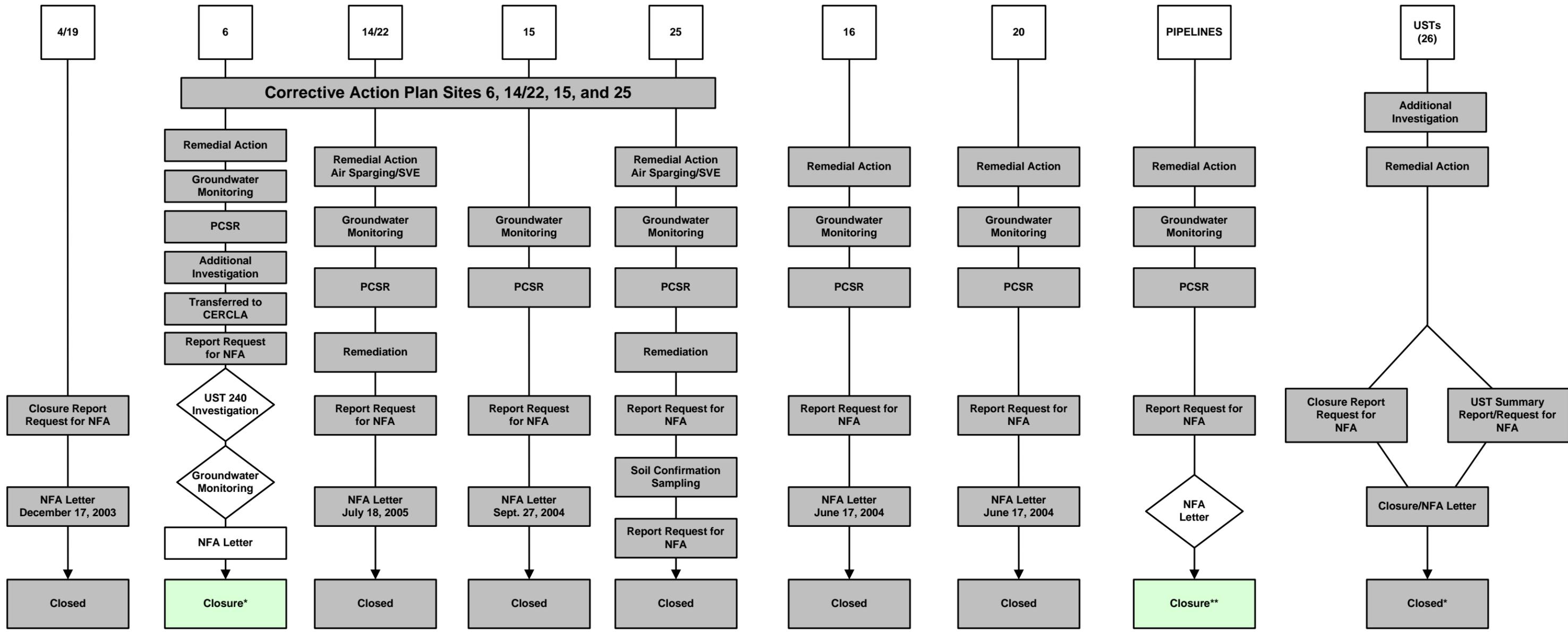
Sites 5 and 17 were merged into Site 24 by letter dated January 17, 2001.

Because of Caltrans activities in the vicinity of Sites 8, 11, and 29, which may result in the removal of known contamination, standard CERCLA schedules are based on Caltrans' quarterly schedule. The Navy finalized the interim RI reports for these sites.



Naval Station Treasure Island
 Department of the Navy, BRAC PMO West, San Diego, CA

FIGURE 2
CERCLA PROGRAM SITE STRATEGY
FLOW CHART
 Site Management Plan 2012



Legend:

- Shape indicates current ongoing activity, activities below this point are anticipated as of this date.
- Shading indicates activity completed
- Report Request for NFA Indicates Report and Request for No Further Action
- NFA Letter Indicates No Further Action Concurrence Letter
- Closure Indicates Site Closure

Notes:
 Caltrans California Department of Transportation.
 FOSET Finding of suitability for early transfer
 FOST Finding of suitability to transfer
 NFA No further action
 PA/SI Preliminary assessment/site inspection
 PCSR Post-construction summary report
 SVE Soil vapor extraction
 TI Treasure Island
 USCG United States Coast Guard
 UST Underground storage tank
 YBI Yerba Buena Island

Flow chart refers to the potential overall site strategy. These strategies represent an ongoing closure process; therefore, they, and any related schedules, are subject to change. Specific sites may be completed earlier.

* Work has been completed at six USTs on TI, including 240A, 240B, and 248A through 248D (Site 6). These tanks were proposed for closure in the site closure report; however, further investigations are planned for the areas surrounding the former UST 240A and 240B.

** Additional investigation is being planned for pipeline Site YF3 and USCG Site.



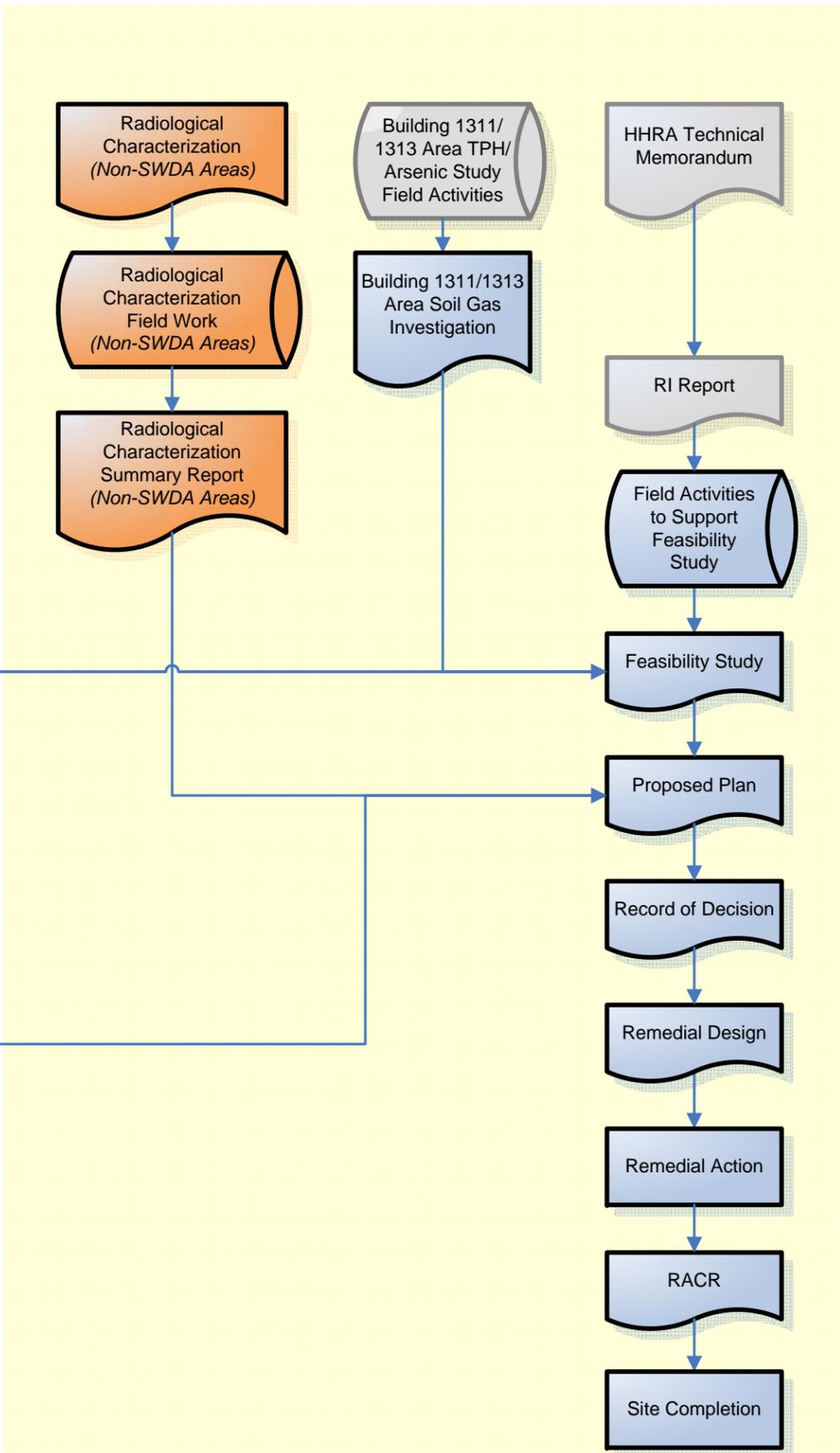
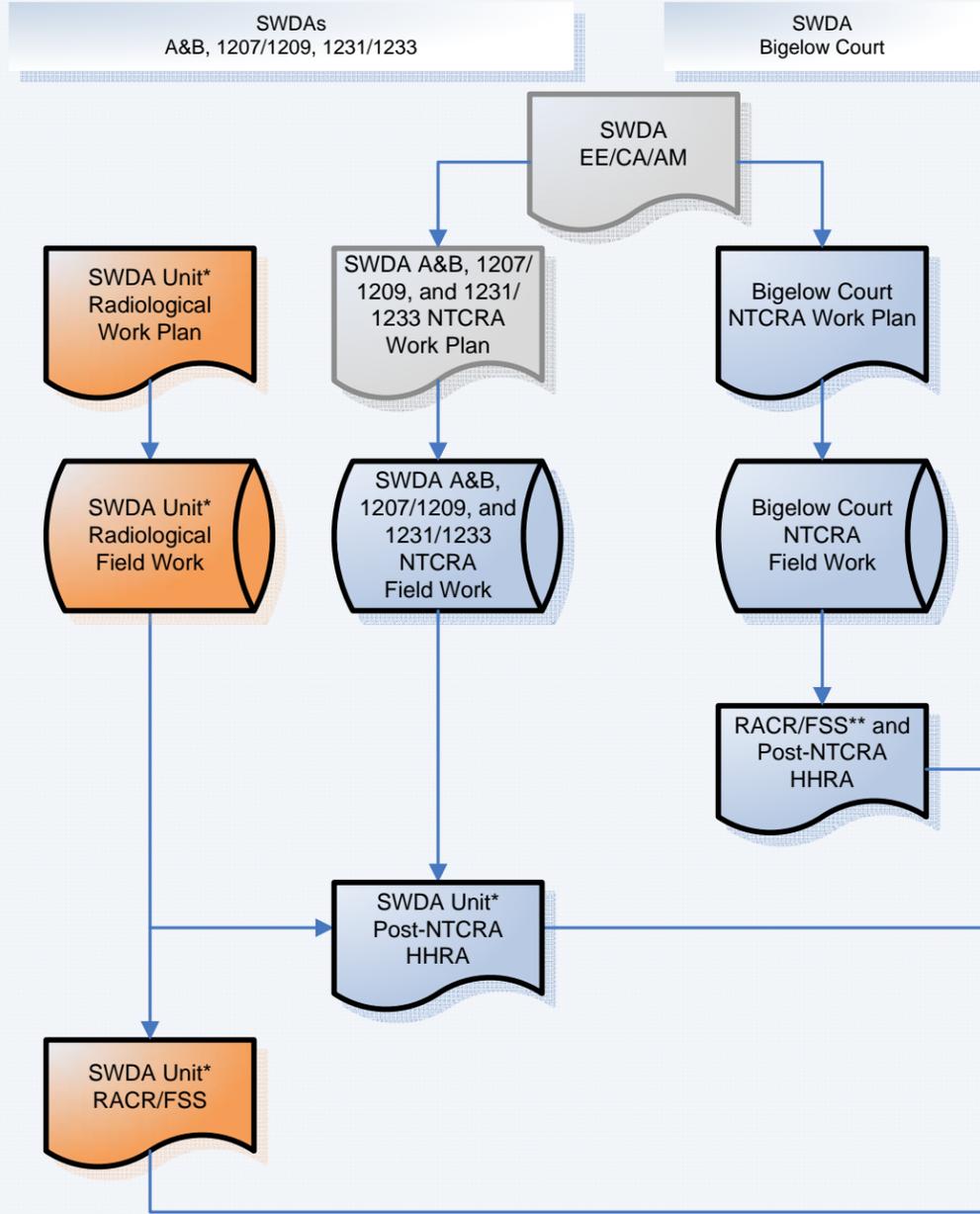
Naval Station Treasure Island
 Department of the Navy, BRAC PMO West, San Diego, CA

**FIGURE 3
 PETROLEUM PROGRAM SITE
 STRATEGY FLOW CHART**

Site Management Plan 2012

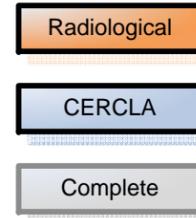
NON-TIME CRITICAL REMOVAL ACTION (NTCRA) AREAS

**EXPOSURE UNITS / AREAS OF INTEREST
(NOT INCLUDED IN THE NTCRA)**



Notes:
 1. Depicted strategy is based on the current schedule in Appendix B and is subject to change.
 2. NTCRA SWDAs were not included in the RI Report.

CERCLA Comprehensive Environmental Response, Compensation, and Liability Act
 FSS Final Status Survey
 HHRA Human Health Risk Assessment
 NTCRA Non-Time Critical Removal Action
 PCSR Post-Construction Summary Report
 RACR Removal Action Completion Report
 RI Remedial Investigation
 SWDA Solid Waste Disposal Area
 TPH Total petroleum hydrocarbons



* The radiological path forward for each individual SWDA area (A&B, 1207/1209, 1231/1233) includes a radiological work plan, field work, post-NTCRA HHRA, and a RACR/FSS report. Multiple phases of investigation and field work may be warranted for some SWDA areas.

** FSS for Bigelow Court will only be necessary if radiological contamination is identified during the NTCRA.



Naval Station Treasure Island
 Department of the Navy, BRAC PMO West, San Diego, California

**FIGURE 4
 SITE 12 CLOSURE STRATEGY
 FLOW CHART**

PETROLEUM PROCESS MILESTONES		2003				2004				2005				2006				2007				2008				2009				2010				2011				2012			
		Jan	Apr	Jul	Oct																																				
Site 4/19	Site Investigation																																								
	Corrective Action Plan																																								
	Corrective Action																																								
	Groundwater Monitoring																																								
	Closure Summary Report																																								
Site 6	Additional Investigation																																								
	Corrective Action Plan																																								
	Corrective Action																																								
	Groundwater Monitoring																																								
	Closure Summary Report																																								
Site 14/22	Site Investigation																																								
	Corrective Action Plan																																								
	Corrective Action																																								
	Groundwater Monitoring																																								
	Closure Summary Report																																								
Site 15	Site Investigation																																								
	Corrective Action Plan																																								
	Corrective Action																																								
	Groundwater Monitoring																																								
	Closure Summary Report																																								
Site 16	Site Investigation																																								
	Corrective Action Plan																																								
	Corrective Action																																								
	Groundwater Monitoring																																								
	Closure Summary Report																																								
Site 20	Site Investigation																																								
	Corrective Action Plan																																								
	Corrective Action																																								
	Groundwater Monitoring																																								
	Closure Summary Report																																								
Site 25	Site Investigation																																								
	Corrective Action Plan																																								
	Corrective Action																																								
	Groundwater Monitoring																																								
	Closure Summary Report																																								
UST Sites*	Site Investigation																																								
	Corrective Action Plan																																								
	Corrective Action																																								
	Groundwater Monitoring																																								
	Closure Summary Report																																								
Pipeline Sites*	Site Investigation																																								
	Corrective Action Plan																																								
	Corrective Action																																								
	Groundwater Monitoring																																								
	Closure Summary Report																																								

Notes:

- UST = Underground storage tank
- USCG = U.S. Coast Guard
- ✓ = Site closeout
- ➔ = Schedule extends beyond 2012
- * Timelines refer to overall schedule.

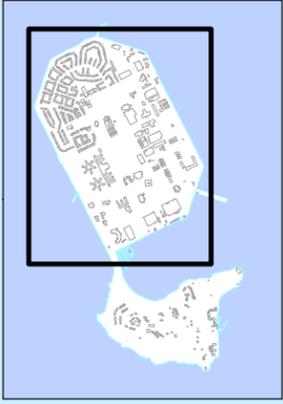
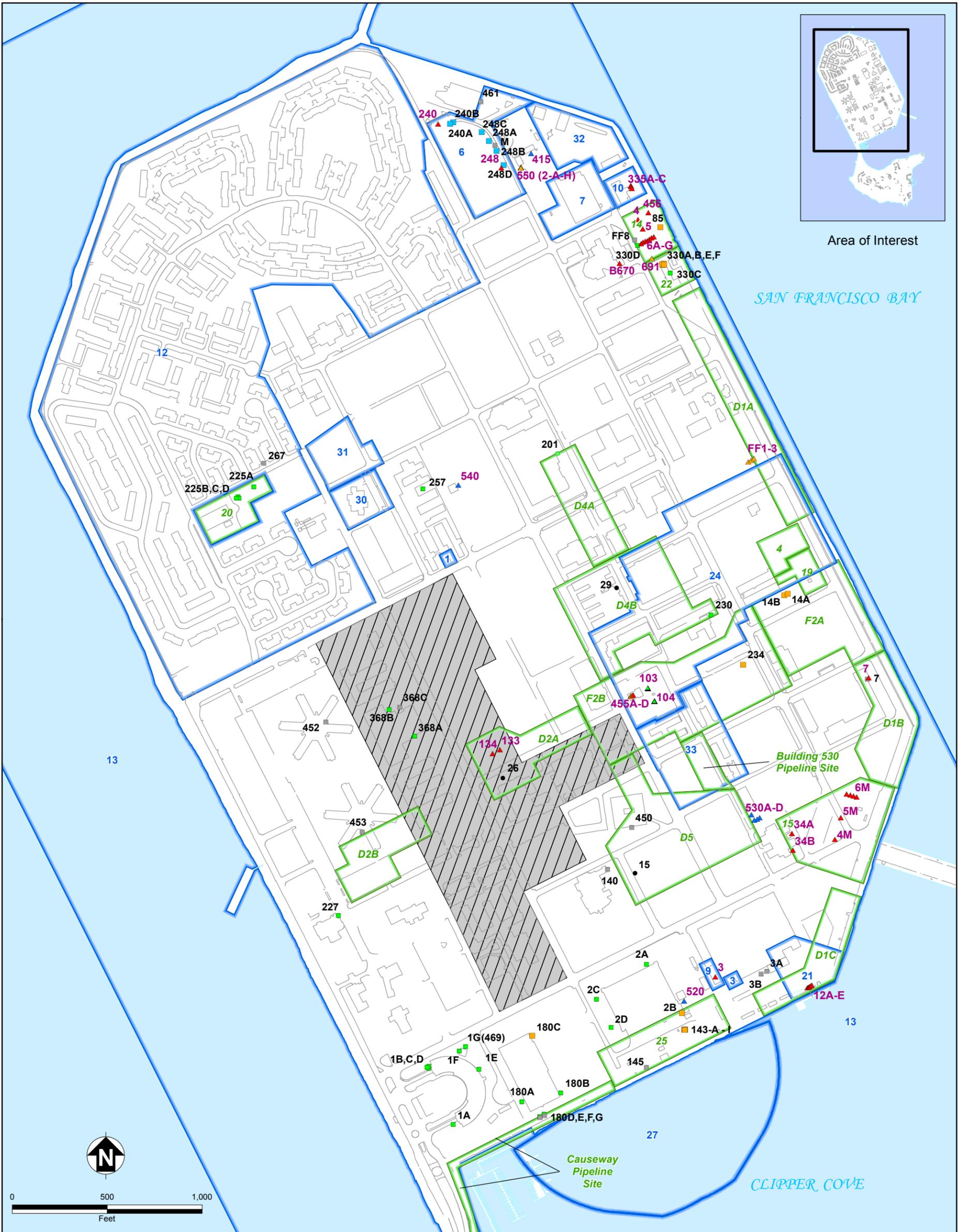
- 1 USTs 240A, 240B, 248A through 248D are associated with Installation Restoration Site 6 and still require closure before Site 6 can be closed.
- 2 Additional investigation required for UST 238 is on hold until Caltrans completes work in the area.
- 3 Additional investigation is being planned for pipeline sites YF3 and USCG.



Naval Station Treasure Island
Department of the Navy BRAC PMO West, San Diego, CA

FIGURE 6
TIMELINE TO CLOSURE
PETROLEUM PROGRAM

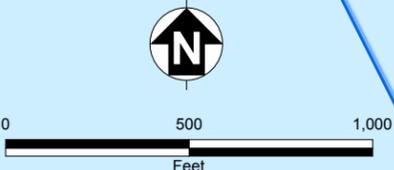
Site Management Plan 2012



Area of Interest

SAN FRANCISCO BAY

CLIPPER COVE



ABOVEGROUND STORAGE TANKS
(labeled in purple)

- ▲ Closed-in-Place
- ▲ Active
- ▲ Inactive
- ▲ Removed

UNDERGROUND STORAGE TANKS
(labeled in black)

- Closed
- Closed via Inactive Fuel Lines CAP
- Further Investigation
- NFA Concurrence
- NFA via Inactive Fuel Lines CAP
- NFA Requested
- Never Existed
- Road Edge
- ▨ Job Corps Property

INVESTIGATION SITES:

- ▭ Petroleum Program Sites
- ▭ CERCLA Program Sites

Notes:
 AST Aboveground Storage Tank
 CAP Corrective Action Plan
 CERCLA Comprehensive Environmental Response, Compensation, and Liability Act
 NFA No further action
 UST Underground Storage Tank

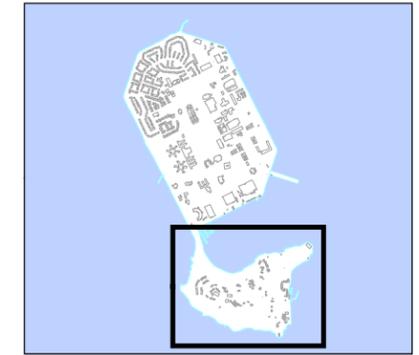
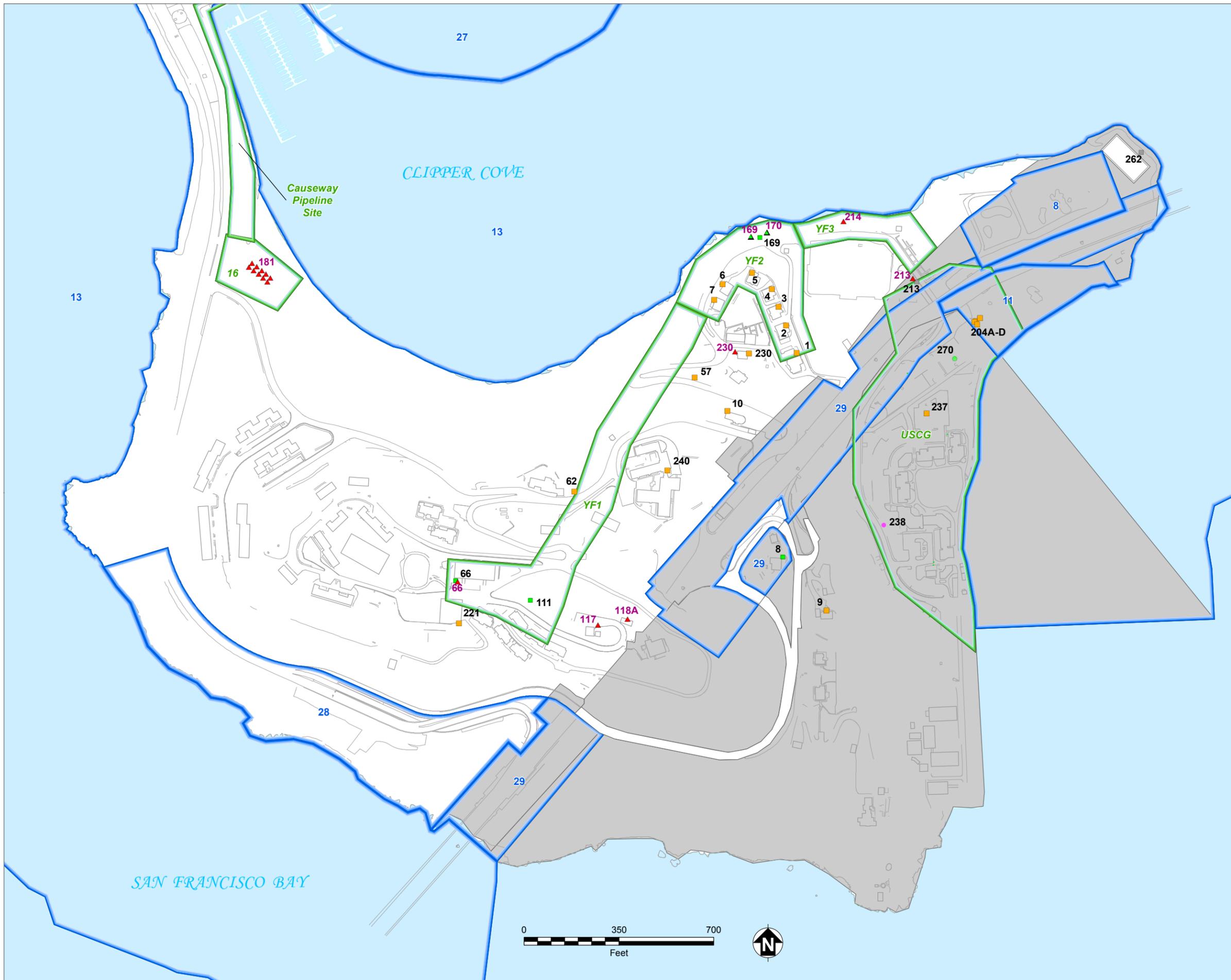
UST and AST point locations are not actual USTs or ASTs drawn to scale or shape for the purpose of this figure. The point locations are used to show relative locations of USTs and ASTs.



Naval Station Treasure Island
 Department of the Navy, BRAC PMO West, San Diego, CA

FIGURE 7
UNDERGROUND STORAGE TANKS
LOCATION MAP
TREASURE ISLAND

Site Management Plan 2012



Area of Interest

- ABOVEGROUND STORAGE TANKS**
(labeled in purple)
- ▲ Closed-in-Place
 - ▲ Active
 - ▲ Inactive
 - ▲ Removed
- UNDERGROUND STORAGE TANKS**
(labeled in black)
- Closed
 - Closed via Inactive Fuel Lines CAP
 - Further Investigation
 - NFA Concurrence
 - NFA via Inactive Fuel Lines CAP
 - NFA Requested
 - Never Existed
- INVESTIGATION SITES**
- ▭ Petroleum Program Sites
 - ▭ CERCLA Program Sites
 - ▭ Caltrans and USCG Property

Notes:

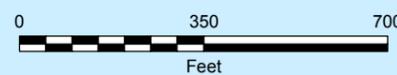
- AST Aboveground Storage Tank
- CAP Corrective Action Plan
- CERCLA Comprehensive Environmental Response, Compensation, and Liability Act
- NFA No Further Action
- USCG United States Coast Guard
- UST Underground Storage Tank
- YBI Yerba Buena Island

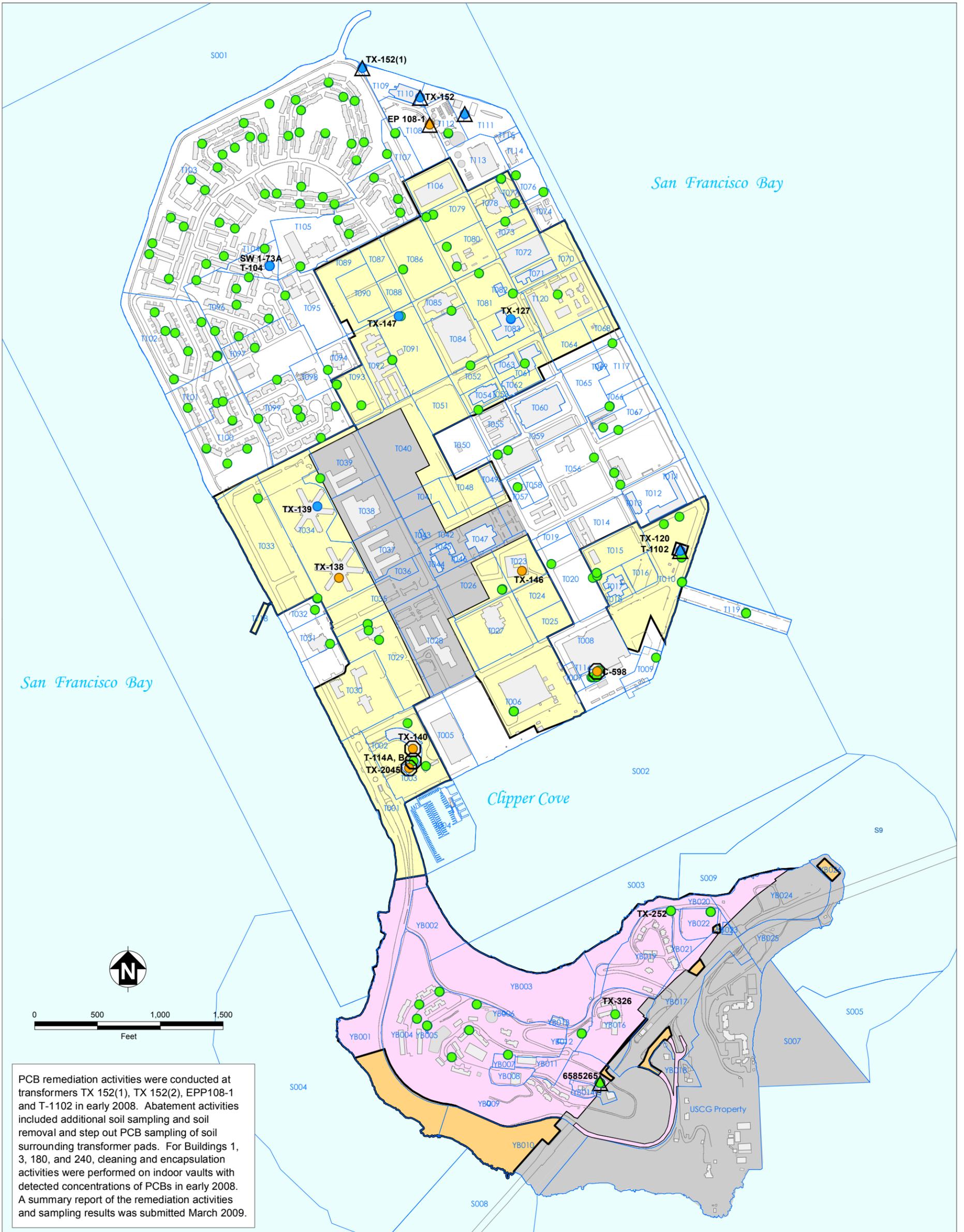
UST and AST point locations are not actual USTs or ASTs drawn to scale or shape for the purpose of this figure. The point locations are used to show relative locations of USTs and ASTs.



Naval Station Treasure Island
Department of the Navy, BRAC PMO West, San Diego, CA

FIGURE 8
UNDERGROUND STORAGE TANKS
LOCATION MAP
YERBA BUENA ISLAND
Site Management Plan 2012





PCB remediation activities were conducted at transformers TX 152(1), TX 152(2), EPP108-1 and T-1102 in early 2008. Abatement activities included additional soil sampling and soil removal and step out PCB sampling of soil surrounding transformer pads. For Buildings 1, 3, 180, and 240, cleaning and encapsulation activities were performed on indoor vaults with detected concentrations of PCBs in early 2008. A summary report of the remediation activities and sampling results was submitted March 2009.

- TI FOST Property (FOST 1)
- YBI FOST Property (FOST 2)
- YBI FOST Property (FOST 3)
- Previously Transferred Property
- EBS Parcel
- Building
- Road Edge or Similar Landscape Feature

- ELECTRICAL EQUIPMENT SAMPLING LOCATIONS**
- Above Criteria for Low Occupancy
 - Below Criteria for Low Occupancy and Above Criteria for High Occupancy
 - Below Criteria for High and Low Occupancy
 - Remediated Location, NFA Concurrence Received
 - Remediation by Encapsulation, Inspections Required

1. All areas on TI and YBI are untransferred, except for the Job Corps, Caltrans, and U.S. Coast Guard properties. This also includes the submerged area south of Parcel 1.

Comparison Criteria
 Low Occupancy Criteria = 25 mg/kg or 100 µg/100 cm²
 High Occupancy Criteria = 1 mg/kg or 10 µg/100 cm²

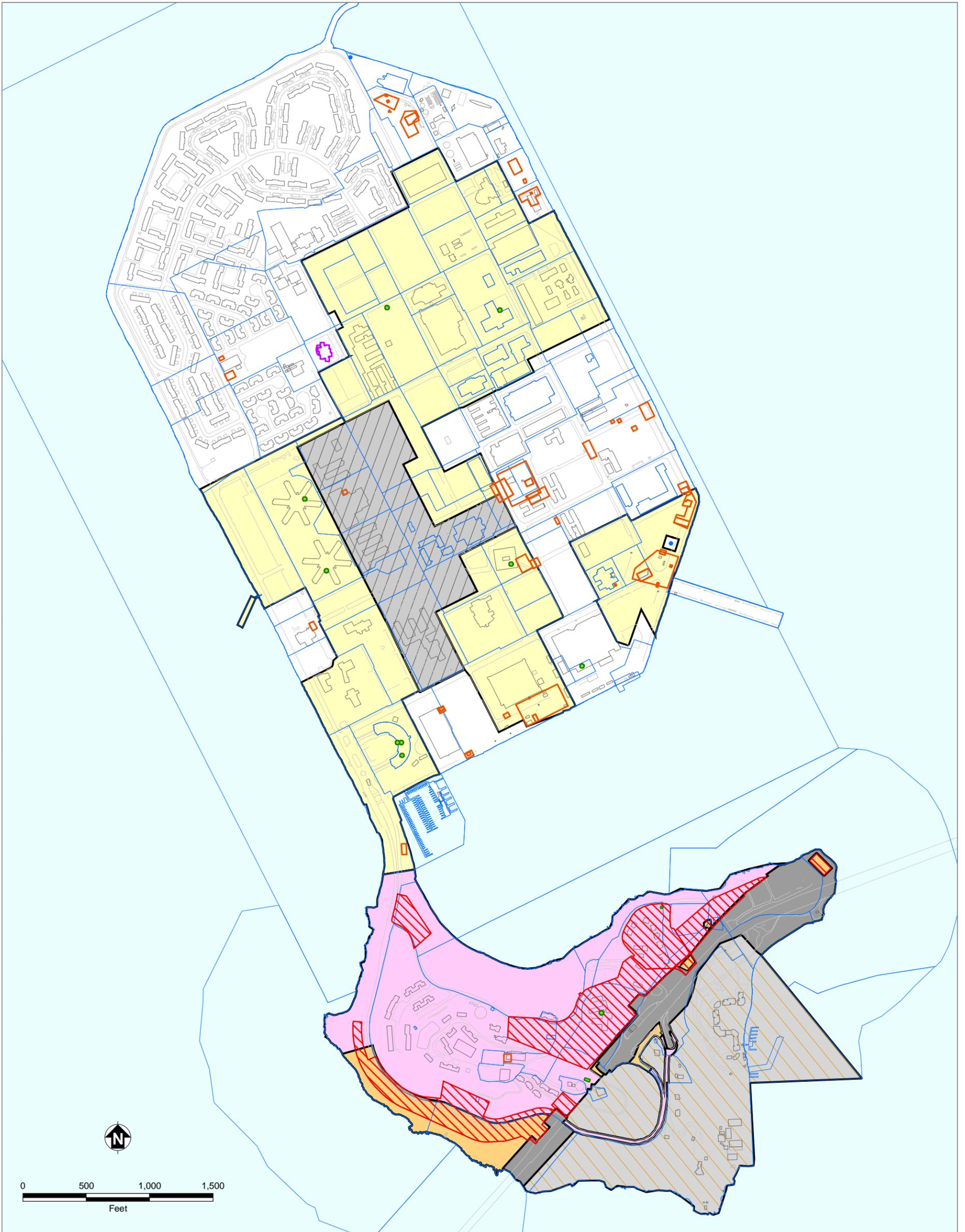
µg Micrograms
 cm² Centimeters squared
 EBS Environmental baseline survey
 FOST Finding of suitability to transfer
 mg/kg Milligrams per kilogram
 NFA No Further Action
 PCB Polychlorinated biphenyls
 TI Treasure Island
 TSCA Toxic Substances Control Act
 USCG United States Coast Guard
 YBI Yerba Buena Island



Naval Station Treasure Island
 Department of the Navy, BRAC PMO West, San Diego, CA

**FIGURE 9
 PCB PROGRAM STATUS**

Site Management Plan 2012



- PCB Site Subject to Restriction
- PCBs Remediated, NFA Concurrence Received

- Deed Restriction for Residual Petroleum Constituents for Shallow and/or Deep Soil
- Deed Restriction for CERCLA Constituents
- YBI Pre-Closing Parcels

TRANSFER PARCELS

- TI FOST Property (FOST 1)
- YBI FOST Property (FOST 2)
- YBI FOST Property (FOST 3)
- Caltrans Property
- Job Corps Property
- U.S. Coast Guard Property

- EBS Parcel
- Building
- Appurtenance
- Road Edge

Notes:
 Caltrans California Department of Transportation
 CERCLA Comprehensive Environmental Response, Compensation, and Liability Act
 EBS Environmental baseline survey
 FOST Finding of suitability to transfer
 PCB Polychlorinated biphenyls
 TI Treasure Island
 YBI Yerba Buena Island

1. All areas on TI and YBI are untransferred, except for the Job Corps, Caltrans, and U.S. Coast Guard properties. This also includes the submerged area south of Parcel 1.
2. YBI pre-closing parcels will be conveyed to the Treasure Island Development Authority in late 2012.

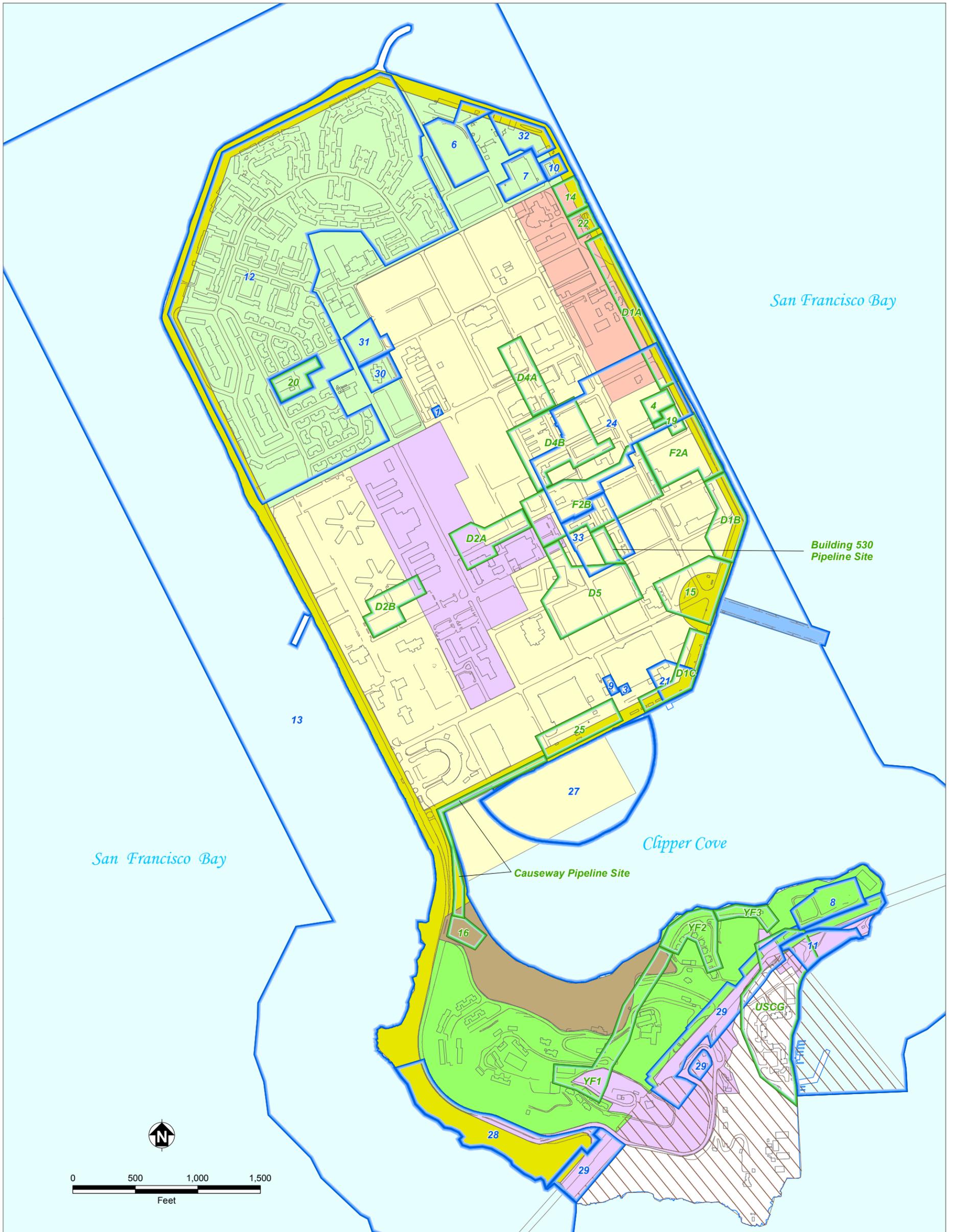
Source:
 Navy. 2006. Final FOST for Property on TI. February 15.
 Navy. 2006. Final FOST for Property on YBI. March 22.
 Navy. 2012. Final FOST for Property on YBI (FOST 3). January 17.



Naval Station Treasure Island
 Department of the Navy, BRAC PMO West, San Diego, CA

FIGURE 10
TRANSFER AND EBS PARCELS

Site Management Plan 2012



LAND USE AREAS

- Institutional
- Institutional / Publicly Oriented Uses
- Publicly Oriented Uses
- Residential / Publicly Oriented Uses
- Residential / Open Space / Publicly Oriented Uses
- Shoreline Open Space
- Hillside Open Space
- Maritime / Open Space / Publicly Oriented Uses

- U.S. Coast Guard Property
- Petroleum Program Site
- CERCLA Program Site
- Building
- Road Edge

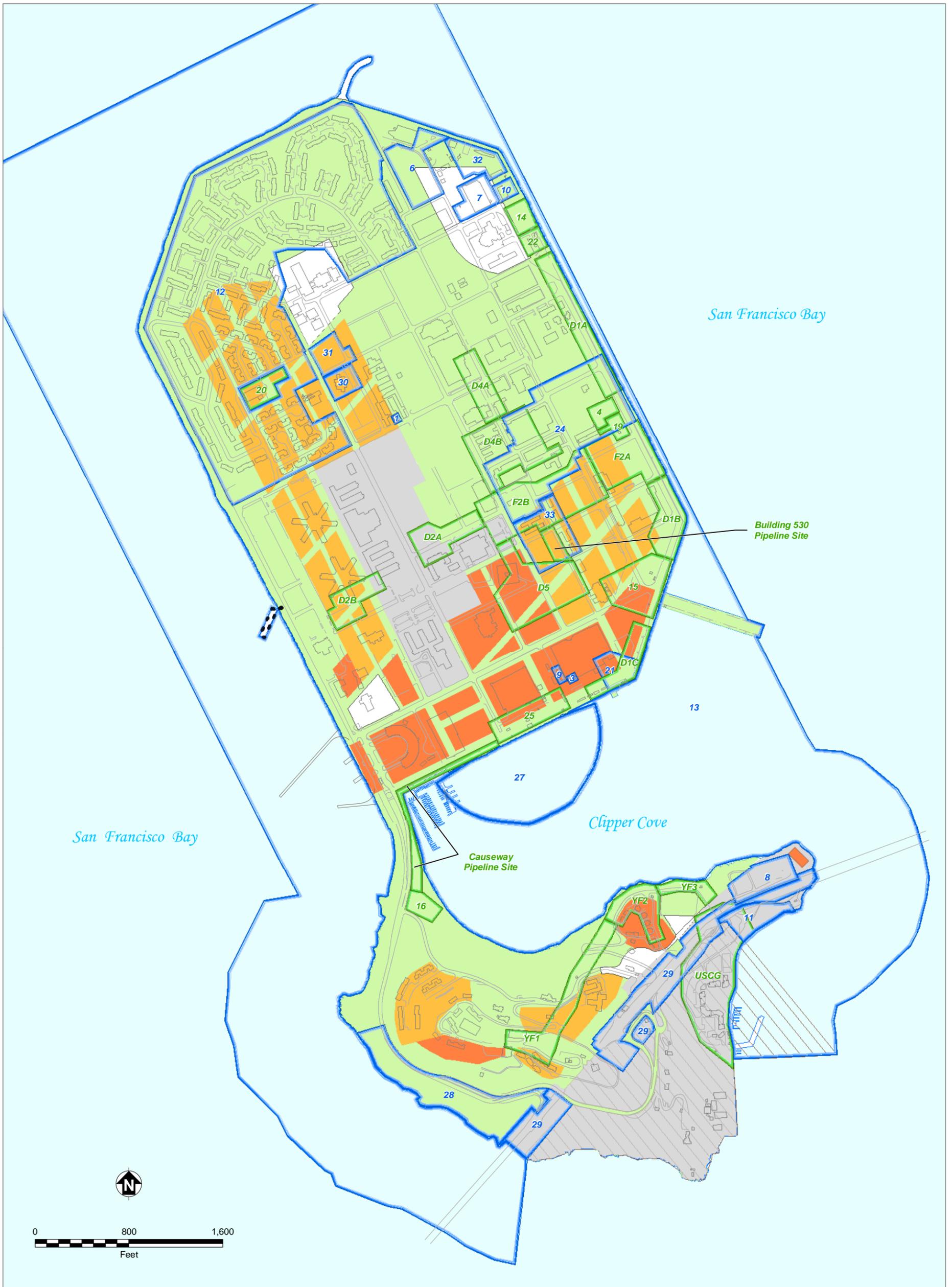
Notes:
 CCSF City and County of San Francisco
 CERCLA Comprehensive Environmental Response, Compensation, and Liability Act
 USCG United States Coast Guard

The draft reuse plan (CCSF 1996) defines publicly oriented uses as hotels; one or more theme park attractions, which may integrate the continuing film production activities; destination entertainment activities; and active and spectator recreational areas. Although there are no plans to place residences in many of the publicly oriented use areas, the draft reuse plan leaves open the possibility of employee housing.



Naval Station Treasure Island
 Department of the Navy, BRAC PMO West, San Diego, CA

FIGURE 11
1996 PLANNED REUSE AREAS,
CERCLA AND PETROLEUM
INVESTIGATION SITES
 Site Management Plan 2012



Conceptual Land Plan

- Open-Space
- Residential
- Mixed Use
- Public (Federal Use)
- Public Services/Civic/Institutional
- Pier to be removed

- CERCLA Program Site
- Petroleum Program Site
- USCG Guard Property
- Building
- Road Edge

Notes:
 CERCLA Comprehensive Environmental Response, Compensation, and Liability Act
 USCG United States Coast Guard

Property planned for the tidelands trust is not shown for illustrative clarity.

Source: Final EIR (April 2011)



Naval Station Treasure Island
 Department of the Navy, BRAC PMO West, San Diego, CA

FIGURE 12
2011 CONCEPTUAL LAND PLAN,
CERCLA AND PETROLEUM
INVESTIGATION SITES
 Site Management Plan 2012

APPENDIX A
SITE SUMMARY INFORMATION

[CERCLA Program](#)

[Petroleum Program](#)

[Compliance and Basewide Programs](#)

TABLE OF CONTENTS

CERCLA PROGRAM

SITE 1 – MEDICAL CLINIC	A-1
SITE 3 – PCB EQUIPMENT STORAGE AREA	A-2
SITE 6 – FIRE TRAINING SCHOOL	A-3
SITE 7 – PESTICIDE STORAGE AREA	A-6
SITE 8 – ARMY POINT SLUDGE DISPOSAL AREA	A-7
SITE 9 – FOUNDRY	A-9
SITE 10 – BUS PAINTING SHOP.....	A-10
SITE 11 – YBI LANDFILL	A-11
SITE 12 – OLD BUNKER AREA.....	A-13
SITE 13 – STORM WATER OUTFALLS/OFFSHORE SEDIMENTS	A-16
SITE 21 – VESSEL WASTE OIL RECOVERY AREA	A-17
SITE 24 – DRY CLEANING FACILITY	A-19
SITE 27 – CLIPPER COVE SKEET RANGE	A-22
SITE 28 – WEST SIDE ON/OFF RAMP	A-24
SITE 29 – EAST SIDE ON/OFF RAMPS	A-26
SITE 30 – DAYCARE CENTER	A-28
SITE 31 – FORMER SOUTH STORAGE YARD	A-30
SITE 32 – FORMER TRAINING AND STORAGE AREA	A-32
SITE 33 – WATER LINE REPLACEMENT AREA	A-34

PETROLEUM PROGRAM

SITE 4/19 – HYDRAULIC TRAINING SCHOOL/REFUSE TRANSFER AREA	A-36
SITE 6 – FIRE TRAINING SCHOOL	A-37
SITE 14/22 – NEW FUEL FARM/NAVY EXCHANGE SERVICE STATION	A-40
SITE 15 – OLD FUEL FARM	A-41
SITE 16 – CLIPPER COVE TANK FARM	A-42
SITE 20 – AUTO HOBBY SHOP/TRANSPORTATION CENTER	A-43
SITE 25 – SEAPLANE MAINTENANCE AREA.....	A-44
UST SITES (SITE 26)	A-45
INACTIVE FUEL PIPELINE SITES	A-48

TABLE OF CONTENTS (Continued)

COMPLIANCE AND BASEWIDE PROGRAM

POLYCHLORINATED BIPHENYLS PROGRAM.....	A-50
RESIDENTIAL LEAD-BASED PAINT PROGRAM.....	A-51
RADIOLOGICAL PROGRAM.....	A-53
ASBESTOS-CONTAINING MATERIAL PROGRAM.....	A-55
GROUNDWATER MONITORING PROGRAM	A-56
REGULATORY INTERACTION SUPPORT	A-57
COMMUNITY RELATIONS PROGRAM	A-58
TRANSFER RELATED	A-60

CERCLA PROGRAM

SITE 1 – MEDICAL CLINIC

Site 1, the Medical Clinic, is located near the middle of Treasure Island (TI) and was used for medical support services for personnel at Naval Station Treasure Island (NAVSTA TI). The Medical Clinic occupied the center wing of Building 257. The X-ray department of the Medical Clinic operated until the early 1970s. The wooden floor of Building 257 is elevated approximately 3 feet above the ground surface by concrete footings. A continuous concrete slab was poured beneath the building and was probably constructed as a mat foundation for the concrete footings. The slab was covered by approximately 3 to 12 inches of soil. During operation of the clinic, developer and corrosive fixer solutions leaked from the x-ray equipment, leaked through the wooden floor, and seeped into the soil under the building. During the 1995 Phase II Remedial Investigation (RI), a 4-foot area of high acidity below the floor was identified during field screening, which indicated the lateral extent of contamination by silver in soils. The soils were removed and disposed of in a Class 1 landfill. During this and subsequent site inspections, it was determined that contamination was limited to soil above the concrete slab and was not released into the environment.

Transfer Category	2006 TI Finding of Suitability to Transfer (FOST) property (FOST 1)
Regulatory Classification	Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA)
Acreage	0.14
Source of Concern	X-ray photo processing lab
Contaminants of Concern	Silver
Interim Actions	None
Current Status	Received site closure concurrence from the Department of Toxic Substances Control (DTSC) on March 20, 2002. No further documentation for supplemental site inspection (SI) report is required.
Underground Storage Tanks (UST)/Aboveground Storage Tanks (AST)	None
Site Closeout	Closed

SITE 3 – PCB EQUIPMENT STORAGE AREA

Site 3, the Polychlorinated Biphenyls (PCB) Equipment Storage Area, is adjacent to the south side of Building 3, about 150 feet from the shore in the southeastern corner of TI. The area is paved with about 6 inches of asphalt and was used to store and, in some instances, repair transformers used at NAVSTA TI to supply electricity to the various facilities. Some of the transformer units are known to have contained transformer fluids that contained PCBs.

Transformer fluids that contained PCBs have spilled as recently as the mid-1980s, and although they were reportedly cleaned up, no records of the cleanup are available. No PCBs were present in subsurface soils collected during the Phase I RI in 1992; only low concentrations of PCBs were detected during wipe sampling of the walls and floor of the storage area for the 1987 preliminary assessment/site inspection (PA/SI).

Transfer Category	Upcoming FOST
Regulatory Classification	CERCLA
Acreage	0.15
Source of Concern	Storage and repair area for PCB equipment
Contaminants of Concern	PCBs
Interim Actions	None
Current Status	Received site closure concurrence from DTSC on March 20, 2002. No further documentation for supplemental SI report is required.
USTs/ASTs	None
Site Closeout	Closed

SITE 6 – FIRE TRAINING SCHOOL

Site 6, the former Department of the Navy (Navy) firefighting training school, was used for nearly 50 years (1944 to 1992) for various firefighting training activities. The training school formerly included 23 buildings, 6 USTs, and a central training yard that consisted of burn areas lined with asphalt and concrete. Fires fueled with diesel and gasoline, magnesium, and wood were set in various mockups in the training yard and were extinguished with a mixture of water, biodegradable soap, and industrial talc. Approximately 19,000 gallons of gasoline and 32,000 gallons of diesel fuels were used each year for the firefighting training. Wastewater and unburned gasoline and diesel were collected in a concrete collector trench (installed in about 1949) situated around the perimeter of the training school yard. Wastewater and unburned gasoline and diesel that collected in the trench passed through on-site oil-water separators (OWS). No historical information has been discovered that discusses disposal of wastes before the perimeter concrete collector trench and the on-site OWSs were constructed. Wastewater generated and treated at the site was discharged to the NAVSTA TI wastewater treatment plant (WWTP), constructed in 1968, and waste diesel and gasoline fuels were disposed of at an off-base location. Before 1973, the wastewater that flowed to the concrete collector trench was discharged to San Francisco Bay (Bay) without treatment. Approximately 14,000 gallons of petroleum residue was generated per year at the training school.

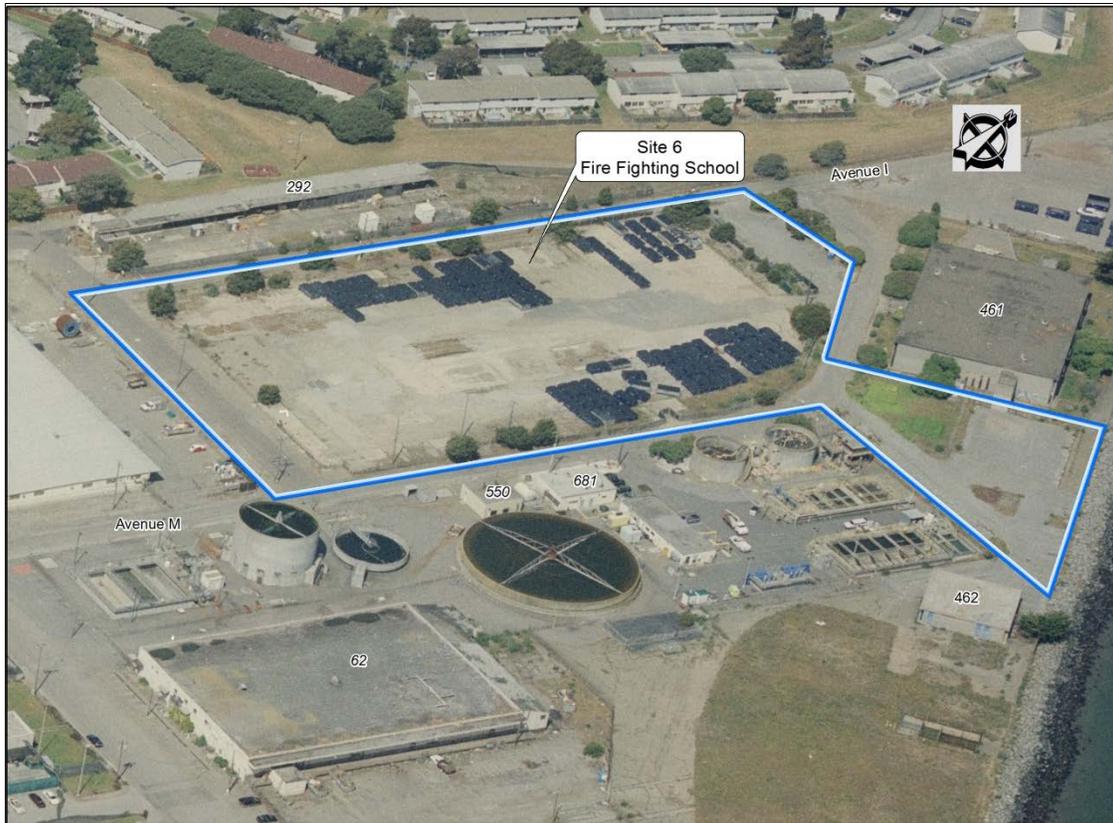
All buildings have been removed from the site. Four 1,500-gallon USTs (240A, 240B, 248A, and 248B) that contained gasoline and diesel for firefighting training were present in the northern and eastern portions of the training yard. USTs 240A and 240B were removed in 1992, and USTs 248A and 248B were removed in 1995. Two 1,000-gallon USTs (248C and 248D) previously used to store waste fuel were removed in 2002. One known AST (248), located near UST 248D, was removed prior to 1995. UST M, a previously suspected UST for coolant, was reported in Shaw Environmental, Inc.'s (Shaw) "Final Facilitywide Underground Storage Tank Summary Report Update," dated August 25, 2004, as never having been installed, based on document reviews and discussions with Navy personnel. Petroleum remedial activities were conducted at Site 6 between May and December 2002. Remedial activities included excavation of USTs and excavation of petroleum-contaminated soils near the USTs, pipelines, and OWS components throughout the site. Remediation also included evaluation and excavation of free product near USTs 240A and 240B. In October 2002, during petroleum remedial excavation activities at the UST 248 area, burn surfaces were identified in the vicinity of the former Building 464 foundation. Results from shallow soil samples collected in this area included dioxins and furans above the soil screening levels. The excavation was subsequently expanded to include removal of burn debris and soot-discolored areas. Results from confirmation samples included dioxins and furans above the screening levels, causing Site 6 to be transferred to the CERCLA program on September 18, 2003.

Further investigation and delineation of dioxins and furans detected in soil was conducted under the CERCLA Program as part of the environmental baseline survey (EBS) data gaps investigation in 2003. Based on investigation results, the Base Realignment and Closure (BRAC) Cleanup Team (BCT) agreed to a boundary revision for the CERCLA site at the June 7, 2005 BCT meeting. The boundary revision included a portion of Parcel T112 to the east and north of the WWTP area where dioxins were detected in shallow soil samples. On January 24, 2007, a second boundary revision was submitted separating Site 6 (CERCLA Program) and Site 6A (Petroleum Program). DTSC did not concur with the request to modify the boundary.

Other investigations included a soil gas sampling program completed in October 2004 to evaluate volatile organic compounds (VOC) in soil gas near former USTs 240A and 240B. Groundwater at Site 6 continues to be monitored semi-annually under the Basewide Petroleum Sites Groundwater Monitoring Program.

During 2008, Site 6 was used as a temporary excavated soil staging and loading area, including the radiologically controlled area (RCA) for the Site 12 non-time critical removal action (NTCRA). Prior to use for staging and loading activities, a baseline radiological survey was conducted. While staging and loading activities were ongoing, engineering controls were developed, air monitoring equipment was installed, and a surveillance program for health and safety was in place. In addition to engineering controls, best management practices, such as keeping soil stockpiles covered to prevent releases, were used. The soil staging and loading area activities included temporary stockpiling and loading of soil into bins at which point they were characterized and shipped off-site to a licensed disposal facility. The waste shipped off-site includes both chemical and low level radiologically impacted soil (radium-226). Since 2008, soils have not been stockpiled at Site 6. Low level radiological waste that has been characterized and placed in sealed bins is stored in the Site 6 RCA while awaiting off-site disposal. Once the Site 12 NTCRA has been completed, a Multi-Agency Radiation Survey and Site Investigation Manual (MARSSIM) Final Status Survey (FSS) will be conducted at Site 6.

To address the concerns expressed by the California Environmental Protection Agency (Cal/EPA) San Francisco Bay Regional Quality Control Board (Regional Water Board), the Navy is planning to conduct additional investigations in the vicinity of the formerly removed USTs (240 series). In 2010, the Navy completed a CERCLA data gap investigation to further evaluate the nature and extent of chemicals in soil, soil gas, and groundwater. The Navy is currently preparing a combined RI/FS. The RI/FS Report will incorporate comments received on the 2007 proposed boundary revision request and the 2010 data gap investigation results.



Aerial photographs taken by American Aerial Surveys Inc. on May 10, 2012.

Transfer Category	--
Regulatory Classification	CERCLA
Acreage	4.54
Sources of Concern	USTs, firefighting training area, OWSs
Contaminants of Concern	Dioxins and furans, total petroleum hydrocarbons (TPH), VOCs, polycyclic aromatic hydrocarbons (PAH)
Interim Actions	<ul style="list-style-type: none"> • USTs removed in 1992, 1995, and 2002. • Floating product removal action completed in 2002.
Current Status	<ul style="list-style-type: none"> • RI/FS is being prepared. • Additional investigation of removed USTs (240 series) is being planned under a Corrective Action Plan. • Annual groundwater monitoring continues.
USTs/ASTs	<ul style="list-style-type: none"> • AST 248 and USTs 240A, 240B, 248A, 248B, 248C, and 248D: all are removed and awaiting no further action (NFA) concurrence. • Previously suspected UST M received concurrence on NFA December 2, 2003.
Estimated Site Closeout	CERCLA Closeout: October 2015

SITE 7 – PESTICIDE STORAGE AREA

Site 7 is located north of 13th Street, between Avenue M and the Bay, in the northeast corner of TI. At Site 7, Building 62, the pesticide storage building, has been used to store and handle a variety of liquid substances in the past, including pesticides, chlorinated herbicides, paint, and other unidentified fluids. Building 62 was constructed on a raised pier foundation, with the wooden floor of the building approximately 3 feet above ground surface. The pesticide storage area was on a raised wood floor in the north end of the building. Pesticides and chlorinated herbicides were mixed and prepared for use from about 1955 until at least the early 1960s. It was reported that excess pesticide and paint fluids may have been disposed of by pouring them directly onto the ground. Information on the total volume of waste fluids disposed of on site is not available.

The Dames and Moore PA/SI (1988) reported that, between 1968 and 1976, sludge from the adjacent WWTP was spread on the ground in an area measuring about 250 feet by 100 feet southwest of Building 62 and northeast of the corner of Avenue M and 13th Street. Soils to the west of Building 62 were investigated during the Phase I RI and the supplemental SI, and NFA was recommended. The total volume of sludge spread at this site and at Site 8 was estimated to be 10 to 15 cubic yards per month, totaling 960 to 1,440 cubic yards. Part of the new WWTP was constructed in the area where the sludge was reportedly spread. Boring logs for geotechnical borings advanced as part of the expansion of the WWTP did not indicate that sludge was encountered.

The Phase I RI report (1992), the Phase IIB RI report (1997), and a supplemental SI (2002) included an investigation of the soils outside and beneath the building. A subsequent request for closure was submitted as a letter report to the DTSC October 3, 2005, and concurrence with NFA was granted November 1, 2005.

Transfer Category	Upcoming FOST
Regulatory Classification	CERCLA
Acreage	2.22
Source of Concern	Pesticide storage; WWTP sludge
Contaminants of Concern	Metals, pesticides, and herbicides
Interim Actions	None
Current Status	<ul style="list-style-type: none">• Supplemental SI report was submitted for NFA October 18, 2002.• Letter report requesting closure following discussions of Site 32 results submitted October 3, 2005.• Received site closure concurrence from DTSC on November 1, 2005.
USTs/ASTs	None
Site Closeout	Closed

SITE 8 – ARMY POINT SLUDGE DISPOSAL AREA

Site 8, the Army Point Sludge Disposal Area, was used for approximately 8 years, between 1968 and 1976, for disposal of sludge from the WWTP on TI. Prior to 1968, the site contained buildings used as barracks for enlisted personnel. Waste sludge was transported from the WWTP and was spread on the ground between the foundations of former buildings at Site 8 to dewater the sludge. The same type of waste sludge was disposed of at Site 7. The final disposition of the sludge is not known; the dried sludge may have been allowed to decay in place or may have been removed. Given the shallow depth of sandstone and shale bedrock at the site, on-site burial is unlikely.

Because the site was identified in the PA, an SI was completed in 1990 to assess subsurface soils potentially impacted by chemicals in the waste sludge deposited in the eastern portion of the site. Based on SI report conclusions, further investigation of the site was warranted to characterize the lateral and vertical extent of contamination. In 1997, the draft RI report included results of additional investigations conducted during Phase I and Phase IIB of the RIs completed in 1992 and 1995. The RI report noted potential beryllium and lead contamination at the site; however, concentrations of beryllium and lead were within the target risk range or below the point of departure. Pesticides/PCBs and semivolatile organic compounds (SVOC) were determined to not be contaminants of concern.

In June 2001, independent of the Navy's Installation Restoration (IR) Program, California Department of Transportation (Caltrans) collected soil samples at 13 discrete surface soil locations on Yerba Buena Island (YBI) as part of the San Francisco–Oakland Bay Bridge (Bay Bridge) construction project. Results of Caltrans' soil sampling conducted within the Site 8 boundaries indicated that concentrations of lead ranged from less than 50 to 170 milligrams per kilogram. Based on the Caltrans sampling report, the Navy concluded that existing data were sufficient to characterize the lateral and vertical distribution of lead in soils at Site 8. In December 2001, the Navy completed a validation study to confirm results of the screening-level ecological risk assessment included in the 1997 RI report for the Peregrine Falcon (*Falco peregrinus*). The study concluded that no unacceptable risk was posed to the falcon at Sites 8, 11, 28, and 29. The surface soil on the site may be contaminated by lead and other metals as a result of vehicle emissions, as well as bridge and ramp painting and maintenance. In 2002, additional lead investigations were conducted to fully delineate the extent and magnitude of lead in surface soils at Sites 8, 11, and 29; collect additional soils data for comparison to the validation study results; and provide additional data, if needed, for the human health risk assessment (HHRA) presented in the 1997 RI report for Sites 8, 11, and 29.

The Navy owned the property comprising the ramps and areas beneath the bridge until 2001, when the Federal Highway Administration (FHWA) transferred the bridge right-of-way and ramps from the Navy to Caltrans. Caltrans is now using this area during construction of the new eastern span of the Bay Bridge. Two footings for the Bay Bridge have been installed within the site boundaries of Site 8; the area of site surface soils disturbed by Caltrans construction activity was estimated by visual inspection in April 2005. The actual footing areas were excavated to a depth of 80 feet.

Two boundary changes have occurred at Site 8; the first, presented in October 2004 to the BCT, eliminated the northwest corner of Site 8 to allow for transfer of the property as part of the YBI parcel, independent of regulatory closure of Site 8. The second, made in June 2005, eliminated overlap between CERCLA Site 8 and Site 29. Field inspections of Site 8 were

performed in April and October of 2006 to verify removal of contaminated soil by Caltrans and to document ongoing construction activities.

The Navy finalized the interim RI report for Sites 8 and 29 in March 2009. The Navy is currently in discussion with Caltrans regarding completion of the CERCLA site closeout process when bridge construction is complete. The schedule in [Appendix B](#) is based on Caltrans' quarterly schedule, which indicates bridge construction activities will be complete in 2015. Once Bay Bridge construction activities are complete, an RI addendum will need to be prepared for the site to continue with the CERCLA process.



Aerial photographs taken by American Aerial Surveys Inc. on May 10, 2012.

Transfer Category	On Caltrans-owned property
Regulatory Classification	CERCLA
Acreage	3.12
Source of Concern	WWTP sludge disposal area; lead-based paint (LBP) from the Bay Bridge
Contaminants of Concern	SVOCs and metals
Interim Actions	None
Current Status	<ul style="list-style-type: none"> • Interim RI report (for Sites 8 and 29) was submitted in March 2009. • Navy is discussing site closeout with Caltrans.
USTs/ASTs	None
Estimated Site Closeout	January 2020

SITE 9 – FOUNDRY

Site 9 is adjacent to the southern corner of Building 3, about 150 feet from the shore, in the southeastern corner of TI. The site, which contains Building 41 (the Foundry), has been used for multiple operations since the early 1940s. The indices of TI buildings from 1943 and 1947 list Building 41 as a forge and foundry; metals are the most likely contaminant sources from the foundry. Building 41 was listed as a paint shop from at least 1952 to 1981. One floor drain and sump, representing a possible discharge point, was observed next to the paint booth when Building 41 was inspected during the Phase I RI. Paints used at this facility are known to have contained lead- and zinc/chromium-based pigments. In addition, two concrete trenches, apparently remaining from a hydraulic lifting system, are present in the large middle room and are evidence that vehicle maintenance may have been performed there. A 30-gallon storage tank, presumably used to contain hydraulic oil for use with the hydraulic lift, is located in a concrete-lined pit at the eastern end of one trench. From 1981 to 1987, the building was used as a welding training school by the Navy Technical Training Center. In 1994, the building was used for small-boat maintenance, primarily body work. It is believed that the outdoor areas have been paved for most of the building's existence.

The RI report was finalized in March 2005. The RI concluded the Navy should pursue closure of Site 9 through a no action record of decision (ROD). A proposed plan (PP) outlining the no action ROD was submitted for public comment September 29, 2006 and a public meeting was held October 17, 2006. The public comment period closed October 31, 2006. A no action ROD was signed October 2, 2007.

Transfer Category	Upcoming FOST
Regulatory Classification	CERCLA
Acreage	0.28
Source of Concern	Potential spills or disposal of hazardous materials; potential discharge of wastes to the floor drain and sump in Building 41; potential release of hazardous constituents from oily waste contained in concrete-lined trenches from a former hydraulic lift system inside Building 41.
Contaminants of Concern	Iron, benzo(a)pyrene, dibenz(a,h)anthracene
Interim Actions	None
Current Status	No action ROD signed on October 2, 2007.
USTs/ASTs	AST 3; removed
Site Closeout	Closed

SITE 10 – BUS PAINTING SHOP

Site 10 includes Building 335, the Bus Painting Shop, and is located in the northeastern section of TI, north of 13th Street and between Avenue N and the Bay. Building 335 was constructed during the mid-1940s and operated as a bus painting shop through the 1950s. The building may have also been used for paint mixing for an unspecified period. Handling practices reported at similar facilities on NAVSTA TI indicate that waste paints, thinners, and solvents may have been released onto the ground near Building 335. Building 335 was also reportedly used for storing, mixing, and handling of pest control solutions (pesticides and chlorinated herbicides) during an unspecified time period. Pest control solution residues were reportedly washed from containers and spraying equipment. It was also reported that Building 335 housed a self-service steam rack used to clean vehicles, drums, garbage cans, and related equipment. A floor drain was reportedly used in the building and was connected to the storm water sewer system, thus potentially conveying contaminants directly into the Bay. An inspection of the building in March 1994 revealed a cement-patched area that may have been the former location of the floor drain.

Petroleum Program investigations revealed dioxin-contaminated surface soil along the eastern boundary of Site 10 associated with a shallow burn layer. An exploratory investigation of the dioxins in soils was conducted in the fall of 2005, and impacted soils were removed.

The RI report was finalized in March 2005. The RI concluded the Navy should pursue closure of Site 10 through a no action ROD. A PP outlining the no action ROD was submitted for public comment September 29, 2006, and a public meeting was held October 17, 2006. The public comment period closed October 31, 2006. A no action ROD was signed October 2, 2007.

Transfer Category	Upcoming FOST
Regulatory Classification	CERCLA
Acreage	0.68
Source of Concern	Maintenance yard; pesticide storage; paint mixing
Contaminants of Concern	Iron, benzo(a)pyrene, dibenz(a,h)anthracene
Interim Actions	Dioxin-impacted soils removed 2005.
Current Status	No Action ROD signed October 2, 2007.
USTs/ASTs	ASTs 335A, 335B, 335C removed
Site Closeout	Closed

SITE 11 – YBI LANDFILL

Site 11, the YBI Landfill, is an approximately 200-foot by 600-foot former marsh area on the southern side of the eastern tip of YBI. This site was identified as a disposal area in a 1935 topographic map. The exact dates of sanctioned landfill operation have not been established. Signs in the area currently prohibit dumping. The types and amounts of waste disposed of at the site are not well documented. During a site visit in April 1994, buried concrete debris was observed in an eroded section of land near the beach at the easternmost extent of the landfill area. This buried debris is evidence that land filling had occurred in that area. The material disposed of at the site is solid wastes from operations at YBI and TI, although the exact nature of the material is unknown. Miscellaneous household waste was noted in test pits installed during the Phase I RI. During evaluation of the extent of the landfill, construction debris was found in numerous trenches and test pits completed in 2002. Petroleum-contaminated sand was found in the landfill underlying a burn layer. Groundwater contamination has been detected at the site and appears to originate from the buried materials.

In December 2001, the Navy completed a validation study to confirm results of the screening level ecological risk assessment included in the 1997 RI report for the Peregrine Falcon (*Falco peregrinus*). The study concluded that no unacceptable risk was posed to the falcon at Sites 8, 11, 28, and 29.

In 2002, additional lead investigations were conducted to fully delineate the extent and magnitude of lead in surface soils at Sites 8, 11, and 29; collect additional soils data for comparison to the validation study results; and provide additional data, if needed, for the HHRA in the 1997 RI report for Sites 8, 11, and 29.

Additional sources of contamination at the landfill include five USTs (270 and 204A through 204D) and a fuel pipeline. UST 270, which was not within the landfill area, has been removed. The other four USTs, 204A through 204D, were located in the south-central portion of the site and were removed in September 2003. The Regional Water Board concurred that NFA was required with respect to the USTs in a letter dated June 17, 2004. The U.S. Coast Guard (USCG) Petroleum Program Site extends into the Site 11 boundary, and the USTs and fuel lines formerly located within the USCG site may be sources of contamination. Further investigations at the USCG site are pending.

The surface soil on the site may be contaminated by lead and other metals as a result of vehicle emissions, as well as bridge and ramp painting and maintenance. In June 2005, a boundary change was made to eliminate the overlap between Site 11 and Site 29. Construction activities associated with the new Bay Bridge have greatly altered the landfill surface, which is currently being used by Caltrans as a laydown area for bridge construction materials. The Final Interim RI report for Site 11 was submitted January 27, 2010. The Navy is currently in discussion with Caltrans regarding completion of the CERCLA site closeout process when bridge construction is complete. The schedule in [Appendix B](#) is based on Caltrans' quarterly schedule which indicates bridge construction activities will be complete in 2015. Once Bay Bridge construction activities are complete, an RI addendum will need to be prepared for the site to continue with the CERCLA process.



Aerial photographs taken by American Aerial Surveys Inc. on May 10, 2012.

Transfer Category	On Caltrans-owned property
Regulatory Classification	CERCLA; UST
Acreage	2.46
Source of Concern	Landfill solid waste (unknown type); USTs and fuel pipeline; LBP from the Bay Bridge
Contaminants of Concern	TPHs, PAHs, VOCs, and metals
Interim Actions	None
Current Status	<ul style="list-style-type: none"> • Interim RI report (Site 11) was submitted January 27, 2010. • Navy is discussing site closeout with Caltrans.
USTs/ASTs	USTs 270, 204A through 204D removed
Estimated Site Closeout	<ul style="list-style-type: none"> • CERCLA closeout: July 2020 • USTs 204A through 204D received regulatory concurrence from the Regional Water Board June 17, 2004 (NFA). • UST 270 received regulatory concurrence from the Regional Water Board February 10, 2004 (closed).

SITE 12 – OLD BUNKER AREA

Site 12, the Old Bunker Area, is located on the northwestern portion of TI and occupies about 93 acres of the island. Site 12 is currently the TI housing area. Site 12 is a flat area, consisting of grassy lawns, paved roads, and residential housing units with back yards. The area was used for military housing since about 1968. Site 20, a petroleum site, is located within the Site 12 area and encompasses 1.6 acres that is fully encircled by Site 12.

Solid Waste Disposal Areas

Several ammunition bunkers were located within Site 12 before the area was developed as military housing. As early as 1945, nine large ammunition bunkers and 12 smaller bunkers were visible along the northern end of TI. These bunkers were constructed in 1944 as reinforced concrete structures covered by sand, with a chert rock and clay surface. A backfilled blast wall, the same height as the bunkers, existed along the open side of the structures. Observations documented during soil trenching and boring activities, before the 1965 housing foundations were excavated, indicated that the areas between and around the bunkers were used for incineration and disposal of solid waste. Both trench-type disposal units and general land-surface areas were used to dispose of materials such as loose rubbish, bottles, wire rope, paper, and steel. These areas have been divided into four identified solid waste disposal areas (SWDA): SWDAs 1207/1209, 1231/1233, and A&B occur along the shoreline, and the fourth is in the central portion of Site 12, at Bigelow Court.

Hazardous material from portions of the 4 SWDAs was removed in 1999, 2000, and 2001, but some hazardous material remains in soil in and adjacent to these areas. An engineering evaluation/cost analysis (EE/CA) for a NTCRA at the SWDAs was finalized October 12, 2006, followed by a public meeting October 24, 2006.

A NTCRA began in May 2007 at three SWDAs along the shoreline. The Navy is currently excavating and screening soils for chemical and radiological contaminants. During the NTCRA, low level radiological items, containing radium-226, have been found within the SWDAs. All items located have been removed and disposed of properly. Soil that may have been impacted by these items was screened prior to shipment off-site by an appropriate disposal contractor. Confirmation samples are being collected in the SWDA areas once excavations are completed. When all removal action activities are complete, the Navy will conduct a residual risk evaluation for the SWDAs that will be included in the removal action completion report and/or the FS. In addition, a FSS of the SWDAs will be performed in accordance with MARSSIM (Revision 1 August 2000, with June 2001 updates). The Navy estimates that the NTCRA field activities will be completed in 2014. For some of the SWDA areas, the NTCRA will be completed in two (1207/1209 and 1231/1233) or three phases (A&B) of work due to funding and contracting and complexity.

Bigelow Court

Bigelow Court, located in the central portion of Site 12, was identified as a SWDA during sampling activities in 2001. There was a removal action on the eastern side of Bigelow Court in 2000 as a part of a larger removal action in Halyburton Court. Bigelow Court was included in the 2006 EE/CA, though the removal action will be delayed until 2013.

Halyburton Court

Review of historical records and aerial photographs also helped identify an area within the interior of Site 12 as a former storage yard, located in the vicinity of what is currently referred to as Halyburton Court. This former storage yard differs from the SWDAs because waste was not intentionally disposed of in this area. Results from sampling in 2000 indicated soils in the former storage yard area contained PCBs and PAHs at concentrations in excess of the action levels protective of human health. Based on these results, the Navy performed a removal action in the former storage yard area between 2000 and 2001. Because PCBs were left in place beneath the buildings in Halyburton Court, an investigation of PCBs in soil, soil gas, and indoor air was conducted during December 2005 and July 2006. After further evaluation, the Navy determined the proposed removal action would not significantly reduce the risk at Halyburton Court, and the EE/CA, specifically for Halyburton Court, was cancelled. The risk in the area is evaluated as part of the Site 12 RI report.

Investigation of Arsenic in Groundwater

Investigations at the site identified elevated concentrations of arsenic in groundwater in the vicinity of Buildings 1311 and 1313. In addition to the elevated arsenic concentrations in groundwater, elevated TPH concentrations in soil and groundwater have been reported. A 1971 report indicated an oil tank was buried underground in the vicinity of Buildings 1311 and 1313. The report also indicated the UST was to be removed during grading of the site for housing construction. There is no documentation of removal or closure of the UST. A technical memorandum published in 2001 attributed the elevated arsenic concentrations to the reducing environment created by the biodegradation of TPH at the site. A bench scale treatability study of arsenic in groundwater has been completed. A pilot scale treatability study was conducted while also addressing free product that was observed in the area. Review of historical drawings indicated former buildings in the area may have had associated USTs. Geophysical surveys performed in 2009 identified several anomalies. Groundwater wells have been installed and have been monitored for TPH. Soil gas sampling was conducted in November 2010 near Building 1313, and again in July 2012 near Buildings 1311/1313. Based on the presence of TPH with arsenic in groundwater, the Navy ceased pilot study activities in 2011 and further action in this area will be addressed in the FS. The Navy is currently re-evaluating groundwater within this area to determine if additional monitoring along the shoreline is necessary. Remedial alternatives for groundwater in this area will be evaluated in the FS.

Remedial Investigation

As part of the RI, the Navy performed a soil-gas investigation in the fall of 2008. The technical memorandum reporting the results of the soil gas investigation was finalized in early 2009. A human health risk evaluation technical memorandum was prepared in August 2010 to document human health risks from soil at each exposure unit and to determine a path forward for sampling of backyards. The RI report for Site 12, excluding the SWDAs, was finalized on June 20, 2012.

The Navy is planning to conduct additional radiological investigations of areas outside the known SWDAs.



Aerial photographs taken by American Aerial Surveys Inc. on May 10, 2012.

Transfer Category	--
Regulatory Classification	CERCLA
Acreage	93.2
Source of Concern	Incinerator; debris disposal areas; former storage yard
Contaminants of Concern	PCBs, PAHs, dioxins, TPH, metals, Radium-226, and debris
Interim Actions	<ul style="list-style-type: none"> • Soil removal action conducted at SWDA 1207/1209 between June and August 1999. • Soil removal action conducted at SWDA A&B, November 1999. • Soil removal action conducted north of Mariner Drive Petroleum Area to remove PAHs in shallow soil in 2001. • Soil removal action conducted at former storage yard at Halyburton Court in 2000 to 2001.
Current Status	<ul style="list-style-type: none"> • NTCRA of SWDAs is underway (with MARSSIM FSS surveys). • NTCRA Work Plan for Bigelow Court is being prepared. • RI report finalized on June 20, 2012. • Non-SWDA radiological scoping survey of Site 12 is being planned.
USTs/ASTs	One previously suspected UST received NFA concurrence from the Regional Water Board December 2, 2003.
Estimated Site Closeout	June 2018

SITE 13 – STORM WATER OUTFALLS/OFFSHORE SEDIMENTS

Site 13 comprises the offshore areas around the perimeter of NAVSTA TI and Clipper Cove. It excludes Site 27, the former skeet range located in the Clipper Cove, and a submerged parcel that has been reassigned to the USCG. In 1992, the Navy collected data to assess whether chemicals were moving off shore via the storm water outfalls. Based on the results of this storm water investigation, it was determined that chemicals may have been released to the offshore areas and that further investigation of Site 13 was warranted. A second investigation was therefore conducted in 1996 to further characterize the sources, extent, and potential toxicity of chemical contamination in the offshore sediments. The results of these two offshore investigations indicated that metals, PCBs, PAHs, dichlorodiphenyltrichloroethane (DDT), and other organic compounds were the chemicals most frequently detected in the sediment samples.

In 2001 and 2002, two additional investigations were conducted of the sediments adjacent to possible onshore source areas at Sites 11 and 12, where burned solid waste or PCB-contaminated material may have been deposited. Offshore samples were collected and analyzed for TPH and PCBs. Concentrations of metals, PCBs, and TPH in the offshore sediments were not found to be elevated. These studies indicated that no additional investigation was needed. A PP for Site 13 was prepared and released to the public on April 1, 2004. Results of four offshore sediment investigations were used to conduct an ecological risk assessment, which concluded the offshore sediments at Site 13 do not pose an unacceptable risk to the environment. Following a public meeting that presented the no-action alternative, a ROD was drafted and signed April 7, 2005.

Transfer Category	Upcoming FOST
Regulatory Classification	CERCLA
Acreage	520
Source of Concern	Storm drains, storm water outfalls
Contaminants of Concern	Metals, PAHs, PCBs, DDT, and TPH
Interim Actions	None
Current Status	No action ROD signed on April 7, 2005.
USTs/ASTs	None
Site Closeout	Closed

SITE 21 – VESSEL WASTE OIL RECOVERY AREA

Site 21, the Vessel Waste Oil Recovery Area, is along the southeastern edge of TI, adjacent to Clipper Cove. Site 21 was originally a 400-foot-long by 75-foot-wide area along the shoreline. The site boundary has since been expanded to include the open area between Building 3 and the shoreline.

The vessel waste oil recovery area operated between 1946 and 1995. Waste oil from ships was unloaded into cylindrical steel shells called “donuts.” From the “donuts” the waste oil was transferred to an onshore oil-water separation facility at Site 21. The separation facility consisted of five aboveground tanks, each with a capacity of 2,000 gallons. These tanks were removed in 1995. The separation system was maintained on a paved area that was reportedly heavily stained, but little staining is still visible. Analytical data from the sampling of monitoring wells at Site 21 demonstrated no pattern of elevated levels of TPH in groundwater.

Building 3, near the waste oil recovery area, was used for various activities, including aircraft maintenance. A dip tank to clean aircraft parts was reportedly located at the southeastern corner of Building 3. No records are available that describe the types and quantities of chemicals used or disposed of during parts cleaning operations; however, use of the solvents tetrachloroethene (PCE) and trichloroethene (TCE) as degreasing agents for cleaning metal parts was widespread at the time of Navy operations. Contamination of groundwater at Site 21 is believed to be from small spills of PCE and TCE in the dip tank area during former parts cleaning operations.

Most of the smaller buildings in the area of Site 21, such as Buildings 289, 290, and 325, serve as storage areas.

A treatability study, to evaluate cleanup alternatives for contaminated groundwater at Site 21, was ongoing between August 2005 and August 2010. The treatability study report was completed in March 2011. One additional year of groundwater monitoring is in progress. An RI report for Site 21, finalized in February 2007, recommended a FS be conducted using data collected from treatability studies of in situ treatment technologies. The Focused FS (FFS) was submitted in February 2009. At the request of the BCT, the Navy conducted a soil gas investigation at the site in February 2012 and is preparing an HHRA addendum to present the results of the soil gas sampling. A PP was prepared in October 2011, and a public meeting was held November 2, 2011, to outline the Navy’s preferred alternative of institutional controls for the site. A ROD/Remedial Action Plan (RAP) is being finalized and will incorporate the most recent treatability study and soil gas sampling results. The draft Land Use Control (LUC) Remedial Design (RD)/Remedial Action Work Plan (RAWP) is being prepared.



Aerial photographs taken by American Aerial Surveys Inc. on May 10, 2012.

Transfer Category	--
Regulatory Classification	CERCLA, UST
Acreage	2
Source of Concern	OWS; ASTs; petroleum, oil, lubricants lines; dip tank
Contaminants of Concern	VOCs and TPH
Interim Actions	Treatability study for VOC source area
Current Status	<ul style="list-style-type: none"> • Treatability study is complete. • Soil gas HHRA addendum is being prepared. • Groundwater monitoring continues. • PP/Draft RAP is complete. • ROD/RAP being finalized. • Draft LUC RD/RAWP is being prepared.
USTs/ASTs	ASTs 12A through 12E removed
Estimated Site Closeout	November 2017

SITE 24 – DRY CLEANING FACILITY

Site 24 is located on the southeastern part of TI and extends from the central portion of the island east, toward the Bay. Site 24 encompasses two former CERCLA sites, Sites 05 (the Old Boiler Plant) and 17 (ASTs 103 and 104), which are located along the southwest boundary of Site 24. Petroleum sites within Site 24 include Site 04/19, the former Hydraulic Training School/Refuse Transfer Area; Inactive Fuel Line sites D1A, D4B, F2B, and a small portion of Site F2A; Building 530 Fuel Line Site; and former UST 230.

Other Sites within the Site 24 Boundary

Former Sites 5 and 17 were incorporated into Site 24 for further investigation. Site 5 included Building 102, a boiler plant operated from 1943 through 1968 when it was demolished. Various chemicals may have been used during the boiler operations to prevent scaling. Typical chemicals used to prevent scaling include morphaline, caustic soda, sulfite, and brine. It is reported that building debris, including asbestos-containing materials (ACM), were buried where the building stood. Pipeline trenching in 1987 uncovered the buried debris, including asbestos insulation. The debris was not removed, but instead backfilled and covered with asphalt. Following recommendations in the 1988 PA/SI to further evaluate the area, ground-penetrating radar (GPR) was used to delineate the disposal area. Soil samples were collected from borings and a test pit and analyzed for asbestos. No asbestos was observed during field activities and no asbestos was detected in the soil samples collected. It was decided in January 2001 that the CERCLA constituents within the Site 5 boundary will be considered a part of Site 24 and will be evaluated in the Site 24 RI report. The petroleum-related constituents were evaluated as part of Fuel Line Site F2B, which has since been closed by the Regional Water Board.

Site 17 contains the area surrounding ASTs 103 and 104. The ASTs are each 200,000-gallon-capacity diesel fuel storage tanks, approximately 20 feet in diameter, and 20 feet high. They are surrounded by a concrete paved area and a 4-foot-high berm built sometime after 1983. A small pump house, Building 105, is situated between the two tanks. The ASTs were installed before 1943, decommissioned in 1993, and emptied and cleaned in 1996, but have not yet been dismantled. Historical releases in the area have been documented. A second possible source of contamination is waste oil, possibly containing PCBs, which was reportedly spread at least once around the base of both ASTs for weed and dust control. This practice was discontinued when the area was paved after 1983. The ASTs were investigated and closed as part of Fuel Line Site F2B.

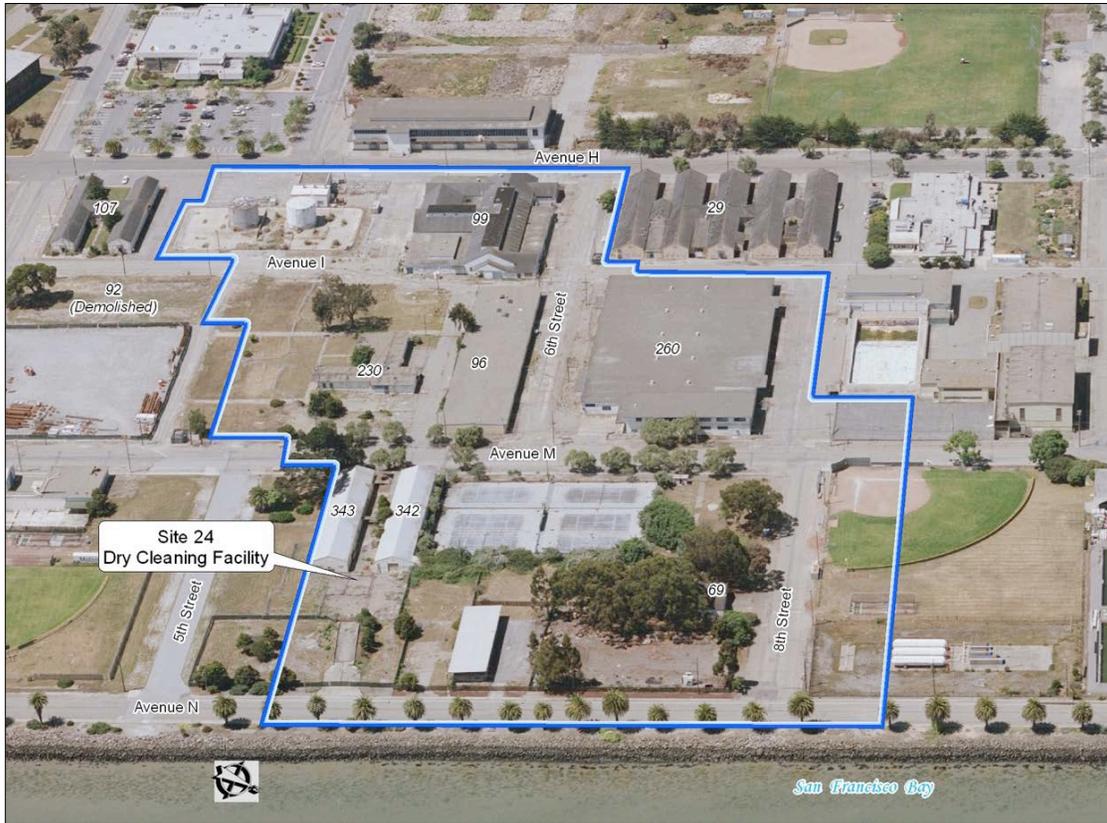
Former Petroleum Program Sites 4 and 19 are also within the Site 24 boundary. In December 2003, the Regional Water Board concurred NFA is required for petroleum contamination at Sites 4 and 19. In addition, former fuel pipelines D1, D2, D4, and F2 traversed portions of Site 24. Fuel leaks associated with the fuel lines have been addressed under the Petroleum Program. A removal action was completed along former fuel line F2 along 5th Street. The Regional Water Board concurred that NFA was required at fuel lines F2A and F2B. A boundary change for Site 24 proposed in March 2005 adjusted the boundary to completely encompass Building 99 and an associated VOC plume (discussed below), as well as reduce overlap with the F2 fuel line sites and the Site 33. The BCT concurred in November 2005.

Building 99 VOC Plume

Building 99 is located in the northwestern section of Site 24. It was used as a laundry facility from 1942 to 1977 and as a dry cleaning facility for an unknown interval within that period. Waste solvents used during dry cleaning operations were discharged to soil and groundwater beneath the floor of Building 99 from leaks or spills. The volume of solvents that was released to the ground is unknown. Building 99 was later used for meat processing and as a print shop, and most recently as an office and workshop for film sets.

The Navy conducted an investigation from April through July 2003 to delineate the horizontal and vertical extent of a plume of VOCs in groundwater that originates from Building 99 within Site 24. A treatability study was conducted in the source area under Building 99, through March 2004, to evaluate anaerobic in situ bioremediation (ISB) as a potential remedial option to treat high VOC concentrations at the site. The treatability study was expanded in late 2004 and early 2005 to evaluate the effectiveness of the ISB treatment to address low VOC concentrations in the more mobile portions of the plume. The expanded treatability study in the plume area successfully reduced VOC concentrations to below the treatability study cleanup goal of 100 micrograms per liter total VOCs in most areas of the plume. The treatability study was expanded again in 2008 to investigate the potential presence of dense nonaqueous-phase liquids in the vicinity of Building 99 and to test reversal of the injection and extraction pump system to optimize bioorganism circulation and degradation. The treatability study report for Phase II and the work plan for Phase III were completed. The Phase III efforts started in November 2011 and are currently under way to promulgate the enhanced degradation of chlorinated ethenes in groundwater areas of low and medium concentrations to reduce or eliminate a continuing source for soil gas contamination, via a vapor intrusion pathway, and potentially reduce the need for land use controls (LUCs).

The Final RI/FFS was submitted July 3, 2008. At the request of the BCT, the Navy conducted a soil gas investigation at the site in November 2011. Annual groundwater monitoring continues.



Aerial photographs taken by American Aerial Surveys Inc. on May 10, 2012.

Transfer Category	--
Regulatory Classification	Petroleum; CERCLA; UST
Acreage	20.46
Source of Concern	Solvent spills and leaks within Building 99; petroleum, oil, lubricants
Contaminants of Concern	Petroleum, oil, lubricants, chlorinated solvents
Interim Actions	Treatability study for VOC source and plume areas
Current Status	<ul style="list-style-type: none"> Expanded treatability study (in situ bioremediation) in progress. Groundwater monitoring continues.
USTs/ASTs	<ul style="list-style-type: none"> UST 230 closed by the Regional Water Board in 1997. ASTs 103, 104 received NFA concurrence from the Regional Water Board May 9, 2005. ASTs 455A-D (boiler additives) are noted as inactive.
Estimated Site Closeout	September 2020

SITE 27 – CLIPPER COVE SKEET RANGE

Site 27, located in Clipper Cove, is situated directly between TI and YBI. Between 1979 and 1989, a portion of Clipper Cove was used as a naval skeet range. Naval personnel fired lead shot over the water as clay skeet targets were launched from the shoreline. In 1993, the Clipper Cove Skeet Range was identified as a potential environmental concern, based on the Regional Water Board Order No. 93-130 “Site Cleanup Requirements for NAVSTA TI Skeet Range.” In October 1993, the BCT agreed to comply with the Regional Water Board Order requirements through the CERCLA process and include the Clipper Cove Skeet Range in the Navy’s IR Program as Site 27 (Remedial Project Manager/BCT Meeting Minutes October 1993). In 1996, samples were collected at Site 27 to define the vertical and horizontal extent of lead shot, lead, and PAHs in the offshore sediments and overlying surface water. Additional investigation of lead and PAHs in the onshore soils of Site 27 was conducted under the EBS data gaps investigation in 2004. In September 2005, a hydrographic study was conducted to evaluate sedimentation rates and deposition in Clipper Cove. The results indicated steady-state conditions and sediment thickness may not be protective of diving ducks within 150 feet of the shoreline; therefore, an additional sediment investigation to characterize the distribution of lead shot in near-shore sediments was conducted in March 2008. The investigation indicated that lead shot is covered by only 1 foot of sediment in some near-shore locations. A revised FS report was finalized August 13, 2010.

The Navy prepared a site boundary change technical memorandum to exclude the upland portion of the site in support of property transfer. The boundary change was finalized on August 20, 2010. The PP/Draft RAP was finalized in June 2011 and a public meeting was held on June 14, 2011. The ROD/RAP was finalized in April 2012, and the RD is being prepared.



Aerial photographs taken by American Aerial Surveys Inc. on May 10, 2012.

Transfer Category	--
Regulatory Classification	CERCLA
Acreage	18.77
Source of Concern	Skeet range
Contaminants of Concern	Lead shot, lead, and PAHs
Interim Actions	None
Current Status	RD is being prepared.
USTs/ASTs	None
Estimated Site Closeout	January 2014

SITE 28 – WEST SIDE ON/OFF RAMPS

Site 28 is located in the western portion of YBI and is bounded to the west by the Bay, to the east by Treasure Island Road, and to the south by Site 29. The Navy owned the property comprising the area beneath the bridge until 2001, when the FHWA transferred the bridge right-of-way from the Navy to Caltrans. A CERCLA site boundary change in June 2005 transferred the southernmost portion of Site 28 to Site 29. This was done so that the remaining area of Site 28 would remain as Navy property, and most of Site 29 would be Caltrans property. Apart from the roads running through Site 28, most of the site is steeply sloped to the southwest toward the Bay and densely vegetated with trees and brush.

The Bay Bridge connects San Francisco with Oakland and other East Bay cities and crosses NAVSTA TI through a tunnel on YBI. Treasure Island Road has been in operation since the Bay Bridge was constructed in 1936.

Site 28 was not included in the IR Program until after the 1992 draft Phase I RI reporting period. An initial soil investigation was conducted in 1993 by Blaine Technical Services, Inc., a subcontractor to Seaworkers, Inc. The investigation was conducted in connection with health and safety concerns for workers performing seismic improvements to the on/off ramps in areas possibly containing elevated concentrations of metals in airborne dust. Additional investigations performed as part of the primary Phase IIB RI were reported in the draft 1997 RI report. In December 2001, the Navy completed a validation study to confirm results of the screening-level ecological risk assessment included in the 1997 RI report for the Peregrine Falcon (*Falco peregrinus*). The study concluded that no unacceptable risk was posed to the falcon at Sites 8, 11, 28, and 29. The surface soil on the site may be contaminated by lead and other metals as a result of vehicle emissions, as well as bridge and ramp painting and maintenance.

The Navy finalized the RI report with recommendations for NFA. An NFA PP and public comment period were completed by April 29, 2010. A NFA ROD was signed on November 22, 2010. Although Site 28 has a NFA ROD and no LUCs will be included as part of the CERCLA remedy, use of the property will be restricted due to placement in the Tidelands Trust.



Aerial photographs taken by American Aerial Surveys Inc. on May 10, 2012.

Transfer Category	FOST Site 28 Parcel (YBI FOST 3)
Regulatory Classification	CERCLA
Acreage	10.53
Source of Concern	LBP from the Bay Bridge
Contaminants of Concern	Lead
Interim Actions	None
Current Status	<ul style="list-style-type: none"> • NFA PP was finalized in May 2010. • NFA ROD was signed November 22, 2010.
USTs/ASTs	None
Estimated Site Closeout	April 2013 (time allocated for transfer/tidelands trust exchange)

SITE 29 – EAST SIDE ON/OFF RAMPS

Site 29 is located below and parallel to the Bay Bridge from the northeastern portion of YBI westward to the YBI tunnel, with a portion of the site on the western side of the YBI tunnel. The western and central portions of the site are mostly covered by pavement or concrete associated with the bridge and the on- and off-ramps. The Navy owned the property comprising the area beneath the bridge until 2001, when the FHWA transferred the bridge right-of-way from the Navy to Caltrans. The Bay Bridge and west side on/off ramps border the southern portion of Site 28 and were included in Site 29 based on the boundary change made in June 2005. The boundary change did not add or delete acreage to the total of Site 28 and Site 29, but only transferred a portion of Site 28 to Site 29. The remainder of the site, on the east side of the YBI tunnel, is steeply sloped to the southwest and vegetated with trees and brush. The YBI on/off ramps have been in operation since the Bay Bridge was constructed in 1936. The Bay Bridge connects San Francisco with Oakland and other East Bay cities and crosses NAVSTA TI through a tunnel on YBI. The surface soil on the site may be contaminated by lead and other metals from vehicle emissions, as well as bridge and ramp painting and maintenance.

Site 29 was not included in the IR Program until after the 1992 draft Phase I RI reporting period. While Site 29 was not investigated during the Phase I RI, samples for the Site 11 RI (adjacent to Site 29) were collected within the Site 29 boundary. Additional investigations performed as part of the primary Phase IIB RI were reported in the draft 1997 RI report. In December 2001, the Navy completed a validation study to confirm results of the screening-level ecological risk assessment included in the 1997 RI report for the Peregrine Falcon (*Falco peregrinus*). The study concluded that no unacceptable risk was posed to the falcon at Sites 8, 11, 28, and 29.

Petroleum Program investigations have overlapped with the Site 29 boundaries. The former fuel pipelines YF3 and USCG were investigated in 1997, and additional borings were drilled in 2000 and 2001 for further delineation of the extent of contamination along the former fuel pipelines. The Regional Water Board has requested the Navy to perform additional investigation along this section of the pipeline. Removed UST 270, formerly within the Site 29 boundaries, was investigated from 1995 to 1997. The Navy received an NFA closure letter from the Regional Water Board for UST 270 in 2004.

An SI was performed by Caltrans in 2001 to chemically characterize soil and groundwater for potential contaminants that may be encountered during construction activities. In 2002, additional lead investigations were conducted to fully delineate the extent and magnitude of lead in surface soils at Sites 8, 11, and 29; collect additional soils data for comparison to the validation study results; and provide additional data, if needed, for the HHRA presented in the 1997 RI report for Sites 8, 11, and 29. Field inspections of Site 29 were performed in April and October of 2006 to verify removal of contaminated soil by Caltrans and to document ongoing construction activities.

The Navy finalized the interim RI report for Sites 8 and 29 in March 2009, and is discussing site closeout with Caltrans. The schedule in [Appendix B](#) is based on Caltrans' quarterly schedule. After bridge construction is complete, an RI addendum will need to be prepared for the site. In December 2010, the Navy finalized a site boundary change technical memorandum to exclude the Bay Bridge on/off-ramp in support of property transfer. In December 2011, the Navy finalized another site boundary change technical memorandum to exclude the three "artifacts" from Site 29 in support of property transfer.



Aerial photographs taken by American Aerial Surveys Inc. on May 10, 2012.

Transfer Category	On Caltrans-owned property. On Caltrans temporary construction easement property.
Regulatory Classification	CERCLA, UST
Acreage	15.13
Source of Concern	LBP from the Bay Bridge, fuel line
Contaminants of Concern	Lead and SVOCs
Interim Actions	None
Current Status	<ul style="list-style-type: none"> • Interim RI report (for Sites 8 and 29) was submitted in March 2009. • Navy is discussing site closeout with Caltrans.
USTs/ASTs	<ul style="list-style-type: none"> • UST Quarters 8: removed, received NFA concurrence from the Regional Water Board October 3, 1997. • UST 213, previously suspected, never existed: received NFA concurrence from the Regional Water Board December 2, 2003.
Estimated Site Closeout	January 2020

SITE 30 – DAYCARE CENTER

Site 30, Daycare Center, is located south of the Treasure Island Elementary School, at the corner of Avenue D and 11th Street. The site was undeveloped until the Navy's former daycare center was built in 1985. After NAVSTA TI closed, the Treasure Island Daycare Center was leased to the City of San Francisco under a finding of suitability to lease (FOSL) on July 29, 1997. The current daycare center opened on March 17, 2003.

As part of the EBS to support the leasing of the daycare center, the Navy reviewed a 1989 as-built drawing of the water lines in the area; the drawing noted the comment "buried trash" along 11th Street. In 2002, a series of investigations identified various types of wastes, including buried burned debris associated with historical practices that contained lead at concentrations that exceeded the site soil screening level. Based on these findings, in July 2002, the Navy completed a time-critical removal action. Additional burned debris was found, and analytical results for soil samples showed the presence of dioxins, lead, arsenic, and vanadium. The Navy continued to investigate in an effort to delineate the extent of the burned debris and dioxin contamination. Some of the soil containing burned debris was not accessible and could not be removed. In January 2003, the Navy therefore installed a 6-inch concrete pad adjacent to the daycare center to cover the 1,400-square-foot area around and between the locations that contain elevated concentrations of dioxin in the subsurface soil. The concrete pad serves as a protective barrier to prevent contact with the soil. The site was designated as a CERCLA site in September 2002. The Site 30 boundary adjacent to Site 31 was modified in February 2005 to exclude the sidewalks on the south side of 11th Street.

A groundwater investigation was conducted in May 2004. Samples were analyzed for VOCs, SVOCs, metals, TPH, pesticides, PCBs, and dioxins. No chemicals were detected above TI groundwater screening values. The RI report was finalized in February 2006. The FS was finalized in November 2006. The PP was finalized September 18, 2008 and the public meeting was held on October 7, 2008. The ROD was finalized August 5, 2009. The LUC RD/RAWP was finalized on November 24, 2010. Annual LUC inspections and reporting are ongoing. Based on the results of the draft HRA supplemental technical memorandum, a radiological scoping survey will be conducted at Site 30 in the area of the adjacent former salvage yard.



Aerial photographs taken by American Aerial Surveys Inc. on May 10, 2012.

Transfer Category	--
Regulatory Classification	CERCLA
Acreage	1.46
Source of Concern	Burn debris disposal area
Contaminants of Concern	Dioxins and metals
Interim Actions	Time-critical removal actions in July 2002 and agency-approved concrete cap installed January 2003.
Current Status	<ul style="list-style-type: none"> • Annual LUC inspections and reporting are ongoing. • Radiological scoping survey is being planned.
USTs/ASTs	None
Estimated Site Closeout	April 2015

SITE 31 – FORMER SOUTH STORAGE YARD

Site 31, the asphalt-covered playground south of the Treasure Island Elementary School, referred to as the Former South Storage Yard, is located at the corner of Avenue E and 13th Street. According to historical aerial photographs, Site 31 was used during the 1970s as a storage yard; however, the nature of, and operations at the storage yard are unknown. In the late 1970s, the area was paved over and developed as a playground for the elementary school. Based on the FOSL and the restrictions identified therein, the Navy entered into a lease agreement with the San Francisco Unified School District (SFUSD) on May 13, 1996 for the elementary school and associated playground. The school had originally been constructed by SFUSD around 1968 when the military housing was built, and was operated under a previous agreement with the Navy until the 1996 lease agreement.

In 2002, the Navy investigated the area because of its former use as a storage yard and because of the reference to an “old trash dump” noted on a 1989 as-built drawing for the 11th Street water line replacement project. An initial investigation identified the presence of construction and burned debris. The initial investigation also identified concentrations of lead, PCBs, and DDT in soil that were elevated above the site screening levels. These chemicals may have been associated with fuel leaks or other releases from the machinery, electrical equipment, and paint that were stored in the former storage yard area. The site was designated as a CERCLA site in September 2003. The Site 31 boundary, adjacent to Site 30, was modified in April 2005 to include the sidewalks on the south side of 11th Street.

An additional soil investigation in 2003 identified concentrations of TPH as diesel and motor oil, PAHs, and dioxins at the site. The asphalt currently serves as a protective barrier to prevent contact with the soil beneath the playground. A groundwater investigation was conducted in May 2004. Samples were analyzed for VOCs, SVOCs, metals, TPH, pesticides, PCBs, and dioxins. None of these chemicals were detected above TI groundwater screening values.

The RI report was finalized in July 2006. The FS report was finalized in March 2007. The PP was finalized September 18, 2008 and the public meeting was held on October 7, 2008. The ROD was finalized on August 5, 2009. A final soil remediation work plan was submitted January 28, 2010. The soil remediation field work (referred to as Phase I) began in February 2010, and continued through July 2010. Radium-226 has also been detected at the site.

The Navy finalized a RAWP on January 27, 2012, for additional excavation and radiological characterization of soil (referred to as Phase II) at Site 31. The Navy is currently conducting the Phase II soil remediation for Site 31 that includes radiological characterization because of the site’s proximity to Site 12, site history, and presence of debris at the site. After the remedial action has been implemented, the Navy will conduct a gamma walkover survey and prepare a Remedial Action Completion Report (RACR) and FSS for Site 31.



Aerial photographs taken by American Aerial Surveys Inc. on May 10, 2012.

Transfer Category	--
Regulatory Classification	CERCLA
Acreage	2.02
Source of Concern	Storage yard, burn debris disposal
Contaminants of Concern	Lead, dioxins, PAHs, PCBs, TPH, and radium-226
Interim Actions	None
Current Status	Phase II soil remediation is being conducted.
USTs/ASTs	None
Estimated Site Closeout	March 2013

SITE 32 – FORMER TRAINING AND STORAGE AREA

Site 32, the Former Training and Storage Area, consists of portions of EBS Parcels T111 and T115, is east of the WWTP on Avenue M and includes Buildings 462 and 463. The area has been used as a parking area for vehicles and forklifts, a storage area for hazardous materials and hazardous wastes, a tear gas training area, and as storage for former training facilities. A concrete pad, located north of Building 463, formerly held an electrical transformer. Historically, the site was also used for radiological decontamination training. The Damage Control School was relocated from the northwestern area (Site 2) to the northeastern area of the base in March of 1970. The new training complex consisted of Buildings 461, 462, 463, and the exercise area containing the U.S.S. Pandemonium mockup. Training activities at the complex are discussed in more detail in the “Final Treasure Island Naval Station Historical Radiological Assessment” by Weston Solutions, Inc., published February 2006. The “Historical Radiological Assessment” evaluated past operations in the vicinity and determined that radiological issues were not a concern at Site 32. Building 445 is located within Parcel T115 and was historically used for forklift maintenance, boat motor storage, general shop activities, and administrative offices. The Site 32 area was designated for investigation because fluid that contained PCBs was known to have been released from the former transformer and to assess the possibility of contamination associated with historical site usage.

Initial investigations, under the EBS data gaps investigation, were conducted at the site in April 2003. Additional investigations were conducted between September and November 2003. Soil and groundwater samples were collected. Soil samples from the initial investigation contained concentrations of PCBs, TPH as diesel and motor oil, dioxins, and pesticides. There were no detections in groundwater above screening criteria. The site was designated as a CERCLA site on April 6, 2004. An adjustment to the boundary between Sites 6 and 32 was made in June 2005. Additional trenching activities were performed at Site 32 in October 2005 to investigate the nature and extent of dioxins in shallow soils. An RI report has been completed that recommends the completion of an FS. A Toxic Substances Control Act (TSCA) PCB remediation, which was an interim removal action that also addressed arsenic, was completed at Site 32 in March 2010. A year of post removal action groundwater monitoring was completed in February 2012, and a groundwater monitoring summary report was finalized in July 2012. All COC concentrations were either non-detected or detected at low-levels during all four quarterly sampling events. There is no indication of existence of the residual petroleum contamination in the groundwater. No further actions were recommended for groundwater at Site 32. A post-construction summary report was finalized in July 2011. Both the PP/Draft RAP was finalized September 16, 2011, and a public meeting was held on September 28, 2011. A ROD/RAP is on hold pending the results of a radiological scoping survey of the former Pandemonium mockup location.



Aerial photographs taken by American Aerial Surveys Inc. on May 10, 2012.

Transfer Category	--
Regulatory Classification	CERCLA
Acreage	2.60
Source of Concern	Transformer, storage area
Contaminants of Concern	PCBs, TPH, dioxins, pesticides, arsenic
Interim Actions	TSCA soil removal in 2010.
Current Status	<ul style="list-style-type: none"> • ROD/RAP is being prepared. • Radiological scoping survey is being planned.
USTs/ASTs	None
Estimated Site Closeout	November 2014

SITE 33 – WATER LINE REPLACEMENT AREA

Site 33, the Water Line Replacement Area, is located south of Site 24. The area was identified on historical as-built drawings, which showed locations where crews observed debris in the trench for the water line during extensive repairs in the 1980s. In addition, areas of debris were identified near Building 530 (Parcel T015) during removal of a petroleum pipeline. Most of the areas of debris are within the footprint of the former Lake of the Nations, constructed for the Golden Gate International Exposition of 1939 and 1940.

Initial investigations, under the EBS data gaps investigation, were conducted at the site in April 2003. Additional investigations were conducted between September and November 2003. Soil and groundwater samples were collected. Soil samples contained concentrations of dioxins and metals. An additional groundwater investigation was conducted in the summer 2005. Groundwater samples contained concentrations of copper, lead, mercury, nickel, silver, and zinc. The site was designated as a CERCLA site on April 6, 2004. The RI report was finalized on April 30, 2010. An Explanation of Significant Differences (ESD) was finalized on May 24, 2011, to complete the RA for Site 33 under the Site 31 ROD.

The Navy finalized a RAWP on January 27, 2012, for excavation and potential radiological characterization of soil at Site 33. The Navy is currently conducting the soil remediation for Site 33. Radium-226 screening is being conducted because of the presence of debris at the site, and the 2006 Historical Radiological Assessment stated that the Navy would evaluate the site further. After the remedial action has been implemented, the Navy will prepare a RACR for Site 33.



Aerial photographs taken by American Aerial Surveys Inc. on May 10, 2012.

Transfer Category	--
Regulatory Classification	CERCLA
Acreage	4.89
Source of Concern	Debris disposal area
Contaminants of Concern	Arsenic and lead
Interim Actions	None
Current Status	Phase II soil remediation is being conducted.
USTs/ASTs	None
Estimated Site Closeout	December 2012

PETROLEUM PROGRAM

SITE 4/19 – HYDRAULIC TRAINING SCHOOL/REFUSE TRANSFER AREA

Site 4 is located approximately 200 feet north of 5th Street, between Avenues M and N. Sites 4 and 19 are generally referred to as Site 4/19. Site 4 is known as the Hydraulic Training School and includes a paved, fenced area that formerly contained about fifteen 55-gallon drums of waste oil (mainly transmission oil). Waste oil released from drums stored at the site is the primary potential contaminant. Waste oil leaks or spills stained the underlying concrete pavement and an adjacent earthen area. Several hundred square feet of surface area has been affected. The site also includes an eastern lot, referred to as the investigation-derived waste storage area.

Site 19, located just south of Site 4, is known as the Refuse Transfer Area. The site was used to hold and transfer refuse beginning in 1953; it is unknown when operations ceased. Little information exists regarding disposal practices before 1970. Previous environmental assessments have found small isolated areas of oil, grease and petroleum hydrocarbons in surface soils.

The closure report requesting NFA was submitted on December 15, 2003, and Regional Water Board concurrence was received. Additional investigation of PAHs in soils was conducted under the EBS data gaps investigation in 2004.

Transfer Category	Portion of 2010 FOST Parcel 5
Regulatory Classification	Petroleum Program
Acreage	1.72
Source of Concern	Storage area; spill area; maintenance yard; transfer facility
Contaminants of Concern	Petroleum, oil, lubricants
Interim Actions	None
Current Status	NFA concurrence received from Regional Water Board on December 17, 2003.
USTs/ASTs	None
Site Closeout	Closed

SITE 6 – FIRE TRAINING SCHOOL

Site 6, the former Navy firefighting training school, was used for nearly 50 years (1944 to 1992) for various firefighting training activities. The training school formerly included 23 buildings, 6 USTs, and a central training yard, which consisted of burn areas lined with asphalt and concrete. Fires fueled with diesel and gasoline, magnesium, and wood were set in various mockups in the training yard and were extinguished with a mixture of water, biodegradable soap, and industrial talc. Approximately 19,000 gallons of gasoline and 32,000 gallons of diesel fuels were used each year for the firefighting training. Wastewater and unburned gasoline and diesel were collected in a concrete collector trench (installed in about 1949) situated around the perimeter of the training school yard. Wastewater and unburned gasoline and diesel collected in the trench passed through on-site oil water separators (OWS). No historical information has been discovered that discusses disposal of wastes before the perimeter concrete collector trench and the on-site OWSs were constructed. Wastewater generated and treated at the site was discharged to the NAVSTA TI wastewater treatment plant (WWTP), constructed in 1968, and waste diesel and gasoline fuels were disposed of at an off-base location. Before 1973, the wastewater that flowed to the concrete collector trench was discharged to the Bay without treatment. Approximately 14,000 gallons of petroleum residue was generated per year at the training school.

All buildings have been removed from the site. Four 1,500-gallon USTs (240A, 240B, 248A, and 248B) that contained gasoline and diesel for firefighting training were present within the northern and eastern portions of the training yard. USTs 240A and 240B were removed in 1992, and USTs 248A and 248B were removed in 1995. Two 1,000-gallon USTs (248C and 248D), previously used to store waste fuel, were removed in 2002. One known AST (248), located near UST 248D, was removed prior to 1995. UST M, a previously suspected UST for coolant, was reported in Shaw Environmental, Inc.'s (Shaw) "Final Facilitywide Underground Storage Tank Summary Report Update," dated August 25, 2004, as never having been installed, based on document reviews and discussions with Navy personnel. Petroleum remedial activities were conducted at Site 6 between May and December 2002. Remedial activities included excavation of USTs and excavation of petroleum-contaminated soils near the USTs, pipelines, and OWS components throughout the site. Remediation also included evaluation and excavation of free product near USTs 240A and 240B. In October 2002, during petroleum remedial excavation activities at the UST 248 area, burn surfaces were identified in the vicinity of the former Building 464 foundation. Shallow soil samples collected in this area had dioxin and furan concentrations above the soil screening levels. The excavation was subsequently expanded to include removal of burn debris and soot-discolored areas. Results from confirmation samples found dioxins and furans above the screening levels, causing Site 6 to be transferred to the CERCLA program on September 18, 2003.

Further investigation and delineation of dioxins and furans detected in soil was conducted under the CERCLA Program as part of the EBS data gaps investigation in 2003. Based on investigation results, the BCT agreed to a boundary revision for the CERCLA site at the June 7, 2005 BCT meeting. The boundary revision included a portion of Parcel T112 to the east and north of the WWTP area where dioxins were detected in shallow soil samples. On January 24, 2007, a second boundary revision was submitted separating Site 6 (CERCLA Program) and Site 6A (Petroleum Program). DTSC did not concur with the request to modify the boundary. Other investigations include a soil gas sampling program completed in October 2004 to evaluate VOC in soil gas near former USTs 240A and 240B. Groundwater at Site 6 continues to be monitored semi-annually under the Basewide Petroleum Sites Groundwater Monitoring Program.

Since 2008, Site 6 was used as a temporary excavated soil staging and loading area, including the RCA for the Site 12 non-time critical removal action (NTCRA). Prior to use for staging and loading activities, a baseline radiological survey was conducted. While staging and loading activities were ongoing, engineering controls were developed, air monitoring equipment was installed, and a surveillance program for health and safety was in place. In addition to engineering controls, best management practices, such as keeping soil stockpiles covered to prevent releases, were used. The soil staging and loading area activities included temporary stockpiling and loading of soil into bins at which point they were characterized and shipped off-site to a licensed disposal facility. The waste shipped offsite included both chemical and low level radiologically impacted soil (radium-226). Since 2008, soils have not been stockpiled at Site 6. Low level radiological waste that has been characterized and placed in sealed bins is stored in the Site 6 RCA while awaiting off-site disposal. Once the Site 12 NTCRA has been completed, a MARSSIM FSS will be conducted at Site 6.

To address the concerns expressed by the Regional Water Board, the Navy is planning to conduct additional investigations in the vicinity of the formerly removed USTs (240 series). In 2010, the Navy completed a CERCLA data gap investigation to further evaluate the nature and extent of chemicals in soil, soil gas, and groundwater. The Navy is currently preparing a combined RI/FS. The RI report will incorporate comments received on the 2007 proposed boundary revision request and the 2010 data gap investigation results.



Aerial photographs taken by American Aerial Surveys Inc. on May 10, 2012.

Transfer Category	--
Regulatory Classification	Petroleum; CERCLA
Acreage	3.45
Sources of Concern	USTs, firefighting training area, OWSs
Contaminants of Concern	Petroleum
Interim Actions	<ul style="list-style-type: none"> • USTs removed in 1992, 1995, and 2002. • Floating product removal action completed in 2002.
Current Status	<ul style="list-style-type: none"> • Annual groundwater monitoring continues. • Additional investigation of removed USTs (240 series) is being planned under a Corrective Action Plan.
USTs/ASTs	<ul style="list-style-type: none"> • AST 240, 248 and USTs 240A, 240B, 248A, 248B, 248C, and 248D all are removed and awaiting NFA concurrence. • Previously suspected UST M received concurrence on NFA December 2, 2003.
Estimated Site Closeout	June 2013

SITE 14/22 – NEW FUEL FARM/NAVY EXCHANGE SERVICE STATION

Site 14/22 is located along the shoreline in the northeastern portion of TI. It served as a fuel storage area and gas station for more than 50 years. Fuel storage and dispensing activities at Site 14/22 resulted in releases of diesel, waste oil, and gasoline into the environment. Based on available information about the site history and operations, the suspected sources of gasoline, diesel, and petroleum contamination at Site 14/22 include the tanks and associated piping, a gasoline pumphouse (Building 85), and the service station (Building 330). A full-scale treatment system including air sparging and soil vapor extraction, installed in the area of the former USTs, has been dismantled. The system operated for 3 years and was effective in removing TPH. A soil cleanup action, including large-scale soil excavation, was completed at Site 14/22 in 2004.

Transfer Category	Upcoming FOST
Regulatory Classification	Petroleum; UST
Acreage	2.18
Source of Concern	ASTs and USTs; petroleum pipelines; vehicle maintenance
Contaminants of Concern	Petroleum, oil, lubricants, VOCs
Interim Actions	UST/AST removals completed, 1997 pipeline removal action completed, in situ groundwater treatment system completed, large-scale shallow soil excavation completed in 2004.
Current Status	NFA concurrence received from Regional Water Board on July 18, 2005.
USTs/ASTs	<ul style="list-style-type: none"> • USTs 85, 330A through 330F removed. • ASTs 4, 5, and 456 removed. • ASTs 6A through 6G removed. • AST 672 removed. • USTs 330C and 330D received closure July 22, 1996. • USTs 85, 330A, 330B, 330E, and 330F received NFA concurrence July 18, 2005, and are awaiting a closure letter.
Site Closeout	Closed

SITE 15 – OLD FUEL FARM

Site 15 is located on the southeastern shore of TI at the intersection of Avenues M, N, and California Avenue. The site was the original fuel storage and distribution facility for NAVSTA TI, which consisted of two large-capacity ASTs (4M and 5M), four smaller-capacity ASTs (collectively identified as AST 6M), a gasoline pump house (Building 84), a diesel pump house (Building 86), and a diesel oil clarifier (Building 85). In 1943, ASTs 4M, 5M, and 6M were relocated to the New Fuel Farm (Site 14). In 1945, Building 85 was moved to the New Fuel Farm, and Building 86 was demolished; Building 84 was demolished in 1961. Two smaller former diesel ASTs (ASTs 34A and 34B) were located near Building 34. Former fuel AST 34A was located on concrete mounts east of Building 34, and former fuel AST 34B was apparently located on a concrete pad next to an emergency generator southeast of Building 34. Investigations at Building 34 in 1985 revealed soil suspected of containing oil or petroleum hydrocarbons. No impact to groundwater has been identified in the area of Building 34.

Fuel lines, where found, were removed during remedial activities in 1997 and 1998. Preliminary remediation wells were installed in 2001 to assess TPH contamination in the eastern subarea, along fuel line D1 and approximately 400 feet west and downgradient of Building 34 within Site 15. The remediation wells were not effective at recovering free product because of the nature of TPH contamination at Site 15. The Navy excavated several areas of PAH-contaminated shallow soil in 2002, and continued monitoring groundwater at the site from 2001 until 2004. The site received concurrence from the Regional Water Board that NFA was required in September 2004.

Transfer Category	2006 TI FOST (FOST 1), Upcoming FOST, and Portion on Job Corps Property
Regulatory Classification	Petroleum
Acreage	4.87
Source of Concern	ASTs; petroleum/pipelines
Contaminants of Concern	Petroleum, oil, lubricants
Interim Actions	Tank removals completed and excavation of petroleum contamination completed.
Current Status	NFA concurrence received from Regional Water Board in September 2004.
USTs/ASTs	ASTs 4M, 5M, 6M, 34A, 34B; removed
Site Closeout	Closed

SITE 16 – CLIPPER COVE TANK FARM

Site 16, the Clipper Cove Tank Farm, is located on the eastern side of the isthmus that joins YBI and TI, adjacent to the causeway. Ten 17,000-gallon ASTs, reported to have stored aviation gasoline and automotive diesel fuel at Site 16, were in use from at least 1943 until they were dismantled in the 1960s. Sludge was removed from the ASTs during their dismantling, with unknown quantities of sludge reportedly deposited on bare ground east of the former AST locations. No documentation of removal and disposal of the sludge during the 1960s has been found. Based on the investigation at the site, it appears that at least some portion of the sludge was left on the surface to degrade and leach into the underlying soils. In 2001, contaminated surface soil was excavated by the Navy and disposed of off-site. The area has a picnic table and is currently unpaved and covered with shrubs and trees.

Transfer Category	2006 YBI FOST (FOST 2)
Regulatory Classification	Petroleum
Acreage	1.22
Source of Concern	ASTs
Contaminants of Concern	Petroleum, oil, lubricants
Interim Actions	Tank removal action completed; soil excavation completed.
Current Status	NFA concurrence received from Regional Water Board on June 17, 2004.
USTs/ASTs	10 ASTs removed
Site Closeout	Closed

SITE 20 – AUTO HOBBY SHOP/TRANSPORTATION CENTER

Site 20, the Auto Hobby Shop and Transportation Center, is located on the northwestern side of TI. Site 20 is fully encircled by Site 12. The area was used as the NAVSTA TI transportation center from 1943 to 1950. The transportation center included the transportation building (Building 194), garage and repair shop (Building 284), and storage or barracks (Building 225 and 267). In approximately 1961, Building 225 was converted to an Auto Hobby Shop, the garage portion of Building 224 was demolished, and the filling station became Building 370 (east of Building 225) until it was demolished in 1976. Four known USTs (225A through 225D) were located at Site 20, east of Building 225 at the site of the former service station; all four were removed in 1988. Approximately 2,200 cubic yards of soil surrounding the former USTs was excavated in 1990 and was aerated adjacent to the excavation. The Navy later disposed of the aerated soils at an off-site, permitted landfill. In 2001, soil was removed in the vicinity of the former USTs and in two areas of surface contamination. The Navy received concurrence on NFA for USTs at Site 20 on May 5, 2004, and received an overall site closure on June 17, 2004.

Transfer Category	--
Regulatory Classification	Petroleum; UST
Acreage	1.63
Source of Concern	Maintenance yard; USTs
Contaminants of Concern	Petroleum, oils, lubricants, VOCs
Interim Actions	UST corrective action completed; soil excavation completed.
Current Status	NFA concurrence letter received for USTs 225A through 225D; overall site closure letter received on June 17, 2004.
USTs/ASTs	USTs 225A through 225D removed
Site Closeout	Closed

SITE 25 – SEAPLANE MAINTENANCE AREA

Site 25 was previously used for vehicle and seaplane maintenance activities. Based on available information about the history and operations at the site, the suspected sources of gasoline, diesel, and petroleum contamination at Site 25 are (1) the suspected USTs, (2) the former fuel pump house (Building 143), (3) the former airplane and vehicle maintenance, (4) the causeway pipeline (between Sites 16 and 25), and (5) the former auxiliary boiler (Building 520) and associated AST. The seaplane maintenance area consists of a total of 11 buildings that were used for or associated with storing and maintaining seaplanes. Pipelines between Sites 16 and 25 have been removed. An in situ groundwater treatment system, including soil vapor extraction and air sparging, operated at the site until April 28, 2005.

The Navy submitted the “Final Site 25 Closure Report and Request for No Further Action” on December 7, 2005. Following correspondence with the Regional Water Board, a final letter from the Regional Water Board dated August 29, 2006, did not concur with closure and NFA request for the site. Additional groundwater monitoring was conducted at the site. In early 2009 soil samples were collected to confirm post-treatment concentrations of TPH. Results of the soil samples were presented in the Final Addendum to the Closure Report Site 25, submitted January 29, 2010, requesting NFA concurrence and closure of the suspected USTs 2B and 143A through 143I. At the request of the Water Board, the Navy conducted a targeted soil gas investigation in late 2010 and early 2011. The Navy submitted a technical memorandum to report the soil gas investigation results and vapor intrusion pathway evaluation and request site closure on March 7, 2011. The Regional Water Board provided concurrence on the Navy’s recommendation for NFA at the site in a letter dated October 28, 2011.

Transfer Category	2006 TI and YBI FOSTs (FOSTs 1 and 2), portion on upcoming FOST property
Regulatory Classification	Petroleum; UST
Acreage	3.26
Source of Concern	USTs; petroleum pipelines
Contaminants of Concern	Petroleum, oil, lubricants
Interim Actions	Groundwater monitoring
Current Status	NFA concurrence received from Regional Water Board on October 28, 2011.
USTs/ASTs	USTs 2B, 145, 143A-I suspected
Site Closeout	Closed

UST SITES (SITE 26)

USTs have been used at NAVSTA TI to store fuels and oils for package heaters or boilers at individual buildings, backup power generators, gas stations, firefighter training activities, and aviation. The tanks were filled either through underground pipeline or by tanker truck. In addition, a number of USTs were used to store waste oil. Most of the USTs were installed in the 1940s. The USTs were removed from service over time as the specific uses of the buildings changed; many of the USTs were out of service by the 1980s.

The Navy began investigating known and suspected USTs in the early 1980s because of California's UST operating regulations. In addition to tanks mentioned previously, numerous tanks were outside of site boundaries and were reported as individual closure efforts. The Navy submitted the facilitywide UST summary report (October 2003), which assigns each tank identified to one of three categories:

- **Known underground storage tanks:** USTs that are known to have existed.
- **Suspected underground storage tanks:** USTs that are suspected to have existed but that were removed previously or that may have been abandoned.
- **Previously suspected underground storage tanks:** USTs that were once thought to have existed but that are now suspected to have never existed based on further investigation.

Regulatory concurrence on closure or NFA has been achieved for 79 known, suspected, or previously suspected USTs at NAVSTA TI. USTs with known releases to the environment are closed pursuant to Title 23 of the *California Code of Regulations*. If the UST was used to store heating oil and had a capacity of less than 1,100 gallons, or if no release occurred, the Navy requests NFA and submits a letter to the Regional Water Board for concurrence. For sites that have received NFA concurrence, the Navy demonstrated to the Regional Water Board that NFA is required. For sites that received regulatory closure, the Navy has completed all site investigations and remedial actions related to the UST site.

All USTs on Navy property have been removed from service; the only active USTs on TI and YBI are operated by the USCG at its facility on YBI. The current status of all known and suspected USTs on TI and YBI are summarized below as well as shown on [Figures 7 and 8](#), respectively.

Previously Suspected Tanks with No Further Action Concurrence

Regulatory concurrence for NFA was received December 2, 2003, for 16 previously suspected tanks located at NAVSTA TI.

Letter Date	TI UST	YBI UST
December 2, 2003	3A, 3B, 7, 145, 180F, 180G, 267, 368C, 450, 452, 453, 461, FF8, and M	213, 262

Known or Suspected Tanks with Regulatory Closure or No Further Action Concurrence

The Regional Water Board issued concurrence for NFA on 24 tanks on TI and 19 tanks on YBI. Regulatory closure has been received for 25 tanks on TI and 5 tanks on YBI.

USTs with NFA Concurrence		
Letter Date	TI UST	YBI UST
July 23, 2002	--	1 through 7, 9, 10, 62, 240
September 5, 2003	234	57
February 12 ⁶ , 2004	15, 26, 29	--
June 17, 2004	140	204A, 204B, 204C, 204D, 221, 230, 237
September 21, 2004	227	--
May 9, 2005	14A, 14B	--
July 18, 2005	85, 330A, 330B, 330E, 330F	--
October 11, 2005	180C	--
October 28, 2011	143A, 143B, 143C, 143D, 143E, 143F, 143G, 143H, 143I, 2B	--

Closed USTs		
Letter Date	TI UST	YBI UST
July 22, 1996	1B, 1C, 1D, 1F, 2A, 2D, 180A, 180B, 330C, 330D	111, 169
October 3, 1997	180D, 180E, 230, 257	8 [QTR8, QR08]
July 7, 2000	1G [469]	--
February 25, 2002	1A, 1E, 2C, 368A	--
October 23, 2002	--	66
December 17, 2003	368B	--
February 10, 2004	201	270
May 5, 2004	225A, 225B, 225C, 225D	--

Tanks Requiring Regulatory Closure or NFA Concurrence

Six USTs on TI and one UST on YBI still require regulatory closure.

The Final Closure Report for Site 6, submitted December 16, 2005, requested tank closure for six USTs: 240A, 240B, and 248A through 248D. The suspected USCG tank on YBI (UST 238) requires additional investigation.

⁶ This date is approximate; the date on the letter is illegible.

Tanks Requiring Additional Investigation Prior to Closure or NFA Concurrence

Further investigation of Site UST 238 (USCG) on YBI is on hold until Caltrans completes work in the vicinity.

Tanks Proposed for Closure

Work has been completed at six USTs on TI at Site 6, including: 240A, 240B, and 248A through 248D. These tanks were proposed for closure in the Site 6 closure reports and are undergoing additional investigation.

Transfer Category	2006 TI and YBI FOSTs (FOSTs 1 and 2), various FOST parcels in upcoming FOST
Regulatory Classification	Petroleum
Acreage	Not applicable
Source of Concern	USTs, ASTs
Contaminants of Concern	Petroleum
Interim Actions	None
Current Status	The following tanks have been proposed for closure: <ul style="list-style-type: none">• Site 6 (240A, 240B, 248A, 248B, 248C, and 248D)
USTs/ASTs	Not Applicable
Estimated Site Closeout	April 2013 for Site 6 USTs; August 2014 for suspected UST 238

INACTIVE FUEL PIPELINE SITES

Fuel pipelines once traversed NAVSTA TI. Six main fuel lines were installed on TI as early as the 1940s and transported gasoline, diesel, bunker C fuel, and other petroleum products. [Figure 8](#) shows the fuel pipeline sites. Reports indicate that some fuel lines were inactive as early as 1945. The remaining fuel lines were reportedly removed from service in 1989. Three major fuel lines were installed in 1944 to carry fuel oil from storage tanks to steam boilers on YBI and have been inactive since 1980. A majority of the pipeline system has been removed or abandoned in place. Portions of the pipeline system where additional corrective actions are expected include the YF3 and USCG sites. Investigations for outstanding environmental issues at Inactive Fuel Line YF3, identified under the Petroleum Program, are currently being planned.

Remaining Fuel Pipeline Sites

The following fuel lines on YBI have not received regulatory closure: YF3 and USCG.

Closed Fuel Line Pipeline Sites

The fuel lines listed below on TI and YBI have received regulatory closure.

Transfer Category	2006 TI and YBI FOSTs (FOSTs 1 and 2), and various FOST parcels in an upcoming FOST
Regulatory Classification	Petroleum
Acreage	Not applicable
Source of Concern	Pipeline
Contaminants of Concern	Petroleum
Interim Actions	Pipeline removal action completed; floating product removal completed.
Current Status	<ul style="list-style-type: none"> • Regional Water Board letter received March 11, 2003, concurs with NFA at Causeway Pipeline. • Regional Water Board letter received July 9, 2003, concurs with NFA at Building 530 Pipeline. • Regional Water Board letter received February 12, 2004, concurs with NFA at Pipeline Sites D1A, D1C, D2A, D2B, D4A, D4B, D5, and YF1 and USTs 26, 29, and 15. • Requests additional investigation at Pipeline Site YF3 and USCG Site. • Regional Water Board agrees to postpone investigations at the YF3 and USCG sites until after Caltrans has completed construction in the area. • Additional investigations for YF3 are being planned. • Regional Water Board letter received June 17, 2004, concurs with NFA at YF2. • Regional Water Board letter received May 9, 2005, concurs with NFA at F2A. • Regional Water Board letter received July 20, 2005, concurs with NFA for shallow soil at D1B. • Regional Water Board letter received August 22, 2005, concurs with NFA at F2A/F2B. • Regional Water Board letter dated May 15, 2006, concurs with NFA at D1B.
USTs/ASTs	USTs associated with the pipelines, removed
Estimated Site Closeout	May 2006, with the exception of YF3 (June 2015) and USCG (August 2015) sites

COMPLIANCE AND BASEWIDE PROGRAMS

Polychlorinated Biphenyls Program

Residential Lead-Based Paint Program

Radiological Program

Asbestos-Containing Material Program

Groundwater Monitoring Program

Regulatory Interaction Support

Community Relations Program

Transfer Related

POLYCHLORINATED BIPHENYLS PROGRAM

PCB contamination has been investigated and remediated at NAVSTA TI under CERCLA and TSCA regulations and guidelines (Figure 9). PCBs exist at various locations and concentrations at NAVSTA TI. A remedial program was initiated at NAVSTA TI for electrical equipment, such as high-voltage primary transformers that contained dielectric fluid that may contain PCBs. Transformers were inventoried under the program, and several transformers identified as containing PCBs were removed between 1995 and 1996. A 1995 EBS documented spills and stains potentially related to PCBs. The Navy conducted an additional evaluation by reviewing aerial photographs and historical information on building usage.

PCBs have been investigated under CERCLA at the following IR sites: Site 3 (PCB Equipment Storage Area), Site 7 (Pesticide Storage Area), Site 9 (Foundry), Site 10 (Bus Painting Shop), Site 11 (YBI Landfill), Site 12 (Old Bunker Area), Site 21 (Vessel Waste Oil Recovery Area), Site 24 (Dry Cleaning Facility), Site 31 (Former South Storage Yard), and Site 32 (Former Training and Storage Area).

The Navy performed investigations of all known former PCB-containing equipment within the proposed FOST-area in May 2004 to confirm that property is suitable for transfer. The Navy also sampled all non-FOST footprint equipment locations that exhibited suspicious staining, and sampled the remaining (unstained) equipment locations in non-FOST areas in summer 2006. A summary report of FOST and non-FOST PCB sample results was published in February 2008. PCB abatement was performed at some sampled equipment locations in spring 2008 and a final summary report of activities was submitted March 9, 2009. A removal action was completed at Site 32 under the TSCA PCB remediation program in early 2010. The Site 32 post-construction summary report (PCSR) was finalized on July 13, 2011.

Transfer Category	2006 TI and YBI FOSTs (FOSTs 1 and 2), various FOST parcels (upcoming FOST)
Regulatory Classification	TSCA and CERCLA
Source of Concern	Transformers and fluid-filled electrical equipment and past disposal activities
Contaminants of Concern	PCBs
Interim Actions	None
Current Status	None
USTs/ASTs	Not applicable
Site Closeout	Closed

RESIDENTIAL LEAD-BASED PAINT PROGRAM

The Residential Lead-Based Paint Hazard Reduction Act of 1992, Title X of the Housing and Community Development Act (Public Law No. 102-550), applies at NAVSTA TI. As part of Title X, Congress amended the 1971 Lead-Based Paint Poisoning Prevention Act (42 *United States Code* [USC] Sections 4801-4846) and added a new Title IV to TSCA. Under this law, certain federally owned housing constructed before 1960 must be inspected for LBP, and LBP hazards must be abated. In addition, federally owned housing constructed after 1960 and before 1978 must be inspected for LBP hazards and the results disclosed to prospective property recipients (42 USC Section 4822).

LBP may be present on the interior and exterior surfaces of nonresidential buildings at NAVSTA TI because many were constructed before 1978. Public Works Center Norfolk began inspecting the family housing at NAVSTA TI for LBP in 1995. In October 1999, Engineering Field Activity West documented a completed LBP assessment and a “mini” risk assessment of facilities on NAVSTA TI. Facilities were selected under the implementing regulations for Title X of the Housing and Community Development Act. Pursuant to Title X, not all facilities require an inspection for LBP.

To date, LBP at all pre-1978 residential housing on TI and YBI has been assessed. LBP at all pre-1960 YBI residential housing has been abated, and hazard reduction measures were put in place to protect the residents. Friction surfaces, such as window sashes, were stripped to the original wood surface and repainted. All other interior and exterior surfaces containing LBP were covered with a 20-year encapsulating paint. To ensure all hazard reduction measures remain protective, a re-evaluation survey is conducted every 2 years per the recommended U.S. Department of Housing and Urban Development (HUD) schedule. LBP in residential housing on YBI was re-evaluated between April and May 2004 and again between May and July 2006. As required by the HUD guidelines, the survey included (1) a 100 percent visual survey, (2) two composite dust samples for 100 percent of all pre-1960 housing, and (3) two composite dust samples from a representative sample of the post-1960 housing. Another LBP re-evaluation of the residential housing on YBI and TI was completed in 2011. LBP maintenance was conducted during the winter of 2006 at Quarters 2 through 7, 240, 83, and 61.

Soil samples were also collected to evaluate the status of drip line and mid-yard areas at representative TI and YBI residential buildings. Based on the analytical results, soil abatement of the planter boxes and drip line areas was conducted in accordance with Title X, HUD, and Navy Policy at Quarters 1 through 7, 10, and Buildings 62, 83, 205, and 230 on YBI. HUD guidelines state only bare soils may pose a hazard, and soils covered by grass, concrete, or asphalt are protective. Any future disturbance of the concrete or asphalt at these buildings will require further soil evaluation for lead. The Navy will either abate or require the transferee to abate any LBP hazards found in existing residential facilities within 1 year of being transferred. If an existing residential facility is scheduled for demolition or nonresidential use, it will not be inspected or abated for LBP. Building demolition should be conducted according to applicable laws and regulations.

Transfer Category	2006 TI and YBI FOSTs (FOSTs 1 and 2), various FOST parcels in an upcoming FOST
Regulatory Classification	Title X Housing and Community Development Act, Title IV TSCA
Source of Concern	House paint/LBP
Contaminants of Concern	Lead
Interim Actions	<ul style="list-style-type: none"> • LBP risk assessment on TI and YBI residential housing buildings completed. • Interior, exterior, and soil abatement on pre-1960 YBI residential housing buildings completed. • LBP maintenance conducted during winter of 2006 at Quarters 2-7, 240, 83, and 61.
Current Status	<ul style="list-style-type: none"> • Re-evaluation report finalized on February 28, 2011. • Re-evaluation will also occur within 1 year of transfer.
USTs/ASTs	Not applicable
Estimated Site Closeout	Within 1 year of transfer

RADIOLOGICAL PROGRAM

Site 2 (Parcel T102, located within the footprint of Site 12), the Radiation Training Area, was located near the intersection of 12th Street and Avenue A on the northwestern side of TI. This area contained a ship mockup used for radiation training. Operations in this area began in the early 1950s and ceased in 1969 when the school moved to its current location in Building 371 (Parcel T111). Radiation sources were identified as potential contaminants from the radioactive water generated during training. The 1988 PA/SI recommended this site not be carried forward in an RI. The site is considered closed under the CERCLA program.

The Navy conducted a basewide Historical Radiological Assessment (HRA) to document use of radioactive materials and to present a comprehensive history of radiological operations conducted by the Navy at NAVSTA TI. In the first phase of the HRA, the Navy reviewed documents and conducted interviews to identify all historical radiological sites on NAVSTA TI and to determine if there is a need to conduct a Phase II survey. Results of the first phase of the HRA are reported in the *Final Naval Station Treasure Island Historical Radiological Assessment* dated February 10, 2006. Five sites were identified for further evaluation: Building 233, Building 233 drain lines, Site 12 SWDAs, and Buildings 343 and 344. Three additional sites were to be evaluated as necessary to further characterize them relative to historical radiological disposal activities. Sites 30, 31, and 33 will also be evaluated due to the presence of buried debris at the sites.

A draft HRA Supplemental Technical Memorandum for TI was issued in August 2012. The purpose of the document is to update any findings of the 2006 HRA and document any new areas requiring further investigation.

Building 233 (Parcel T013, shown in [Figure 1](#)), the Radiation Detection, Indication, and Computation Instrument Calibration School, is located on Avenue M between 3rd and 4th Streets on the eastern side of TI. In 1950, a spill of radium sulfate was reported in one of the laboratories located in Building 233. Students unknowingly tracked the radiological material throughout the building before the spill was discovered. The U.S. Naval Radiological Defense Laboratory decontaminated and cleaned up the building. Although the floor was decontaminated, the Navy must verify that the 1950 cleanup meets current standards. The Navy worked with DTSC and Department of Public Health to complete a survey of Building 233 by May 2006. A radiological assessment of Building 233 was conducted and a final survey report was issued in January 2007. The demolition of the building was completed in 2011 and the Navy is completing the characterization, remediation, and FSS for the building footprint and surrounding area in accordance with MARSSIM (Revision 1 August 2000, with the June 2001 updates).

A NTCRA began in May 2007 at three Site 12 SWDAs along the shoreline. During the NTCRA, low level radiological items, containing radium-226, have been found within the SWDAs. Confirmation samples are being collected in the SWDA areas once excavations are completed. The Navy estimates that the removal action will be completed by the end of 2012. The FSS for all SWDAs will be performed in accordance with MARSSIM. At SWDA A&B and SWDA Bayside/North Point, the current work (Phase I) will be completed by February 2013. For both of these SWDAs, a second phase of work is planned under new contracts in 2013. A

RACR/FSS is anticipated for SWDA Bayside/North Point after the second phase of work is done. Due to the size and complexity of the SWDA A&B area, it is anticipated that a third phase of work or contract will be necessary before a RACR/FSS can be completed for SWDA A&B. A MARSSIM FSS will be conducted at Site 6 after the Site 12 NTCRA has been completed or after Site 6 ceases to be used for radiological bin storage. A detailed schedule of the radiological investigation is included in the CERCLA Sites 6, 12, 31, 32, and 33 schedules (see [Appendix B](#)).

A radiological status survey for Buildings 343 and 344 and Building 233 drain lines was conducted in September 2007. In 2008, FSS Reports were prepared for Buildings 343 and 344. The Buildings 343 and 344 and the Building 233 Drain Lines Scoping Survey Reports were finalized in the fall 2008. DTSC and California Department of Public Health provided free release for Buildings 343 and 344 in 2008.

Building 233 was demolished in January 2011 and a FSS is being conducted.

Transfer Category	--
Regulatory Classification	MARSSIM
Source of Concern	Radium sulfate spill and historical radiological operations
Contaminants of Concern	Radium-226, radiological materials
Interim Actions	<ul style="list-style-type: none"> • 1950's cleanup at Building 233 • Building 233 was demolished in January 2011
Current Status	<ul style="list-style-type: none"> • NTCRA of Site 12 SWDAs is underway • FSS for the Site 12 SWDAs is being planned. • Building 233 FSS is being conducted. • HRA Supplemental Technical Memorandum is being prepared.
USTs/ASTs	Not applicable
Estimated Site Closeout	February 2013 for Building 233; See Site 12 under CERCLA Program.

ASBESTOS-CONTAINING MATERIAL PROGRAM

Beginning in 1995, several surveys to identify the presence of ACM have been completed at NAVSTA TI. The Navy conducted an asbestos survey of 108 major nonresidential buildings at NAVSTA TI and compiled the results in an asbestos survey report in 1995. In 1997, Radian, Inc. completed a more comprehensive asbestos survey for a total of 212 nonresidential buildings, including an inspection of the 108 buildings previously surveyed, to estimate scope and costs for abating damaged, friable asbestos. In 1998, the Supervisor of Shipbuilding, Conversion, and Repair, Portsmouth, Virginia, Environmental Detachment, Vallejo (SSPORTS) performed an asbestos survey of underground steam utility lines and miscellaneous facilities. Results of the survey of underground steam utility lines indicated that ACM-wrapped pipes exist only within a portion of the property, as discussed further in the FOST. Remedies for ACM were implemented.

Friable, accessible ACM identified during surveys was remediated beginning with 38 buildings in 1998 by Allied Technology Group, Inc. (ATG). ATG remediated an additional 20 buildings in 1998. In 1999, SSSPORTS remediated friable ACM found in residences at both YBI and TI. In 2002, Mendalian Construction, Inc. covered the crawlspaces to prevent access, posted ACM signs at seven barracks on TI, and abated and removed ACM from six quarters on YBI. All known damaged, friable, or accessible ACM has been abated within the TI and YBI FOST areas, and remaining ACM does not pose a threat to human health.

Notices and restrictions related to asbestos were identified in the FOST for both TI and YBI dated February 15, 2006, and March 23, 2006, respectively. A re-evaluation of ACM was finalized March 9, 2011.

Transfer Category	2006 TI and YBI FOSTs (FOSTs 1 and 2), various FOST parcels in an upcoming FOST
Regulatory Classification	Clean Air Act
Source of Concern	ACM
Contaminants of Concern	Friable, accessible ACM
Interim Actions	<ul style="list-style-type: none">• 1998 remediation of 38 buildings• 1998 remediation of 20 buildings• 1999 remediation of residences• 2002 remediation of crawl spaces, barracks and six quarters on YBI
Current Status	<ul style="list-style-type: none">• ACM to be reassessed within 1 year of transfer
USTs/ASTs	Not applicable
Estimated Site Closeout	Transfer

GROUNDWATER MONITORING PROGRAM

The purpose of the groundwater monitoring program is to evaluate sites with known or suspected impacts to groundwater using data collected from a network of monitoring wells as well as data from other environmental investigations. The principal objective at the identified groundwater sites was to determine whether receptors at the terminus of the groundwater pathway—aquatic life at the shoreline along NAVSTA TI—are being exposed to concentrations of contaminants that exceed applicable toxicity criteria for (1) protection of saltwater life, or (2) protection of humans who consume fish. Potential impacts to groundwater because of releases of hazardous substances and petroleum related chemicals from operations when NAVSTA TI was an active base are being studied under the facility-wide groundwater monitoring program.

It was reported in 2004, in support of environmental restoration activities, that 346 groundwater monitoring and remediation wells were being maintained at NAVSTA TI (181 monitoring wells and 165 remediation wells). In a limited number of cases, wells from inactive sites were used as downgradient, crossgradient, or upgradient wells to collect data for an active investigation area. In 2011, 35 wells from various sites, predominately closed petroleum program sites, were decommissioned.

Currently, only groundwater at Sites 6 and 12 is monitored as the petroleum program sites have received NFA concurrence, or active remediation is ongoing at CERCLA sites. Contaminants defined as hazardous under CERCLA have been detected at elevated concentrations in samples from Sites 6 and 12. Information collected from groundwater monitoring will be used in the RI and FS studies and included, as appropriate, in the RI, FS, and closure reports for Sites 6 and 12. Groundwater monitoring results are reported annually and will be used in assessing risk in decision documents such as an RI report or petroleum closure reports.

Groundwater monitoring at Site 21 is planned to continue for 1 year beyond the final ROD/RAP; however, groundwater monitoring is not part of the selected remedial alternative for Site 21. Thus, groundwater monitoring is expected to end in 2013.

Groundwater monitoring at Site 24 occurs through the treatability study project being conducted, and will continue for 1 year after completion of the treatability study.

Groundwater was monitored at Site 32 for one year after a removal action was completed for PCBs, arsenic, and TPH in soil. Monitoring was completed in February 2012, and a summary report was finalized on July 30, 2012. All COC concentrations were non-detected or detected at low-levels during all four quarterly sampling events. There is no indication of existence of the residual petroleum contamination in the groundwater. No further actions were recommended for groundwater at Site 32.

REGULATORY INTERACTION SUPPORT

The Navy provides support for regulatory interaction for the entire TI environmental program. Included in the regulatory interaction support are the following deliverables.

BCT Meetings and Minutes

As part of the regulatory interaction support, the Navy holds monthly meetings with the members of the BCT to discuss current topics, issues, and decisions that pertain to the environmental restoration program for TI. To document decisions, actions, processes, and discussions, the BCT prepares meeting minutes. The minutes are reviewed by all members and revised based on any comments received. Final minutes are stored in the administrative record. The minutes are an important tracking tool for the BCT.

Site Management Plan

The Navy prepares and delivers annual updates of this site management plan to identify site closure schedules and strategies and to aid in the management of the 33 associated IR sites. The IR sites are at various stages in the environmental restoration process. The current status and strategies at each site are discussed in this document, as well as discussions of the current basewide issues that must be addressed before the installation may be transferred for development. The schedules provided in [Appendix B](#) update the initial schedules produced in the 1992 Federal Facility Site Remediation Agreement (FFSRA), and supplement the IR sites not identified at the time of the FFSRA.

COMMUNITY RELATIONS PROGRAM

The Navy provides direction and support for community relations activities on site-specific and basewide levels. Included in the community relations support are the following deliverables.

Restoration Advisory Board Meetings and Minutes

The Navy hosts Restoration Advisory Board (RAB) meetings regularly as a means to communicate, share, and present current information on the environmental restoration program to the RAB and community members. Fact sheets, meeting minutes, telephone conferences and meetings are used to provide a method for the RAB to have input on the environmental restoration process at NAVSTA TI. Meeting minutes are prepared for public viewing. The minutes are reviewed by all members of the RAB and revised based on any comments received. The final minutes are included in the information repositories and on the Navy's website.

Community Relations Plan

The community relations plan (CRP) identifies community interest in the investigation and cleanup of contaminated soil, sediments, and groundwater at NAVSTA TI, and outlines community relations activities to inform and involve the community. The original CRP for NAVSTA TI was issued in 1997, and a final CRP was issued in 2002 and updated in 2006. An update, including interviews of community members, was finalized in the summer 2008.

The purpose of the CRP is to identify the NAVSTA TI community, describe community outreach activities conducted in support of the IR Program, identify community interest in and concern about environmental activities at NAVSTA TI, facilitate two-way communication with the surrounding community and other interested parties, and meet all public involvement regulatory requirements for the environmental cleanup program at NAVSTA TI.

Newsletters

Two newsletters, typically for fall and winter, are prepared for each year and distributed to the TI community mailing list, which consists of up to 1,200 addresses. Additional copies are made available to the Information Repositories and at the RAB meetings. In addition, the newsletter is posted on the Navy's website and sent to the Navy's electronic mailing list. The TI community mailing list is updated semi-annually.

Fact Sheets, Proposed Plans, and Work Notices

Fact sheets, proposed plans, and work notices are prepared on an as-needed basis dependent on commencement or completion of significant milestones such as an upcoming field investigation or an RI report. Fact sheets and proposed plans are distributed to the entire TI community mailing list, which includes the DTSC mandatory mailing list.

The General Environmental Fact Sheet provides a brief summary and current status of all Navy environmental programs for NAVSTA TI. The General Environmental Fact Sheet is updated semi-annually.

Work notices are distributed to those who may be affected by the work.

Public Notices

Public Notices are prepared on an as-needed basis for announcement of significant milestones such as announcement of public review and comment periods for PPs, and completion of significant documentation such as a ROD/RAP and a FOST. Public notices are typically published as an in-column ad in the *San Francisco Examiner* newspaper.

Information Repository Support

On a quarterly basis, the Navy conducts inspections and updates to the TI Information Repositories located at Building 1 on TI and at the San Francisco Main Public Library. Updates include organizing, indexing the documents, and providing updates of the index and document availability.

TRANSFER RELATED

A basewide EBS was conducted in 1994. In 2005, the Navy updated the EBS with a supplemental EBS (SEBS) based on progress made under the Navy's environmental programs and in preparation for two FOST documents that summarize how the requirements and notifications for hazardous substances, petroleum products and derivatives, and other regulated material have been met for parcels on TI and YBI. The TI FOST (FOST 1) for four parcels and YBI FOST (FOST 2) for one parcel were finalized in 2006. The Navy prepared a third FOST (YBI FOST 3) for five parcels on YBI to support property transfer to the City. The YBI FOST 3 was finalized on January 17, 2012.

Through the BRAC process, the Navy intends to transfer the pre-closing conveyance parcels on YBI that were identified in YBI FOSTs 2 and 3, by deed, to the City of San Francisco in early 2013. Parcels identified in TI FOST 1 are planned to be transferred by deed to the City of San Francisco at a later date. The Navy is currently preparing FOST 4 for several parcels on TI for transfer in 2013. [Appendix B](#) has the anticipated schedules for upcoming FOST documents and the related State of California's Covenant to Restrict Use of Property (CRUP) documents that will be completed to support each property transfer.

APPENDIX B
ENVIRONMENTAL SCHEDULE

SITE-SPECIFIC INDEX

TABLE B-1 SITE INVENTORY	B-ii
CERCLA PROGRAM	
EBS DATA GAPS.....	B-1
SITE 1	B-1
SITE 3	B-1
SITE 6	B-2
SITE 7	B-1
SITE 8	B-6
SITES 9 AND 10	B-1
SITE 11.....	B-7
SITE 12.....	B-8
SITE 13.....	B-1
SITE 21.....	B-17
SITE 24.....	B-19
SITE 27.....	B-22
SITE 28.....	B-24
SITE 29.....	B-25
SITE 30.....	B-26
SITE 31.....	B-29
SITE 32.....	B-31
SITE 33.....	B-33
PETROLEUM PROGRAM	
SITE 4/19	B-34
SITE 6	B-35
SITE 14/22	B-34
SITE 15.....	B-34
SITE 16.....	B-34
SITE 20.....	B-34
SITE 25.....	B-34
SITE USCG.....	B-36
SITE YF3	B-37
USTs	B-39
COMPLIANCE AND BASEWIDE PROGRAMS	
POLYCHLORINATED BIPHENYLS PROGRAM.....	B-40
RESIDENTIAL LEAD-BASED PAINT PROGRAM.....	B-41
RADIOLOGICAL PROGRAM	B-42
ASBESTOS-CONTAINING MATERIAL PROGRAM.....	B-44
GROUNDWATER MONITORING PROGRAM	B-45
REGULATORY INTERACTION SUPPORT	B-48
COMMUNITY RELATIONS PROGRAM	B-49
TRANSFER RELATED	B-51

TABLE B-1: SITE INVENTORY

Site Management Plan, Naval Station Treasure Island, San Francisco, California

Site	Program	Status
Site 1	CERCLA	Closed – Received agency concurrence on March 20, 2002.
Site 2	CERCLA	Closed – Site recommended for NFA in 1988 Final PA/SI.
Site 3	CERCLA	Closed – Received agency concurrence on March 20, 2002.
Site 4/19	Petroleum	Closed – NFA concurrence letter received from Regional Water Board dated December 17, 2003.
Site 5	Petroleum	Closed – Merged into Site 24 by letter dated January 17, 2001.
Site 6	CERCLA	Active – Transferred from Petroleum Program on September 18, 2003.
Site 7	CERCLA	Closed – Received agency concurrence on November 1, 2005.
Site 8	CERCLA	Active – On hold; pending Caltrans bridge completion.
Site 9	CERCLA	Closed – No Action ROD signed October 2, 2007.
Site 10	CERCLA	Closed – No Action ROD signed October 2, 2007.
Site 11	CERCLA	Active – On hold; pending Caltrans bridge completion.
Site 12	CERCLA	Active
Site 13	CERCLA	Closed – No Action ROD signed April 7, 2005.
Site 14/22	Petroleum	Closed – NFA concurrence letter received from Regional Water Board dated July 18, 2005.
Site 15	Petroleum	Closed – NFA concurrence letter received from Regional Water Board dated September 2004.
Site 16	Petroleum	Closed – NFA concurrence letter received from Regional Water Board dated June 17, 2004.
Site 17	Petroleum	Closed – Merged into Site 24 by letter dated January 17, 2001.
Site 18	CERCLA	Closed – Site recommended for NFA in 1988 Final PA/SI.
Site 20	Petroleum	Closed – NFA concurrence letter received from Regional Water Board dated June 17, 2004.
Site 21	CERCLA	Active
Site 23	CERCLA	Closed – Site recommended for NFA in 1988 Final PA/SI.
Site 24	CERCLA	Active
Site 25	Petroleum	Closed – NFA concurrence letter received from Regional Water Board dated October 28, 2011.
Site 26	Petroleum	Closed – See UST Sites.
Site 27	CERCLA	Active
Site 28	CERCLA	Closed – No Action ROD signed November 22, 2010.
Site 29	CERCLA	Active – On hold; pending Caltrans bridge completion.
Site 30	CERCLA	Active
Site 31	CERCLA	Active
Site 32	CERCLA	Active
Site 33	CERCLA	Active
Pipeline Sites	Petroleum	With the exception of Pipeline Sites USCG and YF3, all pipeline sites have received concurrence letters and are closed.
UST Sites	Petroleum	With the exception of UST 238 on YBI, and the USTs associated with Site 6, all USTs have received concurrence letters and are closed.

**NAVAL STATION TREASURE ISLAND ENVIRONMENTAL SCHEDULE
FINAL SITE MANAGEMENT PLAN
September 2012**

ID		Task Name	Duration	Start	Finish	Predecessors
1		CERCLA PROGRAM	6607 days	Wed 3/20/02	Fri 1/15/21	
2	 	EBS DATA GAP INVESTIGATION COMPLETED	502 days	Wed 4/2/03	Tue 2/22/05	
22		SITE 1 - Closed	1 day	Wed 3/20/02	Wed 3/20/02	
23		SITE 3 - Closed	1 day	Wed 3/20/02	Wed 3/20/02	
24		SITE 7 - Closed	944 days	Fri 8/16/02	Tue 11/1/05	
28		SITE 13 - Closed	724 days	Tue 11/5/02	Sat 5/21/05	
61		SITES 9 AND 10 - Closed	1471 days	Sun 4/6/03	Thu 11/1/07	

All start and finish dates on Saturday
or Sunday default to the following business day.

**NAVAL STATION TREASURE ISLAND ENVIRONMENTAL SCHEDULE
FINAL SITE MANAGEMENT PLAN
September 2012**

ID	Task Name	Duration	Start	Finish	Predecessors
116	SITE 6 (CERCLA)	4353 days	Mon 5/12/03	Sat 10/24/15	
117	NATURE AND EXTENT DELINEATION FOR SITE 6 CERCLA	562 days	Mon 5/12/03	Tue 6/7/05	
123	REMEDIAL INVESTIGATION FOR SITE 6	923 days	Sun 10/31/04	Wed 6/20/07	
134	REVISED REMEDIAL INVESTIGATION/FEASIBILITY STUDY (RI/FS) REPORT FOR SITE 6	1361 days	Mon 2/2/09	Thu 10/25/12	
135	Navy to award contract for Site 6 Data Gap Investigation and RI Report	58 edays	Mon 2/2/09	Wed 4/1/09	
136	Scoping Meeting Site 6 Data Gap Investigation	0 edays	Wed 6/3/09	Wed 6/3/09	
137	Data Gap Investigation Work Plan	459 days	Mon 5/18/09	Fri 8/20/10	
147	Conduct Data Gap Field Investigation	25 edays	Mon 8/23/10	Fri 9/17/10	
148	Data Gap Investigation Lab Analysis and Validation	30 edays	Fri 9/17/10	Sun 10/17/10	147
149	RI/FS Report for Site 6	645 days	Wed 1/19/11	Thu 10/25/12	
150	Prepare Site 6 Internal Draft RI/FS Report	247 edays	Wed 1/19/11	Fri 9/23/11	148
151	Navy Review of Site 6 Internal Draft RI/FS Report	59 edays	Fri 9/23/11	Mon 11/21/11	150
152	Site 6 Draft RI/FS Report	31 edays	Mon 11/21/11	Thu 12/22/11	151
153	Agency Review of Site 6 Draft RI/FS Report	46 edays	Thu 12/22/11	Mon 2/6/12	152
154	Preliminary RTCs on Site 6 Draft RI/FS Report	120 edays	Mon 2/6/12	Tue 6/5/12	153
155	Site 6 Internal Final RI/FS Report	118 edays	Tue 6/5/12	Mon 10/1/12	154
156	Navy Review of Site 6 Internal Final RI/FS Report	10 edays	Mon 10/1/12	Thu 10/11/12	155
157	Site 6 Final RI/FS Report	14 edays	Thu 10/11/12	Thu 10/25/12	156
158	SITE 6 RADIOLOGICALLY CONTROLLED AREA CHARACTERIZATION/FINAL STATUS SURVEY	628 days	Mon 10/1/12	Sat 6/21/14	
159	Site 6 RCA Characterization / Final Status Survey Work Plan	299 days	Mon 10/1/12	Sat 7/27/13	
160	Navy Award Contract for Characterization/Final Status Survey Work Plan for Site 6 RCA	90 edays	Mon 10/1/12	Sun 12/30/12	
161	Prepare Internal Draft Site 6 RCA Characterization/Final Status Survey Work Plan	30 edays	Sun 12/30/12	Tue 1/29/13	160
162	Navy Review of Internal Draft Site 6 RCA Characterization/Final Status Survey Work Plan	14 edays	Tue 1/29/13	Tue 2/12/13	161
163	Revise Internal Draft Site 6 RCA Characterization/Final Status Survey Work Plan	7 edays	Tue 2/12/13	Tue 2/19/13	162
164	Navy RASO Review Internal Draft Site 6 RCA Characterization/Final Status Survey Work Plan	60 edays	Tue 2/19/13	Sat 4/20/13	163
165	Draft Site 6 RCA Characterization/Final Status Survey Work Plan	7 edays	Sat 4/20/13	Sat 4/27/13	164
166	Agency Review of Site 6 RCA Characterization/Final Status Survey Work Plan	30 edays	Sat 4/27/13	Mon 5/27/13	165
167	Internal Characterization/Final Site 6 RCA Characterization/Final Status Survey Work Plan	33 edays	Mon 5/27/13	Sat 6/29/13	166
168	Navy Review of Internal Characterization/Final Site 6 RCA Characterization/Final Status Survey Work Plan	14 edays	Sat 6/29/13	Sat 7/13/13	167
169	Characterization/Final Site 6 RCA Characterization/Final Status Survey Work Plan	14 edays	Sat 7/13/13	Sat 7/27/13	168
170	Final Status Survey Field Work at Site 6 RCA	90 edays	Sat 7/27/13	Fri 10/25/13	169
171	Site 6 RCA Final Status Survey Report	239 days	Fri 10/25/13	Sat 6/21/14	
172	Prepare Internal Draft Site 6 RCA Final Status Survey Report	30 edays	Fri 10/25/13	Sun 11/24/13	170

All start and finish dates on Saturday or Sunday default to the following business day.

**NAVAL STATION TREASURE ISLAND ENVIRONMENTAL SCHEDULE
FINAL SITE MANAGEMENT PLAN
September 2012**

ID	Task Name	Duration	Start	Finish	Predecessors
173	Navy BRAC Review Internal Draft Site 6 RCA Final Status Survey Report	14 edays	Sun 11/24/13	Sun 12/8/13	172
174	Revise Internal Draft Site 6 RCA Final Status Survey Report	7 edays	Sun 12/8/13	Sun 12/15/13	173
175	Navy RASO Review Internal Draft Site 6 RCA Final Status Survey Report	60 edays	Sun 12/15/13	Thu 2/13/14	174
176	Prepare Draft Site 6 RCA Final Status Survey Report	7 edays	Thu 2/13/14	Thu 2/20/14	175
177	Agency Review Draft Site 6 RCA Final Status Survey Report	30 edays	Thu 2/20/14	Sat 3/22/14	176
178	Prepare Preliminary Responses to Agency Comments on Site 6 RCA Final Status Survey Report	23 edays	Sat 3/22/14	Mon 4/14/14	177
179	Prepare Internal Final Site 6 RCA Final Status Survey Report	10 edays	Mon 4/14/14	Thu 4/24/14	178
180	Navy Review Internal Final Site 6 RCA Final Status Survey Report	14 edays	Thu 4/24/14	Thu 5/8/14	179
181	Prepare Final Site 6 RCA Final Status Survey Report	14 edays	Thu 5/8/14	Thu 5/22/14	180
182	Concur with Site 6 RCA Final Status Survey Report	30 edays	Thu 5/22/14	Sat 6/21/14	181
183	PP/DRAFT RAP FOR SITE 6	380 days	Fri 6/29/12	Sun 7/14/13	
184	Navy to Award Contract for Site 6 PP/Draft RAP and ROD	60 edays	Fri 6/29/12	Tue 8/28/12	
185	Prepare Internal Draft PP/Draft RAP for Site 6	90 edays	Tue 8/28/12	Mon 11/26/12	184
186	BCT Scoping Meeting for Site 6 PP/ROD/RAP	0 edays	Fri 9/28/12	Fri 9/28/12	185SS+31 edays
187	Navy Technical Review of Internal Draft PP/Draft RAP for Site 6	30 edays	Mon 11/26/12	Wed 12/26/12	185
188	Incorporate Navy Technical Comments on Internal Draft PP/Draft RAP for Site 6	14 edays	Wed 12/26/12	Wed 1/9/13	187
189	Navy Legal Review of Internal Draft PP/Draft RAP for Site 6	30 edays	Wed 1/9/13	Fri 2/8/13	188
190	Prepare Draft PP/Draft RAP for Site 6	14 edays	Fri 2/8/13	Fri 2/22/13	189
191	Agency Review of Draft PP/Draft RAP for Site 6	30 edays	Fri 2/22/13	Sun 3/24/13	190
192	Prepare Preliminary RTCs on Draft PP/Draft RAP for Site 6	28 edays	Sun 3/24/13	Sun 4/21/13	191
193	Meeting to Discuss Preliminary RTCs on Draft PP/Draft RAP for Site 6	0 edays	Sun 4/21/13	Sun 4/21/13	192
194	Prepare Internal Final PP/Draft RAP for Site 6	30 edays	Sun 4/21/13	Tue 5/21/13	193
195	Navy Review of Internal Final PP/Draft RAP for Site 6	10 edays	Tue 5/21/13	Fri 5/31/13	194
196	Prepare Final PP/Draft RAP for Site 6	14 edays	Fri 5/31/13	Fri 6/14/13	195
197	Public Notice of Final PP/Draft RAP for Site 6	0 edays	Fri 6/14/13	Fri 6/14/13	196
198	Public Comment Period of Final PP/Draft RAP for Site 6	30 edays	Fri 6/14/13	Sun 7/14/13	197
199	Finalize Administrative Record for Final PP/Draft RAP for Site 6	0 edays	Sun 7/14/13	Sun 7/14/13	198
200	Public Meeting for Final PP/Draft RAP for Site 6	0 edays	Sat 6/29/13	Sat 6/29/13	198SS+15 edays
201	ROD/RAP FOR SITE 6	320 days	Sun 7/14/13	Fri 5/30/14	
202	Prepare Internal Draft ROD/RAP for Site 6	90 edays	Sun 7/14/13	Sat 10/12/13	198
203	BCT Scoping Meeting for ROD/RAP for Site 6	0 edays	Tue 8/13/13	Tue 8/13/13	202SS+30 edays
204	Navy Technical Review of Internal Draft ROD/RAP for Site 6	30 edays	Sat 10/12/13	Mon 11/11/13	202
205	Incorporate Navy Technical Comments on Internal Draft ROD/RAP for Site 6	14 edays	Mon 11/11/13	Mon 11/25/13	204
206	Navy Legal Review of Internal Draft ROD/RAP for Site 6	30 edays	Mon 11/25/13	Wed 12/25/13	205

All start and finish dates on Saturday or Sunday default to the following business day.

**NAVAL STATION TREASURE ISLAND ENVIRONMENTAL SCHEDULE
FINAL SITE MANAGEMENT PLAN
September 2012**

ID	Task Name	Duration	Start	Finish	Predecessors
207	Prepare Draft ROD/RAP for Site 6	14 edays	Wed 12/25/13	Wed 1/8/14	206
208	Agency Review of Draft ROD/RAP for Site 6	30 edays	Wed 1/8/14	Fri 2/7/14	207
209	Prepare Preliminary RTCs on Draft ROD/RAP for Site 6	28 edays	Fri 2/7/14	Fri 3/7/14	208
210	Meeting to Discuss Preliminary RTCs on Draft ROD/RAP for Site 6	0 edays	Fri 3/7/14	Fri 3/7/14	209
211	Prepare Internal Final ROD/RAP for Site 6	30 edays	Fri 3/7/14	Sun 4/6/14	210
212	Navy Review of Internal Final ROD/RAP for Site 6	10 edays	Sun 4/6/14	Wed 4/16/14	211
213	Prepare Final ROD/RAP for Site 6	14 edays	Wed 4/16/14	Wed 4/30/14	212
214	ROD/RAP Signed for Site 6	30 edays	Wed 4/30/14	Fri 5/30/14	213
215	Public Notice of Signing ROD/RAP for Site 6	0 edays	Fri 5/30/14	Fri 5/30/14	214
216	REMEDIAL DESIGN FOR SITE 6 (IF NECESSARY)	306 days	Mon 1/6/14	Sat 11/8/14	
217	Navy to award contract for Site 6 Remedial Design	60 edays	Mon 1/6/14	Fri 3/7/14	211SS-60 edays
218	Internal Draft RD for Site 6	90 edays	Fri 3/7/14	Thu 6/5/14	217
219	BCT Scoping Meeting for Site 6 RD	0 edays	Sun 4/6/14	Sun 4/6/14	218SS+30 edays
220	Navy Review of Internal Draft RD for Site 6	30 edays	Thu 6/5/14	Sat 7/5/14	218
221	Draft RD for Site 6	14 edays	Sat 7/5/14	Sat 7/19/14	220
222	Agency Review of Draft RD for Site 6	30 edays	Sat 7/19/14	Mon 8/18/14	221
223	Preliminary RTCs on Draft RD - Site 6	28 edays	Mon 8/18/14	Mon 9/15/14	222
224	Meeting to Discuss Preliminary RTCs on Draft RD - Site 6	0 edays	Mon 9/15/14	Mon 9/15/14	223
225	Internal Final for Site 6 RD	30 edays	Mon 9/15/14	Wed 10/15/14	224
226	Navy Review of Internal Final for Site 6 RD	10 edays	Wed 10/15/14	Sat 10/25/14	225
227	Final RD for Site 6	14 edays	Sat 10/25/14	Sat 11/8/14	226
228	REMEDIAL ACTION FOR SITE 6 (IF NECESSARY)	380 days	Tue 9/9/14	Thu 9/24/15	
229	Navy to award contract for Site 6 Remedial Action	60 edays	Tue 9/9/14	Sat 11/8/14	227FS-60 edays
230	Remediation Field Work Site 6	150 edays	Sat 11/8/14	Tue 4/7/15	229,182
231	REMEDIAL ACTION COMPLETION REPORT (RACR)	170 days	Tue 4/7/15	Thu 9/24/15	
232	Internal Draft RACR for Site 6	30 edays	Tue 4/7/15	Thu 5/7/15	230
233	BCT Scoping Meeting for Site 6 RACR	0 edays	Tue 4/21/15	Tue 4/21/15	232SS+14 edays
234	Navy Review of Internal Draft RACR for Site 6	14 edays	Thu 5/7/15	Thu 5/21/15	232
235	Draft RACR for Site 6	7 edays	Thu 5/21/15	Thu 5/28/15	234
236	Agency Review of Site 6 Draft RACR	30 edays	Thu 5/28/15	Sat 6/27/15	235
237	Preliminary RTCs on Draft RACR - Site 6	28 edays	Sat 6/27/15	Sat 7/25/15	236
238	Meeting to Discuss Preliminary RTCs on Draft RACR for Site 6	0 edays	Sat 7/25/15	Sat 7/25/15	237
239	Internal Final RACR for Site 6	33 edays	Sat 7/25/15	Thu 8/27/15	238
240	Navy Review of Internal Final RACR for Site 6	14 edays	Thu 8/27/15	Thu 9/10/15	239

All start and finish dates on Saturday or Sunday default to the following business day.

**NAVAL STATION TREASURE ISLAND ENVIRONMENTAL SCHEDULE
FINAL SITE MANAGEMENT PLAN
September 2012**

ID	Task Name	Duration	Start	Finish	Predecessors
241	Final RACR for Site 6	14 edays	Thu 9/10/15	Thu 9/24/15	240
242	SITE CLOSEOUT FOR SITE 6	30 edays	Thu 9/24/15	Sat 10/24/15	241

**NAVAL STATION TREASURE ISLAND ENVIRONMENTAL SCHEDULE
FINAL SITE MANAGEMENT PLAN
September 2012**

ID	Task Name	Duration	Start	Finish	Predecessors
243	 SITE 8	5481 days	Thu 12/2/04	Sun 1/5/20	
244	 INTERIM REMEDIAL INVESTIGATION FOR SITES 8 & 29	1544 days	Thu 12/2/04	Fri 3/27/09	
268	 CALTRANS BRIDGE CONSTRUCTION PROJECT	2523 days	Mon 11/3/08	Wed 9/30/15	
269	REMAINING CERCLA ITEMS (IF NECESSARY)	1588 days	Sat 8/1/15	Fri 12/6/19	
270	SITES 8 & 29 RI ADDENDUM (IF NECESSARY)	246 days	Sat 8/1/15	Sun 4/3/16	
282	FEASIBILITY STUDY FOR SITES 8 & 29 (IF NECESSARY)	350 days	Tue 2/9/16	Tue 1/24/17	
296	PP/DRAFT RAP FOR SITES 8 & 29	320 days	Sat 12/31/16	Thu 11/16/17	
313	ROD/RAP SITES 8 & 29	320 days	Sat 9/23/17	Thu 8/9/18	
328	REMEDIAL DESIGN FOR SITES 8 & 29 (IF NECESSARY)	276 days	Thu 5/17/18	Sun 2/17/19	
340	REMEDIAL ACTION FOR SITES 8 & 29 (IF NECESSARY)	292 days	Sun 2/17/19	Fri 12/6/19	
351	SITE CLOSEOUT FOR SITES 8 & 29	30 edays	Fri 12/6/19	Sun 1/5/20	350

All start and finish dates on Saturday
or Sunday default to the following business day.

**NAVAL STATION TREASURE ISLAND ENVIRONMENTAL SCHEDULE
FINAL SITE MANAGEMENT PLAN
September 2012**

ID	Task Name	Duration	Start	Finish	Predecessors
352	 SITE 11	5118 days	Thu 7/13/06	Thu 7/16/20	
353	 INTERIM REMEDIAL INVESTIGATION FOR SITE 11	1294 days	Thu 7/13/06	Wed 1/27/10	
370	 CALTRANS BRIDGE CONSTRUCTION PROJECT	2523 days	Mon 11/3/08	Wed 9/30/15	
371	REMAINING CERCLA ITEMS (IF NECESSARY)	1780 days	Sat 8/1/15	Mon 6/15/20	
372	SITE 11 RI ADDENDUM (IF NECESSARY)	246 days	Sat 8/1/15	Sun 4/3/16	
384	 FEASIBILITY STUDY FOR SITE 11 (IF NECESSARY)	291 days	Tue 2/9/16	Sat 11/26/16	
397	PP/DRAFT RAP FOR SITE 11	323 days	Thu 11/3/16	Fri 9/22/17	
414	ROD/RAP FOR SITE 11	322 days	Fri 7/28/17	Fri 6/15/18	
429	REMEDIAL DESIGN FOR SITE 11 (IF NECESSARY)	310 days	Fri 6/15/18	Sun 4/21/19	428
441	REMEDIAL ACTION FOR SITE 11 (IF NECESSARY)	421 days	Sun 4/21/19	Mon 6/15/20	
454	SITE CLOSEOUT FOR SITE 11	31 edays	Mon 6/15/20	Thu 7/16/20	453

All start and finish dates on Saturday
or Sunday default to the following business day.

**NAVAL STATION TREASURE ISLAND ENVIRONMENTAL SCHEDULE
FINAL SITE MANAGEMENT PLAN
September 2012**

ID	Task Name	Duration	Start	Finish	Predecessors
455	SITE 12	5312 days	Wed 5/7/03	Thu 6/7/18	
456	✓ ADDITIONAL INVESTIGATION FOR COMMON AREAS	95 days	Wed 5/7/03	Fri 9/19/03	
464	✓ HALYBURTON COURT SOIL GAS/INDOOR AIR SAP ADDENDUM	692 days	Fri 1/7/05	Wed 12/20/06	
475	✓ HALYBURTON COURT INDOOR AIR EVALUATION TECHNICAL MEMORANDUM SITE 12	1186 days	Mon 12/1/03	Fri 7/13/07	
481	✓ ARSENIC IN GROUNDWATER TECHNICAL MEMORANDUM SITE 12	268 days	Thu 1/1/04	Tue 1/11/05	
490	✓ ARSENIC IN GROUNDWATER PILOT STUDY	1905 days	Mon 12/11/06	Tue 2/28/12	
500	✓ REMEDIAL INVESTIGATION FOR SITE 12	2845 days	Sun 6/20/04	Wed 6/20/12	
548	✓ NON-TIME CRITICAL INTERIM REMOVAL ACTION WORK PLANS FOR SITE 12 SWDAs	441 days	Thu 12/1/05	Thu 2/15/07	
578	NON-TIME CRITICAL REMOVAL ACTION FOR SITE 12 SWDAs	3106 days	Thu 3/30/06	Mon 9/29/14	
579	✓ Navy to award contract for Site 12 for Removal Action Work Plan and Removal Action	176 edays	Thu 3/30/06	Fri 9/22/06	
580	✓ Site 12 Remedial Action Work Plan (RAWP)	165 days	Fri 9/22/06	Tue 3/6/07	
588	Non-Time Critical Removal Action of Site 12 SWDAs	2772 edays	Mon 2/26/07	Mon 9/29/14	587FS-8 edays
589	✓ Non-Time Critical Removal Action Summary Open House	0 edays	Sat 10/24/09	Sat 10/24/09	
590	SWDA FINAL STATUS SURVEYS (FSS)	2771 days	Mon 2/26/07	Mon 9/29/14	
591	SWDA A&B (WESTSIDE DRIVE, LESTER AND MASON COURTS)	2771 days	Mon 2/26/07	Mon 9/29/14	
592	SWDA A&B (Westside Drive, Lester and Mason Courts) - Field Work (Phase I)	2135 edays	Mon 2/26/07	Mon 12/31/12	588SS
593	Post-Construction Summary Report (Phase I Removal Action)	170 days	Wed 9/5/12	Fri 2/22/13	
594	Prepare Internal Draft SWDA A&B PCSR	35 edays	Wed 9/5/12	Wed 10/10/12	
595	Navy BRAC/RASO Review Internal Draft SWDA A&B PCSR	30 edays	Wed 10/10/12	Fri 11/9/12	594
596	Prepare Draft SWDA A&B PCSR	14 edays	Fri 11/9/12	Fri 11/23/12	595
597	Agency Review Draft SWDA A&B PCSR	30 edays	Fri 11/23/12	Sun 12/23/12	596
598	Prepare Preliminary Responses to Agency Comments on Draft SWDA A&B PCSR	14 edays	Sun 12/23/12	Sun 1/6/13	597
599	Prepare Internal Final SWDA A&B PCSR	19 edays	Sun 1/6/13	Fri 1/25/13	598
600	Navy Review Internal Final SWDA A&B PCSR	14 edays	Fri 1/25/13	Fri 2/8/13	599
601	Prepare Final SWDA A&B PCSR	14 edays	Fri 2/8/13	Fri 2/22/13	600
602	B-25 Box Disposal	60 edays	Fri 2/22/13	Tue 4/23/13	601
603	SWDA A&B (Westside Drive, Lester and Mason Courts) - Work Plan (Phase II)	329 days	Thu 5/31/12	Thu 4/25/13	
604	✓ Navy to award contract for SWDA A&B Phase II	90 edays	Thu 5/31/12	Wed 8/29/12	
605	Prepare Internal Draft Site 12 SWDA A&B Phase II Work Plan	30 edays	Wed 8/29/12	Fri 9/28/12	604
606	Navy BRAC Review Internal Draft Site 12 SWDA A&B Phase II Work Plan	14 edays	Fri 9/28/12	Fri 10/12/12	605
607	Revise Internal Draft Site 12 SWDA A&B Phase II Work Plan	7 edays	Fri 10/12/12	Fri 10/19/12	606
608	Navy RASO Review Internal Draft Site 12 SWDA A&B Phase II Work Plan	60 edays	Fri 10/19/12	Tue 12/18/12	607
609	Prepare Draft Site 12 SWDA A&B Phase II Work Plan	7 edays	Tue 12/18/12	Tue 12/25/12	608

All start and finish dates on Saturday or Sunday default to the following business day.

**NAVAL STATION TREASURE ISLAND ENVIRONMENTAL SCHEDULE
FINAL SITE MANAGEMENT PLAN
September 2012**

ID	Task Name	Duration	Start	Finish	Predecessors
610	Agency Review Draft Site 12 SWDA A&B Phase II Work Plan	30 edays	Tue 12/25/12	Thu 1/24/13	609
611	Prepare Preliminary Responses to Agency Comments on Draft Site 12 SWDA A&B Phase II Work Plan	14 edays	Thu 1/24/13	Thu 2/7/13	610
612	Prepare Internal Final Site 12 SWDA A&B Phase II Work Plan	19 edays	Thu 2/7/13	Tue 2/26/13	611
613	Navy Review Internal Final Site 12 SWDA A&B Phase II Work Plan	14 edays	Tue 2/26/13	Tue 3/12/13	612
614	Prepare Final Site 12 SWDA A&B Phase II Work Plan	14 edays	Tue 3/12/13	Tue 3/26/13	613
615	Concurrence on Final Site 12 SWDA A&B Phase II Work Plan	30 edays	Tue 3/26/13	Thu 4/25/13	614
616	SWDA A&B (Westside Drive, Lester and Mason Courts) - Field Work (Phase II)	90 edays	Thu 4/25/13	Wed 7/24/13	615
617	Post-Construction Summary Report/Final Status Survey (Phase II Removal Action)	209 days	Wed 7/24/13	Tue 2/18/14	616
618	Prepare Internal Draft SWDA A&B Phase II PCSR/FSS Report	30 edays	Wed 7/24/13	Fri 8/23/13	616
619	Navy Review Internal Draft SWDA A&B Phase II PCSR/FSS Report	14 edays	Fri 8/23/13	Fri 9/6/13	618
620	Revise Internal Draft SWDA A&B Phase II PCSR/FSS Report	7 edays	Fri 9/6/13	Fri 9/13/13	619
621	Navy RASO Review Internal Draft SWDA A&B Phase II PCSR/FSS Report	60 edays	Fri 9/13/13	Tue 11/12/13	620
622	Prepare Draft SWDA A&B Phase II PCSR/FSS Report	7 edays	Tue 11/12/13	Tue 11/19/13	621
623	Agency Review Draft SWDA A&B Phase II PCSR/FSS Report	30 edays	Tue 11/19/13	Thu 12/19/13	622
624	Prepare Preliminary Responses to Agency Comments on Draft SWDA A&B Phase II PCSR/FSS Report	14 edays	Thu 12/19/13	Thu 1/2/14	623
625	Prepare Internal Final SWDA A&B Phase II PCSR/FSS Report	19 edays	Thu 1/2/14	Tue 1/21/14	624
626	Navy Review Internal Final SWDA A&B Phase II PCSR/FSS Report	14 edays	Tue 1/21/14	Tue 2/4/14	625
627	Prepare Final SWDA A&B Phase II PCSR/FSS Report	14 edays	Tue 2/4/14	Tue 2/18/14	626
628	SWDA A&B (Westside Drive, Lester and Mason Courts) - Work Plan (Phase III)	329 days	Mon 12/3/12	Mon 10/28/13	
629	Navy to award contract for SWDA A&B Phase III	90 edays	Mon 12/3/12	Sun 3/3/13	
630	Prepare Internal Draft Site 12 SWDA A&B Phase III Work Plan	30 edays	Sun 3/3/13	Tue 4/2/13	629
631	Navy BRAC Review Internal Draft Site 12 SWDA A&B Phase III Work Plan	14 edays	Tue 4/2/13	Tue 4/16/13	630
632	Revise Internal Draft Site 12 SWDA A&B Phase III Work Plan	7 edays	Tue 4/16/13	Tue 4/23/13	631
633	Navy RASO Review Internal Draft Site 12 SWDA A&B Phase III Work Plan	60 edays	Tue 4/23/13	Sat 6/22/13	632
634	Prepare Draft Site 12 SWDA A&B Phase III Work Plan	7 edays	Sat 6/22/13	Sat 6/29/13	633
635	Agency Review Draft Site 12 SWDA A&B Phase III Work Plan	30 edays	Sat 6/29/13	Mon 7/29/13	634
636	Prepare Preliminary Responses to Agency Comments on Draft Site 12 SWDA A&B Phase III Work Plan	14 edays	Mon 7/29/13	Mon 8/12/13	635
637	Prepare Internal Final Site 12 SWDA A&B Phase III Work Plan	19 edays	Mon 8/12/13	Sat 8/31/13	636
638	Navy Review Internal Final Site 12 SWDA A&B Phase III Work Plan	14 edays	Sat 8/31/13	Sat 9/14/13	637
639	Prepare Final Site 12 SWDA A&B Phase III Work Plan	14 edays	Sat 9/14/13	Sat 9/28/13	638
640	Concurrence on Final Site 12 SWDA A&B Phase III Work Plan	30 edays	Sat 9/28/13	Mon 10/28/13	639
641	Westside Drive, Lester and Mason Courts - Field Work (Phase III)	90 edays	Mon 10/28/13	Sun 1/26/14	640
642	HHRA for SWDA A&B (Westside Drive, Lester and Mason Courts) (CERCLA only)	60 edays	Sun 1/26/14	Thu 3/27/14	641
643	SWDA A&B (Westside Drive, Lester and Mason Courts) - RACR/FSS Report	246 days	Sun 1/26/14	Mon 9/29/14	

All start and finish dates on Saturday or Sunday default to the following business day.

**NAVAL STATION TREASURE ISLAND ENVIRONMENTAL SCHEDULE
FINAL SITE MANAGEMENT PLAN
September 2012**

ID	Task Name	Duration	Start	Finish	Predecessors
644	Prepare Internal Draft Site 12 SWDA A&B RACR/FSS Report	30 edays	Sun 1/26/14	Tue 2/25/14	641
645	Navy BRAC Review Internal Draft Site 12 SWDA A&B RACR/FSS Report	14 edays	Tue 2/25/14	Tue 3/11/14	644
646	Revise Internal Draft Site 12 SWDA A&B RACR/FSS Report	7 edays	Tue 3/11/14	Tue 3/18/14	645
647	Navy RASO Review Internal Draft Site 12 SWDA A&B RACR/FSS Report	60 edays	Tue 3/18/14	Sat 5/17/14	646
648	Prepare Draft Site 12 SWDA A&B RACR/FSS Report	7 edays	Sat 5/17/14	Sat 5/24/14	647
649	Agency Review Draft Site 12 SWDA A&B RACR/FSS Report	30 edays	Sat 5/24/14	Mon 6/23/14	648
650	Prepare Preliminary Responses to Agency Comments on Draft Site 12 SWDA A&B RACR/FSS Report	14 edays	Mon 6/23/14	Mon 7/7/14	649
651	Prepare Internal Final Site 12 SWDA A&B RACR/FSS Report	19 edays	Mon 7/7/14	Sat 7/26/14	650
652	Navy Review Internal Final Site 12 SWDA A&B RACR/FSS Report	14 edays	Sat 7/26/14	Sat 8/9/14	651
653	Prepare Final Site 12 SWDA A&B RACR/FSS Report	14 edays	Sat 8/9/14	Sat 8/23/14	652
654	Concur with Site 12 SWDA A&B RACR/FSS Report	30 edays	Sat 8/23/14	Mon 9/22/14	653
655	Complete Backfilling of Excavation SWDA A&B	7 edays	Mon 9/22/14	Mon 9/29/14	654
656	BAYSIDE/NORTH POINT - FINAL STATUS SURVEY (FSS)	1137 days	Fri 8/19/11	Mon 9/29/14	
657	Post-Construction Summary Report (Phase I Removal Action)	441 days	Fri 8/19/11	Fri 11/2/12	
658	Prepare Internal Draft Bayside/North Point PCSR	60 edays	Fri 8/19/11	Tue 10/18/11	
659	Navy Review Internal Draft Bayside/North Point PCSR	132 edays	Tue 10/18/11	Mon 2/27/12	658
660	Prepare Draft Bayside/North Point PCSR	193 edays	Mon 2/27/12	Fri 9/7/12	659
661	Agency Review Draft Bayside/North Point PCSR	21 edays	Fri 9/7/12	Fri 9/28/12	660
662	Prepare Preliminary Responses to Agency Comments on Draft Bayside/North Point SWDA Post-Construction	7 edays	Fri 9/28/12	Fri 10/5/12	661
663	Prepare Internal Final Bayside/North Point PCSR	14 edays	Fri 10/5/12	Fri 10/19/12	662
664	Navy Review Internal Final Bayside/North Point PCSR	7 edays	Fri 10/19/12	Fri 10/26/12	663
665	Prepare Final Bayside/North Point PCSR	7 edays	Fri 10/26/12	Fri 11/2/12	664
666	Bayside/North Point - Work Plan (Phase II)	329 days	Mon 12/3/12	Mon 10/28/13	
667	Navy to award contract for Bayside/North Point Phase II	90 edays	Mon 12/3/12	Sun 3/3/13	
668	Prepare Internal Draft Bayside/North Point Phase II Work Plan	30 edays	Sun 3/3/13	Tue 4/2/13	667
669	Navy BRAC Review Internal Draft Bayside/North Point Phase II Work Plan	14 edays	Tue 4/2/13	Tue 4/16/13	668
670	Revise Internal Draft Bayside/North Point Phase II Work Plan	7 edays	Tue 4/16/13	Tue 4/23/13	669
671	Navy RASO Review Internal Draft Bayside/North Point Phase II Work Plan	60 edays	Tue 4/23/13	Sat 6/22/13	670
672	Prepare Draft Bayside/North Point Phase II Work Plan	7 edays	Sat 6/22/13	Sat 6/29/13	671
673	Agency Review Draft Bayside/North Point Phase II Work Plan	30 edays	Sat 6/29/13	Mon 7/29/13	672
674	Prepare Preliminary Responses to Agency Comments on Draft Bayside/North Point Phase II Work Plan	14 edays	Mon 7/29/13	Mon 8/12/13	673
675	Prepare Internal Final Bayside/North Point Phase II Work Plan	19 edays	Mon 8/12/13	Sat 8/31/13	674
676	Navy Review Internal Final Bayside/North Point Phase II Work Plan	14 edays	Sat 8/31/13	Sat 9/14/13	675
677	Prepare Final Bayside/North Point Phase II Work Plan	14 edays	Sat 9/14/13	Sat 9/28/13	676

All start and finish dates on Saturday or Sunday default to the following business day.

**NAVAL STATION TREASURE ISLAND ENVIRONMENTAL SCHEDULE
FINAL SITE MANAGEMENT PLAN
September 2012**

ID	Task Name	Duration	Start	Finish	Predecessors
678	Concurrence on Final Bayside/North Point Phase II Work Plan	30 edays	Sat 9/28/13	Mon 10/28/13	677
679	Bayside/North Point - Field Work (Phase II)	90 edays	Mon 10/28/13	Sun 1/26/14	678
680	HHRA for Bayside/North Point (CERCLA only)	60 edays	Sun 1/26/14	Thu 3/27/14	679
681	Bayside/North Point - Removal Action Completion Report (RACR)/FSS Report	246 days	Sun 1/26/14	Mon 9/29/14	
682	Prepare Internal Draft Bayside/North Point RACR/FSS Report	30 edays	Sun 1/26/14	Tue 2/25/14	679
683	Navy BRAC Review Internal Draft Bayside/North Point RACR/FSS Report	14 edays	Tue 2/25/14	Tue 3/11/14	682
684	Revise Internal Draft Bayside/North Point RACR/FSS Report	7 edays	Tue 3/11/14	Tue 3/18/14	683
685	Navy RASO Review Internal Draft Bayside/North Point RACR/FSS Report	60 edays	Tue 3/18/14	Sat 5/17/14	684
686	Prepare Draft Bayside/North Point RACR/FSS Report	7 edays	Sat 5/17/14	Sat 5/24/14	685
687	Agency Review Draft Bayside/North Point RACR/FSS Report	30 edays	Sat 5/24/14	Mon 6/23/14	686
688	Prepare Preliminary Responses to Agency Comments on Draft Bayside/North Point RACR/FSS Report	14 edays	Mon 6/23/14	Mon 7/7/14	687
689	Prepare Internal Final Bayside/North Point RACR/FSS Report	19 edays	Mon 7/7/14	Sat 7/26/14	688
690	Navy Review Internal Final Bayside/North Point RACR/FSS Report	14 edays	Sat 7/26/14	Sat 8/9/14	689
691	Prepare Final Bayside/North Point RACR/FSS Report	14 edays	Sat 8/9/14	Sat 8/23/14	690
692	Concur with Bayside/North Point RACR/FSS Report	30 edays	Sat 8/23/14	Mon 9/22/14	691
693	Complete Backfilling of Excavation Bayside/North Point	7 edays	Mon 9/22/14	Mon 9/29/14	692
694	RECREATIONAL AREA CHARACTERIZATION SURVEY	612 days	Tue 1/1/13	Fri 9/5/14	
695	Recreational Area Radiological Characterization Work Plan	313 days	Tue 1/1/13	Sun 11/10/13	
696	Navy award contract for Recreational Area radiological characterization survey	90 edays	Tue 1/1/13	Mon 4/1/13	
697	Prepare Internal Draft Recreational Area Radiological Characterization Survey Work Plan	14 edays	Mon 4/1/13	Mon 4/15/13	696
698	Navy BRAC Review Internal Draft Recreational Area Radiological Characterization Survey Work Plan	7 edays	Mon 4/15/13	Mon 4/22/13	697
699	Revise Internal Draft Recreational Area Radiological Characterization Survey Work Plan	60 edays	Mon 4/22/13	Fri 6/21/13	698
700	Navy RASO Review Internal Draft Recreational Area Radiological Characterization Survey Work Plan	7 edays	Fri 6/21/13	Fri 6/28/13	699
701	Prepare Draft Recreational Area Radiological Characterization Survey Work Plan	30 edays	Fri 6/28/13	Sun 7/28/13	700
702	Agency Review Draft Recreational Area Radiological Characterization Survey Work Plan	14 edays	Sun 7/28/13	Sun 8/11/13	701
703	Responses to Agency Comments on Draft Recreational Area Radiological Characterization Survey Work Plan	19 edays	Sun 8/11/13	Fri 8/30/13	702
704	Prepare Internal Final Recreational Area Radiological Characterization Survey Work Plan	14 edays	Fri 8/30/13	Fri 9/13/13	703
705	Navy Review Internal Final Recreational Area Radiological Characterization Survey Work Plan	14 edays	Fri 9/13/13	Fri 9/27/13	704
706	Prepare Final Recreational Area Radiological Characterization Survey Work Plan	30 edays	Fri 9/27/13	Sun 10/27/13	705
707	Concurrence on Final Recreational Area Radiological Characterization Survey Work Plan	14 edays	Sun 10/27/13	Sun 11/10/13	706
708	Recreational Area Radiological Characterization Survey	60 edays	Sun 11/10/13	Thu 1/9/14	707
709	Recreational Area Radiological Characterization Survey Report / Final Status Survey (FSS) Report	239 days	Thu 1/9/14	Fri 9/5/14	
710	Prepare Internal Draft Recreational Area Radiological Characterization Survey Report/FSS Report	30 edays	Thu 1/9/14	Sat 2/8/14	708
711	Navy BRAC Review Internal Draft Recreational Area Radiological Characterization Survey Report/FSS Report	14 edays	Sat 2/8/14	Sat 2/22/14	710

All start and finish dates on Saturday or Sunday default to the following business day.

**NAVAL STATION TREASURE ISLAND ENVIRONMENTAL SCHEDULE
FINAL SITE MANAGEMENT PLAN
September 2012**

ID	Task Name	Duration	Start	Finish	Predecessors
712	Revise Internal Draft Recreational Area Radiological Characterization Survey Report/FSS Report	7 edays	Sat 2/22/14	Sat 3/1/14	711
713	Navy RASO Review Internal Draft Recreational Area Radiological Characterization Survey Report/FSS Report	60 edays	Sat 3/1/14	Wed 4/30/14	712
714	Prepare Draft Recreational Area Radiological Characterization Survey Report/FSS Report	7 edays	Wed 4/30/14	Wed 5/7/14	713
715	Agency Review Draft Recreational Area Radiological Characterization Survey Report/FSS Report	30 edays	Wed 5/7/14	Fri 6/6/14	714
716	Prepare Preliminary Responses to Agency Comments on Draft Recreational Area Radiological Characterization Survey	14 edays	Fri 6/6/14	Fri 6/20/14	715
717	Prepare Internal Final Recreational Area Radiological Characterization Survey Report/FSS Report	19 edays	Fri 6/20/14	Wed 7/9/14	716
718	Navy Review Internal Final Recreational Area Radiological Characterization Survey Report/FSS Report	14 edays	Wed 7/9/14	Wed 7/23/14	717
719	Prepare Final Recreational Area Radiological Characterization Survey Report/FSS Report	14 edays	Wed 7/23/14	Wed 8/6/14	718
720	Concurrence on Final Recreational Area Radiological Characterization Survey Report/FSS Report	30 edays	Wed 8/6/14	Fri 9/5/14	719
721	SITE 12 RADIOLOGICAL SCOPING SURVEY (Includes Site 12 Non-SWDA Areas, Pandemonium Sites I&II, Building 233 Drain Lines)	748 days	Sat 6/30/12	Fri 7/18/14	
722	Radiological Scoping Survey Work Plan for Site 12 (and other areas)	389 days	Sat 6/30/12	Wed 7/24/13	
723	Navy Contract Site 12 Radiological Scoping Survey Work Plan	90 edays	Sat 6/30/12	Fri 9/28/12	
724	Prepare Internal Draft Radiological Scoping Survey Work Plan	90 edays	Fri 9/28/12	Thu 12/27/12	723
725	Navy BRAC Review Internal Draft Radiological Scoping Survey Work Plan	14 edays	Thu 12/27/12	Thu 1/10/13	724
726	Revise Internal Draft Radiological Scoping Survey Work Plan	7 edays	Thu 1/10/13	Thu 1/17/13	725
727	Navy RASO Review Internal Draft Radiological Scoping Survey Work Plan	60 edays	Thu 1/17/13	Mon 3/18/13	726
728	Prepare Draft Radiological Scoping Survey Work Plan	7 edays	Mon 3/18/13	Mon 3/25/13	727
729	Agency Review Draft Radiological Scoping Survey Work Plan	30 edays	Mon 3/25/13	Wed 4/24/13	728
730	Responses to Agency Comments on Draft Site 12 (Non-SWDA) Radiological Scoping Survey Work Plan	19 edays	Wed 4/24/13	Mon 5/13/13	729
731	Prepare Internal Final Radiological Scoping Survey Work Plan	14 edays	Mon 5/13/13	Mon 5/27/13	730
732	Navy Review Internal Final Radiological Scoping Survey Work Plan	14 edays	Mon 5/27/13	Mon 6/10/13	731
733	Prepare Final Radiological Scoping Survey Work Plan	14 edays	Mon 6/10/13	Mon 6/24/13	732
734	Concurrence on Final Radiological Scoping Survey Work Plan	30 edays	Mon 6/24/13	Wed 7/24/13	733
735	Radiological Scoping Survey Field Work for Site 12 (and other areas)	60 edays	Wed 7/24/13	Sun 9/22/13	734
736	Radiological Scoping Survey Report for Site 12 (and other areas)	299 days	Sun 9/22/13	Fri 7/18/14	
737	Prepare Internal Draft Scoping Survey Report	90 edays	Sun 9/22/13	Sat 12/21/13	735
738	Navy BRAC Review Internal Draft Scoping Survey Report	14 edays	Sat 12/21/13	Sat 1/4/14	737
739	Revise Internal Draft Scoping Survey Report	7 edays	Sat 1/4/14	Sat 1/11/14	738
740	Navy RASO Review Internal Draft Scoping Survey Report	60 edays	Sat 1/11/14	Wed 3/12/14	739
741	Prepare Draft Scoping Survey Report	7 edays	Wed 3/12/14	Wed 3/19/14	740
742	Agency Review Draft Scoping Survey Report	30 edays	Wed 3/19/14	Fri 4/18/14	741
743	Prepare Preliminary Responses to Agency Comments on Draft Scoping Survey Report	19 edays	Fri 4/18/14	Wed 5/7/14	742
744	Prepare Internal Final Scoping Survey Report	14 edays	Wed 5/7/14	Wed 5/21/14	743

All start and finish dates on Saturday or Sunday default to the following business day.

**NAVAL STATION TREASURE ISLAND ENVIRONMENTAL SCHEDULE
FINAL SITE MANAGEMENT PLAN
September 2012**

ID	Task Name	Duration	Start	Finish	Predecessors
745	Navy Review Internal Final Scoping Survey Report	14 edays	Wed 5/21/14	Wed 6/4/14	744
746	Prepare Final Scoping Survey Report	14 edays	Wed 6/4/14	Wed 6/18/14	745
747	Concurrence on Final Scoping Survey Report	30 edays	Wed 6/18/14	Fri 7/18/14	746
748	NON-TIME CRITICAL INTERIM REMOVAL ACTION FOR SITE 12 BIGELOW COURT	2270 days	Mon 6/9/08	Wed 8/27/14	
749	EE/CA/DRAFT RAP FOR SITE 12 HALYBURTON COURT (CANCELLED)	631 days	Mon 6/9/08	Mon 3/1/10	
767	AM/INTERIM RAP FOR SITE 12 HALYBURTON COURT (CANCELLED)	328 days	Sat 1/16/10	Fri 12/10/10	
784	REMOVAL ACTION WORK PLAN (RAWP) FOR SITE 12 BIGELOW COURT	1296 days	Thu 7/8/10	Sat 1/25/14	
785	REMOVAL ACTION WORK PLAN (RAWP) FOR SITE 12 BIGELOW COURT (CANCELLED/ON HOLD)	792 days	Thu 7/8/10	Fri 9/7/12	
796	REMOVAL ACTION WORK PLAN (RAWP) FOR SITE 12 BIGELOW COURT	299 days	Mon 4/1/13	Sat 1/25/14	
797	Navy to re-award contract for Site 12 for RAWP and Removal Action for Bigelow Court	90 edays	Mon 4/1/13	Sun 6/30/13	
798	Internal Draft Site 12 RAWP Bigelow Court	30 edays	Sun 6/30/13	Tue 7/30/13	797
799	Navy BRAC Review of Internal Draft Site 12 RAWP Bigelow Court	14 edays	Tue 7/30/13	Tue 8/13/13	798
800	Incorporate Navy Technical Review of Internal Draft Site 12 RAWP Bigelow Court	7 edays	Tue 8/13/13	Tue 8/20/13	799
801	Navy RASO Review of Internal Draft Site 12 RAWP Bigelow Court	60 edays	Tue 8/20/13	Sat 10/19/13	800
802	Prepare Draft Site 12 RAWP Bigelow Court	7 edays	Sat 10/19/13	Sat 10/26/13	801
803	Agency and Public Review of Draft Site 12 RAWP Bigelow Court	30 edays	Sat 10/26/13	Mon 11/25/13	802
804	Prepare Internal Final Site 12 RAWP Bigelow Court	33 edays	Mon 11/25/13	Sat 12/28/13	803
805	Navy Review Internal Final Site 12 RAWP Bigelow Court	14 edays	Sat 12/28/13	Sat 1/11/14	804
806	Prepare and Submit Final Site 12 RAWP Bigelow Court	14 edays	Sat 1/11/14	Sat 1/25/14	805
807	NON-TIME CRITICAL REMOVAL ACTION OF SITE 12 BIGELOW COURT	72 edays	Sat 1/25/14	Mon 4/7/14	806
808	REMOVAL ACTION COMPLETION REPORT/FINAL STATUS SURVEY FOR SITE 12 BIGELOW COURT	142 days	Mon 4/7/14	Wed 8/27/14	
809	Prepare Internal Draft Bigelow Court RACR/FSS Report	30 edays	Mon 4/7/14	Wed 5/7/14	807
810	Navy Review Internal Draft Bigelow Court RACR/FSS Report	14 edays	Wed 5/7/14	Wed 5/21/14	809
811	Prepare Draft Bigelow Court RACR/FSS Report	7 edays	Wed 5/21/14	Wed 5/28/14	810
812	Agency Review Draft Bigelow Court RACR/FSS Report	30 edays	Wed 5/28/14	Fri 6/27/14	811
813	Prepare Preliminary Responses to Agency Comments on Bigelow Court RACR/FSS Report	14 edays	Fri 6/27/14	Fri 7/11/14	812
814	Prepare Internal Final Bigelow Court RACR/FSS Report	19 edays	Fri 7/11/14	Wed 7/30/14	813
815	Navy Review Internal Final Bigelow Court RACR/FSS Report	14 edays	Wed 7/30/14	Wed 8/13/14	814
816	Prepare Final Bigelow Court RACR/FSS Report	14 edays	Wed 8/13/14	Wed 8/27/14	815
817	BUILDING 1311/1313 - SOIL GAS INVESTIGATION	173 days	Tue 4/17/12	Sun 10/7/12	
818	BUILDING 1311/1313 SOIL GAS INVESTIGATION WORK PLAN	77 days	Tue 4/17/12	Tue 7/3/12	
824	BUILDING 1311/1313 SOIL GAS INVESTIGATION FIELD WORK / DATA ANALYSIS	90 edays	Mon 7/9/12	Sun 10/7/12	823FS+6 edays
825	FEASIBILITY STUDY FOR SITE 12	885 days	Mon 6/13/11	Thu 11/14/13	

All start and finish dates on Saturday or Sunday default to the following business day.

**NAVAL STATION TREASURE ISLAND ENVIRONMENTAL SCHEDULE
FINAL SITE MANAGEMENT PLAN
September 2012**

ID	Task Name	Duration	Start	Finish	Predecessors
826	 Navy to award contract for Site 12 FS	60 edays	Mon 6/13/11	Fri 8/12/11	
827	PRE-FS SAMPLING INVESTIGATION	275 days	Fri 7/6/12	Sun 4/7/13	826FS+180 days
828	SITE 12 PRE-FS SAMPLING WORK PLAN	185 days	Fri 7/6/12	Mon 1/7/13	
829	 Prepare Internal Draft Site 12 Pre-FS Sampling Work Plan	60 edays	Fri 7/6/12	Tue 9/4/12	
830	Navy Review of Internal Draft Site 12 Pre-FS Sampling Work Plan	21 edays	Tue 9/4/12	Tue 9/25/12	829
831	Draft Site 12 Pre-FS Sampling Work Plan	13 edays	Tue 9/25/12	Mon 10/8/12	830
832	Agency Review Draft Site 12 Pre-FS Sampling Work Plan	30 edays	Mon 10/8/12	Wed 11/7/12	831
833	Prepare Preliminary Responses to Agency Comments on Draft Site 12 Pre-FS Sampling Work Plan	14 edays	Wed 11/7/12	Wed 11/21/12	832
834	Prepare Internal Final Site Site 12 Pre-FS Sampling Work Plan	19 edays	Wed 11/21/12	Mon 12/10/12	833
835	Navy Review Internal Final Site 12 Pre-FS Sampling Work Plan	14 edays	Mon 12/10/12	Mon 12/24/12	834
836	Final Site 12 Pre-FS Sampling Work Plan	14 edays	Mon 12/24/12	Mon 1/7/13	835
837	SITE 12 PRE-FS SAMPLING FIELD WORK / DATA ANALYSIS	83 edays	Mon 1/14/13	Sun 4/7/13	836FS+7 edays
838	FEASIBILITY STUDY REPORT	304 days	Mon 1/14/13	Thu 11/14/13	
839	Internal Draft FS for Site 12	98 edays	Mon 1/14/13	Mon 4/22/13	837SS
840	BCT Scoping Meeting Site 12 FS	0 edays	Wed 2/13/13	Wed 2/13/13	839SS+30 days
841	Navy Technical Review of Internal Draft Site 12 FS	30 edays	Mon 4/22/13	Wed 5/22/13	839
842	Incorporate Navy Technical Comments on Site 12 Internal Draft FS	14 edays	Wed 5/22/13	Wed 6/5/13	841
843	Navy Legal Review of Internal Draft Site 12 FS	30 edays	Wed 6/5/13	Fri 7/5/13	842
844	Draft FS for Site 12	32 edays	Fri 7/5/13	Tue 8/6/13	843
845	Agency Review of Draft FS for Site 12	30 edays	Tue 8/6/13	Thu 9/5/13	844
846	Preliminary RTCs on Draft FS for Site 12	19 edays	Thu 9/5/13	Tue 9/24/13	845
847	Meeting to Discuss Preliminary RTCs on Draft FS for Site 12	1 eday	Tue 9/24/13	Wed 9/25/13	846
848	Internal Final for Site 12 FS	22 edays	Wed 9/25/13	Thu 10/17/13	847
849	Navy Review of Internal Final for Site 12 FS	14 edays	Thu 10/17/13	Thu 10/31/13	848
850	Final FS for Site 12	14 edays	Thu 10/31/13	Thu 11/14/13	849
851	PP/DRAFT RAP FOR SITE 12	380 days	Mon 4/7/14	Wed 4/22/15	
852	 Navy to award PP/Draft RAP for Site 12	60 edays	Mon 4/7/14	Fri 6/6/14	
853	 Prepare Internal Draft PP/Draft RAP for Site 12	90 edays	Fri 6/6/14	Thu 9/4/14	852
854	Navy Technical Review of Internal Draft PP/Draft RAP for Site 12	30 edays	Thu 9/4/14	Sat 10/4/14	853
855	Incorporate Navy Technical Review Comments on Internal Draft PP/Draft RAP for Site 12	14 edays	Sat 10/4/14	Sat 10/18/14	854
856	Navy Legal Review of Internal Draft PP/Draft RAP for Site 12	30 edays	Sat 10/18/14	Mon 11/17/14	855
857	Prepare Draft PP/RAP for Site 12	14 edays	Mon 11/17/14	Mon 12/1/14	856
858	Agency Review of Draft PP/Draft RAP for Site 12	30 edays	Mon 12/1/14	Wed 12/31/14	857
859	Prepare Preliminary RTCs for Draft PP/Draft RAP for Site 12	28 edays	Wed 12/31/14	Wed 1/28/15	858

All start and finish dates on Saturday or Sunday default to the following business day.

**NAVAL STATION TREASURE ISLAND ENVIRONMENTAL SCHEDULE
FINAL SITE MANAGEMENT PLAN
September 2012**

ID	Task Name	Duration	Start	Finish	Predecessors
860	Meeting to Discuss Preliminary RTCs on Draft PP/Draft RAP for Site 12	0 edays	Wed 1/28/15	Wed 1/28/15	859
861	Prepare Internal Final PP/RAP for Site 12	30 edays	Wed 1/28/15	Fri 2/27/15	860
862	Navy Review of Internal Final PP/RAP for Site 12	10 edays	Fri 2/27/15	Mon 3/9/15	861
863	Prepare Final PP/Draft RAP for Site 12	14 edays	Mon 3/9/15	Mon 3/23/15	862
864	Public Notice of Final PP/Draft RAP for Site 12	0 edays	Mon 3/23/15	Mon 3/23/15	863
865	Public Comment Period of Final PP/Draft RAP for Site 12	30 edays	Mon 3/23/15	Wed 4/22/15	864
866	Finalize Administrative Record for Final PP/Draft RAP for Site 12	0 edays	Wed 4/22/15	Wed 4/22/15	865
867	Public Meeting for Final PP/Draft RAP for Site 12	0 edays	Wed 4/22/15	Wed 4/22/15	866
868	ROD/RAP FOR SITE 12	320 days	Fri 2/27/15	Wed 1/13/16	
869	Prepare Internal Draft ROD/RAP for Site 12	90 edays	Fri 2/27/15	Thu 5/28/15	862SS
870	Navy Technical Review of Internal Draft of ROD/RAP for Site 12	30 edays	Thu 5/28/15	Sat 6/27/15	869
871	Incorporate Navy Technical Review Comments on Internal Draft ROD/RAP for Site 12	14 edays	Sat 6/27/15	Sat 7/11/15	870
872	Navy Legal Review Internal Draft of ROD/RAP for Site 12	30 edays	Sat 7/11/15	Mon 8/10/15	871
873	Prepare Draft ROD/RAP for Site 12	14 edays	Mon 8/10/15	Mon 8/24/15	872
874	Agency Review of Draft ROD/RAP for Site 12	30 edays	Mon 8/24/15	Wed 9/23/15	873
875	Prepare Preliminary RTCs on Draft ROD/RAP for Site 12	28 edays	Wed 9/23/15	Wed 10/21/15	874
876	Meeting to Discuss RTCs on Draft ROD/RAP for Site 12	0 edays	Wed 10/21/15	Wed 10/21/15	875
877	Prepare Internal Final ROD/RAP for Site 12	30 edays	Wed 10/21/15	Fri 11/20/15	875
878	Navy Review of Internal Final ROD/RAP for Site 12	10 edays	Fri 11/20/15	Mon 11/30/15	877
879	Prepare Final ROD/RAP for Site 12	14 edays	Mon 11/30/15	Mon 12/14/15	878
880	ROD/RAP for Site 12 Signature	30 edays	Mon 12/14/15	Wed 1/13/16	879
881	Public Notice of Signing ROD/RAP for Site 12	0 edays	Wed 1/13/16	Wed 1/13/16	880
882	REMEDIAL DESIGN FOR SITE 12	288 days	Wed 10/21/15	Thu 8/4/16	
883	Navy to award contract for Site 12 Remedial Design	60 edays	Wed 10/21/15	Sun 12/20/15	877SS
884	Internal Draft RD for Site 12	90 edays	Sun 12/20/15	Sat 3/19/16	877,883
885	BCT Working Meeting for Site 12 RD	0 edays	Tue 1/19/16	Tue 1/19/16	884SS+30 edays
886	Navy Review of Internal Draft RD for Site 12	21 edays	Sat 3/19/16	Sat 4/9/16	884
887	Draft RD for Site 12	14 edays	Sat 4/9/16	Sat 4/23/16	886
888	Agency Review of Draft RD for Site 12	30 edays	Sat 4/23/16	Mon 5/23/16	887
889	Prepare Preliminary RTCs on Draft RD for Site 12	28 edays	Mon 5/23/16	Mon 6/20/16	888
890	BCT Meeting to discuss Preliminary RTCs on Draft RD for Site 12	0 edays	Mon 6/20/16	Mon 6/20/16	889
891	Internal Final for Site 12 RD	21 edays	Mon 6/20/16	Mon 7/11/16	890
892	Navy Review of Internal Final for Site 12 RD	10 edays	Mon 7/11/16	Thu 7/21/16	888,891
893	Final RD for Site 12	14 edays	Thu 7/21/16	Thu 8/4/16	892

All start and finish dates on Saturday or Sunday default to the following business day.

**NAVAL STATION TREASURE ISLAND ENVIRONMENTAL SCHEDULE
FINAL SITE MANAGEMENT PLAN
September 2012**

ID	Task Name	Duration	Start	Finish	Predecessors
894	REMEDIAL ACTION FOR SITE 12	702 days	Sun 6/5/16	Tue 5/8/18	
895	 Navy to Award Contract for Remedial Action for Site 12	60 edays	Sun 6/5/16	Thu 8/4/16	893FS-60 edays
896	 Remediation Field Work Site 12	500 edays	Thu 8/4/16	Sun 12/17/17	895
897	REMEDIAL ACTION COMPLETION REPORT (RACR)	142 days	Sun 12/17/17	Tue 5/8/18	
898	Internal Draft RACR for Site 12	30 edays	Sun 12/17/17	Tue 1/16/18	896
899	BCT Working Meeting for Site 12 RACR	0 edays	Mon 1/1/18	Mon 1/1/18	898SS+15 edays
900	Navy Review of Internal Draft RACR for Site 12	14 edays	Tue 1/16/18	Tue 1/30/18	898
901	Draft RACR for Site 12	7 edays	Tue 1/30/18	Tue 2/6/18	900
902	Agency Review of Site 12 Draft RACR	30 edays	Tue 2/6/18	Thu 3/8/18	901
903	Internal Final RACR for Site 12	33 edays	Thu 3/8/18	Tue 4/10/18	902
904	Navy Review of Internal Final RACR for Site 12	14 edays	Tue 4/10/18	Tue 4/24/18	903
905	Final RACR for Site 12	14 edays	Tue 4/24/18	Tue 5/8/18	904
906	SITE CLOSEOUT FOR SITE 12	30 edays	Tue 5/8/18	Thu 6/7/18	905

All start and finish dates on Saturday or Sunday default to the following business day.

**NAVAL STATION TREASURE ISLAND ENVIRONMENTAL SCHEDULE
FINAL SITE MANAGEMENT PLAN
September 2012**

ID	Task Name	Duration	Start	Finish	Predecessors
907	SITE 21	5151 days	Tue 7/1/03	Sat 2/3/18	
908	 REMEDIAL INVESTIGATION FOR SITE 21	1151 days	Tue 7/1/03	Tue 2/20/07	
924	  TREATABILITY STUDY FOR SITE 21	2247 days	Wed 12/15/04	Mon 3/7/11	
947	 FEASIBILITY STUDY FOR SITE 21	938 days	Tue 9/5/06	Tue 3/31/09	
962	  SITE 21 SOIL GAS INVESTIGATION WORK PLAN	508 days	Sun 6/13/10	Wed 11/2/11	
971	 SITE 21 SOIL GAS INVESTIGATION FIELD WORK / DATA ANALYSIS	131 edays	Wed 11/9/11	Mon 3/19/12	970FS+7 edays
972	SITE 21 SOIL GAS HHRA ADDENDUM	220 days	Tue 3/20/12	Fri 10/26/12	
973	 Prepare Internal Draft Soil Gas HHRA Addendum for Site 21	100 edays	Tue 3/20/12	Thu 6/28/12	971
974	 Navy Review of Internal Draft Site 21 Soil Gas HHRA Addendum	7 edays	Fri 6/29/12	Fri 7/6/12	973FS+1 eday
975	 Draft Site 21 Soil Gas HHRA Addendum	21 edays	Fri 7/6/12	Fri 7/27/12	974
976	 Agency Review Draft Site 21 Soil Gas HHRA Addendum	30 edays	Sat 7/28/12	Mon 8/27/12	975FS+1 eday
977	Prepare Preliminary Responses to Agency Comments on Draft Site 21 Soil Gas HHRA Addendum	31 edays	Tue 8/28/12	Fri 9/28/12	976FS+1 eday
978	Prepare Internal Final Site 21 Soil Gas HHRA Addendum	13 edays	Sat 9/29/12	Fri 10/12/12	977FS+1 eday
979	Navy Review Internal Final Site 21 Soil Gas HHRA Addendum	6 edays	Sat 10/13/12	Fri 10/19/12	978FS+1 eday
980	Final Site 21 Soil Gas HHRA Addendum	7 edays	Fri 10/19/12	Fri 10/26/12	979
981	 PP/DRAFT RAP FOR SITE 21	678 days	Mon 1/4/10	Sun 11/13/11	
997	ROD/RAP FOR SITE 21	417 days	Mon 9/5/11	Fri 10/26/12	
998	 Prepare Internal Draft ROD/RAP for Site 21	86 edays	Mon 9/5/11	Wed 11/30/11	991
999	 Navy Technical Review of Site 21 Internal Draft ROD/RAP	11 edays	Wed 11/30/11	Sun 12/11/11	998
1000	 Incorporate Navy Technical Comments on Site 21 Internal Draft ROD/RAP	8 edays	Sun 12/11/11	Mon 12/19/11	999
1001	 Navy Legal Review of Site 21 Internal Draft ROD/RAP	50 edays	Mon 12/19/11	Tue 2/7/12	1000
1002	 Draft ROD/RAP for Site 21	0 edays	Tue 2/7/12	Tue 2/7/12	1001
1003	 Agency Review of Draft ROD/RAP for Site 21	28 edays	Tue 2/7/12	Tue 3/6/12	1002
1004	 Preliminary RTCs on Draft ROD/RAP for Site 21	41 edays	Tue 3/6/12	Mon 4/16/12	1003
1005	 Resolve and Concur on RTCs for Draft ROD/RAP for Site 21	13 edays	Mon 4/16/12	Sun 4/29/12	1004
1006	 Internal Final ROD/RAP for Site 21	7 edays	Sun 4/29/12	Sun 5/6/12	1005
1007	 Navy Review of Internal Final ROD/RAP for Site 21	11 edays	Sun 5/6/12	Thu 5/17/12	1006
1008	Final ROD/RAP for Site 21	148 edays	Thu 5/17/12	Fri 10/12/12	1007
1009	 Site 21 ROD/RAP Signature	14 edays	Fri 10/12/12	Fri 10/26/12	1008,976SS
1010	Public Notice of Signing ROD/RAP	0 edays	Fri 10/26/12	Fri 10/26/12	1009
1011	 LAND USE CONTROL REMEDIAL DESIGN/ REMEDIAL ACTION WORK PLAN (LUC RD/RAWP) FOR SITE 21	274 days	Mon 4/30/12	Tue 1/29/13	
1012	 Internal Draft Site 21 LUC RD/RAWP	60 edays	Mon 4/30/12	Fri 6/29/12	
1013	 Navy Review of Internal Draft Site 21 LUC RD/RAWP	42 edays	Fri 6/29/12	Fri 8/10/12	1012

All start and finish dates on Saturday or Sunday default to the following business day.

**NAVAL STATION TREASURE ISLAND ENVIRONMENTAL SCHEDULE
FINAL SITE MANAGEMENT PLAN
September 2012**

ID	Task Name	Duration	Start	Finish	Predecessors
1014	Draft Site 21 LUC RD/RAWP	77 edays	Fri 8/10/12	Fri 10/26/12	1013
1015	Agency Review of Draft Site 21 LUC RD/RAWP	30 edays	Fri 10/26/12	Sun 11/25/12	1014
1016	Preliminary RTCs on Draft Site 21 LUC RD/RAWP	10 edays	Sun 11/25/12	Wed 12/5/12	1015
1017	Meeting to Discuss Preliminary RTCs on Draft Site 21 LUC RD/RAWP	1 eday	Wed 12/5/12	Thu 12/6/12	1016
1018	Internal Final Site 21 LUC RD/RAWP	30 edays	Thu 12/6/12	Sat 1/5/13	1017
1019	Navy Review of Internal Final Site 21 LUC RD/RAWP	10 edays	Sat 1/5/13	Tue 1/15/13	1018
1020	Final Site 21 LUC RD/RAWP	14 edays	Tue 1/15/13	Tue 1/29/13	1019
1021	LAND USE CONTROL REMEDIAL ACTION FOR SITE 21	1885 days	Thu 12/6/12	Sat 2/3/18	
1022	Navy to Award Contract for Site 21 LUC Remedial Action	60 edays	Thu 12/6/12	Mon 2/4/13	1018SS
1023	Annual LUC Inspections	1825 edays	Mon 2/4/13	Sat 2/3/18	1022
1024	FIVE-YEAR REVIEW	142 days	Tue 6/6/17	Thu 10/26/17	
1025	Internal Draft Five Year Review for Site 21	30 edays	Tue 6/6/17	Thu 7/6/17	1009FS+1685 days
1026	Navy Review of Site 21 Internal Draft Five Year Review Report	14 edays	Thu 7/6/17	Thu 7/20/17	1025
1027	BCT Scoping Meeting for Site 21 Five Year Review Report	0 edays	Thu 7/20/17	Thu 7/20/17	1026
1028	Draft Five Year Review Report for Site 21	7 edays	Thu 7/20/17	Thu 7/27/17	1027
1029	Agency Review of Site 21 Draft Five Year Review Report	30 edays	Thu 7/27/17	Sat 8/26/17	1028
1030	Internal Final Five Year Review Report for Site 21	33 edays	Sat 8/26/17	Thu 9/28/17	1029
1031	Navy Review of Internal Final Five Year Review Report for Site 21	14 edays	Thu 9/28/17	Thu 10/12/17	1030
1032	Final Five Year Review Report for Site 21	14 edays	Thu 10/12/17	Thu 10/26/17	1031
1033	SITE CLOSEOUT FOR SITE 21	30 edays	Thu 10/26/17	Sat 11/25/17	1032

**NAVAL STATION TREASURE ISLAND ENVIRONMENTAL SCHEDULE
FINAL SITE MANAGEMENT PLAN
September 2012**

ID	Task Name	Duration	Start	Finish	Predecessors
1034	SITE 24	6371 days	Tue 1/21/03	Fri 1/15/21	
1035	✓ PLUME DELINEATION INVESTIGATION	146 days	Mon 2/3/03	Wed 7/23/03	
1042	✓ REMEDIAL INVESTIGATION/FOCUSED FEASIBILITY STUDY FOR SITE 24	1301 days	Sun 10/31/04	Thu 7/3/08	
1069	✓ PILOT STUDY FOR SITE 24	673 days	Tue 1/21/03	Thu 6/9/05	
1085	EXPANDED TREATABILITY STUDY FOR SITE 24	3406 days	Fri 3/26/04	Sat 11/2/13	
1086	✓ Draft Plans for Expanded Treatability Study Site 24	234 edays	Fri 3/26/04	Mon 11/15/04	1079FS+1 day
1087	✓ Install Expanded Treatability Study System Site 24	121 edays	Mon 11/15/04	Wed 3/16/05	1086
1088	✓ Operate, Monitor and Investigate Expanded Treatability Study System Site 24	2455 edays	Thu 3/17/05	Tue 12/6/11	1087FS+1 day
1089	✓ Prepare Final Report of Expanded Treatability Study System Site 24 (Phase II)	333 days	Fri 12/31/10	Wed 11/30/11	
1099	✓ Prepare Final Work Plan of Expanded Treatability Study System Site 24 (Phase III)	317 days	Sun 12/19/10	Tue 11/1/11	
1109	⚠ Operate, Monitor and Investigate Expanded Treatability Study System Site 24 (Phase III)	485 edays	Tue 11/1/11	Thu 2/28/13	1108
1110	Prepare Final Reports of Expanded Treatability Study System Site 24 (Phase III)	247 days	Thu 2/28/13	Sat 11/2/13	
1111	Prepare Site 24 Internal Draft Expanded Treatability Study Report (Phase III)	90 edays	Thu 2/28/13	Wed 5/29/13	1109
1112	Navy Review of Site 24 Internal Draft Expanded Treatability Study Report (Phase III)	30 edays	Wed 5/29/13	Fri 6/28/13	1111
1113	Site 24 Draft Expanded Treatability Study Report (Phase III)	14 edays	Fri 6/28/13	Fri 7/12/13	1112
1114	Agency Review of Site 24 Draft Expanded Treatability Study Report (Phase III)	30 edays	Fri 7/12/13	Sun 8/11/13	1113
1115	Preliminary RTCs on Draft Expanded Treatability Study Report for Site 24 (Phase III)	28 edays	Sun 8/11/13	Sun 9/8/13	1114
1116	Resolve Preliminary RTCs on Draft Expanded Treatability Study Report for Site 24 (Phase III)	1 eday	Sun 9/8/13	Mon 9/9/13	1115
1117	Internal Final Site 24 Expanded Treatability Study Report (Phase III)	30 edays	Mon 9/9/13	Wed 10/9/13	1116
1118	Navy Review Internal Final Site 24 Expanded Treatability Study Report (Phase III)	10 edays	Wed 10/9/13	Sat 10/19/13	1117
1119	Final Site 24 Expanded Treatability Study Report (Phase III)	14 edays	Sat 10/19/13	Sat 11/2/13	1118
1120	✓ SITE 24 SOIL GAS INVESTIGATION WORK PLAN	271 days	Fri 2/4/11	Wed 11/2/11	
1129	✓ SITE 24 SOIL GAS INVESTIGATION FIELD WORK / DATA ANALYSIS	56 edays	Wed 11/9/11	Wed 1/4/12	970FS+7 edays
1130	PP/DRAFT RAP FOR SITE 24	2327 days	Mon 8/20/07	Wed 1/1/14	
1131	✓ Navy to award contract for Site 24 PP/ROD/RAP	60 edays	Mon 8/20/07	Fri 10/19/07	
1132	✓ Prepare Internal Draft PP/Draft RAP for Site 24	90 edays	Fri 10/29/10	Thu 1/27/11	1100SS-67 edays
1133	⚠ Navy to re-award contract for Site 24 PP/ROD/RAP	60 edays	Tue 1/1/13	Sat 3/2/13	
1134	Revise Internal Draft PP/Draft RAP for Site 24	30 edays	Sat 3/2/13	Mon 4/1/13	1133
1135	Navy Technical Review of Internal Draft PP/Draft RAP for Site 24	30 edays	Mon 4/1/13	Wed 5/1/13	1134
1136	Incorporate Navy Technical Comments on Internal Draft PP/Draft RAP for Site 24	14 edays	Wed 5/1/13	Wed 5/15/13	1135
1137	Navy Legal Review of Internal Draft PP/Draft RAP for Site 24	30 edays	Wed 5/15/13	Fri 6/14/13	1136
1138	Prepare Draft PP/Draft RAP for Site 24	14 edays	Fri 6/14/13	Fri 6/28/13	1137
1139	Agency Review of Draft PP/Draft RAP for Site 24	30 edays	Sun 8/11/13	Tue 9/10/13	1138,1114

All start and finish dates on Saturday or Sunday default to the following business day.

**NAVAL STATION TREASURE ISLAND ENVIRONMENTAL SCHEDULE
FINAL SITE MANAGEMENT PLAN
September 2012**

ID	Task Name	Duration	Start	Finish	Predecessors
1140	Prepare Preliminary RTCs on Draft PP/Draft RAP for Site 24	28 edays	Tue 9/10/13	Tue 10/8/13	1139
1141	Meeting to Discuss Preliminary RTCs on Draft PP/Draft RAP for Site 24	1 eday	Tue 10/8/13	Wed 10/9/13	1140
1142	Prepare Internal Final PP/Draft RAP for Site 24	30 edays	Wed 10/9/13	Fri 11/8/13	1141
1143	Navy Review of Internal Final PP/Draft RAP for Site 24	10 edays	Fri 11/8/13	Mon 11/18/13	1142
1144	Prepare Final PP/Draft RAP for Site 24	14 edays	Mon 11/18/13	Mon 12/2/13	1143
1145	Public Notice of PP/Draft RAP for Site 24	0 edays	Mon 12/2/13	Mon 12/2/13	1144
1146	Public Comment Period for PP/Draft RAP for Site 24	30 edays	Mon 12/2/13	Wed 1/1/14	1145
1147	Finalize Administrative Record for PP/Draft RAP for Site 24	0 edays	Wed 1/1/14	Wed 1/1/14	1146
1148	Public Meeting for PP/Draft RAP for Site 24	1 eday	Tue 12/17/13	Wed 12/18/13	1146SS+15 edays
1149	ROD/RAP FOR SITE 24	320 days	Wed 10/23/13	Mon 9/8/14	
1150	Prepare Internal Draft ROD/RAP for Site 24	90 edays	Wed 10/23/13	Tue 1/21/14	1142SS+14 edays
1151	Navy Technical Review of Internal Draft ROD/RAP for Site 24	30 edays	Tue 1/21/14	Thu 2/20/14	1150
1152	Incorporate Navy Technical Comments on Internal Draft ROD/RAP for Site 24	14 edays	Thu 2/20/14	Thu 3/6/14	1151
1153	Navy Legal Review of Internal Draft ROD/RAP for Site 24	30 edays	Thu 3/6/14	Sat 4/5/14	1152
1154	Prepare Draft ROD/RAP for Site 24	14 edays	Sat 4/5/14	Sat 4/19/14	1153
1155	Agency Review of Draft ROD/RAP for Site 24	30 edays	Sat 4/19/14	Mon 5/19/14	1154
1156	Prepare Preliminary RTCs on Draft ROD/RAP for Site 24	28 edays	Mon 5/19/14	Mon 6/16/14	1155
1157	Meeting to Discuss Preliminary RTCs on Draft ROD/RAP for Site 24	0 edays	Mon 6/16/14	Mon 6/16/14	1156
1158	Prepare Internal Final ROD/RAP for Site 24	30 edays	Mon 6/16/14	Wed 7/16/14	1157
1159	Navy Review of Internal Final ROD/RAP for Site 24	10 edays	Wed 7/16/14	Sat 7/26/14	1158
1160	Prepare Final ROD/RAP for Site 24	14 edays	Sat 7/26/14	Sat 8/9/14	1159
1161	ROD/RAP Signature for Site 24	30 edays	Sat 8/9/14	Mon 9/8/14	1160
1162	Public Notice of Signing ROD/RAP for Site 24	0 edays	Mon 9/8/14	Mon 9/8/14	1161
1163	REMEDIAL DESIGN FOR SITE 24	307 days	Sat 5/24/14	Fri 3/27/15	
1164	Navy to award contract for Site 24 RD	60 edays	Sat 5/24/14	Wed 7/23/14	1158SS-24 days
1165	Internal Draft RD for Site 24	90 edays	Wed 7/23/14	Tue 10/21/14	1158,1164
1166	BCT Scoping Meeting for Site 24 RD	0 edays	Sat 8/23/14	Sat 8/23/14	1165SS+31 edays
1167	Navy Review of Internal Draft RD for Site 24	30 edays	Tue 10/21/14	Thu 11/20/14	1165
1168	Draft RD for Site 24	14 edays	Thu 11/20/14	Thu 12/4/14	1167
1169	Agency Review of Draft RD for Site 24	30 edays	Thu 12/4/14	Sat 1/3/15	1168
1170	Preliminary RTCs on Draft RD for Site 24	28 edays	Sat 1/3/15	Sat 1/31/15	1169
1171	Meeting to Discuss Preliminary RTCs on Draft RD for Site 24	1 eday	Sat 1/31/15	Sun 2/1/15	1170
1172	Internal Final for Site 24 RD	30 edays	Sun 2/1/15	Tue 3/3/15	1171
1173	Navy Review of Internal Final for Site 24 RD	10 edays	Tue 3/3/15	Fri 3/13/15	1172

All start and finish dates on Saturday or Sunday default to the following business day.

**NAVAL STATION TREASURE ISLAND ENVIRONMENTAL SCHEDULE
FINAL SITE MANAGEMENT PLAN
September 2012**

ID	Task Name	Duration	Start	Finish	Predecessors
1174	Final RD for Site 24	14 edays	Fri 3/13/15	Fri 3/27/15	1173
1175	REMEDIAL ACTION FOR SITE 24	2175 days	Sun 2/1/15	Fri 1/15/21	
1176	Navy to Award Contract for Remedial Action at Site 24	60 edays	Sun 2/1/15	Thu 4/2/15	1172SS
1177	Remediation Field Work Site 24/Groundwater Monitoring	1825 edays	Thu 4/2/15	Tue 3/31/20	1176
1178	FIVE YEAR REVIEW (IF NECESSARY)	290 edays	Tue 3/31/20	Fri 1/15/21	1177
1179	REMEDIAL ACTION COMPLETION REPORT (RACR)	142 days	Tue 3/31/20	Thu 8/20/20	
1180	Internal Draft RACR for Site 24	30 edays	Tue 3/31/20	Thu 4/30/20	1177
1181	BCT Scoping Meeting for Site 24 RACR	0 edays	Thu 4/30/20	Thu 4/30/20	1180SS+30 edays
1182	Navy Review of Internal Draft RACR for Site 24	14 edays	Thu 4/30/20	Thu 5/14/20	1180
1183	Draft RACR for Site 24	7 edays	Thu 5/14/20	Thu 5/21/20	1182
1184	Agency Review of Site 24 Draft RACR	30 edays	Thu 5/21/20	Sat 6/20/20	1183
1185	Internal Final RACR for Site 24	33 edays	Sat 6/20/20	Thu 7/23/20	1184
1186	Navy Review of Internal Final RACR for Site 24	14 edays	Thu 7/23/20	Thu 8/6/20	1185
1187	Final RACR for Site 24	14 edays	Thu 8/6/20	Thu 8/20/20	1186
1188	SITE CLOSEOUT FOR SITE 24	30 edays	Thu 8/20/20	Sat 9/19/20	1187

**NAVAL STATION TREASURE ISLAND ENVIRONMENTAL SCHEDULE
FINAL SITE MANAGEMENT PLAN
September 2012**

ID	Task Name	Duration	Start	Finish	Predecessors
1189	SITE 27	5176 days	Wed 5/7/03	Mon 1/22/18	
1190	FEASIBILITY STUDY FOR SITE 27	1033 days	Wed 5/7/03	Tue 9/19/06	
1208	✓ ADDITIONAL INVESTIGATION AT SITE 27	792 days	Fri 4/28/06	Fri 6/27/08	
1226	✓ FEASIBILITY STUDY (REV 2)	776 days	Fri 6/27/08	Fri 8/13/10	
1236	✓ SITE 27 BOUNDARY CHANGE LETTER	140 days	Sat 4/3/10	Fri 8/20/10	3341FF
1237	✓ PP/DRAFT RAP FOR SITE 27	731 days	Wed 7/1/09	Sat 7/2/11	
1255	✓ ROD/RAP FOR SITE 27	348 days	Mon 5/9/11	Fri 4/20/12	
1269	REMEDIAL DESIGN FOR SITE 27	388 days	Wed 2/15/12	Fri 3/8/13	
1270	✓ Navy to award contract for Site 27 Remedial Design	43 edays	Wed 2/15/12	Thu 3/29/12	1264SS-47 edays
1271	✓ Internal Draft Site 27 RD (30% Design)	63 edays	Thu 3/29/12	Thu 5/31/12	1270
1272	✓ BCT Scoping Meeting Site 27 RD (30% Design)	0 edays	Wed 5/2/12	Wed 5/2/12	1271SS+34 edays
1273	✓ Navy Review of Internal Draft Site 27 RD (30% Design)	20 edays	Thu 5/31/12	Wed 6/20/12	1271
1274	✓ Draft Site 27 RD (30% Design)	26 edays	Wed 6/20/12	Mon 7/16/12	1273
1275	✓ Agency Review of Draft Site 27 RD (30% Design)	31 edays	Mon 7/16/12	Thu 8/16/12	1274
1276	RTCs on Draft Site 27 RD (30% Design)	42 edays	Thu 8/16/12	Thu 9/27/12	1275
1277	Internal Draft for Site 27 RD (90% Design)	34 edays	Thu 9/27/12	Wed 10/31/12	1276
1278	Navy Review of Internal Final Site 27 RD (90% Design)	14 edays	Wed 10/31/12	Wed 11/14/12	1277
1279	Internal Final for Site 27 RD (90% Design) to Agencies	17 edays	Wed 11/14/12	Sat 12/1/12	1278
1280	Agency Review of Draft Site 27 RD (90% Design)	30 edays	Sat 12/1/12	Mon 12/31/12	1279
1281	RTCs on Draft Site 27 RD (90% Design)	29 edays	Mon 12/31/12	Tue 1/29/13	1280
1282	Internal Final Site 27 RD to Navy (100% Design)	15 days	Tue 1/29/13	Tue 2/12/13	1281
1283	Navy Review Internal Final Site 27 RD (100% Design)	15 days	Wed 2/13/13	Wed 2/27/13	1282
1284	Final Site 27 RD (100% Design)	9 edays	Wed 2/27/13	Fri 3/8/13	1283
1285	REMEDIAL ACTION FOR SITE 27	495 days	Mon 7/30/12	Sun 12/8/13	
1286	📅 Navy to award contract for Site 27 Remedial Action	60 edays	Mon 7/30/12	Fri 9/28/12	
1287	REMEDIAL ACTION WORK PLAN (RAWP)	165 days	Mon 11/19/12	Fri 5/3/13	
1288	📅 Prepare Internal Draft Site 27 RAWP	30 edays	Mon 11/19/12	Wed 12/19/12	
1289	Navy Review of Internal Draft Site 27 RAWP	30 edays	Wed 12/19/12	Fri 1/18/13	1288
1290	Draft Site 27 RAWP	14 edays	Fri 1/18/13	Fri 2/1/13	1289
1291	Agency Review Draft Site 27 RAWP	30 edays	Fri 2/1/13	Sun 3/3/13	1290
1292	Prepare Preliminary Responses to Agency Comments on Draft Site 27 RAWP	19 edays	Sun 3/3/13	Fri 3/22/13	1291
1293	Prepare Internal Final Site Site 27 RAWP	14 edays	Fri 3/22/13	Fri 4/5/13	1292
1294	Navy Review Internal Final Site 27 RAWP	14 edays	Fri 4/5/13	Fri 4/19/13	1293

All start and finish dates on Saturday or Sunday default to the following business day.

**NAVAL STATION TREASURE ISLAND ENVIRONMENTAL SCHEDULE
FINAL SITE MANAGEMENT PLAN
September 2012**

ID	Task Name	Duration	Start	Finish	Predecessors
1295	Final Site 27 RAWP	14 edays	Fri 4/19/13	Fri 5/3/13	1294
1296	Remediation Field Work Site 27	107 edays	Fri 5/3/13	Sun 8/18/13	1295
1297	REMEDIAL ACTION COMPLETION REPORT (RACR)	158 days	Wed 7/3/13	Sun 12/8/13	
1298	Internal Draft RACR for Site 27	30 edays	Wed 7/3/13	Fri 8/2/13	1296SS+61 edays
1299	BCT Scoping Meeting for Site 27 RACR	0 days	Thu 7/18/13	Thu 7/18/13	1298SS+15 edays
1300	Navy Review of Internal Draft RACR for Site 27	30 edays	Fri 8/2/13	Sun 9/1/13	1298
1301	Draft RACR for Site 27	7 edays	Sun 9/1/13	Sun 9/8/13	1300
1302	Agency Review of Site 27 Draft RACR	30 edays	Sun 9/8/13	Tue 10/8/13	1301
1303	Internal Final RACR for Site 27	33 edays	Tue 10/8/13	Sun 11/10/13	1302
1304	Navy Review of Internal Final RACR for Site 27	14 edays	Sun 11/10/13	Sun 11/24/13	1303
1305	Final RACR for Site 27	14 edays	Sun 11/24/13	Sun 12/8/13	1304
1306	FIVE YEAR REVIEW SITE 27	300 edays	Tue 3/28/17	Mon 1/22/18	1267FS+1826 edays
1307	SITE CLOSEOUT FOR SITE 27	30 edays	Sun 12/8/13	Tue 1/7/14	1305

**NAVAL STATION TREASURE ISLAND ENVIRONMENTAL SCHEDULE
FINAL SITE MANAGEMENT PLAN
September 2012**

ID	Task Name	Duration	Start	Finish	Predecessors
1308	SITE 28	3036 days	Thu 12/2/04	Sat 4/27/13	
1309	REMEDIAL INVESTIGATION FOR SITES 8, 28, 29	1549 days	Thu 12/2/04	Wed 4/1/09	
1333	NFA PP/DRAFT RAP FOR SITE 28	1031 days	Thu 8/2/07	Sat 5/29/10	
1350	NFA ROD/RAP FOR SITE 28	235 days	Thu 4/1/10	Mon 11/22/10	
1364	SITE CLOSEOUT FOR SITE 28 (time allocated for transfer/tidelands trust exchange)	887 edays	Mon 11/22/10	Sat 4/27/13	1363

**NAVAL STATION TREASURE ISLAND ENVIRONMENTAL SCHEDULE
FINAL SITE MANAGEMENT PLAN
September 2012**

ID	Task Name	Duration	Start	Finish	Predecessors
1365	 SITE 29	5375 days	Tue 4/19/05	Sun 1/5/20	
1366	 INTERIM REMEDIAL INVESTIGATION FOR SITES 8 & 29	1438 days	Tue 4/19/05	Fri 3/27/09	
1390	 SITE 29 (ON-OFF RAMPS) BOUNDARY CHANGE LETTER	287 edays	Wed 3/10/10	Wed 12/22/10	3349FF
1391	 SITE 29 ARTIFACT BOUNDARY CHANGE TECHNICAL MEMORANDUM	118 edays	Thu 9/1/11	Wed 12/28/11	
1392	 CALTRANS BRIDGE CONSTRUCTION PROJECT	2523 days	Mon 11/3/08	Wed 9/30/15	
1393	REMAINING CERCLA ITEMS (IF NECESSARY)	1588 days	Sat 8/1/15	Fri 12/6/19	
1394	SITES 8 & 29 RI ADDENDUM (IF NECESSARY)	246 days	Sat 8/1/15	Sun 4/3/16	
1406	FEASIBILITY STUDY FOR SITES 8 & 29 (IF NECESSARY)	350 days	Tue 2/9/16	Tue 1/24/17	
1420	PP/DRAFT RAP FOR SITES 8 & 29	320 days	Sat 12/31/16	Thu 11/16/17	
1437	ROD/RAP FOR SITES 8 & 29	320 days	Sat 9/23/17	Thu 8/9/18	
1452	REMEDIAL DESIGN FOR SITES 8 & 29 (IF NECESSARY)	276 days	Thu 5/17/18	Sun 2/17/19	
1464	REMEDIAL ACTION FOR SITES 8 & 29 (IF NECESSARY)	292 days	Sun 2/17/19	Fri 12/6/19	
1475	SITE CLOSEOUT FOR SITES 8 & 29	30 edays	Fri 12/6/19	Sun 1/5/20	1474

**NAVAL STATION TREASURE ISLAND ENVIRONMENTAL SCHEDULE
FINAL SITE MANAGEMENT PLAN
September 2012**

ID	Task Name	Duration	Start	Finish	Predecessors
1476	SITE 30	4211 days	Sun 3/16/03	Sat 4/11/15	
1477	✓ SITE 30 DATA AND FIELD ACTIVITY REPORT	108 days	Sun 3/16/03	Mon 7/28/03	
1483	✓ GROUNDWATER MONITORING FOR SITES 30/31	160 days	Thu 1/1/04	Thu 8/12/04	
1496	✓ REMEDIAL INVESTIGATION FOR SITE 30	518 days	Thu 7/8/04	Fri 2/17/06	
1510	✓ FEASIBILITY STUDY FOR SITE 30	498 days	Mon 7/4/05	Tue 11/14/06	
1524	✓ PP FOR SITE 30	804 days	Sun 8/6/06	Sat 10/18/08	
1543	✓ ROD/RAP FOR SITE 30	622 days	Wed 1/30/08	Tue 10/13/09	
1557	✓ SITE 30 LAND USE CONTROL REMEDIAL DESIGN/ REMEDIAL ACTION WORK PLAN (LUC RD/RAWP)	660 days	Wed 2/11/09	Thu 12/2/10	
1568	✓ 2011 SITE 30 LUC INSPECTION AND REPORTING	104 days	Fri 3/4/11	Fri 6/17/11	
1576	✓ 2012 SITE 30 LUC INSPECTION AND REPORTING	126 days	Wed 1/25/12	Wed 5/30/12	
1584	2013 SITE 30 LUC INSPECTION AND REPORTING	162 days	Sun 11/25/12	Mon 5/6/13	
1585	Navy Award Contract for 2013 - 2014/Five Year Review	60 edays	Sun 11/25/12	Thu 1/24/13	1577SS+305 edays
1586	Prepare Draft 2013 Site 30 LUC Inspection Report	30 edays	Thu 1/24/13	Sat 2/23/13	1577SS+365 edays
1587	Navy Review Draft 2013 Site 30 LUC Inspection Report	14 edays	Sat 2/23/13	Sat 3/9/13	1586
1588	 2013 Site 30 LUC Inspection BCT Presentation	0 edays	Sun 2/24/13	Sun 2/24/13	1587SS+1 eday
1589	Prepare Draft 2013 Site 30 LUC Inspection Report	14 edays	Sat 3/9/13	Sat 3/23/13	1587
1590	Agency Review Draft 2013 Site 30 LUC Inspection Report	30 edays	Sat 3/23/13	Mon 4/22/13	1589
1591	Prepare Responses to Agency Comments on Draft 2013 Site 30 LUC Inspection Report and Prepare Internal Final Report	7 edays	Mon 4/22/13	Mon 4/29/13	1590
1592	Navy Review Internal Final 2013 Site 30 LUC Inspection Report	3 edays	Mon 4/29/13	Thu 5/2/13	1591
1593	Final 2013 Site 30 LUC Inspection Report	4 edays	Thu 5/2/13	Mon 5/6/13	1592
1594	2014 SITE 30 LUC INSPECTION AND REPORTING	102 days	Fri 1/24/14	Tue 5/6/14	
1595	Prepare Draft 2014 Site 30 LUC Inspection Report	30 edays	Fri 1/24/14	Sun 2/23/14	1586SS+365 edays
1596	Navy Review Draft 2014 Site 30 LUC Inspection Report	14 edays	Sun 2/23/14	Sun 3/9/14	1595
1597	 2014 Site 30 LUC Inspection BCT Presentation	0 days	Sun 2/23/14	Sun 2/23/14	1596SS
1598	Prepare Draft 2014 Site 30 LUC Inspection Report	14 edays	Sun 3/9/14	Sun 3/23/14	1596
1599	Agency Review Draft 2014 Site 30 LUC Inspection Report	30 edays	Sun 3/23/14	Tue 4/22/14	1598
1600	Prepare Responses to Agency Comments on Draft 2014 Site 30 LUC Inspection Report and Prepare Internal Final Report	7 edays	Tue 4/22/14	Tue 4/29/14	1599
1601	Navy Review Internal Final 2014 Site 30 LUC Inspection Report	3 edays	Tue 4/29/14	Fri 5/2/14	1600
1602	Final 2014 Site 30 LUC Inspection Report	4 edays	Fri 5/2/14	Tue 5/6/14	1601
1603	FIVE-YEAR REVIEW	214 days	Tue 5/6/14	Sat 12/6/14	
1604	Prepare Draft Site 30 Five Year Review	30 edays	Tue 5/6/14	Thu 6/5/14	1602
1605	Navy Review Draft Site 30 Five Year Review	14 edays	Thu 6/5/14	Thu 6/19/14	1604
1606	Incorporate Navy Technical Review Comments Internal Draft Site 30 Five Year Review	14 edays	Thu 6/19/14	Thu 7/3/14	1605

All start and finish dates on Saturday or Sunday default to the following business day.

**NAVAL STATION TREASURE ISLAND ENVIRONMENTAL SCHEDULE
FINAL SITE MANAGEMENT PLAN
September 2012**

ID	Task Name	Duration	Start	Finish	Predecessors
1607	Navy Legal Review of Internal Draft Site 30 Five Year Review	30 edays	Thu 7/3/14	Sat 8/2/14	1606
1608	Site 30 Five Year Review BCT Presentation	0 days	Tue 8/5/14	Tue 8/5/14	1607FS+3 edays
1609	Prepare Draft Site 30 Five Year Review	14 edays	Sat 8/2/14	Sat 8/16/14	1607
1610	Agency Review Draft Site 30 Five Year Review	30 edays	Sat 8/16/14	Mon 9/15/14	1609
1611	Prepare Responses to Agency Comments and Final Site 30 Five Year Review	28 edays	Mon 9/15/14	Mon 10/13/14	1610
1612	BCT Meeting Presentation Final Site 30 Five Year Review	0 edays	Mon 10/13/14	Mon 10/13/14	1611
1613	Internal Final Site 30 Five Year Review	30 edays	Mon 10/13/14	Wed 11/12/14	1611
1614	Navy Review of Internal Final Site 30 Five Year Review	10 edays	Wed 11/12/14	Sat 11/22/14	1613
1615	Finalize Site 30 Five Year Review	14 edays	Sat 11/22/14	Sat 12/6/14	1614
1616	SITE 30 RADIOLOGICAL SCOPING SURVEY (Includes Lot 69 and Building 342)	738 days	Mon 3/4/13	Thu 3/12/15	
1617	Navy to award contract for Site 30 (and other areas) Radiological Scoping Survey	91 edays	Mon 3/4/13	Mon 6/3/13	
1618	Radiological Scoping Survey Work Plan for Site 30 (and other areas)	271 days	Mon 6/3/13	Sat 3/1/14	
1619	Prepare Internal Draft Radiological Scoping Survey Work Plan	30 edays	Mon 6/3/13	Wed 7/3/13	1617
1620	Navy BRAC Review Internal Draft Radiological Scoping Survey Work Plan	14 edays	Wed 7/3/13	Wed 7/17/13	1619
1621	Revise Internal Draft Radiological Scoping Survey Work Plan	7 edays	Wed 7/17/13	Wed 7/24/13	1620
1622	Navy RASO Review Internal Draft Radiological Scoping Survey Work Plan	60 edays	Wed 7/24/13	Sun 9/22/13	1621
1623	Prepare Draft Radiological Scoping Survey Work Plan	14 edays	Sun 9/22/13	Sun 10/6/13	1622
1624	Agency Review Draft Radiological Scoping Survey Work Plan	30 edays	Sun 10/6/13	Tue 11/5/13	1623
1625	Responses to Agency Comments on Draft Radiological Scoping Survey Work Plan	28 edays	Tue 11/5/13	Tue 12/3/13	1624
1626	Prepare Internal Final Radiological Scoping Survey Work Plan	30 edays	Tue 12/3/13	Thu 1/2/14	1625
1627	Navy Review Internal Final Radiological Scoping Survey Work Plan	14 edays	Thu 1/2/14	Thu 1/16/14	1626
1628	Prepare Final Radiological Scoping Survey Work Plan	14 edays	Thu 1/16/14	Thu 1/30/14	1627
1629	Concurrence on Final Radiological Scoping Survey Work Plan	30 edays	Thu 1/30/14	Sat 3/1/14	1628
1630	Radiological Scoping Survey for Site 30 (and other areas)	120 edays	Sat 3/1/14	Sun 6/29/14	1629
1631	Radiological Scoping Survey Report / Final Status Survey (FSS) Report for Site 30 (and other areas)	256 days	Sun 6/29/14	Thu 3/12/15	
1632	Prepare Internal Draft Radiological Scoping Survey Report/FSS Report	30 edays	Sun 6/29/14	Tue 7/29/14	1630
1633	Navy BRAC Review Internal Draft Radiological Scoping Survey Report/FSS Report	14 edays	Tue 7/29/14	Tue 8/12/14	1632
1634	Revise Internal Draft Radiological Scoping Survey Report/FSS Report	7 edays	Tue 8/12/14	Tue 8/19/14	1633
1635	Navy RASO Review Internal Draft Radiological Scoping Survey Report/FSS Report	60 edays	Tue 8/19/14	Sat 10/18/14	1634
1636	Prepare Draft Radiological Scoping Survey Report/FSS Report	14 edays	Sat 10/18/14	Sat 11/1/14	1635
1637	Agency Review Draft Radiological Scoping Survey Report/FSS Report	30 edays	Sat 11/1/14	Mon 12/1/14	1636
1638	Prepare Preliminary Responses to Agency Comments on Draft Radiological Scoping Survey Report/FSS Report	28 edays	Mon 12/1/14	Mon 12/29/14	1637
1639	Prepare Internal Final Radiological Scoping Survey Report/FSS Report	15 edays	Mon 12/29/14	Tue 1/13/15	1638
1640	Navy Review Internal Final Radiological Scoping Survey Report/FSS Report	14 edays	Tue 1/13/15	Tue 1/27/15	1639

All start and finish dates on Saturday or Sunday default to the following business day.

**NAVAL STATION TREASURE ISLAND ENVIRONMENTAL SCHEDULE
FINAL SITE MANAGEMENT PLAN
September 2012**

ID	Task Name	Duration	Start	Finish	Predecessors
1641	Prepare Final Radiological Scoping Survey Report/FSS Report	14 edays	Tue 1/27/15	Tue 2/10/15	1640
1642	Concurrence on Final Radiological Scoping Survey Report/FSS Report	30 edays	Tue 2/10/15	Thu 3/12/15	1641
1643	SITE CLOSEOUT FOR SITE 30	30 edays	Thu 3/12/15	Sat 4/11/15	1642

**NAVAL STATION TREASURE ISLAND ENVIRONMENTAL SCHEDULE
FINAL SITE MANAGEMENT PLAN
September 2012**

ID	Task Name	Duration	Start	Finish	Predecessors
1644	SITE 31	3464 days	Wed 6/11/03	Fri 6/7/13	
1645	✓ ADDITIONAL INVESTIGATION FOR SITE 31	67 days	Wed 6/11/03	Fri 9/12/03	
1657	✓ GROUNDWATER MONITORING FOR SITES 30/31	155 days	Thu 1/1/04	Thu 8/5/04	
1670	✓ REMEDIAL INVESTIGATION FOR SITE 31	665 days	Thu 7/8/04	Fri 7/14/06	
1693	✓ FEASIBILITY STUDY FOR SITE 31	600 days	Wed 7/20/05	Tue 3/13/07	
1707	✓ PP FOR SITE 31	804 days	Sun 8/6/06	Sat 10/18/08	
1726	✓ ROD/RAP FOR SITE 31	629 days	Wed 1/23/08	Tue 10/13/09	
1739	✓ REMEDIAL ACTION WORK PLAN AND REMEDIAL ACTION FOR SITE 31	575 days	Wed 7/2/08	Thu 1/28/10	
1752	REMEDIAL ACTION FOR SITE 31	1223 days	Mon 2/1/10	Fri 6/7/13	
1753	REMEDICATION FIELD WORK SITE 31	1138 days	Mon 2/1/10	Thu 3/14/13	
1754	✓ Site 31 Field Work (Phase 1)	162 edays	Mon 2/1/10	Tue 7/13/10	1751FS+4 edays
1755	✓ Explanation of Significant Differences (ESD) for Site 31 ROD/RAP to include Site 33	353 days	Sat 6/5/10	Tue 5/24/11	
1766	✓ Site 31 Phase 2 Remedial Action Field Work Plan (Including Site 33)	577 days	Sat 7/3/10	Mon 1/30/12	
1777	Site 31 Field Work (Phase 2)	336 edays	Mon 1/30/12	Mon 12/31/12	1776
1778	 Remedial Action Completion Report (RACR) for Site 31	198 days	Wed 8/29/12	Thu 3/14/13	
1779	 Internal Draft RACR for Site 31	49 edays	Wed 8/29/12	Wed 10/17/12	
1780	Navy Review of Internal Draft RACR for Site 31	27 edays	Thu 10/18/12	Wed 11/14/12	1779FS+1 eday
1781	Draft RACR for Site 31	13 edays	Thu 11/15/12	Wed 11/28/12	1780FS+1 eday
1782	Agency Review of Site 31 Draft RACR	28 edays	Wed 11/28/12	Wed 12/26/12	1781
1783	Internal Final RACR for Site 31	34 edays	Thu 12/27/12	Wed 1/30/13	1782FS+2 days
1784	Navy Review of Internal Final RACR for Site 31	6 edays	Thu 1/31/13	Wed 2/6/13	1783FS+1 eday
1785	Final RACR for Site 31	6 edays	Thu 2/7/13	Wed 2/13/13	1784FS+1 eday
1786	Agency Concurrence Letter	28 edays	Thu 2/14/13	Thu 3/14/13	1785FS+1 eday
1787	 SITE 31 FINAL STATUS SURVEY (FSS)	6 edays	Wed 11/28/12	Tue 12/4/12	1777FS-33 edays
1788	SITE 31 FINAL STATUS SURVEY (FSS) REPORT	175 days	Fri 12/14/12	Fri 6/7/13	
1789	Prepare Internal Draft Site 31 FSS Report	27 edays	Fri 12/14/12	Thu 1/10/13	1787FS+10 edays
1790	Navy BRAC/RASO Review Internal Draft Site 31 FSS Report	27 edays	Fri 1/11/13	Thu 2/7/13	1789FS+1 eday
1791	Prepare Draft Site 31 FSS Report	13 edays	Fri 2/8/13	Thu 2/21/13	1790FS+1 eday
1792	Agency Review Draft Site 31 FSS Report	27 edays	Fri 2/22/13	Thu 3/21/13	1791FS+1 eday
1793	Prepare Preliminary Responses to Agency Comments on Draft Site 31 FSS Report	13 edays	Fri 3/22/13	Thu 4/4/13	1792FS+1 eday
1794	Prepare Internal Final Site 31 FSS Report	20 edays	Fri 4/5/13	Thu 4/25/13	1793FS+1 eday
1795	Navy/RASO Review Internal Final Site 31 FSS Report	6 edays	Fri 4/26/13	Thu 5/2/13	1794FS+1 eday
1796	Prepare Final Site 31 FSS Report	7 days	Sat 5/4/13	Fri 5/10/13	1795FS+1 eday

All start and finish dates on Saturday or Sunday default to the following business day.

**NAVAL STATION TREASURE ISLAND ENVIRONMENTAL SCHEDULE
FINAL SITE MANAGEMENT PLAN
September 2012**

ID	Task Name	Duration	Start	Finish	Predecessors
1797	Agency Concurrence Letter	27 edays	Sat 5/11/13	Fri 6/7/13	1796FS+1 eday
1798	SITE CLOSEOUT FOR SITE 31	0 edays	Thu 3/14/13	Thu 3/14/13	1786

**NAVAL STATION TREASURE ISLAND ENVIRONMENTAL SCHEDULE
FINAL SITE MANAGEMENT PLAN
September 2012**

ID	Task Name	Duration	Start	Finish	Predecessors
1799	SITE 32	3668 days	Wed 9/15/04	Sat 11/22/14	
1800	REMEDIAL INVESTIGATION FOR SITE 32	1454 days	Wed 9/15/04	Thu 10/30/08	
1822	PCB SOIL ABATEMENT T111 / SITE 32 REMOVAL ACTION (see PCB Program)	1070 days	Fri 8/8/08	Wed 7/13/11	2341SS
1823	POST-CONSTRUCTION HHRA REVIEW	141 edays	Tue 4/13/10	Wed 9/1/10	
1824	PP/DRAFT RAP FOR SITE 32	209 days	Mon 3/21/11	Mon 10/17/11	
1837	ROD/RAP FOR SITE 32	1161 days	Fri 8/19/11	Thu 10/23/14	
1838	Prepare Internal Draft ROD/RAP for Site 32	68 edays	Fri 8/19/11	Wed 10/26/11	1831SS
1839	Navy Technical Review of Internal Draft ROD/RAP for Site 32	14 edays	Wed 10/26/11	Wed 11/9/11	1838
1840	Incorporate Navy Technical Comments on Internal Draft ROD/RAP for Site 32	8 edays	Wed 11/9/11	Thu 11/17/11	1839
1841	Navy Legal Review of Internal Draft ROD/RAP for Site 32	20 edays	Thu 11/17/11	Wed 12/7/11	1840
1842	Navy to award contract for ROD/RAP for Site 32	60 edays	Sat 4/5/14	Wed 6/4/14	1876FS-60 edays
1843	Prepare Draft ROD/RAP for Site 32	60 edays	Wed 6/4/14	Sun 8/3/14	1842
1844	Agency Review of Draft ROD/RAP for Site 32	28 edays	Sun 8/3/14	Sun 8/31/14	1843
1845	Preliminary RTCs for Draft ROD/RAP for Site 32	19 edays	Sun 8/31/14	Fri 9/19/14	1844
1846	Meeting to Discuss Preliminary RTCs for Draft ROD/RAP for Site 32	0 edays	Fri 9/19/14	Fri 9/19/14	1845
1847	Prepare Internal Final ROD/RAP for Site 32	13 edays	Fri 9/19/14	Thu 10/2/14	1846
1848	Navy Review of Internal Final ROD/RAP for Site 32	7 edays	Thu 10/2/14	Thu 10/9/14	1847
1849	Prepare Final ROD/RAP for Site 32	7 edays	Thu 10/9/14	Thu 10/16/14	1848
1850	ROD/RAP Signature for Site 32	7 days	Fri 10/17/14	Thu 10/23/14	1849
1851	Public Notice of Signing ROD/RAP for Site 32	0 edays	Thu 10/23/14	Thu 10/23/14	1850
1852	RADIOLOGICAL SCOPING SURVEY (PANDEMONIUM SITE II)	748 days	Sat 6/30/12	Fri 7/18/14	
1853	Navy to award contract for Radiological Scoping Survey	90 edays	Sat 6/30/12	Fri 9/28/12	723FF
1854	Site 32 Radiological Scoping Survey Work Plan	299 days	Fri 9/28/12	Wed 7/24/13	
1855	Prepare Internal Draft Site 32 Radiological Scoping Survey Work Plan	90 edays	Fri 9/28/12	Thu 12/27/12	1853,724SS
1856	Navy BRAC Review Internal Draft Site 32 Radiological Scoping Survey Work Plan	14 edays	Thu 12/27/12	Thu 1/10/13	1855
1857	Revise Internal Draft Site 32 Radiological Scoping Survey Work Plan	7 edays	Thu 1/10/13	Thu 1/17/13	1856
1858	Navy RASO Review Internal Draft Site 32 Radiological Scoping Survey Work Plan	60 edays	Thu 1/17/13	Mon 3/18/13	1857
1859	Prepare Draft Site 32 Radiological Scoping Survey Work Plan	7 edays	Mon 3/18/13	Mon 3/25/13	1858
1860	Agency Review Draft Site 32 Radiological Scoping Survey Work Plan	30 edays	Mon 3/25/13	Wed 4/24/13	1859
1861	Responses to Agency Comments on Draft Site 32 Radiological Scoping Survey Work Plan	19 edays	Wed 4/24/13	Mon 5/13/13	1860
1862	Prepare Internal Final Site 32 Radiological Scoping Survey Work Plan	14 edays	Mon 5/13/13	Mon 5/27/13	1861
1863	Navy Review Internal Final Site 32 Radiological Scoping Survey Work Plan	14 edays	Mon 5/27/13	Mon 6/10/13	1862
1864	Prepare Final Site 32 Radiological Scoping Survey Work Plan	14 edays	Mon 6/10/13	Mon 6/24/13	1863

All start and finish dates on Saturday or Sunday default to the following business day.

**NAVAL STATION TREASURE ISLAND ENVIRONMENTAL SCHEDULE
FINAL SITE MANAGEMENT PLAN
September 2012**

ID	Task Name	Duration	Start	Finish	Predecessors
1865	Concurrence on Final Site 32 Radiological Scoping Survey Work Plan	30 edays	Mon 6/24/13	Wed 7/24/13	1864
1866	Site 32 Radiological Scoping Survey	60 edays	Wed 7/24/13	Sun 9/22/13	1865
1867	Site 32 Radiological Scoping Survey Report / Final Status Survey (FSS) Report	299 days	Sun 9/22/13	Fri 7/18/14	
1868	Prepare Internal Draft Site 32 Radiological Scoping Survey Report/FSS	90 edays	Sun 9/22/13	Sat 12/21/13	1866
1869	Navy BRAC Review Internal Draft Site 32 Radiological Scoping Survey Report/FSS	14 edays	Sat 12/21/13	Sat 1/4/14	1868
1870	Revise Internal Draft Site 32 Radiological Scoping Survey Report/FSS	7 edays	Sat 1/4/14	Sat 1/11/14	1869
1871	Navy RASO Review Internal Draft Site 32 Radiological Scoping Survey Report/FSS	60 edays	Sat 1/11/14	Wed 3/12/14	1870
1872	Prepare Draft Site 32 Radiological Scoping Survey Report/FSS	7 edays	Wed 3/12/14	Wed 3/19/14	1871
1873	Agency Review Draft Site 32 Radiological Scoping Survey Report/FSS	30 edays	Wed 3/19/14	Fri 4/18/14	1872
1874	Prepare Preliminary Responses to Agency Comments on Draft Site 32 Radiological Scoping Survey Report/FSS	19 edays	Fri 4/18/14	Wed 5/7/14	1873
1875	Prepare Internal Final Site 32 Radiological Scoping Survey Report/FSS	14 edays	Wed 5/7/14	Wed 5/21/14	1874
1876	Navy Review Internal Final Site 32 Radiological Scoping Survey Report/FSS	14 edays	Wed 5/21/14	Wed 6/4/14	1875
1877	Prepare Final Site 32 Radiological Scoping Survey Report/FSS	14 edays	Wed 6/4/14	Wed 6/18/14	1876
1878	Concurrence on Final Site 32 Radiological Scoping Survey Report/FSS	30 edays	Wed 6/18/14	Fri 7/18/14	1877
1879	SITE CLOSEOUT FOR SITE 32	30 edays	Thu 10/23/14	Sat 11/22/14	1851

**NAVAL STATION TREASURE ISLAND ENVIRONMENTAL SCHEDULE
FINAL SITE MANAGEMENT PLAN
September 2012**

ID	Task Name	Duration	Start	Finish	Predecessors
1880	SITE 33	3159 days	Tue 12/2/03	Fri 12/7/12	
1881	✓ REMEDIAL INVESTIGATION FOR SITE 33	2207 days	Tue 12/2/03	Fri 4/30/10	
1912	✓ EXPLANATION OF SIGNIFICANT DIFFERENCES (ESD) FOR SITE 31 ROD/RAP TO INCLUDE SITE 33	353 edays	Sat 6/5/10	Tue 5/24/11	1756SS
1913	REMEDICATION FIELD WORK SITE 33	889 days	Sat 7/3/10	Fri 12/7/12	
1914	✓ Site 33 Phase 2 Remedial Action Field Work Plan (Including Site 31)	577 days	Sat 7/3/10	Mon 1/30/12	
1925	📅 Site 33 Field Work	200 edays	Mon 4/16/12	Fri 11/2/12	1924
1926	Remedial Action Completion Report (RACR) for Site 33	176 days	Thu 6/14/12	Fri 12/7/12	
1927	✓ Internal Draft RACR for Site 33	47 edays	Thu 6/14/12	Tue 7/31/12	1925FS-87 edays
1928	✓ Navy Review of Internal Draft RACR for Site 33	15 edays	Tue 7/31/12	Wed 8/15/12	1927
1929	✓ Draft RACR for Site 33	25 edays	Thu 8/16/12	Mon 9/10/12	1928FS+1 eday
1930	Agency Review of Site 33 Draft RACR	28 edays	Mon 9/10/12	Mon 10/8/12	1929
1931	Internal Final RACR for Site 33	18 edays	Mon 10/8/12	Fri 10/26/12	1930
1932	Navy Review of Internal Final RACR for Site 33	7 edays	Fri 10/26/12	Fri 11/2/12	1931
1933	📅 Final RACR for Site 33	7 edays	Fri 11/2/12	Fri 11/9/12	1932
1934	Agency Concurrence Letter	27 edays	Sat 11/10/12	Fri 12/7/12	1933FS+1 eday
1935	SITE CLOSEOUT FOR SITE 33	0 edays	Fri 12/7/12	Fri 12/7/12	1934

**NAVAL STATION TREASURE ISLAND ENVIRONMENTAL SCHEDULE
FINAL SITE MANAGEMENT PLAN
September 2012**

ID		Task Name	Duration	Start	Finish	Predecessors
1936		PETROLEUM PROGRAM	4543 days	Wed 6/26/02	Sun 8/2/15	
1937		SITE 4/19 - Closed	248 days	Wed 2/5/03	Wed 12/17/03	
1947		SITES 14/22 - Closed	876 days	Wed 6/26/02	Mon 7/18/05	
1964		SITE 15 - Closed	454 days	Tue 2/4/03	Tue 9/28/04	
1982		SITE 16 - Closed	228 days	Sat 8/2/03	Thu 6/17/04	
1991		SITE 20 - Closed	285 days	Tue 5/13/03	Thu 6/17/04	
2001		SITE 25 - Closed	2886 days	Wed 5/28/03	Fri 10/28/11	
2040		SITE 227 - Closed	173 days	Sat 1/24/04	Tue 9/21/04	
2051		UST SITE 180C - Closed	492 days	Sun 2/15/04	Tue 10/11/05	
2059		F2A/F2B - Closed	646 days	Thu 5/1/03	Mon 8/22/05	
2076		SITE YF2 - Closed	73 days	Tue 3/9/04	Thu 6/17/04	
2083		D1B (3rd Street) Closed	911 days	Thu 5/1/03	Sun 5/14/06	

**NAVAL STATION TREASURE ISLAND ENVIRONMENTAL SCHEDULE
FINAL SITE MANAGEMENT PLAN
September 2012**

ID	Task Name	Duration	Start	Finish	Predecessors
2096	SITE 6	3577 days	Tue 4/8/03	Wed 8/7/13	
2097	POST-CONSTRUCTION REPORT FOR SITE 6	261 days	Tue 4/8/03	Thu 4/1/04	
2104	Groundwater Monitoring for Site 6	339 edays	Wed 5/28/03	Sat 5/1/04	
2105	Additional Investigation: Soil Vapor Sampling	45 edays	Mon 7/12/04	Thu 8/26/04	
2106	CLOSURE SUMMARY REPORT FOR SITE 6	255 days	Sat 3/26/05	Tue 12/6/05	
2113	Receipt of Water Board Letter of Non-Concurrence with NFA at Site 6	0 edays	Mon 5/15/06	Mon 5/15/06	
2114	Site 6 Groundwater Monitoring	210 edays	Thu 6/1/06	Thu 12/28/06	
2115	Prepare Revised Site 6 Boundary Paper	215 edays	Fri 6/23/06	Wed 1/24/07	
2116	Agency Review Revised Site 6 Boundary Paper	86 days	Wed 1/24/07	Thu 4/19/07	2115
2117	Evaluate Site 6 Path Forward	60 edays	Thu 4/19/07	Mon 6/18/07	2116
2118	ADDITIONAL INVESTIGATION USTs 240	816 days	Wed 3/16/11	Sat 6/8/13	
2119	Navy to Award Contract for Additional Investigation of USTs 240	90 edays	Wed 3/16/11	Tue 6/14/11	
2120	Additional Investigation of USTs 240 Corrective Action Plan (CAP) Work Plan	423 days	Tue 7/19/11	Thu 9/13/12	
2121	Internal Draft Additional Investigation of USTs 240 CAP Work Plan	94 edays	Tue 7/19/11	Fri 10/21/11	2119FS+35 edays
2122	Navy Review Internal Draft Additional Investigation of USTs 240 CAP Work Plan	40 edays	Fri 10/21/11	Wed 11/30/11	2121
2123	Draft Additional Investigation of USTs 240 CAP Work Plan	72 days	Wed 11/30/11	Thu 2/9/12	2122
2124	Agency Review Draft Additional Investigation of USTs 240 CAP Work Plan	65 edays	Thu 2/9/12	Sat 4/14/12	2123
2125	Prepare Internal Final Additional Investigation of USTs 240 CAP Work Plan	144 edays	Sat 4/14/12	Wed 9/5/12	2124
2126	Navy Review Internal Final Additional Investigation of USTs 240 CAP Work Plan	3 edays	Wed 9/5/12	Sat 9/8/12	2125
2127	Prepare Final Additional Investigation of USTs 240 CAP Work Plan	5 edays	Sat 9/8/12	Thu 9/13/12	2126
2128	Additional Investigation of USTs 240 Work Plan / Field Work	60 edays	Mon 10/8/12	Fri 12/7/12	2127FS+25 edays
2129	Additional Investigation of USTs 240 Post-Construction Summary Report (PCSR)	184 days	Tue 11/6/12	Thu 5/9/13	
2130	Internal Draft Additional Investigation of USTs 240 PCSR	72 edays	Tue 11/6/12	Thu 1/17/13	2128FS-31 edays
2131	Navy Review Internal Draft Additional Investigation of USTs 240 PCSR	14 edays	Thu 1/17/13	Thu 1/31/13	2130
2132	Prepare Draft Additional Investigation of USTs 240 PCSR	7 edays	Thu 1/31/13	Thu 2/7/13	2131
2133	Agency Review Draft Additional Investigation of USTs 240 PCSR	30 edays	Thu 2/7/13	Sat 3/9/13	2132
2134	Prepare Internal Final Additional Investigation of USTs 240 PCSR	33 edays	Sat 3/9/13	Thu 4/11/13	2133
2135	Navy Review Internal Final Additional Investigation of USTs 240 PCSR	14 edays	Thu 4/11/13	Thu 4/25/13	2134
2136	Prepare Final Additional Investigation of USTs 240 PCSR	14 edays	Thu 4/25/13	Thu 5/9/13	2135
2137	Receive Water Board Concurrence Letter for Closure of USTs at Site 06	30 edays	Thu 5/9/13	Sat 6/8/13	2136
2138	UST 248 CLOSURE	90 days	Thu 5/9/13	Wed 8/7/13	
2139	UST 248 Request for Closure	60 edays	Thu 5/9/13	Mon 7/8/13	148,2136
2140	UST 248 Closure Receive Water Board Concurrence Letter	30 edays	Mon 7/8/13	Wed 8/7/13	2139

All start and finish dates on Saturday or Sunday default to the following business day.

**NAVAL STATION TREASURE ISLAND ENVIRONMENTAL SCHEDULE
FINAL SITE MANAGEMENT PLAN
September 2012**

ID	Task Name	Duration	Start	Finish	Predecessors
2141	USCG	853 days	Mon 4/1/13	Sun 8/2/15	
2142	Navy to Award Contract for Additional Investigation and Reporting at USCG	60 edays	Mon 4/1/13	Fri 5/31/13	
2143	USCG Additional Investigation Work Plan	172 days	Fri 5/31/13	Tue 11/19/13	
2144	Prepare Internal Draft USCG Additional Investigation Work Plan	60 edays	Fri 5/31/13	Tue 7/30/13	2142
2145	Navy Review Internal Draft USCG Additional Investigation Work Plan	14 edays	Tue 7/30/13	Tue 8/13/13	2144
2146	Prepare Draft USCG Additional Investigation Work Plan	7 edays	Tue 8/13/13	Tue 8/20/13	2145
2147	Agency Review Draft USCG Additional Investigation Work Plan	30 edays	Tue 8/20/13	Thu 9/19/13	2146
2148	Prepare Response to Agency Comments and Internal Final USCG Additional Investigation Work Plan	33 edays	Thu 9/19/13	Tue 10/22/13	2147
2149	Navy Review Internal Final USCG Additional Investigation Work Plan	14 edays	Tue 10/22/13	Tue 11/5/13	2148
2150	Prepare Final USCG Additional Investigation Work Plan	14 edays	Tue 11/5/13	Tue 11/19/13	2149
2151	USCG Additional Investigation Field Work and Sample Analysis	60 edays	Tue 11/19/13	Sat 1/18/14	2150
2152	Prepare USCG Additional Investigation Report	142 days	Sat 1/18/14	Mon 6/9/14	
2153	Prepare Internal Draft USCG Additional Investigation Report	30 edays	Sat 1/18/14	Mon 2/17/14	2151
2154	Navy Review Internal Draft USCG Additional Investigation Report	14 edays	Mon 2/17/14	Mon 3/3/14	2153
2155	Prepare Draft USCG Additional Investigation Report	7 edays	Mon 3/3/14	Mon 3/10/14	2154
2156	Agency Review Draft USCG Additional Investigation Report	30 edays	Mon 3/10/14	Wed 4/9/14	2155
2157	Prepare Response to Agency Comments and Internal Final USCG Additional Investigation Report	33 edays	Wed 4/9/14	Mon 5/12/14	2156
2158	Navy Review Internal Final USCG Additional Investigation Report	14 edays	Mon 5/12/14	Mon 5/26/14	2157
2159	Prepare Final USCG Additional Investigation Report	14 edays	Mon 5/26/14	Mon 6/9/14	2158
2160	USCG CAP Addendum	142 days	Mon 6/9/14	Wed 10/29/14	
2161	Prepare Internal Draft USCG CAP Addendum	30 edays	Mon 6/9/14	Wed 7/9/14	2159
2162	Navy Review Internal Draft USCG CAP Addendum	14 edays	Wed 7/9/14	Wed 7/23/14	2161
2163	Prepare Draft USCG CAP Addendum	7 edays	Wed 7/23/14	Wed 7/30/14	2162
2164	Agency Review Draft USCG CAP Addendum	30 edays	Wed 7/30/14	Fri 8/29/14	2163
2165	Prepare Response to Agency Comments and Internal Final USCG CAP Addendum	33 edays	Fri 8/29/14	Wed 10/1/14	2164
2166	Navy Review Internal Final USCG CAP Addendum	14 edays	Wed 10/1/14	Wed 10/15/14	2165
2167	Prepare Final USCG CAP Addendum	14 edays	Wed 10/15/14	Wed 10/29/14	2166
2168	USCG CAP Addendum Implementation	120 edays	Wed 10/29/14	Thu 2/26/15	2167
2169	USCG Post-Construction Summary Report	142 days	Thu 2/26/15	Sat 7/18/15	
2170	Internal Draft USCG Post-Construction Summary Report	30 edays	Thu 2/26/15	Sat 3/28/15	2168
2171	Navy Review of Internal Draft USCG Post-Construction Summary Report	14 edays	Sat 3/28/15	Sat 4/11/15	2170
2172	Draft USCG Post-Construction Summary Report	7 edays	Sat 4/11/15	Sat 4/18/15	2171
2173	Agency Review of Draft USCG Post-Construction Summary Report	30 edays	Sat 4/18/15	Mon 5/18/15	2172
2174	Prepare Response to Agency Comments and Internal Final USCG Post-Construction Summary Report	33 edays	Mon 5/18/15	Sat 6/20/15	2173

All start and finish dates on Saturday or Sunday default to the following business day.

**NAVAL STATION TREASURE ISLAND ENVIRONMENTAL SCHEDULE
FINAL SITE MANAGEMENT PLAN
September 2012**

ID	Task Name	Duration	Start	Finish	Predecessors
2175	Navy Review Internal Final USCG Post-Construction Summary Report	14 edays	Sat 6/20/15	Sat 7/4/15	2174
2176	Final USCG Post-Construction Summary Report	14 edays	Sat 7/4/15	Sat 7/18/15	2175
2177	Site USCG Closure Received Water Board Concurrence Letter	15 edays	Sat 7/18/15	Sun 8/2/15	2176
2178	YF3	1539 days	Tue 4/5/11	Mon 6/22/15	
2179	YF3 ADDITIONAL INVESTIGATION	543 days	Tue 4/5/11	Fri 9/28/12	
2180	✓ Navy to Award Contract for Additional Investigation and Reporting	55 edays	Tue 4/5/11	Mon 5/30/11	
2181	✓ YF3 Additional Investigation Work Plan	284 days	Mon 5/30/11	Thu 3/8/12	
2190	✓ YF3 Additional Investigation Field Work and Sample Analysis	60 edays	Thu 3/1/12	Mon 4/30/12	2181FS-7 edays
2191	📅 Prepare YF3 Additional Investigation Summary Report	151 days	Mon 4/30/12	Fri 9/28/12	
2192	✓ Prepare Internal Draft YF3 Additional Investigation Summary Report	39 edays	Mon 4/30/12	Fri 6/8/12	2190
2193	✓ Navy Review Internal Draft YF3 Additional Investigation Summary Report	24 edays	Fri 6/8/12	Mon 7/2/12	2192
2194	✓ Prepare Draft YF3 Additional Investigation Summary Report	28 edays	Mon 7/2/12	Mon 7/30/12	2193
2195	✓ Agency Review Draft YF3 Additional Investigation Summary Report	30 edays	Mon 7/30/12	Wed 8/29/12	2194
2196	Prepare Response to Agency Comments and Internal Final YF3 Additional Investigation Summary Report	21 edays	Wed 8/29/12	Wed 9/19/12	2195
2197	Navy Review Internal Final YF3 Additional Investigation Summary Report	5 edays	Wed 9/19/12	Mon 9/24/12	2196
2198	Prepare Final YF3 Additional Investigation Summary Report	4 edays	Mon 9/24/12	Fri 9/28/12	2197
2199	Screening-Level Ecological Risk Assessment (SLERA) for YF3	232 days	Mon 4/1/13	Mon 11/18/13	
2200	📅 Navy to award contract for SLERA at YF3	60 days	Mon 4/1/13	Thu 5/30/13	
2201	📅 Internal Draft YF3 SLERA	60 edays	Thu 5/30/13	Mon 7/29/13	2200
2202	Navy Review of Internal Draft YF3 SLERA	14 edays	Mon 7/29/13	Mon 8/12/13	2201
2203	Draft YF3 SLERA	7 edays	Mon 8/12/13	Mon 8/19/13	2202
2204	Agency Review of Draft YF3 SLERA	30 edays	Mon 8/19/13	Wed 9/18/13	2203
2205	Prepare Response to Agency Comments and Internal Final YF3 SLERA	33 edays	Wed 9/18/13	Mon 10/21/13	2204
2206	Navy Review Internal Final YF3 SLERA	14 edays	Mon 10/21/13	Mon 11/4/13	2205
2207	Final YF3 SLERA	14 edays	Mon 11/4/13	Mon 11/18/13	2206
2208	YF3 CAP Addendum	202 days	Mon 12/30/13	Sun 7/20/14	
2209	📅 Navy to award funding for YF3 CAP Addendum	60 edays	Mon 12/30/13	Fri 2/28/14	
2210	Prepare Internal Draft YF3 CAP Addendum	30 edays	Fri 2/28/14	Sun 3/30/14	2209
2211	Navy Review Internal Draft YF3 CAP Addendum	14 edays	Sun 3/30/14	Sun 4/13/14	2210
2212	Prepare Draft YF3 CAP Addendum	7 edays	Sun 4/13/14	Sun 4/20/14	2211
2213	Agency Review Draft YF3 CAP Addendum	30 edays	Sun 4/20/14	Tue 5/20/14	2212
2214	Prepare Response to Agency Comments and Internal Final YF3 CAP Addendum	33 edays	Tue 5/20/14	Sun 6/22/14	2213
2215	Navy Review Internal Final YF3 CAP Addendum	14 edays	Sun 6/22/14	Sun 7/6/14	2214
2216	Prepare Final YF3 CAP Addendum	14 edays	Sun 7/6/14	Sun 7/20/14	2215

All start and finish dates on Saturday or Sunday default to the following business day.

**NAVAL STATION TREASURE ISLAND ENVIRONMENTAL SCHEDULE
FINAL SITE MANAGEMENT PLAN
September 2012**

ID	Task Name	Duration	Start	Finish	Predecessors
2217	YF3 CAP Addendum Implementation	180 days	Sun 7/20/14	Fri 1/16/15	
2218	Navy to award funding for YF3 CAP implementation	60 edays	Sun 7/20/14	Thu 9/18/14	2216
2219	CAP Addendum Implementation	120 edays	Thu 9/18/14	Fri 1/16/15	2218
2220	YF3 Post-Construction Summary Report	142 days	Fri 1/16/15	Sun 6/7/15	
2221	Internal Draft YF3 Post-Construction Summary Report	30 edays	Fri 1/16/15	Sun 2/15/15	2219
2222	Navy Review of Internal Draft YF3 Post-Construction Summary Report	14 edays	Sun 2/15/15	Sun 3/1/15	2221
2223	Draft YF3 Post-Construction Summary Report	7 edays	Sun 3/1/15	Sun 3/8/15	2222
2224	Agency Review of Draft YF3 Post-Construction Summary Report	30 edays	Sun 3/8/15	Tue 4/7/15	2223
2225	Prepare Response to Agency Comments and Internal Final YF3 Post-Construction Summary Report	33 edays	Tue 4/7/15	Sun 5/10/15	2224
2226	Navy Review Internal Final YF3 Post-Construction Summary Report	14 edays	Sun 5/10/15	Sun 5/24/15	2225
2227	Final YF3 Post-Construction Summary Report	14 edays	Sun 5/24/15	Sun 6/7/15	2226
2228	Site YF3 Closure Received Water Board Concurrence Letter	15 edays	Sun 6/7/15	Mon 6/22/15	2227

**NAVAL STATION TREASURE ISLAND ENVIRONMENTAL SCHEDULE
FINAL SITE MANAGEMENT PLAN
September 2012**

ID		Task Name	Duration	Start	Finish	Predecessors
2229		USTs	3901 days	Sun 5/25/03	Fri 8/8/14	
2230		Tanks 204A and 204B (YBI) Removal	86 days	Sun 5/25/03	Wed 9/24/03	
2239		USTs 237/238 & 204 A-D Post-Construction Summary Report	130 days	Sun 11/23/03	Mon 5/24/04	
2246		Site USTs 237, 204A-D Closure Received Water Board Concurrence Letter	2227 edays	Sun 1/11/04	Mon 2/15/10	2245
2247		USTs 140, 221, & 230 Post-Construction Summary Report	87 days	Sun 1/11/04	Tue 5/11/04	
2254		Site USTs 140, 221, & 230 Closure Received Water Board Concurrence Letter	37 edays	Tue 5/11/04	Thu 6/17/04	2253
2255		UST 238 (Additional investigation pending Caltrans project completion)	158 edays	Mon 3/3/14	Fri 8/8/14	

**NAVAL STATION TREASURE ISLAND ENVIRONMENTAL SCHEDULE
FINAL SITE MANAGEMENT PLAN
September 2012**

ID	Task Name	Duration	Start	Finish	Predecessors
2256	COMPLIANCE PROGRAM	5917 days	Mon 9/1/03	Thu 4/23/20	
2257	POLYCHLORINATED BIPHENYLS (PCBs)	2710 days	Mon 9/1/03	Wed 7/13/11	
2258	PCB EQUIPMENT	2710 days	Mon 9/1/03	Wed 7/13/11	
2259	Historical Records Review Results	1 day	Tue 9/2/03	Tue 9/2/03	
2260	Site Survey	31 days	Mon 9/1/03	Tue 10/14/03	
2266	PCB Sampling and Analysis Plan (FOST Area)	109 days	Fri 12/5/03	Thu 5/6/04	
2275	PCB Sampling (FOST Area)	79 days	Fri 4/30/04	Tue 8/17/04	
2284	PCB Summary Report (FOST and FOSET Areas)	1264 days	Mon 5/24/04	Fri 2/1/08	
2302	PCB Sampling and Analysis Plan (FOSET Area)	139 days	Thu 12/29/05	Tue 5/16/06	
2311	PCB Sampling (FOSET Area)	74 days	Tue 5/16/06	Sun 7/30/06	
2320	PCB Work Plan	352 days	Tue 12/19/06	Wed 12/5/07	
2329	PCB Field Work	153 days	Mon 12/17/07	Sun 5/18/08	
2332	PCB Field Activity Report (FAR)	247 days	Sat 7/5/08	Mon 3/9/09	
2340	PCB Soil Abatement T111/Site 32 Work Plan	313 days	Fri 8/8/08	Wed 6/17/09	
2349	PCB Soil Abatement T111/Site 32 Field Work	284 edays	Wed 6/17/09	Sun 3/28/10	2348
2350	T111/Site 32 Post Construction Summary Report (PCSR) for Soil Removal	442 days	Tue 4/27/10	Wed 7/13/11	

**NAVAL STATION TREASURE ISLAND ENVIRONMENTAL SCHEDULE
FINAL SITE MANAGEMENT PLAN
September 2012**

ID	Task Name	Duration	Start	Finish	Predecessors
2358	RESIDENTIAL LEAD-BASED PAINT (LBP)	5861 days	Tue 11/18/03	Thu 4/23/20	
2359	YBI Residential Lead-Based Paint Reevaluation (2004)	134 days	Wed 3/24/04	Mon 9/27/04	
2368	YBI Lead-Based Paint in Soil (2005)	420 days	Tue 11/18/03	Mon 5/30/05	
2389	YBI Residences Lead-Based Paint Reevaluation (2006)	365 days	Tue 11/1/05	Wed 11/1/06	
2399	TI Residences Lead-Based Paint Reevaluation (2008/2009)	959 days	Thu 7/24/08	Wed 3/9/11	
2407	YBI Residences Lead-Based Paint Reevaluation (within one year of transfer)	248 days	Mon 7/30/12	Thu 4/4/13	
2408	Navy to Award Contract for LBP Reevaluation	60 edays	Mon 7/30/12	Fri 9/28/12	2406FS+360 edays
2409	Fieldwork for LBP Reevaluation	30 edays	Fri 9/28/12	Sun 10/28/12	2408
2410	Lab Analysis and Data Evaluation of LBP Reevaluation Data	60 edays	Sun 10/28/12	Thu 12/27/12	2409
2411	Internal Draft LBP Reevaluation Summary Report	30 edays	Thu 12/27/12	Sat 1/26/13	2410
2412	Navy Review Internal Draft LBP Reevaluation Summary Report	14 edays	Sat 1/26/13	Sat 2/9/13	2411
2413	Internal Final LBP Reevaluation Summary Report	14 edays	Sat 2/9/13	Sat 2/23/13	2412
2414	Navy Review of Internal Final LBP Reevaluation Summary Report	7 edays	Sat 2/23/13	Sat 3/2/13	2413
2415	Final LBP Reevaluation Summary Report	33 edays	Sat 3/2/13	Thu 4/4/13	2414
2416	TI Residences Lead-Based Paint Reevaluation (within one year of transfer)	363 days	Fri 4/26/19	Thu 4/23/20	
2417	Navy to Award Contract for LBP Reevaluation	60 edays	Fri 4/26/19	Tue 6/25/19	
2418	Final LBP Reevaluation Work plan	100 edays	Tue 6/25/19	Thu 10/3/19	2417
2419	Fieldwork for LBP Reevaluation	30 edays	Thu 10/3/19	Sat 11/2/19	2418
2420	Lab Analysis and Data Evaluation of LBP Reevaluation Data	60 edays	Sat 11/2/19	Wed 1/1/20	2419
2421	Internal Draft LBP Reevaluation Summary Report	45 edays	Wed 1/1/20	Sat 2/15/20	2420
2422	Navy Review Internal Draft LBP Reevaluation Summary Report	14 edays	Sat 2/15/20	Sat 2/29/20	2421
2423	Internal Final LBP Reevaluation Summary Report	14 edays	Sat 2/29/20	Sat 3/14/20	2422
2424	Navy Review of Internal Final LBP Reevaluation Summary Report	7 edays	Sat 3/14/20	Sat 3/21/20	2423
2425	Final LBP Reevaluation Summary Report	33 edays	Sat 3/21/20	Thu 4/23/20	2424

All start and finish dates on Saturday or Sunday default to the following business day.

**NAVAL STATION TREASURE ISLAND ENVIRONMENTAL SCHEDULE
FINAL SITE MANAGEMENT PLAN
September 2012**

ID	Task Name	Duration	Start	Finish	Predecessors
2426	RADIOLOGICAL PROGRAM	3885 days	Sat 4/17/04	Thu 3/12/15	
2427	BUILDING 233 AND VICINITY	3142 days	Sat 4/17/04	Tue 2/26/13	
2428	✓ Building 233 Asbestos Abatement and RAD Removal	924 days	Sat 4/17/04	Wed 1/31/07	
2451	✓ Final Status Survey of Building 233	1080 days	Sun 7/18/04	Mon 9/10/07	
2468	✓ Building 233 Demolition Work Plan	192 days	Tue 1/12/10	Fri 7/23/10	
2472	✓ Building 233 Pre-Demolition Survey	104 edays	Fri 7/23/10	Thu 11/4/10	2471
2473	✓ Building 233 Demolition	31 edays	Mon 12/6/10	Thu 1/6/11	2472FS+14 edays
2474	✓ Building 233 Footprint Characterization, Remediation, and Final Status Survey Work Plan	574 days	Tue 6/29/10	Mon 1/23/12	
2485	Building 233 Footprint Characterization, Remediation, and Final Status Survey Field Work	281 edays	Mon 2/6/12	Tue 11/13/12	2484FS+14 edays
2486	Building 233 Characterization, Remediation, and Final Status Survey Report	127 days	Mon 10/22/12	Tue 2/26/13	
2487	Prepare Internal Draft Building 233 Final Status Survey Report	29 edays	Mon 10/22/12	Tue 11/20/12	2485FS-22 edays
2488	Navy BRAC/RASO Review Internal Draft Building 233 Final Status Survey Report	14 edays	Tue 11/20/12	Tue 12/4/12	2487
2489	Prepare Draft Building 233 Final Status Survey Report	14 edays	Tue 12/4/12	Tue 12/18/12	2488
2490	Agency Review Draft Building 233 Final Status Survey Report	21 edays	Wed 12/19/12	Wed 1/9/13	2489FS+1 eday
2491	Prepare Preliminary Responses to Agency Comments on Draft Building 233 Final Status Survey Report	13 edays	Thu 1/10/13	Wed 1/23/13	2490FS+1 eday
2492	Prepare Internal Final Building 233 Final Status Survey Report	3 edays	Wed 1/23/13	Sat 1/26/13	2491
2493	Navy Review Internal Final Building 233 Final Status Survey Report	2 edays	Sat 1/26/13	Mon 1/28/13	2492
2494	Prepare Final Building 233 Final Status Survey Report	2 edays	Mon 1/28/13	Wed 1/30/13	2493
2495	CDPH Concurrence Letter for Free Release	25 edays	Fri 2/1/13	Tue 2/26/13	2494FS+2 edays
2496	Building 233 Site Completion	0 edays	Tue 2/26/13	Tue 2/26/13	2495
2497	✓ HISTORICAL RADIOLOGICAL ASSESSMENT (HRA)	514 days	Sat 7/3/04	Fri 2/10/06	
2510	✓ Further Radiological Investigation Areas (Site 12 SWDAs; Bldg 343, Bldg 344; and Sanitary Sewer and Drainage System at Bldg 233)	305 days	Mon 10/16/06	Fri 8/17/07	
2520	✓ Further Radiological Investigation Field Activities for Buildings 233, 343, 344	423 edays	Tue 9/4/07	Fri 10/31/08	
2521	✓ Summary Report of Further Radiological Investigation for Buildings 233, 343, 344	401 days	Thu 9/27/07	Fri 10/31/08	
2546	HRA Supplemental Technical Memorandum for TI	289 days	Sat 2/25/12	Mon 12/10/12	
2547	✓ Prepare Internal Draft TI HRA Tech Memo	95 edays	Sat 2/25/12	Wed 5/30/12	
2548	✓ Navy BRAC/RASO Review Internal Draft TI HRA Tech Memo	30 edays	Wed 5/30/12	Fri 6/29/12	2547
2549	✓ Prepare Draft TI HRA Tech Memo	38 edays	Fri 6/29/12	Mon 8/6/12	2548
2550	Agency Review Draft TI HRA Tech Memo	30 edays	Mon 8/20/12	Wed 9/19/12	2549
2551	Prepare Responses to Agency Comments on Draft TI HRA Tech Memo	28 edays	Wed 9/19/12	Wed 10/17/12	2550
2552	Prepare Internal Final TI HRA Tech Memo	30 edays	Wed 10/17/12	Fri 11/16/12	2551
2553	Navy Review Internal Final TI HRA Tech Memo	10 edays	Fri 11/16/12	Mon 11/26/12	2552
2554	Final TI HRA Tech Memo	14 edays	Mon 11/26/12	Mon 12/10/12	2553

All start and finish dates on Saturday or Sunday default to the following business day.

**NAVAL STATION TREASURE ISLAND ENVIRONMENTAL SCHEDULE
FINAL SITE MANAGEMENT PLAN
September 2012**

ID	Task Name	Duration	Start	Finish	Predecessors
2555	BUILDING 3	424 days	Sat 6/30/12	Wed 8/28/13	
2556	Building 3 Radiological Scoping Survey Work Plan	225 days	Sat 6/30/12	Sun 2/10/13	
2557	 Navy award contract for Building 3 radiological scoping survey	90 edays	Sat 6/30/12	Fri 9/28/12	
2558	Prepare Internal Draft Building 3 Radiological Scoping Survey Work Plan	33 edays	Fri 9/28/12	Wed 10/31/12	2557
2559	Navy BRAC/RASO Review Internal Draft Building 3 Radiological Scoping Survey Work Plan	30 edays	Wed 10/31/12	Fri 11/30/12	2558
2560	Prepare Draft Building 3 Radiological Scoping Survey Work Plan	20 edays	Sat 12/1/12	Fri 12/21/12	2559FS+1 eday
2561	Agency Review Draft Building 3 Radiological Scoping Survey Work Plan	30 edays	Fri 12/21/12	Sun 1/20/13	2560
2562	Responses to Agency Comments on Draft Building 3 Radiological Scoping Survey Work Plan	7 edays	Sun 1/20/13	Sun 1/27/13	2561
2563	Prepare Internal Final Building 3 Radiological Scoping Survey Work Plan	7 edays	Sun 1/27/13	Sun 2/3/13	2562
2564	Navy Review Internal Final Building 3 Radiological Scoping Survey Work Plan	3 edays	Sun 2/3/13	Wed 2/6/13	2563
2565	Prepare Final Building 3 Radiological Scoping Survey Work Plan	4 edays	Wed 2/6/13	Sun 2/10/13	2564
2566	Building 3 Radiological Scoping Survey	55 edays	Mon 2/11/13	Sun 4/7/13	2565FS+1 eday
2567	Building 3 Radiological Scoping Survey Report / Final Status Survey (FSS) Report	143 days	Sun 4/7/13	Wed 8/28/13	
2568	Prepare Internal Draft Building 3 Radiological Scoping Survey Report/FSS	30 edays	Sun 4/7/13	Tue 5/7/13	2566
2569	Navy BRAC/RASO Review Internal Draft Building 3 Radiological Scoping Survey Report/FSS	11 edays	Thu 5/9/13	Mon 5/20/13	2568FS+2 edays
2570	Prepare Draft Building 3 Radiological Scoping Survey Report/FSS	21 edays	Mon 5/20/13	Mon 6/10/13	2569
2571	Agency Review Draft Building 3 Radiological Scoping Survey Report/FSS	30 edays	Mon 6/10/13	Wed 7/10/13	2570
2572	Prepare Preliminary Responses to Agency Comments on Draft Building 3 Radiological Scoping Survey Report/FSS	4 edays	Thu 7/11/13	Mon 7/15/13	2571FS+1 eday
2573	Prepare Internal Final Building 3 Radiological Scoping Survey Report/FSS	5 edays	Mon 7/15/13	Sat 7/20/13	2572
2574	Navy Review Internal Final Building 3 Radiological Scoping Survey Report/FSS	5 edays	Sat 7/20/13	Thu 7/25/13	2573
2575	Prepare Final Building 3 Radiological Scoping Survey Report/FSS	4 edays	Thu 7/25/13	Mon 7/29/13	2574
2576	Concurrence on Final Building 3 Radiological Scoping Survey Report/FSS	30 edays	Mon 7/29/13	Wed 8/28/13	2575
2577	SITE 12 NON-SWDA AREAS, PANDEMONIUM SITES I&II, AND BUILDING 233 DRAIN LINES (See Site 12 for full schedule)	749 days	Sat 6/30/12	Fri 7/18/14	747FF
2578	SITE 30, LOT 69, AND BUILDING 342 (See Site 30 for full schedule)	738 days	Mon 3/4/13	Thu 3/12/15	1642FF

All start and finish dates on Saturday or Sunday default to the following business day.

**NAVAL STATION TREASURE ISLAND ENVIRONMENTAL SCHEDULE
FINAL SITE MANAGEMENT PLAN
September 2012**

ID	Task Name	Duration	Start	Finish	Predecessors
2579	ASBESTOS-CONTAINING MATERIAL PROGRAM	2352 days	Thu 7/24/08	Thu 1/1/15	
2580	Basewide Asbestos Survey and Abatement (2009)	959 days	Thu 7/24/08	Wed 3/9/11	
2588	Basewide Asbestos Survey and Abatement	363 days	Fri 1/3/14	Thu 1/1/15	
2589	Navy to Award Contract for Basewide Asbestos Survey and Abatement	60 edays	Fri 1/3/14	Tue 3/4/14	
2590	Final Basewide Asbestos Survey and Abatement Work plan	100 edays	Tue 3/4/14	Thu 6/12/14	2589
2591	Fieldwork for Basewide Asbestos Survey and Abatement	30 edays	Thu 6/12/14	Sat 7/12/14	2590
2592	Lab Analysis and Data Evaluation of Basewide Asbestos Survey and Abatement Data	60 edays	Sat 7/12/14	Wed 9/10/14	2591
2593	Internal Draft Basewide Asbestos Survey and Abatement Summary Report	45 edays	Wed 9/10/14	Sat 10/25/14	2592
2594	Navy review Internal Draft Basewide Asbestos Survey and Abatement Summary Report	14 edays	Sat 10/25/14	Sat 11/8/14	2593
2595	Internal Final Basewide Asbestos Survey and Abatement Summary Report	14 edays	Sat 11/8/14	Sat 11/22/14	2594
2596	Navy review of Internal Final Basewide Asbestos Survey and Abatement Summary Report	7 edays	Sat 11/22/14	Sat 11/29/14	2595
2597	Final Basewide Asbestos Survey and Abatement Summary Report	33 edays	Sat 11/29/14	Thu 1/1/15	2596

**NAVAL STATION TREASURE ISLAND ENVIRONMENTAL SCHEDULE
FINAL SITE MANAGEMENT PLAN
September 2012**

ID	Task Name	Duration	Start	Finish	Predecessors
2598	BASEWIDE TASKS	5504 days	Mon 9/1/03	Wed 3/6/19	
2599	GROUNDWATER MONITORING PROGRAM	2762 days	Thu 1/11/07	Sun 8/3/14	
2600	✓ 2006 Groundwater Status Report Site 12	377 days	Thu 1/11/07	Wed 1/23/08	
2608	✓ 2006 Groundwater Status Report Sites 6A and 25	438 days	Sun 2/11/07	Thu 4/24/08	
2616	✓ 2007 Groundwater Status Report Site 12	288 days	Mon 3/24/08	Tue 1/6/09	
2624	✓ 2007 Groundwater Status Report Sites 6 and 25	289 days	Mon 3/24/08	Wed 1/7/09	
2632	✓ 2008 Basewide Groundwater Monitoring Program Sampling and Analysis Plan (SAP)	212 days	Sat 6/14/08	Mon 1/12/09	
2641	✓ 2008 Groundwater Status Report Sites 6 and 12	348 days	Thu 3/19/09	Tue 3/2/10	
2649	✓ 2009 Annual Groundwater Status Report Sites 6 and 12	291 days	Mon 1/4/10	Thu 10/21/10	
2657	✓ 2010 Sites 6 and 12 Quarterly Groundwater Monitoring	586 days	Sat 1/23/10	Wed 8/31/11	
2671	2011 Sites 6 and 12 Groundwater Monitoring	742 days	Fri 10/1/10	Thu 10/11/12	
2672	✓ Navy to contract groundwater monitoring for Sites 6 and 12	60 edays	Fri 10/1/10	Tue 11/30/10	
2673	✓ 2011 Groundwater Monitoring for Sites 6 and 12	296 days	Thu 2/24/11	Fri 12/16/11	
2678	2011 Annual Groundwater Monitoring Report for Sites 6 and 12	260 days	Wed 1/25/12	Thu 10/11/12	
2679	✓ Prepare Internal Draft Annual Groundwater Monitoring Report for Sites 6 and 12	30 edays	Wed 1/25/12	Fri 2/24/12	2677
2680	✓ Navy Review Internal Draft Annual Groundwater Monitoring Report for Sites 6 and 12	30 edays	Fri 2/24/12	Sun 3/25/12	2679
2681	✓ Prepare Draft Annual Groundwater Monitoring Report for Sites 6 and 12	30 edays	Sun 3/25/12	Tue 4/24/12	2680
2682	✓ BCT Review Draft Annual Groundwater Monitoring Report for Sites 6 and 12	30 edays	Tue 4/24/12	Thu 5/24/12	2681
2683	Prepare Internal Final Annual Groundwater Monitoring Report for Sites 6 and 12	129 edays	Thu 5/24/12	Sun 9/30/12	2682
2684	Navy Review Internal Final Quarterly Groundwater Monitoring Work Plan for Sites 6 and 12	4 edays	Sun 9/30/12	Thu 10/4/12	2683
2685	Prepare Final Annual Groundwater Monitoring Report for Sites 6 and 12	7 edays	Thu 10/4/12	Thu 10/11/12	2684
2686	✓ 2011 Sites 21, 24, and 32 Quarterly Groundwater Monitoring	686 days	Tue 9/14/10	Mon 7/30/12	
2687	✓ Quarterly Groundwater Monitoring Work Plan for Sites 21, 24, and 32	171 days	Tue 9/14/10	Fri 3/4/11	
2695	✓ 2011 Quarterly Groundwater Monitoring for Sites 21, 24, and 32	327 days	Wed 3/9/11	Mon 1/30/12	
2700	✓ 2011 Annual Groundwater Monitoring Report for Sites 21, 24, and 32	153 days	Tue 2/28/12	Mon 7/30/12	
2708	2012 Sites 6 and 12 Groundwater Monitoring	503 days	Thu 2/23/12	Tue 7/9/13	
2709	2012 Groundwater Monitoring for Sites 6 and 12	313 days	Thu 2/23/12	Mon 12/31/12	
2710	✓ First Quarter Groundwater Monitoring Site 6	1 eday	Thu 2/23/12	Fri 2/24/12	
2711	✓ Second Quarter Groundwater Monitoring Site 6 / Semiannual Monitoring Site 12	2 edays	Mon 6/11/12	Wed 6/13/12	2710SS+110 days
2712	Third Quarter Groundwater Monitoring Site 6	1 eday	Tue 9/25/12	Wed 9/26/12	2711SS+106 days
2713	Fourth Quarter Groundwater Monitoring Site 6 / Semiannual Monitoring Site 12	7 edays	Mon 12/24/12	Mon 12/31/12	2712SS+90 days
2714	2012 Annual Groundwater Monitoring Report for Sites 6 and 12	160 days	Wed 1/30/13	Tue 7/9/13	
2715	Prepare Internal Draft Annual Groundwater Monitoring Report for Sites 6 and 12	60 edays	Wed 1/30/13	Sun 3/31/13	2713FS+30 edays

All start and finish dates on Saturday or Sunday default to the following business day.

**NAVAL STATION TREASURE ISLAND ENVIRONMENTAL SCHEDULE
FINAL SITE MANAGEMENT PLAN
September 2012**

ID	Task Name	Duration	Start	Finish	Predecessors
2716	Navy Review Internal Draft Annual Groundwater Monitoring Report for Sites 6 and 12	14 edays	Sun 3/31/13	Sun 4/14/13	2715
2717	Prepare Draft Annual Groundwater Monitoring Report for Sites 6 and 12	7 edays	Sun 4/14/13	Sun 4/21/13	2716
2718	BCT Review Draft Annual Groundwater Monitoring Report for Sites 6 and 12	30 edays	Sun 4/21/13	Tue 5/21/13	2717
2719	Prepare Internal Final Annual Groundwater Monitoring Report for Sites 6 and 12	21 edays	Tue 5/21/13	Tue 6/11/13	2718
2720	Navy Review Internal Final Quarterly Groundwater Monitoring Work Plan for Sites 6 and 12	14 edays	Tue 6/11/13	Tue 6/25/13	2719
2721	Prepare Final Annual Groundwater Monitoring Report for Sites 6 and 12	14 edays	Tue 6/25/13	Tue 7/9/13	2720
2722	2012 Sites 21 and 24 Quarterly Groundwater Monitoring	720 days	Sun 10/16/11	Sat 10/5/13	
2723	Quarterly Groundwater Monitoring Work Plan for Sites 21 and 24	236 days	Sun 10/16/11	Fri 6/8/12	
2731	2012 Quarterly Groundwater Monitoring for Sites 21 and 24	280 days	Fri 6/22/12	Fri 3/29/13	
2732	First Quarter Groundwater Monitoring Sites 21 and 24	11 edays	Fri 6/22/12	Tue 7/3/12	2730FS+14 edays
2733	Second Quarter Groundwater Monitoring Sites 21 and 24	11 edays	Mon 9/17/12	Fri 9/28/12	2732SS+87 days
2734	Third Quarter Groundwater Monitoring Sites 21 and 24	11 edays	Mon 12/17/12	Fri 12/28/12	2733SS+91 days
2735	Fourth Quarter Groundwater Monitoring Sites 21 and 24	11 edays	Mon 3/18/13	Fri 3/29/13	2734SS+91 days
2736	2012 Annual Groundwater Monitoring Report for Sites 21 and 24	160 days	Sun 4/28/13	Sat 10/5/13	
2737	Prepare Internal Draft Annual Groundwater Monitoring Report for Sites 21 and 24	60 edays	Sun 4/28/13	Thu 6/27/13	2735FS+30 edays
2738	Navy Review Internal Draft Annual Groundwater Monitoring Report for Sites 21 and 24	14 edays	Thu 6/27/13	Thu 7/11/13	2737
2739	Prepare Draft Annual Groundwater Monitoring Report for Sites 21 and 24	7 edays	Thu 7/11/13	Thu 7/18/13	2738
2740	BCT Review Draft Annual Groundwater Monitoring Report for Sites 21 and 24	30 edays	Thu 7/18/13	Sat 8/17/13	2739
2741	Prepare Internal Final Annual Groundwater Monitoring Report for Sites 21 and 24	21 edays	Sat 8/17/13	Sat 9/7/13	2740
2742	Navy Review Internal Final Quarterly Groundwater Monitoring Work Plan for Sites 21 and 24	14 edays	Sat 9/7/13	Sat 9/21/13	2741
2743	Prepare Final Annual Groundwater Monitoring Report for Sites 21 and 24	14 edays	Sat 9/21/13	Sat 10/5/13	2742
2744	2013 Sites 6, 12, 21, 24 Quarterly Groundwater Monitoring	733 days	Tue 7/31/12	Sun 8/3/14	
2745	Navy to contract 2013 Quarterly Groundwater Monitoring for Sites 6, 12, 21, 24	60 edays	Tue 7/31/12	Sat 9/29/12	
2746	2013 Quarterly Groundwater Monitoring Work Plan for Sites 6, 12, 21, 24	142 days	Sun 9/30/12	Tue 2/19/13	
2747	Prepare Internal Draft Quarterly Groundwater Monitoring Work Plan for Sites 6, 12, 21, 24	30 edays	Sun 9/30/12	Tue 10/30/12	2745
2748	Navy Review Internal Draft Quarterly Groundwater Monitoring Work Plan for Sites 6, 12, 21, 24	14 edays	Tue 10/30/12	Tue 11/13/12	2747
2749	Prepare Draft Quarterly Groundwater Monitoring Work Plan for Sites 6, 12, 21, 24	7 edays	Tue 11/13/12	Tue 11/20/12	2748
2750	BCT Review Draft Quarterly Groundwater Monitoring Work Plan for Sites 6, 12, 21, 24	30 edays	Tue 11/20/12	Thu 12/20/12	2749
2751	Prepare Internal Final Quarterly Groundwater Monitoring Work Plan for Sites 6, 12, 21, 24	33 edays	Thu 12/20/12	Tue 1/22/13	2750
2752	Navy Review Internal Final Quarterly Groundwater Monitoring Work Plan for Sites 6, 12, 21, 24	14 edays	Tue 1/22/13	Tue 2/5/13	2751
2753	Prepare Final Quarterly Groundwater Monitoring Work Plan for Sites 6, 12, 21, 24	14 edays	Tue 2/5/13	Tue 2/19/13	2752
2754	2013 Quarterly Groundwater Monitoring for Sites 6, 12, 21, 24	298 days	Tue 2/19/13	Fri 12/13/13	
2755	First Quarter Groundwater Monitoring Sites 6, 12, 21, 24	7 edays	Tue 2/19/13	Tue 2/26/13	2753
2756	Second Quarter Groundwater Monitoring Sites 6, 12, 21, 24	7 edays	Sun 5/26/13	Sun 6/2/13	2755FS+90 days

All start and finish dates on Saturday or Sunday default to the following business day.

**NAVAL STATION TREASURE ISLAND ENVIRONMENTAL SCHEDULE
FINAL SITE MANAGEMENT PLAN
September 2012**

ID	Task Name	Duration	Start	Finish	Predecessors
2757	Third Quarter Groundwater Monitoring Sites 6, 12, 21, 24	7 edays	Sat 8/31/13	Sat 9/7/13	2756FS+90 days
2758	Fourth Quarter Groundwater Monitoring Sites 6, 12, 21, 24	7 edays	Fri 12/6/13	Fri 12/13/13	2757FS+90 days
2759	2013 Annual Groundwater Monitoring Report for Sites 6, 12, 21, 24	203 days	Sun 1/12/14	Sun 8/3/14	
2760	Prepare Internal Draft Annual Groundwater Report Sites 6, 12, 21, 24	91 edays	Sun 1/12/14	Sun 4/13/14	2758FS+30 days
2761	Navy Review Internal Draft Annual Groundwater Report Sites 6, 12, 21, 24	14 edays	Sun 4/13/14	Sun 4/27/14	2760
2762	Respond to Navy Comments and Prepare Draft Annual Groundwater Report Sites 6, 12, 21, 24	7 edays	Sun 4/27/14	Sun 5/4/14	2761
2763	BCT Review Draft Annual Groundwater Report Sites 6, 12, 21, 24	30 edays	Sun 5/4/14	Tue 6/3/14	2762
2764	Respond to BCT Comments and Prepare Internal Final Annual Groundwater Report Sites 6, 12, 21, 24	33 edays	Tue 6/3/14	Sun 7/6/14	2763
2765	Navy Review Internal Final Annual Groundwater Report Sites 6, 12, 21, 24	14 edays	Sun 7/6/14	Sun 7/20/14	2764
2766	Prepare Final Annual Groundwater Report Sites 6, 12, 21, 24	14 edays	Sun 7/20/14	Sun 8/3/14	2765

**NAVAL STATION TREASURE ISLAND ENVIRONMENTAL SCHEDULE
FINAL SITE MANAGEMENT PLAN
September 2012**

ID	Task Name	Duration	Start	Finish	Predecessors
2767	REGULATORY INTERACTION SUPPORT	3160 days	Sun 4/8/07	Wed 12/2/15	
2768	SITE MANAGEMENT PLAN (ANNUAL UPDATES)	2334 days	Sun 4/8/07	Wed 8/28/13	
2769	Site Management Plan (2007 Annual Update)	257 days	Sun 4/8/07	Fri 12/21/07	
2780	Site Management Plan (2008 Annual Update)	205 days	Tue 5/6/08	Thu 11/27/08	
2791	Site Management Plan (2009 Annual Update)	511 days	Tue 5/6/08	Tue 9/29/09	
2801	Site Management Plan (2010 Annual Update)	270 days	Tue 2/2/10	Fri 10/29/10	
2810	Site Management Plan (2011 Annual Update)	311 days	Sun 2/20/11	Wed 12/28/11	
2819	Site Management Plan (2012 Annual Update)	205 days	Mon 2/20/12	Wed 9/12/12	
2828	Site Management Plan (2013 Annual Update)	189 days	Wed 2/20/13	Wed 8/28/13	
2829	Prepare Internal Draft Site Management Plan	35 edays	Wed 2/20/13	Wed 3/27/13	
2830	Navy Review Internal Draft Site Management Plan	35 edays	Wed 3/27/13	Wed 5/1/13	2829
2831	Incorporate Navy Review Comments for Draft Site Management Plan	7 edays	Wed 5/1/13	Wed 5/8/13	2830
2832	BCT Review Draft Site Management Plan	30 edays	Wed 5/8/13	Fri 6/7/13	2831
2833	Prepare Preliminary RTCs on Draft Site Management Plan	21 edays	Fri 6/7/13	Fri 6/28/13	2832
2834	Prepare Internal Final Site Management Plan	36 edays	Fri 6/28/13	Sat 8/3/13	2833
2835	Navy Review Internal Final Site Management Plan	11 edays	Sat 8/3/13	Wed 8/14/13	2834
2836	Prepare Final Site Management Plan	14 edays	Wed 8/14/13	Wed 8/28/13	2835
2837	Site Management Plan (2014 Annual Update)	189 days	Wed 2/20/13	Wed 8/28/13	
2846	BCT MEETINGS/MINUTES	2885 days	Tue 1/8/08	Wed 12/2/15	
2847	BCT Meetings 2008	331 days	Tue 1/8/08	Wed 12/3/08	
2860	BCT Meetings 2009	329 days	Wed 1/7/09	Wed 12/2/09	
2873	BCT Meetings 2010	329 days	Wed 1/6/10	Wed 12/1/10	
2886	BCT Meetings 2011	336 days	Wed 1/5/11	Wed 12/7/11	
2899	BCT Meetings 2012	336 days	Wed 1/4/12	Wed 12/5/12	
2900	BCT Meeting #1	0 edays	Wed 1/4/12	Wed 1/4/12	
2901	BCT Meeting #2	0 edays	Wed 2/1/12	Wed 2/1/12	
2902	BCT Meeting #3	0 edays	Wed 3/7/12	Wed 3/7/12	
2903	BCT Meeting #4	0 edays	Wed 4/4/12	Wed 4/4/12	
2904	BCT Meeting #5	0 edays	Wed 5/2/12	Wed 5/2/12	
2905	BCT Meeting #6	0 edays	Wed 6/6/12	Wed 6/6/12	
2906	BCT Meeting #7	0 edays	Wed 7/4/12	Wed 7/4/12	
2907	BCT Meeting #8	0 edays	Wed 8/1/12	Wed 8/1/12	
2908	BCT Meeting #9	0 edays	Wed 9/5/12	Wed 9/5/12	

All start and finish dates on Saturday or Sunday default to the following business day.

**NAVAL STATION TREASURE ISLAND ENVIRONMENTAL SCHEDULE
FINAL SITE MANAGEMENT PLAN
September 2012**

ID	Task Name	Duration	Start	Finish	Predecessors
2909	 BCT Meeting #10	0 edays	Wed 10/3/12	Wed 10/3/12	
2910	 BCT Meeting #11	0 edays	Wed 11/7/12	Wed 11/7/12	
2911	 BCT Meeting #12	0 edays	Wed 12/5/12	Wed 12/5/12	
2912	BCT Meetings 2013	336 days	Wed 1/2/13	Wed 12/4/13	
2925	BCT Meetings 2014	336 days	Wed 1/1/14	Wed 12/3/14	
2938	BCT Meetings 2015	329 days	Wed 1/7/15	Wed 12/2/15	
2951	COMMUNITY RELATIONS PROGRAM	3162 days	Thu 4/19/07	Tue 12/15/15	
2952	 COMMUNITY RELATIONS PLAN (2007/2008)	309 days	Thu 7/26/07	Fri 5/30/08	
2963	RAB MEETINGS/MINUTES	2492 days	Tue 2/17/09	Tue 12/15/15	
2964	 RAB Meetings/Minutes 2009	302 days	Tue 2/17/09	Tue 12/15/09	
2971	 RAB Meetings/Minutes 2010	308 days	Tue 2/16/10	Tue 12/21/10	
2978	 RAB Meetings/Minutes 2011	301 days	Tue 2/15/11	Tue 12/13/11	
2985	RAB Meetings/Minutes 2012	301 days	Tue 2/21/12	Tue 12/18/12	
2986	 RAB Meeting #158	0 edays	Tue 2/21/12	Tue 2/21/12	
2987	 RAB Meeting #159	0 edays	Tue 4/17/12	Tue 4/17/12	
2988	 RAB Meeting #160	0 edays	Tue 6/19/12	Tue 6/19/12	
2989	 RAB Meeting #161	0 edays	Tue 10/16/12	Tue 10/16/12	
2990	 RAB Meeting #162	0 edays	Tue 12/18/12	Tue 12/18/12	
2991	RAB Meetings/Minutes 2013	301 days	Tue 2/19/13	Tue 12/17/13	
2998	RAB Meetings/Minutes 2014	301 days	Tue 2/18/14	Tue 12/16/14	
3005	RAB Meetings/Minutes 2015	301 days	Tue 2/17/15	Tue 12/15/15	
3012	TI TIMES	3008 days	Thu 4/19/07	Mon 7/13/15	
3013	 TI Times #13 Spring/Summer 2007	130 days	Thu 4/19/07	Mon 8/27/07	
3021	 TI Times #14 Summer 2008	189 days	Fri 1/18/08	Fri 7/25/08	
3029	 TI Times #15 Winter 2009	191 days	Sun 11/2/08	Tue 5/12/09	
3037	 TI Times #16 Spring 2010	184 days	Wed 10/21/09	Fri 4/23/10	
3045	 TI Times #17 Summer 2011	368 days	Sat 7/17/10	Wed 7/20/11	
3053	 TI Times #18 Summer 2011	287 days	Tue 10/18/11	Tue 7/31/12	
3061	TI Times #19 Winter 2012	92 days	Mon 10/29/12	Tue 1/29/13	
3062	 Prepare Internal Draft TI Times #19	25 edays	Mon 10/29/12	Fri 11/23/12	3060FS+90 edays
3063	Navy Review Internal Draft TI Times #19	14 edays	Fri 11/23/12	Fri 12/7/12	3062
3064	Respond to Navy Comments and Prepare Draft TI Times #19	7 edays	Fri 12/7/12	Fri 12/14/12	3063
3065	BCT Review of Draft TI Times #19	14 edays	Fri 12/14/12	Fri 12/28/12	3064

All start and finish dates on Saturday or Sunday default to the following business day.

**NAVAL STATION TREASURE ISLAND ENVIRONMENTAL SCHEDULE
FINAL SITE MANAGEMENT PLAN
September 2012**

ID	Task Name	Duration	Start	Finish	Predecessors
3066	Respond to BCT Comments and Prepare Internal Final TI Times #19	14 edays	Fri 12/28/12	Fri 1/11/13	3065
3067	Navy Review Internal Final TI Times #19	11 edays	Fri 1/11/13	Tue 1/22/13	3066
3068	Prepare Final TI Times #19	7 edays	Tue 1/22/13	Tue 1/29/13	3067
3069	TI Times #20 Fall 2012	107 days	Sat 3/30/13	Mon 7/15/13	
3077	TI Times #21 Spring 2013	107 days	Sun 10/13/13	Tue 1/28/14	
3085	TI Times #22 Fall 2013	107 days	Sat 3/29/14	Mon 7/14/14	
3093	TI Times #23 Spring 2014	107 days	Sun 10/12/14	Tue 1/27/15	
3101	TI Times #24 Fall 2014	107 days	Sat 3/28/15	Mon 7/13/15	

**NAVAL STATION TREASURE ISLAND ENVIRONMENTAL SCHEDULE
FINAL SITE MANAGEMENT PLAN
September 2012**

ID	Task Name	Duration	Start	Finish	Predecessors
3109	TRANSFER RELATED	5504 days	Mon 9/1/03	Wed 3/6/19	
3110	✓ SEBS/FOST EXECUTION SCHEDULE	1207 days	Mon 9/1/03	Fri 6/1/07	
3254	✓ FINAL SEBS	388 days	Fri 2/27/04	Fri 7/8/05	
3275	✓ TREASURE ISLAND FOST (FOST 1)	624 days	Fri 2/27/04	Thu 3/2/06	
3289	✓ YERBA BUENA ISLAND FOST (FOST 2)	716 days	Tue 11/18/03	Wed 3/22/06	
3334	✓ SITE 27 BOUNDARY CHANGE TECHNICAL MEMORANDUM	139 days	Sat 4/3/10	Fri 8/20/10	
3342	✓ SITE 29 BOUNDARY CHANGE TECHNICAL MEMORANDUM	274 days	Wed 3/24/10	Wed 12/22/10	
3350	✓ SITE 29 ARTIFACTS BOUNDARY CHANGE TECHNICAL MEMORANDUM	98 days	Wed 9/21/11	Wed 12/28/11	
3358	✓ FOST 3	736 days	Mon 1/11/10	Tue 1/17/12	
3379	FOSTs 1 AND 2 ADDENDUM (CANCELLED)	428 days	Mon 2/14/11	Mon 4/16/12	
3391	 FOST 4	179 days	Mon 7/30/12	Fri 1/25/13	
3392	 Prepare Internal Draft FOST 4	90 edays	Mon 7/30/12	Sun 10/28/12	
3393	Agency Review of Draft FOST 4	30 edays	Sun 10/28/12	Tue 11/27/12	3392
3394	Prepare Preliminary RTCs for Draft FOST 4	14 edays	Tue 11/27/12	Tue 12/11/12	3393
3395	Prepare Internal Final FOST 4	14 edays	Tue 12/11/12	Tue 12/25/12	3394
3396	Internal Navy Review of Internal Final FOST 4	10 edays	Tue 12/25/12	Fri 1/4/13	3395
3397	Respond to Internal Review Comments and Prepare Final YBI FOST 4	14 edays	Fri 1/4/13	Fri 1/18/13	3396
3398	Sign and Distribute Final YBI FOST 4	7 edays	Fri 1/18/13	Fri 1/25/13	3397
3399	 FOST 5	276 days	Mon 12/16/13	Wed 9/17/14	
3409	 FOST 6	276 days	Mon 7/27/15	Wed 4/27/16	
3419	 FOST 7	276 days	Mon 8/8/16	Wed 5/10/17	
3429	 FOST 8	276 days	Mon 6/4/18	Wed 3/6/19	
3439	COVENANT TO RESTRICT USE OF PROPERTY (CRUP)	2376 days	Mon 9/3/12	Wed 3/6/19	
3440	 CRUP (FOST 3) - YBI Pre-Closing Conveyance	120 edays	Mon 9/3/12	Tue 1/1/13	
3441	CRUP (FOST 4) - Initial TI Conveyance	90 edays	Sat 10/27/12	Fri 1/25/13	3398FF
3442	CRUP (FOST 5)	90 edays	Thu 6/19/14	Wed 9/17/14	3408FF
3443	CRUP (FOST 6)	90 edays	Thu 1/28/16	Wed 4/27/16	3418FF
3444	CRUP (FOST 7)	90 edays	Thu 2/9/17	Wed 5/10/17	3428FF
3445	CRUP (FOST 8)	90 edays	Thu 12/6/18	Wed 3/6/19	3438FF

All start and finish dates on Saturday or Sunday default to the following business day.

APPENDIX C
RESPONSES TO REGULATORY AGENCY COMMENTS

RESPONSES TO REGULATORY AGENCY COMMENTS ON THE DRAFT 2012 SITE MANAGEMENT PLAN, NAVAL STATION TREASURE ISLAND, SAN FRANCISCO, CALIFORNIA

This document presents the Navy's responses to comments received from the Department of Toxic Substances Control (DTSC); AMEC Environment & Infrastructure, on behalf of the Treasure Island Development Authority (TIDA), and Terraphase Engineering Inc., on behalf of the Treasure Island Community Development (TICD); and the San Francisco Bay Regional Water Quality Control Board (Water Board) on the "*Draft 2012 Site Management Plan [SMP], Naval Station Treasure Island, San Francisco, California,*" dated May 18, 2012. The comments addressed below were received via e-mail from Remedios Sunga, DTSC, on June 20, 2012; Scott Warner and Bill Carson, TIDA/TICD, on June 22, 2012; and Myriam Zech, Water Board, on July 10, 2012.

RESPONSES TO DTSC COMMENTS

1. **Comment:** **Table 2, Page 7 – Summary of Forthcoming CERCLA Documents and Phases: Sites 21, 27 and 30: The CRUP should be included for these sites since the LUC RD is different from the CRUP. The CRUP was not mentioned in the SMP; the CRUP is a document where the Navy and DTSC have to work on like the one at YBI. The SMP documents all activities at TI and the CRUP is an activity.**

Response: The Covenant to Restrict Use of Property (CRUP) is generally drafted before a property transfer event. The CRUP covers restrictions associated with the property transfer footprint at that time and may include multiple sites and parcels.

Although it is undetermined exactly when or how many CRUPs will be necessary to support future transfers, there are at least two upcoming CRUPs: one for the pre-closing conveyance on Yerba Buena Island (YBI), and one for the initial property conveyance planned for Treasure Island (TI). It can be assumed that a CRUP may be associated with additional transfers supported by a Finding of Suitability to Transfer (FOST). Placeholders for potential future CRUPs will be included in both [Appendix A](#) (transfer-related program) and in [Appendix B](#) (environmental schedule).

2. **Comment:** **Figure 2 – CERCLA Program Site Strategy Flow Chart:**
- a. **Sites 21, 27 and 30: What is the difference between LUC RD (Site 21) and LUC WP (Site 30). Add CRUP and separate activity or merge with LUC to read "LUC RD/CRUP".**
 - b. **Site 27: Add LUC RD and CRUP.**
 - c. **Sites 6, 12, 31 and 33: Is the MARSSIM Survey the same as the FSS survey? FSS is used in the schedules in Appendix B.**

- d. **Site 30: “Additional Investigation for Radiological Contamination” should be inserted before Closure. See Figure 4.**
- e. **Site 32: please clarify that the “Additional Investigation” is for rad contamination.**
- f. **Site 33: Please change ESD to “ESD to Site 31 PP/ROD”.**

Response:

- a. The terms land use control (LUC) remedial design (RD) and LUC work plan (WP) were used synonymously in the draft 2012 SMP. Specifically, a LUC RD/remedial action work plan (RAWP) was prepared for Site 30 and is currently being prepared for Site 21. To be consistent with the actual titles of the reports for Sites 21 and 30, the flowchart in [Figure 2](#), the text in [Appendix A](#), and the schedule in [Appendix B](#) will be revised to call them both a LUC RD/RAWP. A step for “*LUC Inspection/Reporting*” will also be added to the flowchart for Site 21. An RD is being prepared for a remedial action for Site 27 and is not the same as a LUC RD/RAWP.

As noted in the Navy’s response to [DTSC Comment #1](#), CRUPs are typically prepared to coincide with the timing of property transfer. Transfer-related activities such as a FOST or CRUP are not shown in [Figure 2](#). [Appendix B](#) will be revised to include the anticipated schedule for future CRUPs under the transfer-related section of the schedule rather than under site-specific schedules.

- b. Please see the Navy’s response to DTSC comment #2a above. CRUPs are typically prepared at the time of property transfer, which is not shown in the flow chart. An RD is being prepared for Site 27, which is not being considered the same as a LUC RD.
- c. Final status surveys (FSS) are performed in accordance with Multi-Agency Radiation Survey and Site Investigation Manual (MARSSIM) survey procedures. The MARSSIM tasks shown for Sites 6, 12, and 31 in the flowchart will be changed to “FSS” for consistency with the schedule in [Appendix B](#). The legend definition for the light blue task will be modified to: “*Indicates FSS in accordance with MARSSIM.*” An FSS will not be necessary at Site 33 based on the results of the removal action at Site 33; thus, the “FSS” step in the flowchart was removed.
- d. An FSS task will be added to Site 30 to be consistent with the schedule in [Appendix B](#).
- e. The box for “additional investigation” for Site 32 will be changed to “FSS” for consistency with the schedule in [Appendix B](#).
- f. An asterisk will be added to the Site 33 explanation of significant difference (ESD) on [Figure 2](#) to note the following: “*The ESD was written to modify the Site 31 record of decision/remedial action plan [ROD/RAP] to include Site 33 as part of the remedy.*”

3. **Comment:** **Site 12 Flowchart:** Please include the Site 12 flowchart showing how the rad activities will eventually merge at the PP/ROD phase. A similar flowchart was provided at the July 2011 BCT meeting

Response: The Navy will include the Site 12 flowchart in the final 2012 SMP.

4. **Comment:** **Figure 1 – CERCLA Sites, Petroleum Sites, and Transfer Parcels:** Please identify Building 233 in this figure.

Response: [Figure 1](#) shows all the CERCLA and Petroleum Program sites at TI, under which Building 233 is not included. Instead, the text in [Appendix A](#) where Building 233 is referenced and discussed will indicate the location of Building 233 is Environmental Baseline Survey Parcel T013 shown in [Figure 1](#).

5. **Comment:** **Figure 4 – Timeline to Closure CERCLA Program:**

- a. The activities should be consistent with the flowchart.
- b. Site 21 Flowchart has no RD/RA. The ROD does not specify an remedial action so there is no RD/RA. If an RD/RA will be necessary per the Notes, then the ROD should be revised or reopened once finalized.
- c. Site 32: Delete asterisk; The Removal Action that was completed in 2010 does not include a MARSSIM survey.

Response:

- a. The timeline in [Figure 4](#) will be reviewed and revised as necessary for consistency with the flowchart in [Figure 2](#).
- b. The timeline in [Figure 4](#) will be revised to show “LUC RD/RAWP and LUC Inspection” for Site 21 rather than RD/RA for consistency with [Figure 2](#).
- c. The asterisk will be deleted from “removal action” under Site 32 in the timeline on [Figure 4](#).

6. **Comment:** **Figure 9: Transfer and EBS Parcels:** Please include the LUC and deed notification areas similar to Figure 9 of the 2009 SMP. There are currently three CERCLA sites at TI requiring a CRUP and a number of petroleum sites requiring a deed notice. A CRUP has been finalized for the Officer’s Quarters at YBI for the pre-closing transfer.

Response: The LUC and deed notification areas from the 2009 SMP will be added to [Figure 10](#) (formerly Figure 9).

7. **Comment:** **Appendix A, Sites 21, 27, and 30, Pages A-17, A-22, and A-28:** Please discuss the CRUP requirement per the ROD, and the additional investigation that may be conducted for potential radiological contamination as shown in [Figure 4 – Timeline to Closure for Site 30](#).

- Response: The discussion of CRUP requirements will be addressed in the transfer-related section of [Appendices A and B](#), as per the Navy’s response to [DTSC comment #1](#). Based on the draft Historical Radiological Assessment (HRA) Supplemental Technical Memorandum (STM), a radiological scoping survey will be conducted at Site 30 in the area of the adjacent former salvage yard; this information will be added to the Site 30 summary sheet in [Appendix A](#).
8. **Comment:** **Appendix A, Site 31, Page A-30: Please discuss the RAWP that includes the radiological investigation and remediation. This WP is being implemented as the Phase II soil remediation**
- Response: The following sentence will be added at the beginning of the last paragraph on Page A-30: “*The Navy finalized a RAWP on January 27, 2012, for additional excavation and radiological characterization of soil (referred to as Phase II) at Site 31.*”
9. **Comment:** **Appendix A, Site 33, Page A-34: Please discuss the RAWP that includes the radiological investigation and remediation, if needed. This WP should be discussed after completion of the ESD.**
- Response: The following sentence will be added at the beginning of the last paragraph on Page A-34: “*The Navy finalized a RAWP on January 27, 2012, for excavation and radiological characterization of soil at Site 33.*”
10. **Comment:** **Appendix A, Residential Lead-Based Paint Program, Page A-51, Third Paragraph: The soil disturbance restriction at YBI is now limited to seven buildings or Officer’s Quarters. The Current Status states “Re-evaluation report finalized on Mar[ch] 9, 2011; the final report is dated February 2011 with consultants signatures on 2/28/2011 (comment in 2012 SMP not addressed).**
- Response: The summary sheet for the Residential Lead-Based Paint Program will be updated to show the report was finalized on February 28, 2011. The cover letter for the final report was dated March 9, 2011, which is cited in the draft SMP.
11. **Comment:** **Appendix A, Groundwater Monitoring Program, Page A-56: Please discuss the Site 32 groundwater monitoring that has been completed. How about the groundwater monitoring under the petroleum program?**
- Response: A discussion of the Site 32 groundwater monitoring program will be added to the Site 32 summary sheet as well as the groundwater monitoring summary sheet in [Appendix A](#). With the exception of Site 6, groundwater monitoring has ceased at petroleum sites because those sites have received no further action (NFA) concurrence.

12. **Comment:** **Appendix A, Community Relations Program, Page A-58: Work notices are not distributed to the entire TI mailing list. It should also be specified that the Proposed Plan is also distributed to the entire TI mailing list and DTSC mandatory mailing list.**

Response: The Community Relations Program summary sheet will be updated to state that work notices are distributed as needed to those who may be affected by the work. The text will be revised to state that fact sheets and proposed plans are distributed to the full TI community mailing list (which includes the DTSC mandatory mailing list). The bolded subsection header will also be changed to “*Fact Sheets, Proposed Plans, and Work Notices.*”

13. **Comment:** **Appendix A, Transfer Related, Page A-60: Please update the transfer date schedule of May 2012.**

Response: The transfer date is not currently known; however, the text will be updated before the 2012 FOST is finalized.

14. **Comment:** **Appendix B, Schedules:**

- a. **Please update the schedules at the time the SMP is finalized.**
- b. **Site 12. Please explain the three phases of FSS at SWDA A&B and the two phases at SWDA Bayside/Northpoint. Are these separate areas or phases of work in the same area?**
- c. **Site 27. LUC RD and CRUP should be included in the schedule**

Response:

- a. The schedule in [Appendix B](#) will be updated with all known date and strategy information before the 2012 SMP is finalized.
- b. For both the Solid Waste Disposal Area (SWDA) A&B and Bayside/North Point areas, the current phase of work (phase I) will be completed when the current contract ends. For both areas, a second phase of work is planned under a new contract and will cover the same areas. A removal action completion report (RACR)/FSS is anticipated for the SWDA Bayside/North Point area after the phase II work has been completed. However, as a result of the size and complexity of the SWDA A&B area, it is anticipated that a third phase of work or contract will be necessary before a RACR/FSS can be completed. The text in [Appendix A](#) will be updated to explain the multiple phases of work cover the same area but are split out for contracting purposes.
- c. Please see the Navy’s response to [DTSC comment #1](#). A LUC RD will not be completed in addition to the RD currently being developed for Site 27. In addition, the schedule for future CRUPs will be included under the transfer-related section of the schedule in [Appendix B](#).

RESPONSES TO TIDA/TICD COMMENTS

1. **Comment:** We appreciate the continued revisions of the annual Site Management Plan (SMP) so as to maintain accurate communications regarding project activities. We recognize that scheduled dates for activities and event completions (Appendix B) can change; however, we request that changes in schedules are communicated in advance of documenting the new schedules in a published plan. This would allow TIDA and TICD, respectively, to provide comments that may be of importance to their respective activities and decision making process. Both TIDA and TICD rely on documented schedules to plan various activities related to both development and financial planning; changes in schedules. We also request that the reasoning for formal changes be documented in future updates to the SMP or are formalized in more frequent written communications to the parties.

Response: With exception of the annual update to the SMP, per the TI Federal Facilities Site Remediation Agreement (FFSRA), changes to final SMP schedules must be requested by other signatories of the FFSRA. All TI stakeholders will be made aware of these requests and the rationale for formal changes to the FFSRA schedule.

2. **Comment:** Before providing full concurrence with the draft 2012 SMP, we would appreciate seeing the results of the meeting including proposed new actions or changes based on discussions held June 6, 2012 with the parties following the previous BCT meeting.

Response: No new site strategies were developed during the meeting on June 6, 2012, that would alter the schedule as presented in the draft 2012 SMP dated May 18, 2012. However, the Navy will incorporate tentative schedules for upcoming FOSTs 4 through 8, and associated CRUPs. Before the 2012 SMP is finalized, all documents and schedules will be updated to reflect the most current schedules held by the Navy and its contractors.

3. **Comment:** We would appreciate more clarity in the description of how Site 12 (Page A-13) remedial actions and management will integrate with ongoing CERCLA actions and the expected work to remediation and close actions related to radioactive constituents within Site 12.

Response: The Site 12 flowchart will be included in the final SMP, which will provide clarity with regards to how the radiological activities will be integrated into the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) process.

4. **Comment:** For Site 21 (See Page A-17 and related tables of dates including Exhibit R), we understand that the draft Land Use Control (LUC) is being prepared; we propose consideration that the schedule for Site 21 be advanced ahead and included in the initial conveyance of sites.

Response: Comment noted. The schedule for the Site 21 LUC RD/RAWP is included on the document tracking sheet that will be discussed at the monthly Base Realignment and Closure Cleanup Team (BCT) meetings.

- 5. Comment: Please clarify and/or add the screening survey for Building 3 and the Pandemonium assessment activities to the SMP schedule**

Response: The radiological program summary sheet in [Appendix A](#) will be updated to include the latest findings from the HRASTM, which will include Building 3 and the two former USS Pandemonium sites.

- 6. Comment: Please add the appropriate LUC and CRUP information for initial conveyance activities on the document submittal schedule.**

Response: As noted in the Navy's response to [DTSC Comment #1](#), the schedule for future CRUPs will be included in the transfer related section of [Appendix B](#).

- 7. Comment: Please provide a discussion on how the anticipated technical memorandum on radioactive material occurrence on TI will impact the SMP; will an addition[al] revision be planned at a date earlier than the typical annual schedule.**

Response: The final SMP will be updated with the most recent information regarding the HRASTM, including the anticipated schedules for upcoming radiological surveys recommended by the HRASTM. After the SMP has been finalized, any changes to the schedule will be made following FFSRA protocol.

RESPONSES TO WATER BOARD COMMENTS

- 1. Comment: Site Summary Sheet for Site 12, Appendix A, page A-13: I'm referring to Ross Steenson's comment letter dated August 26, 2011 (attached), that "the Navy should accelerate an action to eliminate the ongoing discharge" (of groundwater contaminated with arsenic and petroleum in the building 1311/1313 area). I agree with Ross that waiting for standard CERCLA remedial action process to unfold is unacceptable. The SMP currently references a 2001 technical memorandum which "attributed the elevated arsenic concentrations [in groundwater] to the reducing environment created by the biodegradation of TPH at the site". While the SMP states that "further action in this area will be addressed in an FS", I would like that, if we're able to determine tomorrow that the Navy can take action sooner, this statement be updated and our discussions reflected in the Site 12 summary.**

Response: The Navy briefly discussed this issue with the Water Board at the July 11, 2012, BCT meeting. The Navy agreed to review all historical data related to offshore effects and respond to the Water Board with a path forward by the August BCT meeting. Text in the Site Summary Sheet for Site 12 will also be updated with this issue in mind. Pending the timing of the final SMP, results from the historical data review and discussions with the Water Board will also be incorporated into the Site Summary Sheet for Site 12.