



**Naval Facilities Engineering Systems Command Southwest
Base Realignment and Closure (BRAC)
Program Management Office (PMO) West
San Diego, California**

**FINAL
Restoration Advisory Board
Meeting Minutes, Meeting Number 209**

Former Naval Station Treasure Island
San Francisco, California

May 17, 2022

Approved for public release: distribution is unlimited



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Prepared for:



**Department of the Navy
Naval Facilities Engineering Systems Command Southwest
BRAC PMO West
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Prepared by:



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DRAFT
MEETING MINUTES
RESTORATION ADVISORY BOARD
FORMER NAVAL STATION TREASURE ISLAND
17 May 2022
Meeting Number 209
Virtual Meeting Number 9

Community Restoration Advisory Board (RAB) Members in attendance:

Nathan Brennan, Alice Pilram, Dale Smith, John Gee

Department of the Navy (Navy) and Regulatory Agency RAB Members in attendance:

Tahirih Linz, Navy Base Realignment and Closure (BRAC) Environmental Coordinator
Celina Hernandez, San Francisco Bay Regional Water Quality Control Board (Water Board)

Peyton Ward, Department of Toxic Substances Control (DTSC)

Other Navy, Regulatory Staff, and Consultant Representatives in attendance:

Dave Clark, Navy Lead Remedial Project Manager

Janet Lear, Navy

Kimberly Walsh, DTSC

Marsha Maloof, Maloof & Associates, meeting facilitator

Ron Boehmer, Fleishman Hillard

Rick Wice, Battelle

Bob Beck, Treasure Island Development Authority (TIDA)

Christine Niccoli, Court Reporter

Megan Kranz, Trevet-Bay West Joint Venture (Trevet-Bay West)

Maddison Laeber, Trevet-Bay West

Public Guests in attendance:

Rachel Jester, California Public Utilities Commission

Carol Harvey, journalist

James Pepper, resident

Welcome Remarks and Agenda Review

Marsha Maloof (facilitator) opened the May 2022 RAB meeting for Former Naval Station Treasure Island (NAVSTA TI), held virtually because of COVID-19 restrictions. Introductions were initiated and the agenda was reviewed (Attachment A).

New Business—Site 12 Fieldwork Update

Dave Clark (Navy) introduced his presentation on the Site 12 non-time critical removal action (NTCRA) fieldwork (Attachment B).

Mr. Clark explained that NTCRAs are removal actions that are not urgent and are performed before the final remedy but could ultimately become part of the final remedy. Most NTCRA work conducted at Site 12 took place at the Solid Waste Disposal Area (SWDA) Westside Drive.

Prior Site 12 work focused on the SWDAs that the Navy was aware of early in the environmental program. Over time, the footprint of the site expanded to its current size through updates to the conceptual site model and data collected. The Comprehensive Environmental Response, Compensation, and Liability Act provides the Navy with flexibility to move back and forth in the process as new information is discovered or as regulatory changes are made. Multiple records of decision (RODs) can be developed and signed, and evaluations of RODs and remedies occur during the five-year review (FYR) process. The Navy anticipates that work on the FYR is set to begin late in 2023 ahead of the deadline in December 2025.

Mr. Clark explained that Phase I of the Site 12 SWDA Westside Drive project began in 2007. The project is currently in Phase IV, which started in 2021. Discussions regarding the NTCRA began nearly 20 years ago, and alternatives were evaluated from 2003 to 2006. An action memorandum documenting the decision was finalized in 2007. Phase I fieldwork began in March 2007. Phases I and III were comprised mainly of the excavation, while Phase IV primarily involves the characterization of materials previously excavated and the restoration of Westside Drive. Mobilization for Phase IV screening of remaining stockpiles for munitions and radiological items began in March 2021 and has since been completed. Phase IV backfilling and grading activities as well as transporting and disposing of approximately 3600 cubic yards of material are expected to be completed by the end of May 2022. The site will then be hydroseeded and demobilization will occur in late June. Afterward, the area will be maintained by landscapers for the foreseeable future and fencing will be upgraded over the summer.

One of the key aspects of the Site 12 NTCRA fieldwork was the munitions screening. All materials potentially posing a hazard were visually identified and classified as either materials documented as safe (MDAS) or munitions and explosives of concern (MEC). MEC items are those that may be live or that cannot be confirmed to not contain explosives. They are ventilated to expose the interior to the point where they can be deemed safe. During the Phase IV NTCRA fieldwork, 42 MEC and 193 MDAS items were recovered. A majority of the MDAS is metal scrap from the end of World War II. During the screening of the 3600 cubic yards of soil, 59 tons of metal were identified and segregated.

The amount of backfill required for the site is greater than the amount of material screened during Phase IV because most of the material at the site was screened, stockpiled, and removed for disposal in Phases I and III, but all backfilling was to take place during Phase IV. As of the date of the meeting, backfilling is 98 percent complete. Once the remaining stockpiles are removed for disposal, backfilling can be completed. The hydroseeding will cover all excavated Site 12 areas within the fenced Westside Drive area. Fencing that no longer serves a purpose will be removed as well as some of the remaining incidental brush and debris.

Mr. Clark reviewed images on slides 12 through 30 of the backfilled areas. The Navy's goal of leaving no visible dust was achieved by spraying down the backfill with water from mobile water trucks.

The 3600 cubic yards of soil were separated and staged in three piles, creating an assembly line for the excavator and removal trucks. The Navy's trucks were customized with removable bins on the back, making them identifiable and distinguishable from non-Navy trucks. The Navy's trucks pick up the soil by pulling up alongside the staged piles, filling the truck-mounted bins, and covering them with a tarp. Trucks exiting the site are scanned and drive over rumble strips to avoid tracking out dirt. They then drive to the railhead (at Alameda), where the bins are removed from the trucks, emptied into rail cars, and then remounted on the trucks so that they can return to the site.

Final demobilization from the site will be completed by June 2022. Work on the post-construction summary report has already begun.

Mr. Clark directed anyone who wishes to learn more about the Navy's environmental program to www.bracpmo.navy.mil where documents and up-to-date information are posted. Although the Navy has expanded its air and dust monitoring program over the years, laboratory data for the current fieldwork is delayed. Once the data is received, the reports will be posted to the website.

Mr. Clark stated that the Navy will be taking a break from fieldwork in the Westside Drive area for the foreseeable future following demobilization for the Site 12 NTCRA fieldwork. The next phase of Site 12 work will be 2022 revisions and updates to the conceptual site model, enabling the Navy to focus in 2023 on the feasibility study addendum. Once these activities are complete, the Navy can select and implement a final remedy.

Mr. Clark opened the floor to questions.

Nathan Brennan (RAB member) asked how the final grade was determined. Mr. Clark explained that the baseline for the final grade is the parking lot's original grade and the storm drains located in and surrounding it. The Navy accounted for subsidence and the current grade is similar to the original grade.

New Business—BRAC Cleanup Team (BCT) Update

Celina Hernandez (Water Board) stated that she attended the monthly per- and polyfluoroalkyl substances (PFAS) technical working group meetings, which primarily covered the Site 6 Remedial Investigation Work Plan and the Basewide PFAS Site Investigation Work Plan, as well as monthly BCT meetings.

Ms. Hernandez announced that the Site 6 Remedial Investigation Work Plan was finalized on April 5, 2022, and the Navy began fieldwork two to three weeks ago. Additionally, the FYR Addendum was finalized in February 2022 and the Site 12 Post-Construction Summary Report for the NTCRA Phase III Addendum at SWDA Northpoint was finalized in May 2022. Both the Site 6 Remedial Investigation Work Plan and the FYR Addendum have been uploaded to GeoTracker. The Post-Construction Summary Report will be uploaded by the end of the week.

She visited NAVSTA TI on March 1 to perform Site 6 reconnaissance with the Navy, on April 7 to oversee fieldwork at Site 12, on May 3 to observe Site 6 soil sampling and well installation, and on May 13 to observe Site 6 groundwater sampling.

Ms. Hernandez reviewed the Site 12 Interim Remedial Action Completion Report for chemical remedial action and the Basewide PFAS Site Investigation Work Plan.

Dale Smith (RAB member) asked Ms. Hernandez to synopsise her issues with the Basewide PFAS Site Investigation Work Plan. Ms. Hernandez recalled issues with discussions clarifying the proposed sampling locations as well as others that she could not remember. She offered to review her comments and have an offline discussion with Ms. Smith.

Peyton Ward (DTSC) made four visits to the Phase IV NTCRA fieldwork. She visited NAVSTA TI on March 3 to oversee MEC screening and site grading and visited again on April 7 with Ms. Hernandez. She also planned a visit on April 25 to oversee transportation and disposal activities, but the trucks were cancelled at the last-minute, so she observed grubbing and grading activities instead. She returned on May 2 to observe transportation and disposal activities. Ms. Ward also visited Site 6 twice. On March 1, she oversaw the demolition of Building 401 on Ninth Street and on May 3 she observed excavation activities on the north side of Ninth Street.

Ms. Ward attended the monthly BCT and PFAS technical working group meetings, and the bimonthly Site 12 technical working group meetings.

Ms. Ward reviewed the same Site 12 report and basewide PFAS work plan as Ms. Hernandez and added that she provided comments on a Site 32 Final Status Survey Work Plan in January, which has now been put on hold until the upcoming fiscal year. She also commented on the 1400 Series Site Investigation Report in February.

James Pepper (resident) stated that the California Department of Public Health (CDPH) building in Richmond is surrounded by six nuclear facilities that store and process uranium. The CDPH building was built while the contamination existed and will need to be examined for contamination. He added that the University of California Berkeley-Richmond campus is across the fence line and stores fire extinguisher fluid, which contains PFAS. The Environmental Protection Agency Region 9 lab building is also a neighbor of the nuclear facilities, and several other sources of contamination exist nearby as well. Ms. Ward instructed Mr. Pepper to email her, and she will put him in contact with the appropriate party at CDPH to discuss his concerns with.

Old Business—Community Comments

Ms. Smith stated that Mr. Clark's claim that the backfill soil is level with its previous level is false. Prior to excavation, the soil surface was level with the top of the riprap, but the backfill soil level is currently below the riprap.

Ms. Harvey asked Mr. Clark if the Navy encountered in its investigation into the history of the ABC training school the use of chemical weapons and whether he had considered lewisite or other chemical weapons as the possible source of arsenic in the meadow at

Westside Drive and Gateview Avenue. Mr. Clark stated that he did not recall any specific information regarding chemical weapons at the ABC school. He could not say whether chemical weapons are linked to the arsenic. The Navy has characterized the area using soil and groundwater data, leading to the conclusion that it is not linked to a larger arsenic problem. Mr. Pepper will email Mr. Clark with information that he has on the topic.

Ms. Harvey asked if the Navy is still scanning for radiation at Site 32 and when the fence will be removed. Mr. Clark said that no radiological scanning is currently taking place at Site 32. It was scanned twice and will be scanned once more sometime in the future to support a radiological unrestricted reuse recommendation (RURR) from CDPH. The fences will remain in place for the foreseeable future.

Ms. Linz addressed the issue of mustard gas that was brought up by Mr. Pepper. Ms. Linz explained that small amounts of sulfur mustard liquid was used for decontamination during training exercises at NAVSTA TI and if released to the environment, would have broken down within months. Therefore, since it was potentially released approximately 50 years ago, it is not considered a contaminant that the restoration program is investigating. Mr. Pepper then asked about the use of formaldehyde as a decontaminant. Ms. Linz stated that neither formaldehyde or mustard gas would be expected to persist and therefore are not the focus of BRAC work.

Old Business—RAB Meeting Minutes Approval Meeting No. 208

Tahirih Linz (Navy) asked for comments on the February 2022 RAB meeting minutes.

Ms. Smith requested that approval of the minutes be delayed because she has not received her RAB packet in the mail and would like to review the physical copy of the minutes first. Ms. Linz agreed to postpone the approval of minutes until the next RAB meeting.

Ms. Harvey requested a hard copy of final meeting minutes from future meetings. Ms. Linz will consider this request.

Action Items from February 2022 RAB Meeting

Ms. Linz requested a list of plants in the native plant seed mix from Mr. Clark. Mr. Clark completed this item.

RAB Discussion Items, Co-Chair Announcements, and Future Agenda Items

Ms. Linz announced that the Navy plans to present the Site 12 conceptual site model update at the next RAB meeting. The Navy will also present information on the USS Pandemonium 1 site.

Adjournment

The meeting adjourned at 9:01 p.m.

Action Items

Ms. Linz will consider sending Ms. Harvey a hard copy of future final meeting minutes.

17 May 2022 RAB Meeting Handouts [attached when minutes are finalized]

- Attachment A: NAVSTA TI RAB Meeting No. 209 Agenda
- Attachment B: Site 12 Fieldwork Update

Attachment A. NAVSTA TI RAB Meeting No. 209 Agenda

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ENVIRONMENTAL RESTORATION ADVISORY BOARD MEETING AGENDA

FORMER NAVAL STATION TREASURE ISLAND

Tuesday, 17 May 2022

Join by computer Download the Microsoft Teams App to your desktop, phone, or tablet and use Meeting Link:

<https://tinyurl.com/TI-RAB-MAY-2022>

Join by telephone Toll Free: 1-833-258-6146, Enter the meeting ID: 239 641 472#

For Technical Help, use link below or call: 415-712-2311

<https://support.microsoft.com/en-us/office/meetings-in-teams-e0b0ae21-53ee-4462-a50d-ca9b9e217b67>

MEETING NO. 209

I. WELCOME REMARKS AND AGENDA REVIEW

7:00 – 7:05 **Welcome, Introductions**
Marsha Maloof, Meeting Facilitator

7:05 – 7:10 **Meeting Guidelines and Agenda Review**
Marsha Maloof, Meeting Facilitator
Alice Pilram, Community Co-Chair

II. NEW BUSINESS

7:10 – 8:00 **Site 12 Fieldwork Update**
Dave Clark, Navy Lead Remedial Project Manager
Q&A: RAB
Q&A: Community

8:00 – 8:15 **BRAC Cleanup Team Update**
Peyton Ward, Department of Toxic Substances Control
Celina Hernandez, Regional Water Board

8:15 – 8:25 **Break**

III. OLD BUSINESS

8:25 – 8:40 **Community Comments**
Marsha Maloof, Meeting Facilitator
Q&A: RAB
Q&A: Community

8:40 – 8:45 **RAB Meeting Minutes Approval Meeting No. 208**
Tahirih Linz, Navy Co-Chair

8:45 – 8:50 **Action Items from February 2022 RAB Meeting**
Tahirih Linz, Navy Co-Chair

8:50 – 8:55 **Co-Chair Announcements and Future Agenda Items**
Alice Pilram, Community Co-Chair and Tahirih Linz, Navy Co-Chair

9:00 **Adjourn**

The Next RAB Meeting will be held 9 August 2022 at 7:00 P.M.

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Attachment B. Fieldwork Update Site 12 Housing Area and Basewide Monitoring Program Presentation

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Fieldwork Update Site 12

Former Naval Station Treasure Island

May 2022 Restoration Advisory Board Meeting

Dave Clark

Navy Lead Remedial Project Manager

5/17/22



For Tonight's Discussion

- Site 12 - Non Time Critical Removal Action (NTCRA)
 - Summary
 - Fieldwork Update
 - Schedule
- Future of Site 12



Site 12 Removal Action History

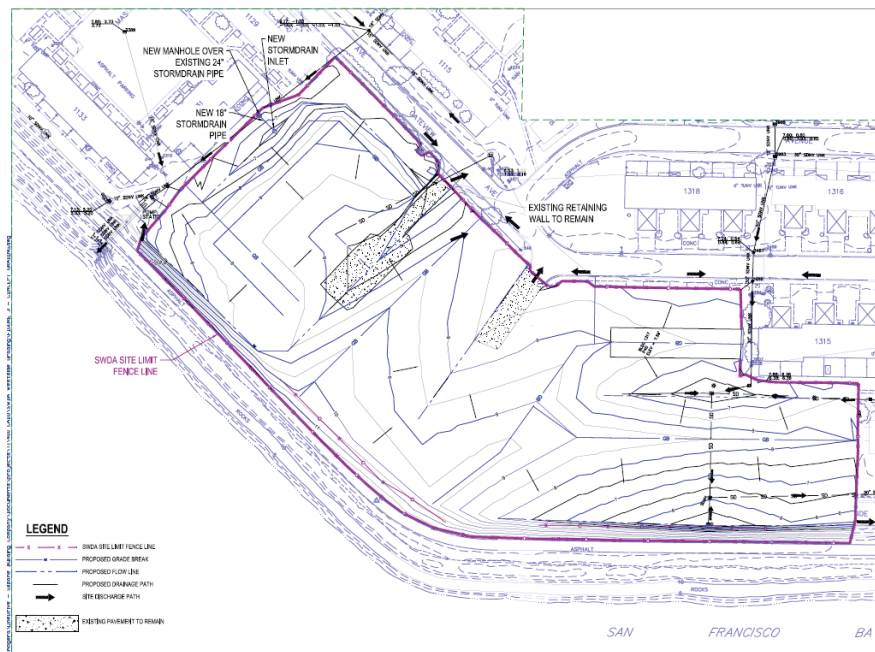
Year(s)	Type of Removal Action	Site 12 Area	Reference
1999	T	Buildings 1207 and 1209 (Bayside SWDA)	IT, 1999
1999	T	Building 1133	IT, 2000
2001–2002	T	Buildings 1252, 1254, 1246, 1248, and 1413	IT, 2002b
2007–2008 (Phase I)	N	SWDA 1207/1209 (Bayside SWDA) and SWDA 1231/1233 (North Point SWDA)	CB&I, 2013
2014 (Phase I)	N	Westside SWDA	CB&I, 2014
2015	N	Bigelow Court	CB&I, 2015b
2015–2018 (Phase III)	N	Westside, Bayside, and North Point SWDAs	APTIM, 2019b
2016–2018	T	Gateview Arsenic/Total Petroleum Hydrocarbon Area, Halyburton/Bigelow Court, and various discrete locations	CE2-K, 2020
2018–2020 (Phase III addendum)	N	North Point SWDA	Pending
2021–Ongoing (Phase IV)	N	Westside SWDA	Pending



SWDA Westside Phase IV NTCRA Fieldwork Summary

•SWDA Westside Phase IV

- Mobilized to site on March 8, 2021
- MEC and rad scanning of remaining stockpiles complete
- Backfill and grading complete
- T&D complete – end of May 2022
- Hydroseeding - end of May 2022
- Demobilization – June 2022
- Fence upgrade Summer 2022





SWDA Westside Munitions Screening Fundamentals

- **Material Documented as Safe (MDAS):** A munitions item that has been assessed and documented as not presenting an explosive hazard and for which the chain of custody has been established and maintained. This material is not an explosive hazard.
- **Munitions and Explosives of Concern (MEC):** A classification that includes those military munitions that may pose an explosive safety risk.



Munitions Screening at SWDA Westside



SWDA Westside Munitions Recovered



- 42 MEC and 193 MDAS items during the Phase IV NTCRA fieldwork

20mm Projectile After Ventilation



Majority of material recovered – end of WWII metal scrap



WWII Mess Kit.



Bell sign.



MDAS Examples





117,000 pounds of metal or about 59 tons of metal from the roughly 3600 yards of soil

Over 30 pounds per cubic
yard!





Excavation Backfill Efforts

- Estimated volume to backfill historic excavations ~13,000CY
- Grading to restore pre-existing elevation/grades
- Focus on proper drainage for future weather events
- Site to be hydroseeded consistent with previous open space projects.







Grading Work

New backfilled area extends to the north and south ends of the excavation



You Are Here!

-  Work Area
-  Truck Route / Traffic Direction
-  Site 12, Housing Area
-  Alternate Truck Route





On Old Westside Drive – Eastern Backfill





Southwest Corner of Site – Former RSY #2 Location





Southern End of Site Looking Back North





Looking East from Southern Edge of Site





Eastern Backfill Edge – MEC Controls Staged for Demobilization





Eastern Backfill Edge Looking South





Remaining Area to Be Backfilled – Former MEC Screening Area in Background





Leading Edge of Northern Backfill Area





Former MEC Screening Area





Northern Edge of Site to be Backfilled





Northern Area of the Site – Grading and Cleanup





Backfilled Northern End





Looking South from Northern End of Site





Backfill of Northern Excavation Area





T&D Pile Staged for Trucks





Looking Towards Southern End of Site – T&D Material in Background





Another View of Soil Staged for T&D





Soil Staged for Disposal





Tail End of T&D “Assembly Line”





Trucks With Numbered Dot





Loading Bins for Disposal





Truck Loading





Bins Arriving At Railhead



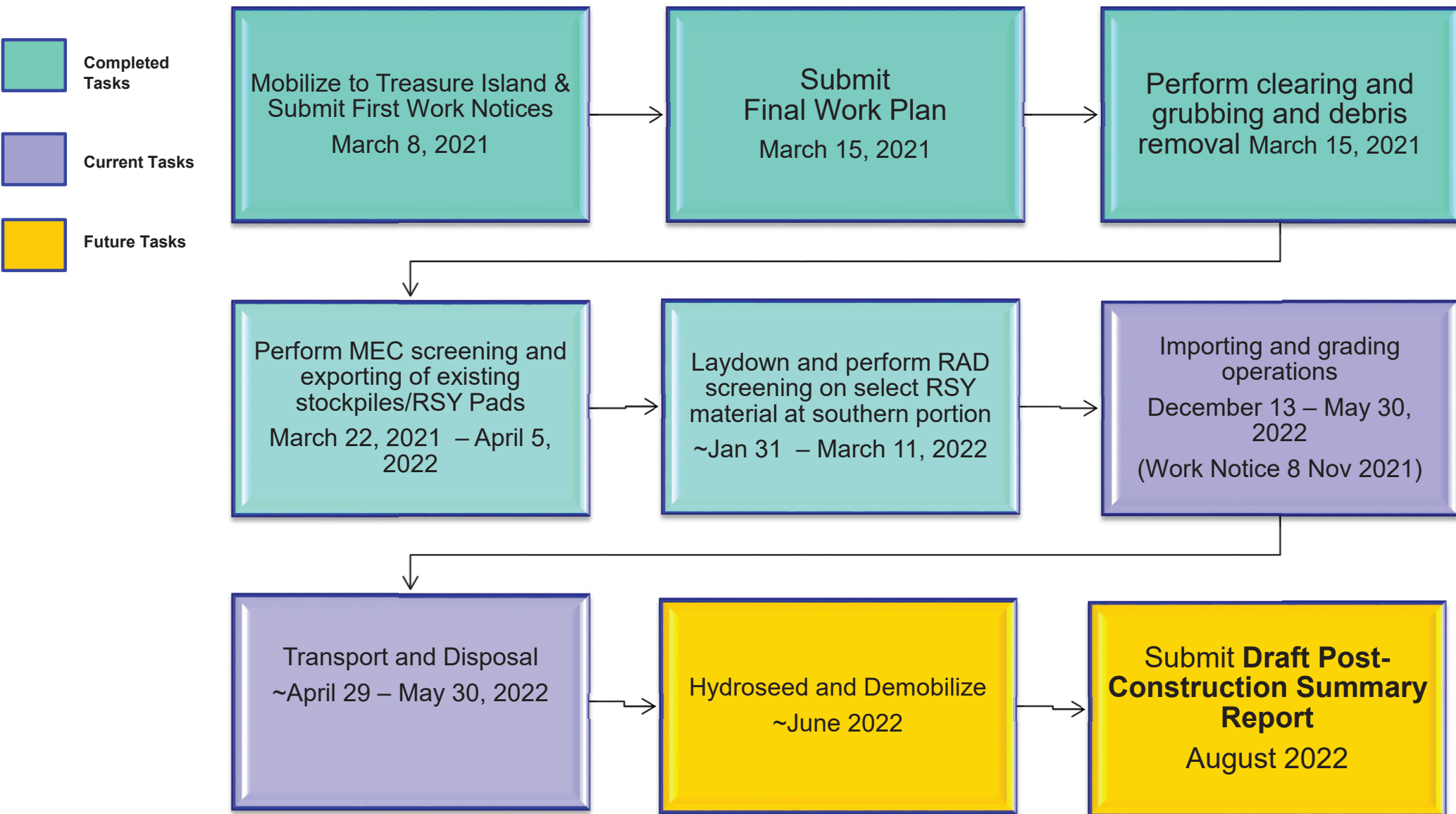


Bins Emptied To Railcars





Site 12 SWDA NTCRA Project Schedule





Community Relations

- BRAC PMO Website
 - Documents
 - Work Notices
 - Air Monitoring Data
 - RAB info
 - Other useful links

A screenshot of the web browser showing the "Former Naval Station Treasure Island" page on the BRAC PMO website. The browser's address bar shows the URL: https://www.bracpmo.navy.mil/brac_bases/california/former_ns_treasure_island.html. The website header includes the NAVFAC logo, the title "Former Naval Station Treasure Island", a search bar with the text "Enter Query", and navigation links for "Employees", "eProjects", "SC Access", and "View Map". A dark blue navigation bar contains links: "ABOUT US", "BRAC BASES", "ENVIRONMENT", "PROPERTY DISPOSAL FOR PUBLIC REUSE", "LIBRARY", and "CONTACT US". The main content area has a breadcrumb trail: "Base Realignment and Closure > BRAC Bases > California > Former Naval Station Treasure Island". On the left, a list of other BRAC sites is provided, with "Former Naval Station" highlighted. The central part of the page features a large "Panoramic Photo Of Treasure Island - US Navy Photo" with navigation arrows and a "Base Summary" link below it. To the right, a "BRAC KEY FACTS" section lists: "San Francisco, California", "Total Acreage: 1,079", "BRAC Year: 1993", "Closure Date: 30 Sep 1997", and "Action: Closure - Completing BRAC disposal and environmental actions." Below this, a "COMMUNITY INFORMATION" section shows "Future" and "Past" event tabs, with a message stating "There are no upcoming events."



Path Forward For Site 12 – After RA and NTCRA

- Conceptual Site Model Update
- Feasibility Study Addendum
- Proposed Plan
- Record of Decision
- Final Remedial Action

- Other Supporting Documents



Questions?



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