



# FINAL

## Former Naval Station Treasure Island Restoration Advisory Board (RAB) Meeting Minutes

Meeting # 152

15 February 2011

### **Community Restoration Advisory Board (RAB) Members in attendance:**

Alice Pilram

### **Department of the Navy and Regulatory Agency RAB Members in attendance:**

James Sullivan (Navy)

### **Other Navy and Regulatory Staff and Consultant Representatives in attendance:**

Jessica Beck (Tetra Tech EM Inc. [Tetra Tech])

Pete Bourgeois (Shaw Environmental and Infrastructure, Inc. [Shaw])

David Clark (Navy)

Katie Henry (Tetra Tech)

Danielle Janda (Navy)

Campbell Merrifield (Trevet)

Tommie Jean Valmassy (Tetra Tech)

### **Public Guests**

None

### **Welcome Remarks and Introductions**

James Sullivan (Base Realignment and Closure [BRAC] Environmental Coordinator) opened the February RAB meeting for Former Naval Station Treasure Island (NAVSTA TI), held at the Casa de la Vista (Building 271) on Treasure Island (TI). Mr. Sullivan noted the meeting handouts are available on the back table, including copies of the agenda ([Attachment A.](#)) He asked for any comments or changes to the agenda; there were none.

### **Public Comment and Announcements**

Mr. Sullivan invited public comment. Alice Pilram (RAB Community Co-Chair) noted there is a community meeting tomorrow, February 16. She also said the Citizen's Advisory Board (CAB) is being held the night of this meeting. She noted there was a series of community meetings in January about the housing transition, but she is not aware of any other scheduled meetings at this time.

### **Treasure Island/Yerba Buena Island Property Transfer Update and Finding of Suitability to Transfer**

Mr. Sullivan provided his regular RAB meeting update on the status of property transfer, including the Finding of Suitability for Transfer (FOST) ([Attachment B](#)). He emphasized that transfer of FOSTed property from the Navy to the Treasure Island Development Authority (TIDA) has not yet occurred, but is expected to occur in phases beginning with the initial property conveyance in early 2012. Mr. Sullivan noted that other portions of NAVSTA TI have been transferred to other government agencies: to the U.S. Department of Labor for the Job Corps Center on TI; to the U.S. Coast Guard on YBI; and by the Federal Highway Administration to the California Department of Transportation (Caltrans). The remainder of the property is all planned for transfer to TIDA. In the meantime, the Navy is leasing large portions of NAVSTA TI to TIDA, and TIDA subleases the property for various uses, including housing, recreation, business, and special events.

Mr. Sullivan reviewed the major actions required for the initial property conveyance to TIDA; the first is completion of the third FOST. It was previously referred to as the 2010 FOST, but the completion date has moved to 2011. The official title of the document is "Finding of Suitability to Transfer for Parcels 1 through 9, Submerged Parcel, the Battery Site, Torpedo Building, Site 28, and East Side Freeway On- and Off-Ramps." The Navy will develop a more appropriate yet abbreviated reference for this document; it will likely be referred to as FOST 3.

Mr. Sullivan reminded attendees that there were two FOSTs prepared in 2006; one is for Yerba Buena Island (YBI) and one is for TI. The Navy and their contractors are also preparing a single addendum to the two 2006 FOSTs.

In addition, TIDA must complete its California Environmental Quality Act (CEQA) process. Lastly, before the initial conveyance, the Navy and TIDA must finalize the real estate package, which includes the deed, maps, and all required documentation. This package must be approved by Navy Headquarters, the TIDA Board, and the San Francisco Board of Supervisors.

Mr. Sullivan said the Navy has also agreed to reach specific milestones in the environmental program before the initial conveyance in 2012. As noted on slide 3 of the handout, these milestones are: (1) the Building 233 demolition and finalizing the radiological Final Status Survey Report; (2) the Final Record of Decision (ROD) for Site 21; and (3) the remedial action at Site 33, including preparation of the Remedial Action Completion Report (RACR). He noted the Navy is currently preparing a work plan for the Site 33 work.

Mr. Sullivan said there may be another, separate conveyance of property near the end of 2011. This will include the roadways and ramp structures adjacent to the Bay Bridge, which would allow TIDA and Caltrans to make plans for ramp improvements to the bridge.

Mr. Sullivan said no early transfers are scheduled at this time. Therefore, for all property that will be transferred, the Navy needs to complete the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) actions and then complete a FOST. [Early transfer is transfer of property to a non-federal entity prior to completion of CERCLA actions. In place of a FOST, there is a Finding of Suitability for Early Transfer (FOSET).] Mr. Sullivan said the overall schedule for cleanup is detailed in the Navy's Site Management Plan (SMP), which is updated annually. The last update of the SMP was October 2010. There were no questions or comments.

#### **Look Back 2010/ Look Ahead 2011**

Mr. Sullivan introduced Jessica Beck (Tetra Tech) to present a review of environmental activities completed in 2010 and a look at planned activities for 2011 ([Attachment C](#)).

Ms. Beck reviewed a list of sites on NAVSTA TI, noting there is one off-shore site that is open and eight on-shore sites that are open. Ms. Beck reviewed the work conducted in 2010 by site. She noted an Interim Remedial Investigation report was submitted for Site 11 on YBI, which is adjacent to the Bay Bridge. That site will be revisited after Caltrans finishes construction of the new bridge span.

During the review of Site 27, Ms. Beck noted that a boundary change letter was prepared to remove the small on-shore portion of that site. This boundary change will allow the entire on-shore area adjacent to Site 27 to be included in the upcoming FOST 3, and therefore in the initial property conveyance in 2012.

Mr. Sullivan said the Navy had some discussion about whether to consider Site 30 open or closed when preparing this presentation. He noted the ROD has been signed, a Land Use Control (LUC) work plan is being implemented, and the first LUC inspection has been conducted. Dave Clark (Navy Lead Remedial Project Manager) explained the site has what is called a "remedy in place" and the site is not officially closed. As long as there is an LUC on the property, regular 5-year reviews will have to be conducted.

Ms. Beck continued on to the planned activities, or "look ahead," for 2011 and explained the dates in the look-ahead portion are tentative and subject to change. Ms. Beck said there will be another boundary change for Site 29; the second boundary change for this site. Mr. Sullivan explained the majority of Site 29 is now Caltrans property, but there are small slivers of land within Site 29 that are

Navy property. The Navy will determine whether the small slivers of property should remain as part of Site 29. If the slivers do not need to remain within Site 29, then these slivers of property can be transferred.

Ms. Beck reviewed the planned activities for Site 12 and said the Navy hopes to complete the current non-time-critical removal action at Site 12 this year.

Ms. Beck said Proposed Plan documents are scheduled to be completed this year for Sites 21, 24, and 27, and noted a public meeting will be associated with each Proposed Plan. When the public meeting dates are set, the community will be notified and encouraged to attend and provide comments. The Site 27 Proposed Plan will be discussed later in the agenda for this meeting.

There were no comments or questions on the look back and look ahead presentation.

#### **Field Activities Update**

Mr. Sullivan introduced Pete Bourgeois (Shaw) to present an update on various field activities. Mr. Bourgeois began the update with a presentation on the work conducted at Building 233 ([Attachment D](#)). The interior and exterior radiological scans were completed, and the building was demolished on January 6, 2011. Mr. Bourgeois showed photographs of preparation for the demolition. The building did not have a slab foundation; instead, it was perched on concrete piers. The Shaw team laid down plastic along the outside of the building and under the piers to catch any debris that could fall to the ground during demolition.

Mr. Bourgeois said Building 233 has been without electrical power for some time. However, the electrical lines along Avenue M were also temporarily de-energized to make sure the power lines were not affected in case any part of the building fell toward Avenue M. A loader was placed on Avenue M in case debris fell in that direction. However, nothing fell toward Avenue M, and the building came down just as the team hoped it would.

Mr. Bourgeois reviewed photographs of the demolition. The excavator could reach a height of only 36 feet. A clean soil lift was put in place so the excavator had a ramp up to reach the top of the building and was then able to bring the building down onto itself. The excavator then sat on top of the material as it was demolished to reach higher and grab pieces of the ceiling.

Mr. Bourgeois said a considerable amount of water was used for dust control. There were four dust monitors around the building and workers wore personal breathing zone area monitors (referred to as BZAs) to make sure no contamination was becoming airborne. The demolition took a total of about 4½ hours.

Currently, the team is scanning the underside of the first floor, as requested by the Navy's Radiological Affairs Support Office (RASO) and the California Department of Public Health (CDPH). The floor was flipped over, a grid pattern was mapped out, and a 100 percent scan of the joists was conducted. The top side of the floor that people had walked on was already scanned during the interior scan of the building.

Mr. Bourgeois said there were two foundation walls, each about 3 feet tall, on both sides of the building. They will be scanned during the Final Status Survey of the building footprint. The draft work plan for that footprint survey will be issued for review within the next few months. Mr. Bourgeois added that the demolition was successful.

Mr. Bourgeois moved on to the update for the Solid Waste Disposal Areas (SWDA) removal action at Westside Drive within Site 12 (TI Housing Area) ([Attachment E](#)). Mr. Bourgeois said the Shaw team is awaiting approval for work plans and work instructions for SWDA A & B before they continue field work.

The Shaw team is preparing a draft Final Status Survey Plan to include Class 2 and Class 3 Multi-Agency Radiation Survey and Site Investigation Manual (MARSSIM) surveys. That plan will include all of Site 12. The initial excavation areas within Site 12 underwent a Class 1 MARSSIM survey. A buffer zone around the original excavation areas was created to make sure there is no further contamination in those areas; those buffer zones will undergo a Class 2 survey. Then, the rest of Site 12 will undergo a Class 3 survey.

Shaw is incorporating Navy comments on the work plan for the planned hot spot removal at Building 1321. Shaw is also preparing a work instruction for radiological scanning and demolition of Buildings 1123, 1319, and 1321. Mr. Sullivan noted these buildings are vacant and within the fenced area on the western side of the housing area. They will be demolished in the same manner as Building 233. Mr. Bourgeois said the Navy does not believe the buildings are affected by radiological contamination, but they will be scanned regardless.

Mr. Bourgeois also reviewed the upcoming work for Bigelow Court, which is also within Site 12. Buildings 1103 and 1101 within that footprint are planned for demolition. He reviewed the areas that will be excavated to a depth of 2 feet and 4 feet, which are indicated on the figure on slide 3. Mr. Bourgeois said Shaw will also remove a portion of the building slabs to excavate underneath them.

Mr. Sullivan clarified the schedule for the work plan for Bigelow Court. The work plan will be completed later this spring, and Shaw plans to be in the field

doing the work sometime this summer. Mr. Bourgeois added he expects the demolition to be completed quickly.

Mr. Bourgeois provided an update on the status of public access on Perimeter Road. He noted this update is always included in his Site 12 presentation because Shaw and the Navy understand the public is interested in the access. He noted access has not changed in a long time. The only area where access to Perimeter Road is restricted is adjacent to Westside Drive (SWDA A&B), and leading into the parking lot adjacent to Site 6 and Building 461. All other areas of Perimeter Road are accessible.

Mr. Bourgeois moved on to an update of the ongoing field work at other sites ([Attachment F](#)). He said the responses to comments on the work plans for groundwater monitoring for Sites 21, 24, and 32 are being finalized. Shaw plans to be in the field by late February or early March.

Mr. Bourgeois stated Shaw completed soil gas sampling at Sites 21 and 25, and Mr. Clark will give a presentation on that work later in the agenda.

Shaw recently prepared a Work Instruction for Site 31, incorporating comments from Navy RASO about investigating a potential radiological anomaly found in the sidewall at the current excavation. The work instruction is currently being reviewed by the BRAC Cleanup Team (BCT). Excavation at Site 31 is expected to resume in May 2011.

### **Soil Gas Sampling**

Mr. Sullivan introduced the soil gas topic. He said the Navy and its contractors have been collecting soil gas samples at several sites and wanted to provide some general information about soil gas and an update specifically for Sites 21 and 25 ([Attachment G](#)).

Mr. Clark said that, some of the first soil gas samples in the country were used to test for radon, especially in Midwestern homes where houses have basements and were subject to radon gas emitting from natural subsurface conditions. Soil gas analysis has since been expanded to evaluate other constituents and has been integrated into the Navy's environmental investigation and cleanup program.

Soil gas is the gas or air that exists in the open spaces between soil particles in unsaturated soil. It is found in the region from the soil surface down to the water table; this area is known as the vadose zone. He referred to the drawing on slide 3 illustrating the vadose zone. He noted there is organic matter, soil particles, water stuck between the particles, and voids filled with gas within the vadose zone. Typically, the gas is composed of nitrogen and oxygen. When volatile organic compounds (VOC), such as some of the contaminants found at NAVSTA TI, enter the subsurface from a spill, they can begin to evaporate and become

part of the soil gas. Over time, VOCs can migrate through the vadose zone and to the surface. If the VOCs reach the surface of open space, there usually would not be a problem. However, if they intrude into a building, they can potentially pose a human health risk. However, risk from VOCs can depend on several things: (1) subsurface soil conditions: what is the soil like?; (2) building foundation characteristics: are there cracks, or holes for pipes?; and (3) indoor exchange rates: how large is the interior and how well is it ventilated? All of these factors are considered to calculate risks.

The Navy and Shaw recently collected soil gas samples at Sites 21 and 25. The California Department of Toxic Substances Control (DTSC) requested that the Navy investigate soil gas at Site 21 for the presence of VOCs because the property will be transferred to the City in the near future. There are remains of a historical groundwater plume there, which is a probable source for soil gas issues at Site 21.

At Site 25, the San Francisco Bay Regional Water Quality Control Board (Regional Water Board) asked the Navy to collect additional soil gas samples for analysis of petroleum hydrocarbons because there were historical releases from fuel storage tanks at Site 25.

Mr. Clark referred to a figure of Site 21 on slide 7, noting the original extent of the plume of chlorinated solvents in groundwater. He noted there has been great success in cleaning up the plume at Site 21 over the years and indicated on the map the extensive network of wells used to delineate and treat the plume over time. Mr. Clark said soil gas samples were collected in the areas of the original plume. The samples with the highest VOC concentrations in soil gas were collected in the areas that currently have elevated concentrations of VOCs in groundwater, indicating a correlation between soil gas concentrations and elevated VOC concentrations in groundwater. That correlation is helpful in characterizing the soil gas.

Mr. Clark said that much of Site 25 is paved, and soil gas may be trapped underneath the pavement. The Navy and Shaw conducted three rounds of soil gas sampling at Site 25. He noted the sampling locations on the map on slide 8. Several soil gas samples were located near Building 2 because the Navy needed to evaluate the potential for indoor air issues inside the building.

Mr. Clark explained the wells that were installed to gather soil gas data are similar to groundwater wells. One of the most important things to do in creating the well is to make sure there is a bentonite seal at the top.

A mobile laboratory was on site for part of these sampling events, which allows for real-time data and helps select the best location for placing other wells. Mr.

Clark said the characterization process proceeds faster because the Navy is able to delineate the plume during one field event instead of mobilizing into the field several times. The data was shared with the regulatory agencies immediately and the Navy was able to receive prompt feedback.

The Navy will need to collect more samples at Site 21 to better define the elevated concentrations of tetrachloroethane (PCE) and trichloroethene (TCE) in soil gas. The Navy will also develop site-specific screening levels for current commercial/industrial receptors and future residents. These values will help determine whether land use controls are needed for future residential use. Mr. Sullivan explained a land use control for residential use does not mean residential use is prohibited, but it could mean that certain actions might have to be done to mitigate potential risk to residents.

Mr. Clark said the results at Site 25 were different than for Site 21. There were sporadic detections of benzene, toluene, ethylbenzene, and xylene (BTEX) and total petroleum hydrocarbons (TPH) at Site 25. Similar to Site 21, the Navy will formulate site-specific screening levels for current commercial/industrial receptors and future residents. Mr. Clark explained that a future residential scenario would account for engineered fill underneath a slab foundation. A current residential scenario would consider the current NAVSTA TI dredge material. Neither Site 21 nor Site 25 are currently being used for residential purposes.

At Site 25, the Navy is requesting site closure with no additional land use controls. The Navy will calculate site-specific screening levels and submit the results to the Regional Water Board along with the data that have been collected over time at the site.

There were no comments or questions on the soil gas presentation.

#### **Site 27 Clipper Cove Skeet Range Draft Proposed Plan/Draft Remedial Action Plan**

Mr. Sullivan introduced Katie Henry (Tetra Tech) to provide an update on Site 27 ([Attachment H](#)). Ms. Henry said the draft Proposed Plan (PP)/draft Remedial Action Plan (RAP) for Site 27 was issued the week before this meeting. Mr. Sullivan explained the *draft* PP/draft RAP goes to the regulatory agencies and the RAB for review, then the *final* PP/draft RAP goes to the general public. In addition to comments on the content, the Navy welcomes suggestions now on how to make the PP better for the general public.

Ms. Henry said the skeet range in Clipper Cove was a shooting range for the Navy until 1989. Clay targets were launched from the shoreline, and lead shot was fired at them over the water. The fall zone for lead shot extends 750 feet

from the firing points. Previous investigations include a series of phased investigations in the 1990s, then a Feasibility Study (FS) from 2001 to 2010. The result of the ecological risk assessment in the FS indicated lead shot poses a risk to diving ducks.

Ms. Henry explained the FS process has taken time because initially it was thought that sediment accumulates in the off-shore area, covering the lead shot and thus preventing exposure to the ducks. However, on further investigation, it was discovered that the area within 150 feet of the shoreline includes both accumulation and also some erosion of sediment. Ms. Henry showed photographs of the previous field investigations. During those investigations, lead shot was found within 2 feet of the sediment surface in the near-shore area, which meant diving ducks could access it when they forage for food. Ms. Henry added no complete human health pathway was identified for the site.

There were three actions evaluated in the FS to (1) prevent or minimize ducks ingesting lead shot within 75 feet of the shore, and (2) prevent or minimize ducks ingesting lead shot in the future as a result of dredging or disturbance of lead shot deeper than 2 feet in sediment. Those alternatives are: (1) no action (this alternative must always be evaluated); (2) focused dredging and backfill; or (3) site-wide dredging. For Alternatives 2 and 3, the dredged material could either be disposed of at a landfill or used for beneficial reuse. Ms. Henry explained beneficial reuse would include transporting the dredged sediment to a wetland area, then adding clean soil on top to prevent access, as has been done at the Montezuma Wetlands in Suisun Bay. Because the sediment is not highly contaminated and only has physical pieces of lead shot, it is an appropriate reuse.

The preferred alternative, as presented in the draft PP/draft RAP, is alternative 2b, focused dredging in the near-shore area with beneficial reuse of sediment. It is the preferred alternative because it will protect the environment by removing the pathway for ducks to ingest lead shot, it is effective for the short term, and can be implemented more quickly than Alternative 3. Ms. Henry noted the estimated cost for Alternative 2 is less than \$3 million, whereas the estimated cost for Alternative 3 is more than \$20 million.

Ms. Henry also said that the PP/draft RAP is scheduled to go to the public in early June, followed by a 30-day public comment period. There will be a public meeting during the public comment period, the date and time of which are to be determined. After that, a ROD/RAP which addresses comments received on the PP/draft RAP, will be prepared and issued as a draft sometime around November 2011.

Ms. Henry asked for any comments or questions. There were none.

### **Upcoming Documents and Field Schedule**

#### **Documents**

Mr. Sullivan introduced Jessica Beck (Tetra Tech) to review the Document Tracking Sheet (DTS, [Attachment I](#)) and the Field Schedule Sheet ([Attachment J](#)). Ms. Beck reviewed the documents that will be issued as draft or final, or where comments will be due within the next 60 days; all of the items are highlighted on the handout. Ms. Beck noted comments are due on March 12, 2011, for the Site 27 draft PP/draft RAP Ms. Henry discussed.

#### **Field Schedule**

Ms. Beck also reviewed the field schedule. She noted the schedule for the groundwater sampling at Sites 21, 24, and 32 is tentative, pending finalization of the work plan.

There were no comments or questions on the DTS or the field schedule.

### **RAB Meeting Minutes**

Mr. Sullivan asked if there were any comments on the December 2010 meeting minutes. Ms. Pilram said Dale Smith (RAB member) could not be present at the meeting, but sent a note to Ms. Pilram stating she has no comments on the December 2010 meeting minutes. Ms. Pilram said she does not have any comments on the minutes. Mr. Sullivan said the Navy and Tetra Tech will contact the other two RAB members who attended that meeting and see if they have comments. Their comments will be addressed, if they have any, and the December RAB minutes will be finalized.

### **Co-Chair Announcements**

Mr. Pilram noted there are a growing number of businesses on TI. The latest is a new winery; it is the fourth winery on TI. The newest winery is located near Building 264. She added that the business owner has decorated the inside of the building and it looks very nice. He has office space available if anyone is interested. She noted it is a cool environment (literally), which is excellent for storing wine.

Ms. Pilram stated TI is becoming known for alcoholic spirits. She said a woman at SF Winery is making Pisco Punch, and another brewer is making kombucha (a fermented tea). In addition to spirits, Oasis Pizza is now delivering on NAVSTA TI and plans to open a café on the island in the former Nimitz Conference Center.

### **BRAC Cleanup Team Update**

Mr. Sullivan reported that the BCT held its regular meetings in the first week in January and again the first week of February. The BCT meetings mirror the topics at the RAB meetings, and the team discusses topics for the RAB during the BCT meetings. Mr. Sullivan noted the BCT also held some follow-on technical meetings, which are usually right after the regularly scheduled 10:00 a.m. to 12:00 p.m. BCT meeting. After the January BCT, the team had a focused meeting about the agency comments on FOST 3. At the end of the February BCT, the team had a focused discussion to scope the Site 6 Remedial Investigation / Feasibility Study (RI)/FS. Specifically, the Navy presented data from additional sampling that had been conducted at Site 6 to fill data gaps. Mr. Sullivan noted that Sites 6 and 12 are the only two remaining CERCLA sites where the Navy does not yet have a completed RI, so the Navy is trying to move forward on those documents.

### **Other Public Comments and Announcements**

Mr. Sullivan asked for any public comments or announcements. There were none.

### **Future Meeting Agenda Items**

Mr. Sullivan asked for future meeting agenda item requests. There were none at this time, so he noted the Navy will present whatever is timely. The meeting was adjourned.

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- **Attachment A:** NAVSTA TI RAB Meeting No. 152 Agenda, 15 February 2011
- **Attachment B:** Property Transfer & FOST Update
- **Attachment C:** Look Back 2010/ Look Ahead 2011
- **Attachment D:** Field Efforts Building 233
- **Attachment E:** Field Efforts Solid Waste Disposal Areas
- **Attachment F:** Field Activities Sites 21, 24, 25, 31, 32, 33
- **Attachment G:** Soil Gas Investigation Sites 21 and 25
- **Attachment H:** Site 27 Draft Proposed Plan/Draft Remedial Action Plan
- **Attachment I:** Document Tracking Sheet, 15 February 2011
- **Attachment J:** Field Schedule, 15 February 2011

NAVAL STATION TREASURE ISLAND  
ENVIRONMENTAL RESTORATION ADVISORY BOARD MEETING

Tuesday, 15 February 2011

7:00 PM.

**Casa de la Vista Building 271**

Treasure Island

**MEETING NO. 152**

- 7:00 – 7:05 **Welcome Remarks and Introductions**  
Lead: James Sullivan, Navy Co-Chair
- 7:05 – 7:10 **Public Comment and Announcements**  
Lead: James Sullivan, Navy Co-Chair
- 7:10 – 7:15 **Treasure Island/Yerba Buena Island Property Transfer Update**  
Lead: James Sullivan, Navy Co-Chair
- 7:15 – 7:35 **2010 Look Back / 2011 Look Ahead**  
Lead: Jessica Beck, Tetra Tech EMI
- 7:35 – 7:45 **Field Activities and Access Update**  
Lead: Pete Bourgeois, Shaw E & I
- 7:45 – 7:55 **Soil Gas Sampling**  
Lead: David Clark, Navy Lead RPM
- 7:55 – 8:05 **Site 27 Clipper Cove Skeet Range Draft Proposed Plan/Draft RAP**  
Lead: Katie Henry, Tetra Tech EMI
- 8:05 – 8:10 **Upcoming Documents and Field Schedule**  
Lead: Jessica Beck, Tetra Tech EMI
- 8:10 – 8:15 **RAB Meeting Minutes**  
Lead: James Sullivan, Navy Co-Chair
- 8:15 – 8:20 **Co-Chair Announcements**  
Lead: Alice Pilram, Community Co-Chair
- 8:20 – 8:25 **BRAC Cleanup Team Update**  
Lead: James Sullivan, Navy Co-Chair
- 8:25 – 8:30 **Other Public Comment and Announcements**  
Lead: James Sullivan, Navy Co-Chair
- 8:30 – 8:35 **Future Meeting Agenda Items**  
Lead: Navy and Community Co-Chairs





## BRAC Program Management Office



# Naval Station Treasure Island Property Transfer & FOST Update

Restoration Advisory Board  
February 15, 2011



## Property Transfer & FOST Update



- Property transfer (conveyance) of FOSTed property to the Treasure Island Development Authority (TIDA) has not yet occurred, but is expected to occur in phases beginning in early 2012.
- Portions of former Naval Station property have been previously transferred to the U.S. Department of Labor for the Job Corps Center on TI, to the U.S. Coast Guard on YBI, and by the Federal Highway Administration (FHWA) to Caltrans. The remaining Navy property will be transferred to TIDA.
- The Navy currently leases large portions of the remaining Navy property on TI and YBI to TIDA, and TIDA subleases property for housing, recreation, businesses, special events and other uses.



## Property Transfer & FOST Update



- Major actions required for initial property conveyance from Navy to TIDA:
  - Navy completion of FOST in early 2011
  - Navy completion of Addendum to 2006 FOSTs in 2011
  - TIDA completion of CEQA
  - Finalization of Conveyance Agreement (maps, deed, etc.)
  - Approval of final documents by Navy Headquarters and the San Francisco Board of Supervisors
  - Navy environmental milestones
    - Complete Building 233 Radiological Final Status Survey Report
    - Complete CERCLA Site 21 Final Record of Decision (ROD)
    - Conduct Remedial Action at Site 33 and complete Remedial Action Completion Report (RACR)

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## Property Transfer & FOST Update



- Initial Property Conveyance in 2012 will consist of:
  - 2006 Treasure Island and Yerba Buena Island FOSTs
  - 2010/2011 FOST
    - Draft FOST issued September 28, 2010
    - Final FOST planned February/March 2011
  - Addendum to 2006 FOSTs
- There may be a separate conveyance in late 2011 of property for improvements to the Bay Bridge ramps on YBI.
- No Early Transfers planned at this time.
- Future additional FOSTs and property conveyances as environmental actions are completed and property becomes FOST-able. The overall schedule is in the Site Management Plan (SMP).

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# Naval Station Treasure Island



## 2010 Look Back / 2011 Look Ahead

### Environmental Cleanup Program Activities

February 15, 2011  
Restoration Advisory Board Meeting



# CERCLA Sites



Offshore Sites (2)	Onshore Sites (17)	
Site 13 - <i>Closed</i>	Site 1 - <i>Closed</i>	Site 21
Site 27	Site 3 - <i>Closed</i>	Site 24
	Site 6	Site 28 - <i>Closed</i>
	Site 7 - <i>Closed</i>	Site 29 (Caltrans property)
	Site 8 (Caltrans property)	Site 30
	Site 9 - <i>Closed</i>	Site 31
	Site 10 - <i>Closed</i>	Site 32
	Site 11 (Caltrans property)	Site 33
	Site 12	



## Look Back – Sites 6 and 32



### Field Activities

- Sites 6 and 12 Quarterly Groundwater Monitoring: **January, May, August, November 2010**
- Site 6 Data Gaps Investigation: **September 2010**
- T111/Site 32 Toxic Substances Control Act (TSCA) Polychlorinated Biphenyl (PCB) Removal Action: **June 2009 – March 2010**

### Final Documents

- 2009 Sites 6 and 12 Annual Groundwater Report: **October 2010**
- Site 6 Data Gaps Work Plan: **August 2010**



## Look Back – Sites 8, 28, 29, and 11



### Field Activities

- Sites 8, 29, and 11 are on-hold until completion of Bay Bridge construction

### Final Documents

- Site 11 Remedial Investigation (RI) Report (Interim): **January 2010**
- Site 28 Proposed Plan (PP): **May 2010**
- Site 28 Record of Decision (ROD): **November 2010**
- Site 29 Boundary Change Letter: **December 2010**

### Public Meeting

- Site 28 PP: **May 2010**





## Look Back – Site 12



### Field Activities

- Non-time critical removal action in the Solid Waste Disposal Areas (SWDAs): **Ongoing**
- Arsenic in groundwater treatability study: **Ongoing**
- Sites 6 and 12 Quarterly Groundwater Monitoring: **January, May, August, November 2010**

### Final Documents

- Human Health Risk Assessment (HHRA) Technical Memorandum: **October 2010**
- 2009 Sites 6 and 12 Annual Groundwater Report: **October 2010**

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## Look Back – Site 21



### Field Activities

- Groundwater Treatability Study: **Ongoing**
- Soil Gas Sampling: **November and December 2010, January 2011**



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## Look Back – Sites 24 and 33



### Field Activities

- Groundwater treatability study at Site 24: **Ongoing**

### Final Document

- Site 33 RI Report: **April 2010**

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## Look Back – Site 27



### Final Documents

- Site 27 Boundary Change Letter: **August 2010**
- Site 27 FS: **August 2010**

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## Look Back – Sites 30 and 31



### Field Activities

- Site 30 Land Use Control (LUC) Inspection: **January 2011**
- Site 31 Remedial Action (Phase I): **February – July 2010**

### Final Documents

- Site 30 LUC Work Plan: **November 2010**
- Site 31 Remedial Action Work Plan: **January 2010**



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## Look Back – Compliance Programs



### Petroleum Program

- Final Site 25 Soil Gas Investigation Work Plan: **October 2010**
- Site 25 soil gas sampling: **November and December 2010, January 2011**

### Radiological Program

- Building 233 Building Demolition Work Plan: **July 2010**
- Building 233 Demolition: **January 2011**

### Polychlorinated Biphenyls (PCBs)

- T111/Site 32 soil removal action: **March 2010**

### Lead Based Paint (LBP)

- Continued to finalize LBP Inspection Summary Report

### Asbestos Containing Materials (ACM)

- Continued to finalize ACM Inspection Summary Report

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## Look Back – Regulatory and Transfer



- 12 monthly BCT meetings
- Technical meetings to discuss the Finding of Suitability to Transfer (FOST) and Basewide Site Management Plan (SMP)
- Final Basewide SMP: **October 2010**
- Transfer Endorsement Agreement signed in **August 2010** by:
  - SF Mayor Gavin Newsom
  - Secretary of the Navy Ray Mabus
  - Speaker of the House Nancy Pelosi

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## Look Back – Community Outreach



- Six bi-monthly RAB meetings
- RAB tour: **June 2010**
- Island Times Newsletter, Volume 16: **April 2010**
- Site 28 public meeting: **May 2010**
- Attended TI community meetings
- Periodic Navy updates in monthly community newsletter
- Maintain Navy website: [www.bracpmo.navy.mil](http://www.bracpmo.navy.mil)



Navy banner advertising RAB meetings



RAB Community Co-Chair meeting the Speaker of the House Nancy Pelosi in August 2010

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# Naval Station Treasure Island



## 2011 Look Ahead



# CERCLA Sites



Offshore Sites (2)	Onshore Sites (17)	
Site 13 - <i>Closed</i>	Site 1 - <i>Closed</i>	Site 21
Site 27	Site 3 - <i>Closed</i>	Site 24
	Site 6	Site 28 - <i>Closed</i>
	Site 7 - <i>Closed</i>	Site 29 (Caltrans property)
	Site 8 (Caltrans property)	Site 30
	Site 9 - <i>Closed</i>	Site 31
	Site 10 - <i>Closed</i>	Site 32
	Site 11 (Caltrans property)	Site 33
	Site 12	



## Look Ahead – Site 6



### Field Activities

- 2011 Sites 6 and 12 Quarterly Groundwater Monitoring: **Spring, Summer, Fall, Winter**

### Documents

- 2010 Sites 6 and 12 Annual Groundwater Report:
  - ❖ **Draft – Summer; Final – Fall**
- Site 6 Remedial Investigation/Feasibility Study (RI/FS) Report:
  - ❖ **Draft – Spring; Final – Fall**

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## Look Ahead – Site 32



### Field Activities

- 2011 Sites 21, 24, and 32 Quarterly Groundwater Monitoring: **Winter, Spring, Summer, Fall**

### Documents

- T111/Site 32 TSCA PCB Removal Action Report:
  - ❖ **Draft – Spring; Final – Summer**
- Draft Site 32 Proposed Plan: **Fall**

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## Look Ahead – Sites 8, 29, and 11



### Field Activities

- On hold until completion of Bay Bridge construction

### Documents

- Site 29 Boundary Change Letter for sliver areas: **Late 2011**

### Other

- Navy and Caltrans to discuss path forward for Sites 8, 11 and 29



17



## Look Ahead – Site 12



### Field Activities

- Complete non-time critical removal action in Solid Waste Disposal Areas (SWDAs): **Summer**
- Arsenic in groundwater treatability study: **Continued to 2012**
- Sites 6 and 12 Quarterly Groundwater Monitoring: **Spring, Summer, Fall, Winter**

### Documents

- Site 12 RI Report:
  - ❖ **Draft – Spring; Final – Fall**
- SWDA Radiological Final Status Survey Master Work Plan:
  - ❖ **Draft – Spring; Final – Fall**
- Bigelow Court Removal Action Work Plan:
  - ❖ **Draft – Spring; Final – Summer**

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## Look Ahead – Site 21



### Field Activities

- Complete Groundwater Treatability Study: **Fall**
- 2011 Sites 21, 24, and 32 Quarterly Groundwater Monitoring: **Winter, Spring, Summer, Fall**
- Soil Gas Sampling: **Spring**

### Documents

- Site 21 Treatability Study Report:
  - ❖ **Final – Spring**
- Site 21 PP:
  - ❖ **Final – Spring**
- Site 21 ROD:
  - ❖ **Draft – Fall; Final – Winter**

**Public Meeting:** **Spring**



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## Look Ahead – Site 24



### Field Activities

- Groundwater treatability study: **Ongoing to end of 2011**
- 2011 Sites 21, 24, and 32 Quarterly Groundwater Monitoring: **Winter, Spring, Summer, Fall**
- Soil Gas Sampling: **Summer**

### Documents

- Site 24 Treatability Study Report:
  - ❖ **Draft – Spring; Final – Fall**
- Site 24 PP:
  - ❖ **Draft – Spring; Final – Fall**

**Public Meeting:** **Fall**

20



## Look Ahead – Site 33



### Field Activities

- Site 33 Remedial Action: **Summer-Fall**

### Documents

- Site 33 Explanation of Significant Differences (ESD) to Site 31 ROD:
  - ❖ **Final – Spring**
- Sites 31/33 Remedial Action Work Plan:
  - ❖ **Draft – Spring; Final – Summer**
- Draft Sites 31/33 Remedial Action Completion Report (RACR): **Late 2011**

21



## Look Ahead – Site 27



### Field Activities

- None scheduled

### Documents

- Site 27 PP:
  - ❖ **Draft – February; Final – Summer**
- Site 27 ROD:
  - ❖ **Draft – Late 2011**

**Public Meeting: Summer**

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## Look Ahead – Sites 30 and 31



### Field Activities

- Site 31 Remedial Action: **Summer-Fall**

### Documents

- Site 30 LUC Inspection Report
  - ❖ **Draft – Spring; Final – Spring**
- Sites 31/33 Remedial Action Work Plan:
  - ❖ **Draft – Spring; Final – Summer**
- Draft Sites 31/33 RACR: **Late 2011**



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## Look Ahead – Compliance Programs



### Petroleum Program

- Site 25 Soil Gas Investigation and Closure Request: **February/March**
- YF3 Additional Investigation
  - ❖ Work Plan: **Draft – Spring; Final – Summer**
  - ❖ Field Work: **Fall**
  - ❖ Draft Report: **Fall**
- Site 6 UST 240s Investigation Work Plan:
  - ❖ **Draft – Summer; Final – Fall**



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## Look Ahead – Compliance Programs



### Groundwater Monitoring

- 2011 Quarterly Groundwater Monitoring at Sites 6, 12, 21, 24, and 32

### Radiological Program

- Building 233 Footprint Final Status Survey (FSS) Work Plan: **Spring**
- Building 233 Footprint FSS Field Work: **Spring-Summer**
- Building 233 Footprint FSS Report: **Fall**

### PCB

- None Scheduled

### LBP

- LBP Inspection Summary Report: **Spring**
- LBP Reevaluation Work Plan and Field Work: **Fall**

### ACM

- ACM Inspection Summary Report: **Spring**

25



## Look Ahead – Regulatory and Transfer



- Technical meetings
- 12 monthly BCT meetings, including an extended meeting in spring
- Basewide SMP:
  - ❖ **Draft – Summer; Final - Fall**
- 2010 FOST:
  - ❖ **Final to be signed this spring**
- 2011 FOST:
  - ❖ **Draft – Fall**

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## Look Ahead – Community Outreach



- Up to six bi-monthly RAB meetings
- Update the General Environmental Fact Sheet, Volume 6: **Issued at the same time as the Draft SMP**
- Island Times Newsletter, Volume 17: **Spring**
- Island Times Newsletter, Volume 18: **Fall**
- Proposed Plan public meetings:
  - ❖ Site 21 – **Spring**
  - ❖ Site 24 – **Fall**
  - ❖ Site 27 – **Summer**
- Provide in-person updates: **TIDA Board Meetings, CAB meetings, residents' meetings**
- Maintain Navy website: [www.bracpmo.navy.mil](http://www.bracpmo.navy.mil)



TI RAB Meeting Location - Casa de la Vista

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## Questions?



28

## Field Efforts Building 233



February 15, 2011  
NAVSTA Treasure Island  
RAB Meeting

## Building 233



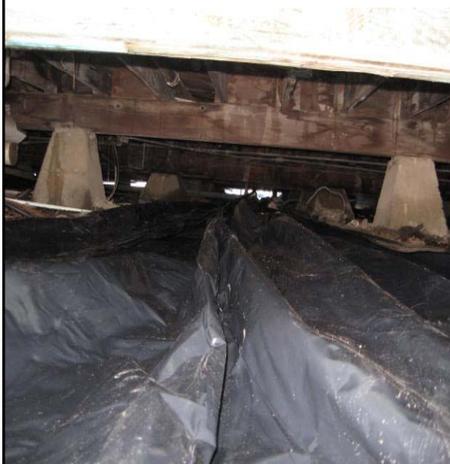
- Radiological Scanning for the Exterior and Interior of Building 233 have been Completed .
- The Demolition of Building 233 down to the First Floor was Completed on 1/6/11.
- Currently Scanning of the Underside of the First Floor is being Completed.
- A Secondary Waste Screening of the Construction Debris will be conducted. A Sodium Iodide Detector will be used to screen debris for Gamma Radiation.
- Final Status Survey Plan for Building 233 Footprint  
(Shaw is incorporating Navy's comments. Shaw will return to the Navy 2/18/11.)

## Demo Prep for Building 233



Plastic Placement Underneath and Around Building 233 Prior to Demolition.

## Demo Prep for Building 233



Plastic Under Building 233



Clean Soil used to Create Heavy Equipment Ramp

## Demo Prep for Building 233



De-Energize Electrical Lines  
along Ave M



Plastic Along Outside of Building 233

## Demo of Building 233



# Demo of Building 233



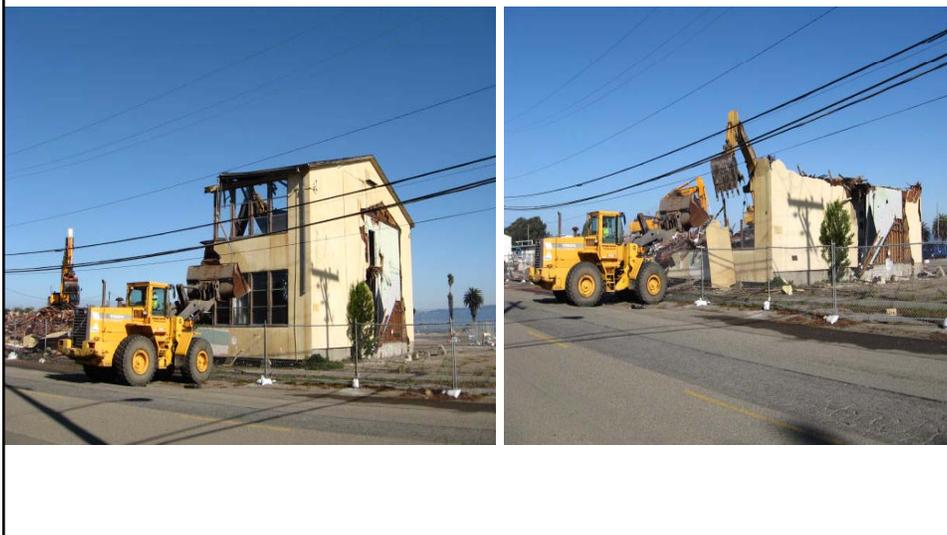
# Demo of Building 233



# Demo of Building 233



# Demo of Building 233



## Demo of Building 233



Removal of Debris from Building First Floor to Stockpile Area.

## Demo of Building 233



# Demo of Building 233



First Floor Sections Being Moved to Allow 100% Scanning of the Joists and Underside.

# Demo of Building 233



# Demo of Building 233



Grids Being Marked for Scanning



Scanning the Underside of the First Floor

# Demo of Building 233





## Field Efforts Solid Waste Disposal Areas

February 15, 2011  
NAVSTA Treasure Island  
RAB Meeting



## SWDA A&B Look Ahead

### **Preliminary Final Status Survey Plan (Master Plan)**

(Shaw is currently making changes to the plan to include Class 2 and 3 surveys of Site 12.)

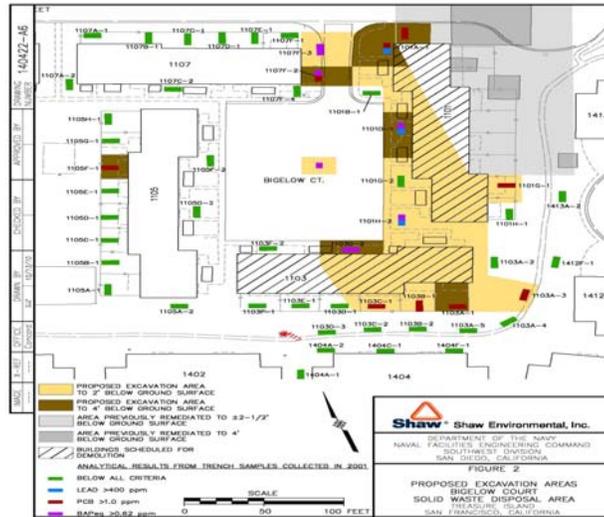
### **Building 1321 Hot Spot Removal**

(Shaw is incorporating Navy's comments. Shaw will return to the Navy 2/17/11.)

### **Buildings 1123, 1319, and 1321 Demo Work Instruction**

(In Navy review since 1/20/11.)

# Upcoming Work at Bigelow Court

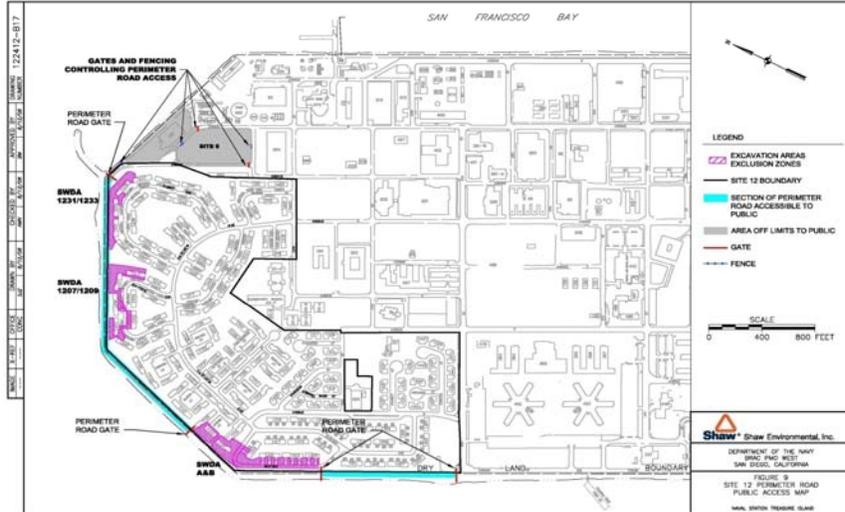


# Look Ahead Work at Bigelow Court



- **Internal Draft Work Plans**  
(In Navy review since 1-24-11.)
- **Field Mobilization**  
(May / June, 2011)

# Perimeter Road Access





# **Naval Station Treasure Island Field Activities**

**February 15, 2011 RAB Meeting**

## **Site 21, 24, and 32**



### **Site 21, 24 and 32:**

- The RTC is being finalized. The Navy QC review will occur after the RTC is finalized.

### **Site 21 & 25:**

- Soil Gas Data was given to the Navy on 1/21/11.
- The locations at Site 21 were made permanent for future TIDA use.

## Site 31 and 33 Steps Forward



- 1. The Preliminary Draft Work Plans are in Navy internal review (RASO).**
- 2. A Work Instruction to conduct investigation of potential commodity at Site 31 is underway and was sent to the BCT for review 2/9/11.**
- 3. Remedial action is scheduled to continue in May 2011.**



## Naval Station Treasure Island



### Field Efforts

### Soil Gas Investigation Sites 21 and 25

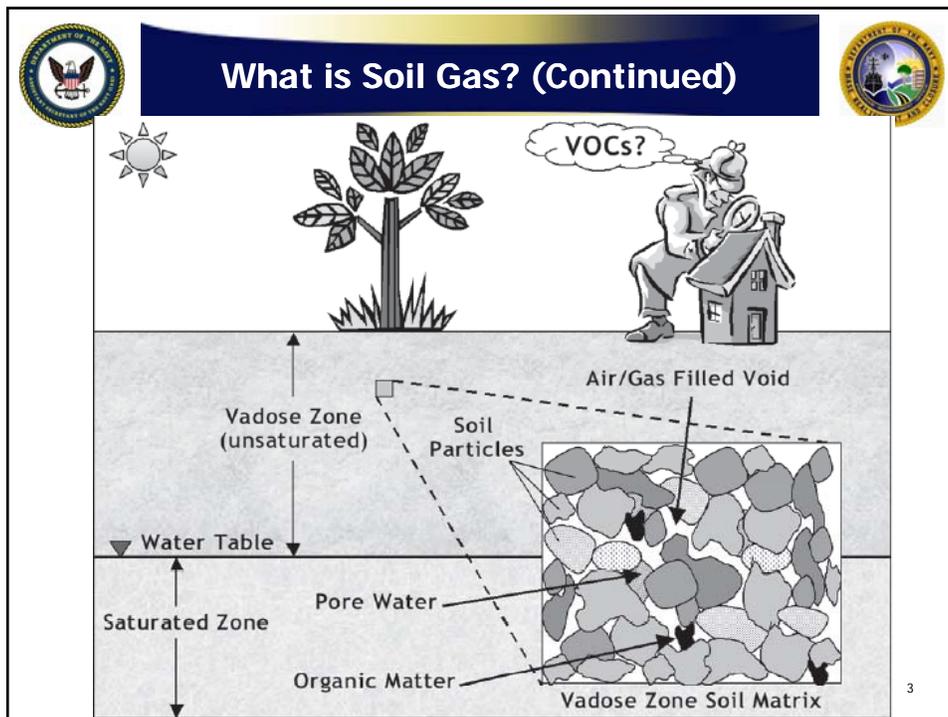
February 15, 2011  
Restoration Advisory Board Meeting



## What is Soil Gas?



- Soil gas is simply the gas phase (air) that exists in the open spaces between the soil particles in the unsaturated portion of the subsurface
- Soil Gas = Vadose Zone Atmosphere
- Vadose Zone = Hydrogeological region extending from the soil surface to the top of the water table



- 
- What is Soil Gas? (Continued)**
- Normally made up of nitrogen and oxygen like above ground air
  - When Volatile Organic Compounds (VOC) have been released in the subsurface due to spills or leaks, they will begin to evaporate from the fluid phase and become a part of the soil gas
- 4



## What is Soil Gas? (Continued)



- Over time, the contaminants can migrate upward through the vadose zone to surface or subsurface structures and present a potential hazard to human health or the environment, i.e. migration into a home or office
- Intrusion of volatile contaminant vapors into an occupied building (home office, etc.) can lead to exposure of the occupants to the contaminants
- Risk to occupants depends on many factors, including subsurface soil conditions, building foundation characteristics, and indoor air exchange rates

5



## Site 21 and 25 Investigation Summary



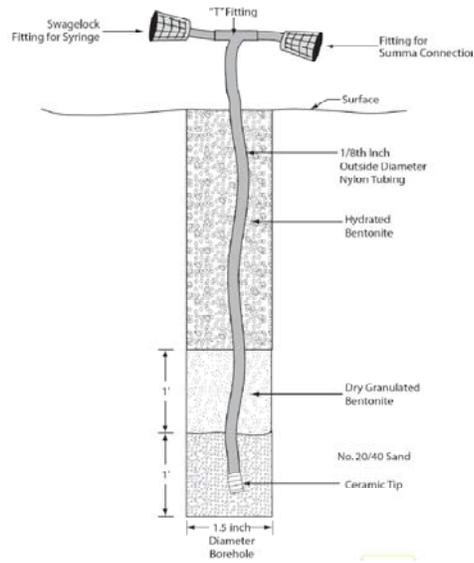
- Collected samples between November 2009 and January 2010
- Site 21 samples analyzed for VOCs
  - Samples taken per CA Dept. of Toxic Substances Control (DTSC) comments on Feasibility Study
  - Historical groundwater plume
- Site 25 samples analyzed for Petroleum Hydrocarbons
  - Samples taken per request of the Water Board
  - Historical releases from fuel storage tanks

6





# Soil Gas Well Schematic



9



# Well Installation



10



## Example of Sampling Tubing



11



## Sampling for the Mobile Laboratory



12



# The Mobile Laboratory



13



# Summa Canisters for Additional Samples



14



## Results – Site 21



- Site 21 – Elevated Results of tetrachloroethane (PCE) and trichloroethene (TCE)
  - Located above contaminated groundwater
  - Will collect more soil gas samples to better define the elevated concentrations
  - Formulating site specific risk-based screening levels for current commercial/industrial receptors and future residents
  - Potential land use controls for future residential use

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## Results – Site 25



- Site 25 – Sporadic detections of Benzene, Toluene, Ethylbenzene, and Xylene (BTEX) and Total Petroleum Hydrocarbons (TPH)
  - Formulating site specific risk-based screening levels for current commercial/industrial receptors and future residents
  - Will seek closure for the site with no further land use controls based on comparison of data to site specific screening levels

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# Questions?





## Naval Station Treasure Island IR Site 27 Clipper Cove Skeet Range



### Draft Proposed Plan/Draft Remedial Action Plan



Restoration Advisory Board  
February 15, 2011



## Overview



- Site Background
- Previous Investigations
- Summary of Site Risk
- Remedial Alternatives
- Preferred Alternative
- Schedule
- Questions



## Site Background



- A portion of Clipper Cove was used as a naval skeet range from about 1979 until 1989.
- Clay targets (skeet) were launched from the shoreline and lead shot were fired over the water, which resulted in a fan-shaped shot fall zone.
- The extent of lead shot contamination was determined to be no more than 750 feet from the firing point.



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## Previous Investigations



- 1993 – Phase I Remedial Investigation Offshore Sampling
- 1996 – Site 27 Clipper Cove Skeet Range Offshore Investigation
- 1997 – Phase II Remedial Investigation for Offshore Sediments
- 2001–2010 – Feasibility Study
  - 2008 – Lead Shot Investigation in the Nearshore Area of Site 27

4



## 2008 Nearshore Area Investigation



**Collection of Sediment and Sieving for Lead Shot**

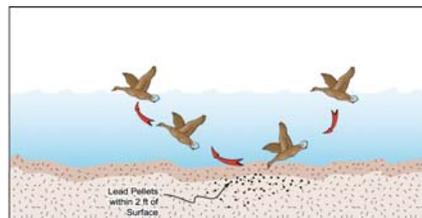
5



## Summary of Site Risk



- Incidental ingestion of lead shot by diving ducks is the primary receptor pathway in the nearshore area.
- Diving ducks have been observed at Site 27 and there is food for diving ducks in the nearshore area.



*No human health risk assessment was conducted because there is no pathway for exposure to lead shot in sediment for humans.*

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## Remedial Action Objectives



1. Prevent or minimize ingestion of lead shot by diving ducks within 75 feet of the shoreline, where there is a complete exposure pathway under current conditions.
2. Prevent or minimize ingestion of lead shot by diving ducks site-wide, where there is a potentially complete exposure pathway for diving ducks under future conditions in which lead shot currently buried below at least 2 feet of sediment is closer to the sediment surface as the result of sediment dredging or disturbance.

*No human health risks were identified; therefore, RAOs are based solely on exposure to lead shot by diving ducks under both current and future use scenarios.*

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## Remedial Alternatives



Alternative 1: No Action

Alternative 2: Focused Dredging and Backfill,  
Institutional Controls, and Sediment Monitoring

(2a: landfill disposal of sediment)

(2b: beneficial reuse of sediment)

Alternative 3: Site-wide Dredging

(3a: landfill disposal of sediment)

(3b: beneficial reuse of sediment)

8



## Excavation Areas for Alternatives 2 and 3



9



## Preferred Alternative



The Navy's preferred remedial alternative is Alternative 2b, which would be implemented by:

- removing contaminated sediments where there is a current complete exposure pathway,
- backfilling the area to prevent exposure to diving ducks, and
- implementing institutional controls throughout the site to restrict activities that might disturb sediment.

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## Reasons for Selecting Alternative 2



1. Provides overall protection of the environment by removing the current complete exposure pathway for diving ducks and ensures the pathway will remain incomplete in the remainder of the site.
2. Is the most effective in the short term and would have the least effect on the community, remedial workers, and the environment because of the limited dredging area and the relatively shorter performance period.
3. Would be implemented in the shortest period of time. Periodic costs will include long-term monitoring to ensure RAOs are consistently achieved.
4. Meets federal and state ARARs.
5. Is the most cost effective to implement.

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## Schedule



Draft Proposed Plan:	February 10, 2011
Proposed Plan to Public:	June 2, 2011
Public Comment Period:	June 3 to July 3, 2011
Public Meeting:	June 2011
Draft Record of Decision:	November 2011



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## Naval Station Treasure Island IR Site 27 Clipper Cove Skeet Range



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**Naval Station Treasure Island  
Environmental Cleanup Program  
Document Tracking Sheet  
February 2011 - July 2011**

Item	Document Title & Information	C/O/DO	INTERNAL DRAFT		DRAFT							RTC		INTERNAL FINAL		FINAL	Comments			
			Internal Draft Due to Navy	Navy Comments Due	Draft to Agencies	Agency Comments						Preliminary RTCs to Agencies	Resolve and Concur on RTCs	Internal Final to Navy	Navy Comments Due	Final to Agencies				
						Date Due	DTSC	WATERBOARD	EPA	TIDA	RAB							OTHER	Priority Level	
<b>Shaw Group</b>																				
1	Site 32 Post Construction Summary Report for PCBs in Soil	FZN1	05/11/10, 10/31/10	✓	02/21/11	03/11/11	04/10/11							05/08/11	05/22/11	06/07/11	06/17/11	07/01/11		
	RPM: Danielle Janda																			
	PM: Pete Bourgeois																			
	Battery Site Technical Memorandum	005	09/30/10	✓	10/29/10	11/01/10	11/29/10	✓						TBD	TBD	TBD	TBD	12/23/10	✓	
	RPM: Scott Anderson																			
	PM: Pete Bourgeois																			
2	Building 233 Final Status Survey Work Plan	010	08/31/10, 09/30/10, 10/11/10, 02/18/11	✓ ✓ ✓	11/25/10, 03/04/11	03/31/11	04/28/11							05/19/11	NA	05/29/11	06/02/11	06/09/11		
	RPM: Anthony Konzen																			
	PM: Pete Bourgeois																			
3	Site 21 Treatability Study Report	FZN1	09/29/10	✓	11/10/10	11/18/10	12/18/10	✓	✓	✓	✓	✓		02/09/11	✓	NA	02/09/11	02/18/11	03/11/11	
	RPM: Danielle Janda																			
	PM: Pete Bourgeois																			
4	Site 24 Treatability Study Report	FZN1	03/18/11			04/15/11	05/15/11							06/12/11		TBD	07/16/11	07/30/11	08/13/11	
	RPM: Danielle Janda																			
	PM: Pete Bourgeois																			
5	Sites 21, 24, and 32 Groundwater Monitoring SAP	002/005	10/29/10	✓	11/12/10	11/18/10	12/18/10	✓	✓	✓	✓	✓		01/31/11	✓	NA	02/07/11	02/14/11	02/21/11	WB (12/14), TIDA (12/22), EPA (1/4)
	RPM: Danielle Janda																			
	PM: Pete Bourgeois																			
6	Site 25 Soil Gas Sampling Investigation Report	FZN1	02/17/11		02/21/11	02/23/11	03/02/11							NA		NA	NA	NA	03/04/11	
	RPM: Scott Anderson																			
	PM: Neil Hey																			
7	Site 12 Final Status Survey Plan (Master)	010	8/11/10, 10/27/10, 03/07/11	✓ ✓	03/23/11	04/25/11	06/24/11							08/23/11		TBD	09/02/11	09/16/11	09/30/11	
	RPM: Anthony Konzen																			
	PM: Pete Bourgeois																			
8	Site 31/33 Remedial Action Work Plan (RAWP)	FZN9	10/15/10* 11/22/10** 01/10/11	✓ ✓ ✓	03/24/11**	TBD	TBD							TBD		TBD	TBD	TBD	TBD	* Navy technical review ** Navy RASO review, ***will wait to complete a work instruction at Site 31
	RPM: Lora Battaglia																			
	PM: Pete Bourgeois																			
9	Site 12 Bigelow Court NTCRA Work Plan	FZN9	11/22/10, 12/23/10	✓ ✓	12/14/10, 03/11/11	04/08/11	05/08/11							TBD		TBD	05/21/11	05/31/11	06/17/11	
	RPM: Anthony Konzen																			
	PM: Pete Bourgeois																			

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						Date Due	DTSC	WATERBOARD	EPA	TIDA						RAB		OTHER	Priority Level			
<b>Tetra Tech EM Inc.</b>																						
10	<b>Site 24 PP/RAP</b> RPM: Danielle Janda PM: Jean Michaels	083	01/28/11* 02/18/11**	✓ ✓	02/04/11* 03/14/11**	✓ ✓	04/29/11	05/29/11									06/26/11	TBD	07/27/11	08/10/11	08/24/11	* Navy technical review ** Navy legal review
	<b>Site 29 Boundary Change Letter</b> RPM: Scott Anderson PM: Marcie Rash		FZN6	4/27/10* 6/8/10**	✓ ✓	5/4/10* 7/9/10**	✓ ✓	07/13/10	07/30/10	✓	X	X	✓	✓				NA	NA	12/08/10	12/15/10	12/22/10
11	<b>2010 Finding of Suitability to Transfer (FOST)</b> RPM: Scott Anderson PM: Marcie Rash	039	08/09/10	✓	09/02/10	✓	09/28/10	11/03/10	✓	✓	✓	✓					12/08/10	01/05/11	01/21/11	02/02/11	02/13/11	DTSC (10/26), EPA (11/1), WB (11/8), TIDA (11/2)
	<b>Island Times Newsletter #17</b> RPM: Jim Sullivan PM: Marcie Rash		FZN6	08/31/10	✓	02/25/11	✓	03/01/11	03/22/11									NA	NA	04/01/11	04/08/11	04/25/11
13	<b>Site 33 Explanation of Significant Differences (ESD)</b> RPM: Lora Battaglia PM: Jean Michaels	489	09/30/10* 11/08/10**	✓ ✓	10/25/10* 12/16/10**	✓ ✓	12/30/10	01/31/11	✓	✓	✓						02/28/11	03/14/11	03/30/11	04/09/11	04/23/11	* Navy technical review ** Navy legal review DTSC (1/24), TIDA (2/4), WB (2/4)
	<b>FOST Addendum (to 2006 TI/YBI documents)</b> RPM: Scott Anderson PM: Marcie Rash		039	TBD		TBD		TBD	TBD									TBD	TBD	TBD	TBD	TBD
<b>Chadux Tetra Tech</b>																						
15	<b>Site 12 RI Report</b> RPM: Tony Konzen PM: Yohji Ono	049	02/21/11		04/01/11		05/01/11	05/31/11									06/28/11	TBD	07/28/11	08/07/11	08/21/11	
	<b>Site 21 PP/RAP</b> RPM: Danielle Janda PM: Jean Michaels		083	04/09/10* 05/20/10**	✓ ✓	05/09/10* 11/12/10**	✓ ✓	12/16/10	01/15/11	✓	✓	✓	✓	✓				02/12/11	TBD	03/14/11	03/25/11	04/08/11
17	<b>Site 27 PP/RAP</b> RPM: Lora Battaglia PM: Katie Henry	084	11/10/10* 01/06/11**	✓ ✓	12/29/10* 1/27/11**	✓ ✓	02/10/11	03/12/11									04/09/11	04/23/11	05/09/11	05/19/11	06/02/11	* Navy technical review ** Navy legal review
	<b>Well Removal Work Plan</b> RPM: Tony Konzen PM: Yohji Ono		044	10/22/10 11/19/10	✓ ✓	11/04/10 11/29/10	✓ ✓	12/10/10	01/11/11	✓	✓	✓	✓					TBD	TBD	01/28/11	02/11/11	02/25/11

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						Date Due	DTSC	WATERBOARD	EPA	TIDA	RAB							OTHER
<b>Trevet</b>																		
19	<b>Site 30 2010 LUC Inspection and Reporting</b>	9002	03/17/11	03/31/11	04/14/11	05/14/11							05/21/11	NA	05/21/11	05/24/11	05/28/11	
	RPM: Scott Anderson PM: Greg Alyanakian																	
20	<b>2010 Sites 6 &amp; 12 Annual Groundwater Sampling Report</b>	9002	02/23/11	04/08/11	05/04/11	06/15/11							08/01/11	TBD	08/08/11	08/15/11	08/22/11	
	RPM: Tony Konzen PM: Greg Alyanakian																	
<b>ERRG</b>																		
21	<b>Site 6 RI/FS Report</b>	:	04/25/11	05/26/11	06/09/11	07/09/11							08/06/11	TBD	09/05/11	09/15/11	09/29/11	
	RPM: Tony Konzen PM: Phil Skorge																	

Abbreviations:

- ✓ Production or review of document is complete.
- X Received notification of no comments or comments deferred to other agency.

Grey shading indicates the document is finalized.

Blue shading indicates agency review comments are due within the next 60 days or are outstanding.

Yellow shading indicates documents that will be issued draft or final within the next 60 days.

- Bldg = Building
- Caltrans = California Department of Transportation
- CTO = Contract task order
- DHS = Department of Health Services
- DO = Delivery order
- DTSC = Department of Toxic Substances Control
- EU = Exposure unit
- HERD = Human Ecological Risk Division
- HSP = Health and safety plan
- LUC = Land use covenant
- NA = Not applicable
- PCB = Polychlorinated biphenyls
- PM = Project manager
- PP = Proposed plan
- RAP = Remedial action plan
- RASO = Radiological Affairs Support Office
- RI = Remedial investigation
- ROD = Record of decision
- RPM = Remedial project manager
- SAP = Sampling and analysis plan
- TBD = To be determined
- TICD = Treasure Island Community Developers
- TIDA = Treasure Island Development Authority
- Water Board = Regional Water Quality Control Board

**Naval Station Treasure Island  
Navy Field Schedule  
February 2011 - July 2011**

Item	Activity & Investigation Area	DTS #	Field Dates		Navy RPM	CTO/DO	Project Manager	Field Team Lead	Complete
<b>Shaw</b>									
1	Non-Time Critical Removal Action <i>Site 12</i>	Doc NA	Start: Finish:	02/26/07 TBD	Tony Konzen (619) 532-0924	010	Pete Bourgeois (415) 277-6983	Pete Bourgeois (415) 277-6983	
2	Arsenic in Groundwater Pilot Study <i>Site 12</i>	Doc NA	Start: Finish:	11/10/08 TBD	Scott Anderson (619) 532-0938	FZN1	Pete Bourgeois (415) 277-6983	Pete Bourgeois (415) 277-6983	
3	Site 31 Remedial Action <i>Site 31</i>	Doc 8	Start: Finish:	TBD TBD	Lora Battaglia (619) 532-0968	FZN9	Pete Bourgeois (415) 277-6983	Pete Bourgeois (415) 277-6983	
4	Building 233 Screening and Demolition <i>Building 233</i>	Doc NA	Start: Finish:	07/26/10 TBD	Tony Konzen (619) 532-0924	010	Pete Bourgeois (415) 277-6983	Pete Bourgeois (415) 277-6983	
5	Sites 21, 24, & 32 Groundwater Sampling <i>Sites 21, 24, &amp; 32</i>	Doc 5	Start: Finish:	02/21/11 TBD	Danielle Janda (619) 532-0796	002/ 005	Pete Bourgeois (415) 277-6983	Pete Bourgeois (415) 277-6983	
	Site 25 Soil Gas Sampling <i>Site 25</i>	Doc NA	Start: Finish:	11/03/10 01/31/11	Scott Anderson (619) 532-0938	FZN1	Pete Bourgeois (415) 277-6983	Pete Bourgeois (415) 277-6983	✓
<b>Trevet</b>									
	Site 30 LUC Inspection <i>Site 30</i>	Doc 19	Start: Finish:	01/31/11 01/31/11	Scott Anderson (619) 532-0938	9002	Greg Alyanakian (858) 869-3110	Greg Alyanakian (858) 869-3110	✓
6	Site 6 Groundwater Sampling <i>Site 6</i>	Doc NA	Start: Finish:	02/24/11 02/24/11	Tony Konzen (619) 532-0924	9002	Greg Alyanakian (858) 869-3110	Greg Alyanakian (858) 869-3110	
<b>EMS</b>									
7	Site 12 Removal Action Soil Sampling <i>Site 12</i>	Doc NA	Start: Finish:	12/05/07 TBD	Tony Konzen (619) 532-0924	NA	Dawn Roarty (916) 919-4785	Salem Attiga (925) 939-0687	

Abbreviations:

CTO/DO Contract task order/delivery order

DTS # The number listed corresponds to the associated documentation listed on the Document Tracking Sheet.

NA Not applicable, there is no associated documentation listed on the DTS.

LUC Land use covenant

RPM Remedial project manager

TBD To be determined

✓ Field work is complete.

Yellow shading indicates field activities that will start or finish within the next 60 days.

Grey shading indicates field activities are complete.