



# FINAL

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

Meeting # 141

21 APRIL 2009

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

Nathan Brennan, John Gee, Dale Smith

### **Regulatory Agency, City of San Francisco (City), and U.S. Department of the Navy (Navy) RAB Members in attendance:**

James Sullivan (Navy), Ryan Miya (Department of Toxic Substances Control [DTSC]), Ross Steenson (San Francisco Bay Regional Water Quality Control Board [Water Board])

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

Scott Anderson (Navy) Pete Bourgeois (Shaw Environment and Infrastructure [Shaw]), Tommie Jean Damrel (Tetra Tech EM Inc. [Tetra Tech]), Grady Gordon (Navy), Campbell Merrifield (Tetra Tech), Charles Perry (Navy)

### **Public Guests**

Centuria Armstry (resident), Leo Cassidy (Gaelic Athletic Association), Scott Kosloski (resident), Patrick Leue (resident), Bart Rugo (resident), Pat Uniacke (Gaelic Athletic Association)

### **Welcome Remarks and Introductions**

James Sullivan (Base Realignment and Closure [BRAC] Environmental Coordinator) opened the 21 April 2009 meeting at 7:01 P.M. at the Casa de la Vista (Building 271) on Treasure Island (TI). The meeting agenda is Attachment A.

Mr. Sullivan welcomed those in attendance, and stated the meeting materials had been mailed out the week prior to the meeting, and all of the presentation handouts were available on a back table.

### **Public Comment and Announcements**

Mr. Sullivan stated there are two public comment periods included in the RAB agenda to provide members of the public an opportunity to comment on the Navy's environmental program at NAVSTA TI – one at the start of the meeting and one near the end. Mr. Sullivan added that attendees are also encouraged to ask questions or make comments at any time during the meeting. There were no public comments or announcements, so Mr. Sullivan proceeded to the next agenda item.

**Field Activities Update, Sites 32, 21, 24, and Site 12 Arsenic in Groundwater**

Mr. Sullivan introduced Scott Anderson (Navy) to provide an update on various field activities. (Attachment B). Mr. Anderson stated he would talk about three field activities, beginning with Site 21. Shaw is conducting a bioremediation project at this site for volatile organic compound (VOC) contamination. He stated Shaw had conducted high-pressure injection of substrate at different depth intervals at the site. Then he showed a figure on the screen, not included as a handout but included with the minutes, (Attachment C) indicating the direct-injection points where Shaw had injected the substrate which included a proprietary solution with microorganisms, known as SDC-9.

Mr. Anderson stated Shaw had completed their first round of groundwater monitoring in March 2009, and the Navy had received the analytical results the day prior to the RAB meeting. Mr. Anderson noted the Navy only had preliminary data and were reviewing it, then would share it with the Base Realignment and Closure (BRAC) Cleanup Team [BCT]. Mr. Anderson stated Shaw and the Navy would continue to monitor the groundwater at Site 21 on a quarterly basis, the next monitoring event being in June 2009.

Dale Smith (RAB member) asked for clarification that the Navy has seven monitoring wells in place to verify the plume of contamination is not deformed by the high-pressure injection. Mr. Anderson confirmed there are seven monitoring wells. Ms. Smith asked if the Navy and their contractors were monitoring those wells located on the plume more frequently than quarterly. Mr. Anderson responded the wells within the plume were not monitored while the team was doing the direct injection. However, the Navy has wells outside the perimeter of the plume as well as inside the center of the plume, and they were all monitored within a month after the direct injections. Now that the direct injections are complete, the wells will be monitored quarterly and samples will be tested for the entire suite of analytes.

Ms. Smith said she has seen where other contractors, not Shaw, had mounding of four to six feet because injections were not calibrated correctly for soil conditions. Ms. Smith noted that mounding had happened at other military sites, and is of concern to her.

Mr. Anderson stated the Navy and their contractors had considered that, and had begun the direct injection on the outside of the boundary and at depth where the levels are 100 parts per billion (ppb) (because they are treating all areas that are 100 ppb or higher). Starting at the outside of that plume would only push the contamination back towards the center of the plume, rather than spread it out or push it down further.

Mr. Bourgeois added that an earlier study had been done in this area, and there was contamination remaining beneath the trailer and deck at the site. So a 3-dimensional model of the plume was done, and that confirmed the contaminants are at-depth beneath the trailer. Shaw did sampling to confirm the exterior boundary of the plume has not expanded. Mr. Bourgeois stated the Navy uses the exterior monitoring wells as bio barriers, similar to what they do at Site 24.

Ms. Smith stated she wanted to confirm that the Navy was not hitting the plume really hard with everything they can in order to address the plume, and then winding up with mounding and liquid backing up through the wells.

Mr. Bourgeois stated that when Shaw was doing the direct injections they varied their psi (pounds per square inch) pressure to avoid mounding. He noted there was no mounding at any of the injection points, and no water flow coming back up into the well.

Mr. Anderson moved on to his update of Site 24. He noted that at Site 24 Shaw had completed the injection of the SDC-9 and the substrate into 30 bio-barrier wells on the outside of the plume on 7 April 2009. These outside wells serve as a secondary containment for the plume. Mr. Anderson said Shaw injected 2,000 gallons into each bio-barrier or test well location, most of which are on the southern and eastern portions of the plume. The team had completed the construction of all the piping within the source area, just south of Building 99. Mr. Anderson noted the recirculation of the substrate is ongoing within that source area.

Mr. Anderson stated the Navy and Shaw are currently setting up the other three recirculation loops, which are in the downgradient portion of the plume. The system for loop 1 was completed the week prior to this RAB meeting, and a test to verify it is working was completed. The set-up for the other loops would begin 30 April and would extend into early May. Mr. Brennan asked for clarification on the specific areas Mr. Anderson was referring to. Mr. Anderson clarified by indicating on a map the location of the source area, in which recirculation was currently active; area 1, in which the recirculation loop is set up and a test has been completed to verify it is working; and areas 2 and 3, in which the recirculation system still needs to be built. He noted all three areas would have the recirculation system running at the same time, starting sometime in May when the systems are ready.

Mr. Bourgeois explained that there had been vandalism in some areas on NAVSTA TI, especially the removal of copper. So Shaw has to inspect every well that is being used in the recirculation loops to verify they have not been vandalized, and to repair them if they have.

Mr. Anderson showed some photographs of the tanks Shaw used to do the bio-barrier well injections, and the pumps used to regulate the psi of the injections.

Mr. Anderson moved on to the update for Site 32, located on the northeast corner of TI. He noted there are no current field operations, but a work plan had been issued for regulatory agency review, and the Navy and Shaw are currently preparing a response to agency comments. Mr. Anderson then reviewed two figures for Site 32 (Attachment D). The first figure showed the various areas and depths of the planned excavation, along with the analytes that will be tested. Ms. Smith asked if there would be a list of new analytes the laboratory is testing for. Mr. Bourgeois stated there would not be a new analyte list; the analyte list is a compilation of previous trenching, hydro punches, and other analysis with results of analytes above the screening criteria.

The Navy looked at the data from samples that were gathered, and used it to determine the appropriate depth of excavation, which ranges from 2-foot to 9-foot below grade in different areas, depending on where the samples exceeded screening criteria. Mr. Bourgeois stated some contaminants on the analyte list are polychlorinated biphenyls (PCB), dioxin, total-petroleum hydrocarbons (TPH), and metals.

Ms. Smith pointed out Building 371 on the map and asked if that is the old Pandemonium training ship site. Mr. Bourgeois confirmed that is correct. Mr. Anderson stated that site is now just a foundation. The Navy plans to remove that entire foundation and then excavate down two feet below ground surface, then take confirmation samples on the sidewalls and bottom of that excavation.

Mr. Anderson then showed the second figure related to Site 32, indicating how the Navy and Shaw intend to stockpile the soil that is excavated (Attachment E). The excavated soil will be stockpiled adjacent to Site 32, in a small area just north of the water treatment plant. Then clean soil will be stored just north of Building 570, the Shaw office. Mr. Bourgeois stated the goal is not to impact any other areas of NAVSTA TI with soil stockpiles.

Mr. Anderson moved on to the update of the Site 12 arsenic in groundwater treatability study. He stated there are test wells in the ground, and Shaw is in the process of conducting pre-sparg ambient air and vadose zone sampling in those well locations. He stated the project has been on-hold for two months because of rainy weather. Because the weather has been wet, the shallow groundwater in that area was coming up into the sampling equipment. The field team is waiting for dryer weather and for the groundwater level to drop some. He stated the team hopes to complete the sampling at the wells within the next two to four weeks. He then showed some photographs of the sampling equipment.

Ms. Smith asked if any of the site neighbors had complained about disruption from the project. Mr. Anderson stated there had been no complaints.

Bart Rugo (resident) asked what the completion date for the work at Site 32 would be. Mr. Anderson stated the team would be in the field for about two months. Then there will be some downtime while samples are analyzed and the BCT reviews the data before the team goes back out to backfill the excavations. So the whole event is anticipated to be about a two and a half month process.

### **Site 12 (TI Housing Area) Removal Action and Access Update**

Mr. Sullivan gave the floor to Mr. Bourgeois to provide the Site 12 Housing Area update. Mr. Bourgeois stated the soil removal operations at two of the three solid waste disposal areas (SWDA) had been completed, and removal at SWDA A&B still needs to be completed.

He stated the project has been delayed because Shaw detected elevated alpha readings in some areas of the concrete driveway of Building 1321 and in soil. The Navy has already reported that there have been detections of radium-226 in different items found in the soil within the excavation footprint, but because of the new alpha detections, the Navy and Shaw are reviewing the safety precautions for the work to ensure safety of the workers. To do that, Shaw is completing an update to the Radiation Protection Plans (RPP) and a radiation work permit (RWP). The RWP includes surveys of SWDA A&B which is the Westside Drive Area, as well as Site 6 where soil from Site 12 had been temporarily stored, which is across the street from the Water Treatment Plant. Mr. Bourgeois stated the Radiological Sampling and Analysis Plan (RSAP) would include the RWP surveys, standard operating procedures, and an update to the memorandum of understanding (MOU). The MOU is an agreement between New World Technology, which is the radiological subcontractor to Shaw, and EMS, which is the Army's disposal contractor.

Ms. Smith asked why there was a change in the MOU. Mr. Bourgeois stated it is being updated due to the surveys being conducted at Site 6. More of the work will be handed over to EMS because Shaw is no longer stockpiling soil at Site 6, it will all go into bins. Currently EMS is able to only go into a small corral to sample. That will change to allow them to go to other areas and complete all the work they need to complete.

Mr. Bourgeois showed a figure of SWDA A&B indicating the depth of the excavations that have begun. The depths range from areas that have not been started yet, down to four feet below grade. More work will be conducted once the RSAP/RPP has been approved by the Navy's Radiological Affairs Support Office (RASO).

In the interim, while Shaw was awaiting final approval of the RSAP, they began surface walkovers. Mr. Bourgeois stated they began at Northpoint Drive and used a 2X2 sodium iodide gamma detector, with attached global positioning system (GPS), which looks like a baby carriage. The surface scans are being conducted outside the excavation area. They use the detector to collect data and verify there are no radiological issues.

Mr. Bourgeois stated only one anomaly was found, between Buildings 1244 and 1246. A steel trench plate has been placed over that anomaly to prevent public access to it. Readings were taken to confirm that someone can walk up to the trench plate and be protected from the anomaly. John Gee (RAB member) asked how deep the detector could read. Mr. Bourgeois stated it can detect down to one-foot depth. Mr. Sullivan stated that not detecting anomalies with the surface walkover outside of the SWDAs is indicative that there may not be anomalies outside of the SWDAs at any depth, and that is part of what the Navy is trying to verify.

Mr. Sullivan stated that all of the information gathered will ultimately be rolled up into a radiological final status survey, which may entail going out and doing additional work. The Navy will put together a work plan that will be reviewed by the BCT and the RAB. Mr. Sullivan stated the Navy and Shaw will, if necessary, collect some supplemental information and put together a draft final status survey that will then again be reviewed, and then they will finalize that document. Mr. Sullivan added that the Navy and their contractors have gone through the final status survey process for several other buildings on NAVSTA TI, so they have experience completing the process.

Mr. Bourgeois reiterated that within the entire Northpoint Drive area only one anomaly had been found, and that one detection indicates that if something is present, the field team is detecting it. Ms. Smith asked if the entire Northpoint Drive area had been scanned, and Mr. Bourgeois stated it had, minus the backyards. He stated that the scanning on Bayside Drive had also begun, but he did not have a figure yet showing exactly where the rest of the scanning had been completed.

Mr. Bourgeois showed a photograph of the detector. A field technician using the scanner walks at about a half a meter per second, which is roughly about a 1 mile per hour pace. The instrument will detect anything in a foot of soil to let the team know if there is some elevated detection or some anomaly that potentially could create an issue.

Mr. Bourgeois stated the current timeframe for completion of the SWDA soil removal project is approximately July or August 2009, though that date may slip while the team is still finalizing the documentation he discussed earlier.

Mr. Brennan asked why Site 6 was put on the new RWP, and if that was because that is a storage area for soil, or if there was radiological anomalies found there. Mr. Bourgeois stated Site 6 is part of the RWP only because of the soil being stored there; there are no detections for radiological anomalies at Site 6. However, Site 6 has always been part of the RWP because they have been storing soil there throughout this removal action.

Patrick Leue (resident) stated he had seen the detector being used on the perimeter of some buildings. He asked what the range of detection is, and asked how the device would work if it were used in an open area, such as the yard of a resident. Mr. Bourgeois stated the detector is two feet by two feet, and detects about within a one-foot square of the instrument itself. The field technician walks back and forth in a grid to scan the entire area. Mr. Leue asked if the team is planning to scan backyards. Mr. Bourgeois stated the Navy and Shaw may scan backyards, and noted there is a lot of coordination associated with that, so he does not know what the timing of that might be. He stated the backyards on Norhtpoint Drive had not yet been scanned. Mr. Leue asked what time frame might be. Mr. Bourgeois stated any scanning of backyards would likely take place over the next several of months, but he did not have more specific information.

Mr. Gee asked where the anomaly came from. Mr. Bourgeois stated that since Shaw does not have a finalized and approved RSAP they cannot do any intrusive work. So they have not excavated or inspected the anomaly in any way; they placed the trench plate on it, as mentioned earlier. He added that the anomaly is low-level. The estimate is that the anomaly is about six inches deep, but that has not been confirmed. With the trench plate as a barrier, no one will be able to access the anomaly.

Mr. Bourgeois then discussed a figure of Perimeter Road, with a current update of access to the road. He noted the areas in blue are control areas, or locations where access is restricted. The area around Building 461 and Site 6 are controlled, because it is being used as a buffer zone and work area for the current removal action. Mr. Bourgeois noted the remainder of Perimeter Road has been opened for public access, and he expects it to remain that way.

Bart Rugo (resident) stated he has an issue with the area around Building 461 and Site 6. He noted there is a fence that the Navy and Shaw opened to allow the public access to the jetty for fishing and the boat ramp for windsurfing access. However, members of the public are driving their vehicles through the area on what is really a service road. He is concerned about public safety because of the speed of drivers, as well as fire danger since it is not a paved road meant for public access. Mr. Rugo stated there is no sign that specifically tells people not to drive up into that area, so when he and his neighbors ask people not to do it,

they are met with resistance. Mr. Rugo asked if the Navy and Shaw could secure the area and post signage. He added that while the residents do not mind having windsurfers use the area, they are not enthused about it, especially if there are safety hazards with them using the area as a parking lot.

Mr. Sullivan stated that, for the environmental program, the Navy only fences off what must be fenced off to accommodate their work or other restrictions. The area that Mr. Rugo is talking about is a pre-existing opening in the fenced area. Mr. Sullivan stated the Navy's Caretaker Site Office on NAVSTA TI is aware of the problem of the public driving up the maintenance road, and has mentioned it to the Treasure Island Development Authority (TIDA). Mr. Rugo stated he had mentioned it to TIDA as well, but thought he would mention it to the Navy since he was planning to come to this RAB meeting.

Mr. Sullivan stated the Navy cannot put up a fence in the area because it does not need to be fenced for environmental reasons. However, he will pass along the concern to TIDA. The Navy's CSO coordinates with TIDA on day-to-day municipal type issues on the base, such as fire, police, roads, and buildings, and the Navy will follow-up on this issue with TIDA.

There were no further questions, so Mr. Sullivan moved on. He noted that there were several new attendees to the meeting, and encouraged guests to sign-in to receive updates about future meetings. Mr. Sullivan noted the agenda items including updates on field work had already been covered, but encouraged guests to ask questions on any site if they have any other interests related to the environmental program. He also stated attendees could talk to the Navy or the regulatory agency representatives after the meeting.

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

#### **Documents**

Mr. Sullivan introduced Campbell Merrifield (Tetra Tech) to review the Document Tracking Sheet (Attachment F) and the Field Schedule Sheet (Attachment G). Ms. Merrifield referred to two handouts, and said she would present the documents that have comments due in the next 60 days:

- Draft Remedial Action Work Plan for Site 33, 8 June 2009
- Draft 2008 Annual Groundwater Sampling Report for Sites 6 and 12, 9 June 2009

Ms. Merrifield added that the Draft Site Management Plan is currently out for comment, with comments due 17 May, 2009. She noted the RAB had stated they do not need to see a draft of this annual update each year. Mr. Sullivan held up a copy of the document to remind the RAB what it looks like. Ms. Smith said she is still fine with not receiving the draft of that document.

### **Field Schedule**

Ms. Merrifield noted there the field schedule reports activities within the next sixty days. In addition to the ongoing removal action at Site 12, Ms. Merrifield noted the Site 32 PCB Soil Abatement is scheduled to begin 11 May 2009.

### **August and December 2008 and February 2009 RAB Meeting Minutes**

Mr. Sullivan began with the February 2009 meeting minutes, which were emailed and mailed out hard copy in the packet for this meeting. Ms. Smith stated she had already provided minor electronic comments to those minutes. It was voted to accept the February 2009 RAB meeting minutes as final, with incorporation of comments from Ms. Smith.

Mr. Sullivan then moved on to the December 2008 RAB meeting minutes. Tommie Jean Damrel (Tetra Tech) noted that some RAB members had provided comments on those minutes at the February 2009 RAB meeting. Those edits were provided for all RAB members to see. It was voted to accept the December 2008 RAB meeting minutes with changes provided.

Mr. Sullivan stated the August 2008 RAB meeting minutes had been revised to clarify which contractor was doing the work, and were sent out as draft again for review via email. Ms. Smith stated she had a few minor comments on the update. She added that she appreciates the format that says specifically who is doing the work. It was voted to accept the August 2008 RAB meeting minutes as final, with all changes accepted.

Mr. Sullivan moved on to the October 2008 meeting minutes. He noted they had not been distributed to the RAB yet, but stated he would get them out as soon as possible. The meeting was much longer with more presentations, so the minutes will be longer to keep the same level of detail for each presentation.

Mr. Sullivan thanked the RAB members for the time and effort to review all of the meeting minutes. He also thanked Tetra Tech for their work to produce the minutes, and Shaw as well as other contractors and Navy staff who review the minutes.

### **Co-Chair Announcements**

Mr. Sullivan noted the community Co-Chair, Alice Pilram, was unable to attend the meeting. Mr. Sullivan stated he did not have any specific updates and would move on to the next agenda item.

### **BRAC Cleanup Team Update**

Mr. Sullivan gave a brief update on the two BCT meetings held since the last RAB meeting, one in March and one in April. He noted both of the meetings were fairly routine, half-day meetings.

In March, the team talked about additional samples that had been collected at Site 25, which is a petroleum site. Based on comments the Navy received on site close-out documentation, the Navy decided to collect samples, so it was briefly discussed. The team also discussed responses to comments received on the Draft Records of Decision for Sites 30 and 31.

In April, the team had regular updates on field activities. The BCT also prepared for this RAB meeting, and for an extended BCT meeting planned for early May in San Diego. Mr. Sullivan noted the BCT typically holds one or two meetings a year in San Diego to allow additional people in the San Diego office to attend, and to provide time for an extended agenda. The group also discussed the Site Management Plan, and the possibility of holding an open house for the community to discuss the wrap-up and next steps for the investigation in the Housing Area.

Mr. Sullivan noted that two regulatory agency representatives, Ryan Miya and Ross Steenson, were present at this RAB meeting if anyone would like to talk to them directly.

#### **Other Public Comments and Announcement**

Mr. Brennan provided a brief update on the Citizen's Advisory Board (CAB), of which he is a member. He stated the CAB last met on 7 April, 2009. TIDA has a consultant looking at the on and off-ramps for the new eastern span of the Bay Bridge, to find a way to make the ramps meet the new guidelines for acceleration and deceleration length. Mr. Brennan noted some designs have been prepared to integrate the ramps with future traffic patterns, and to bring bike and pedestrian lanes onto Treasure Island.

Mr. Brennan stated he has those designs if anyone would like to see them. He noted that one of the ramps could wind up being within 15 feet of the Nimitz House, and about 30 feet above it. He stated that is unfortunate, but seems to be the best solution currently to designing the ramps the way they need to be. Mr. Brennan noted the cost for the ramps would be \$12 million to design and \$17 million to build. Mr. Brennan stated the City of San Francisco hopes to finalize the design for the ramps in sync with the timing when Caltrans will tear down the old structure.

Mr. Brennan stated the next CAB meeting would be the first Tuesday in May, and encouraged people to look at the CAB's website in case the schedule changes.

Mr. Sullivan asked if there were any other comments or announcements. Ms. Smith stated she had two comments. She noted it was distressing to hear of a system installed by a contractor being vandalized. She stated TIDA should have

a better handle on vandalism on NAVSTA TI, noting a building from 1938 had also been burned down. Mr. Brennan explained that the CAB is focused solely on redevelopment, similar to the way the RAB is focused on environmental cleanup. The CAB is not involved with day-to-day operations, and Ms. Smith should mention that to TIDA directly. Mr. Sullivan stated that the Navy listens to community concerns and the Navy CSO coordinates directly with TIDA. So the Navy would take such RAB concerns to TIDA. Mr. Sullivan added that vandalism is not unique to NAVSTA TI, and happens at other facilities, both active and inactive. The Navy hires security, but with professional thieves it is difficult to keep watch all of the time. He added that TIDA and the SFPD do the best they can to patrol the island.

Mr. Anderson stated that since the field work at Site 24 has begun, the Navy has increased security, such as motion-sensor lights and security patrols. Mr. Sullivan added that the Navy is trying to strike a balance between spending resources on security and on the actual environmental work. At some point having too high a level of security takes so many resources that the cost would be greater than that of replacing something that might be vandalized.

Ms. Smith stated her second comment is for Shaw. She noted that at former Naval Air Station Alameda Point, RASO came to the RAB meeting and stated that a staff person was walking around with a Geiger counter on in an area that was not being surveyed, and discovered a radiological anomaly. RASO stated the conditions were under control. The Navy at Alameda Point is under scrutiny from the RAB because they are not doing sweeping scans for radiological materials. Ms. Smith stated the fact that the Navy at NAVSTA TI is going through the Housing Area is a relief to her.

Mr. Bourgeois stated the Navy has been very proactive with radiological scans at NAVSTA TI, because after this removal action is done they will be doing Multi-Agency Radiation Survey and Site Investigation Manual (MARSSIM) 2 and 3 final status surveys. Charles Perry (Navy) stated that he does not know the particular situation at Alameda Point, but that for NAVSTA TI, the team used an Historical Radiological Assessment (HRA) as guidance for where to scan for radiological materials. The SWDAs were specifically listed in the HRA as possibly having radiological issues, so that is why the Navy and their contractors did the initial scans at the beginning of the project. Then they found something that instigated the robust program that is currently in place.

Mr. Perry stated there was a process that included using guidance and a knowledge of the history of the site to further the investigation, all in a step-by-step process to get to this point. Mr. Perry stated the Navy must always start with historic data, whether it be for chemical or radiological constituents. Ms. Smith stated that NAVSTA TI is also a much cleaner site and was used for less

industrial activity than other locations in the Bay Area, such as NAS Alameda Point, or the former Mare Island Naval Shipyard in Vallejo. She added she is glad that the Navy is scanning the housing area, since people are living there.

### **Future Meeting Agenda Items**

Mr. Sullivan stated the Navy would like to have a site tour during the hour prior to the next RAB meeting. He noted that the summer meetings are the best opportunity for such a tour because there is still daylight at that time. So the meeting begins at 7:00 p.m., and a tour would start at 6:00 p.m. Mr. Sullivan stated another tour could be held before the August meeting if the group deems it appropriate.

Ms. Smith asked if it would be possible to see the work on Yerba Buena Island (YBI), including possibly the Nimitz House. Mr. Sullivan stated the access on YBI is limited because of Caltrans construction of the new span of the bridge and the temporary bypass. The Navy may be able to get to the Nimitz House and possibly point out where Sites 8, 11, and 29 are. Mr. Sullivan noted that one hour is not a lot time and may limit what the group can see. He asked if anyone would be interested in starting the tour earlier. Ms. Smith stated she could not commit to arriving before 6:00 p.m. this far in advance. It was agreed to pencil-in 6:00 p.m. for the site tour, and revisit it on the RAB planning conference call prior to the June RAB meeting.

Mr. Brennan asked Mr. Sullivan if he would be addressing the CAB in June, and Mr. Sullivan stated he may. Mr. Brennan stated some of the CAB members may come on the site tour. Mr. Sullivan encouraged participation and stated the Navy will be using a large van for the tour and there should be plenty of room.

There were no other future agenda items. Mr. Sullivan stated the Navy would present whatever is timely. Mr. Sullivan noted the next meeting is scheduled for Tuesday, 16 June 2009, at the Casa de la Vista. He also stated the next BCT meeting will be a day and a half, held in San Diego, on 6 and 7 May, 2009. Mr. Sullivan then thanked everyone for their attendance and closed the meeting.

### **April 2009 RAB Meeting Handouts**

- Attachment A: NAVSTA TI RAB Meeting No. 141 Agenda, 21 April 2009
- Attachment B: Field Activities, Sites 21, 24, and Site 12 Arsenic
- Attachment C: Figure 1, Expanded Treatability Study (map)
- Attachment D: Historic Investigation Results and Proposed Excavation Boundaries, Site 32 (map)
- Attachment E: Truck Staging and Route Map
- Attachment F: Document Tracking Sheet, 21 April 2009
- Attachment G: Field Schedule, 21 April 2009

NAVAL STATION TREASURE ISLAND  
ENVIRONMENTAL RESTORATION ADVISORY BOARD MEETING

Tuesday, 21 April 2009

7:00 PM.

**Casa de la Vista (Building 271)**

Treasure Island

**MEETING NO. 141**

- 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 - 7:25 **Field Activities Update**  
**(Site 32, Sites 21 and 24, and Site 12 Arsenic in Groundwater)**  
Lead: Pete Bourgeois, Shaw Environmental & Infrastructure
- 7:25 - 7:45 **Site 12 (TI Housing) Removal Action and Access Update**  
Lead: Pete Bourgeois, Shaw Environmental & Infrastructure
- 7:45 - 7:50 **Upcoming Documents and Field Schedule**  
Lead: Kevin Hoch, Tetra Tech EMI
- 7:50 - 8:00 **February RAB Meeting Minutes and Past Minutes**  
Lead: James Sullivan, Navy Co-Chair
- 8:00 - 8:05 **Co-Chair Announcements**  
Lead: Alice Pilram, Community Co-Chair
- 8:05 - 8:10 **BRAC Cleanup Team Update**  
Lead: James Sullivan, Navy Co-Chair
- 8:10 - 8:20 **Other Public Comment and Announcements**  
Lead: James Sullivan, Navy Co-Chair
- 8:20 - 8:25 **Future Meeting Agenda Items**  
Lead: Navy and Community Co-Chairs  
- Proposed June 16<sup>th</sup> 6:00 pm Site Tour
- 8:25 - 8:30 **Closing Remarks/End of Meeting**  
Break/Informal Discussion for 30 minutes after the meeting  
*This is an opportunity to informally discuss issues*

Next Regular Meetings:

No May 2009 Meeting

7 :00 pm Tuesday, 16 June 2009  
Casa de la Vista, Treasure Island

No July 2009 Meeting

7 :00 pm Tuesday, 18 August 2009  
Casa de la Vista, Treasure Island

Next Treasure Island Citizen's Advisory Board (CAB): See the web site for latest dates and times for future meetings: <http://www.sfgov.org/treasureisland>

Next Interim RAB Community Member Conference Call: **(Last Tues of pre-RAB month)**

**Tuesday, 26 May 2009, 7:00 pm.**

Call-In Number: 1- 800-475-8402

Participant Code: 17256

Next BCT/RPM/Project Team Meeting: 10:00 am. **Wednesday-Thursday 6-7 May 2009, Tetra Tech EMI, San Diego CA**

Navy BRAC Web Site: <http://www.bracpmo.navy.mil> (click on map for Treasure Island)

Navy San Diego Office Address:  
JAMES B. SULLIVAN  
DEPARTMENT OF THE NAVY  
BASE REALIGNMENT AND CLOSURE  
PROGRAM MANAGEMENT OFFICE WEST  
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# Naval Station Treasure Island

## Field Activities

Site's 21, 24, 32 and 12 Arsenic

April 21, 2009



## Site 21

- Completed the injection of SDC-9 and substrate.
- First round of groundwater monitoring was completed on the 23<sup>rd</sup> through the 25<sup>th</sup> of March.
- Will continue the monitoring of wells within the site and allow the substrate and SDC-9 to work.

## Site 24



- Injection of substrate and SDC-9 into 30 Bio-Barrier and temporary wells was completed on April 7<sup>th</sup>.
- A total of 2000 gallons of substrate was injected into each location.
- Reconstruction and operation of the source area system began April 6, 2009.
- Construction of the remaining plume area system is currently underway and start up operation will be in roughly 2 weeks (week of April 30<sup>th</sup>)

## Site 24



Addition of Lact-Oil to 21,000gallons of site water

Transfer of substrate from Frac. Tank to portable 4000gal. tank

## Site 24



Injection into individual locations throughout Site 24

## Site 32 Soil Remediation



- Shaw is currently completing the Response To Comments received from agencies.
- Reference figure for areas of use during the project.

## Site 12 Arsenic



- Conducting post-sparge ambient air and vadose zone sampling / tests have not yet been completed due to elevated groundwater levels at the site.

## Site 12 Arsenic



Work Site



**Questions?**



## Field Efforts Solid Waste Disposal Areas

April 21, 2009  
NAVSTA Treasure Island  
RAB Meeting



## Steps Toward Starting Work at SWDA A&B

- Revising Radiation Work Permit (RWP) to include new surveys of SWDA A&B fence-line and Site 6 Fence-Line. Completion of the Standard Operating Procedures (SOP) for radiation and Contamination Surveys.
- Revising the Radiological Sampling and Analysis Plan (RSAP)
  - Include RWP surveys data and figures
  - Include the updated SOP's
  - Include updated Memorandum of Understanding (MOU) between NWT and EMS (RAD soil removal contractor)

# Excavation Status at SWDA A&B



STATUS OF SWDA A&B EXCAVATION, OCTOBER 2, 2008



- LEGEND**
- 0 feet bgs surface
  - 1 foot bgs surface
  - 2 feet bgs surface
  - 3 feet bgs surface
  - 4 feet bgs surface
  - Backfill complete
  - Pothole
  - SWDA Boundary Fence

# Survey Work Completed Outside SWDA's



As of 3/25/09



Survey area completed outside of SWDA 1231/1233 with One Anomaly found, work continues to complete this area

## Survey Work Completed Outside SWDA's



- Walk Over Survey Completed using a 2X2 Sodium Iodide Gamma detector, with attached Trimble GPS
- Detector is kept at a fixed 10-centimeters above ground surface
- Walk over survey is conducted at a rate of ½ meter per second (roughly 1 mile per hour)



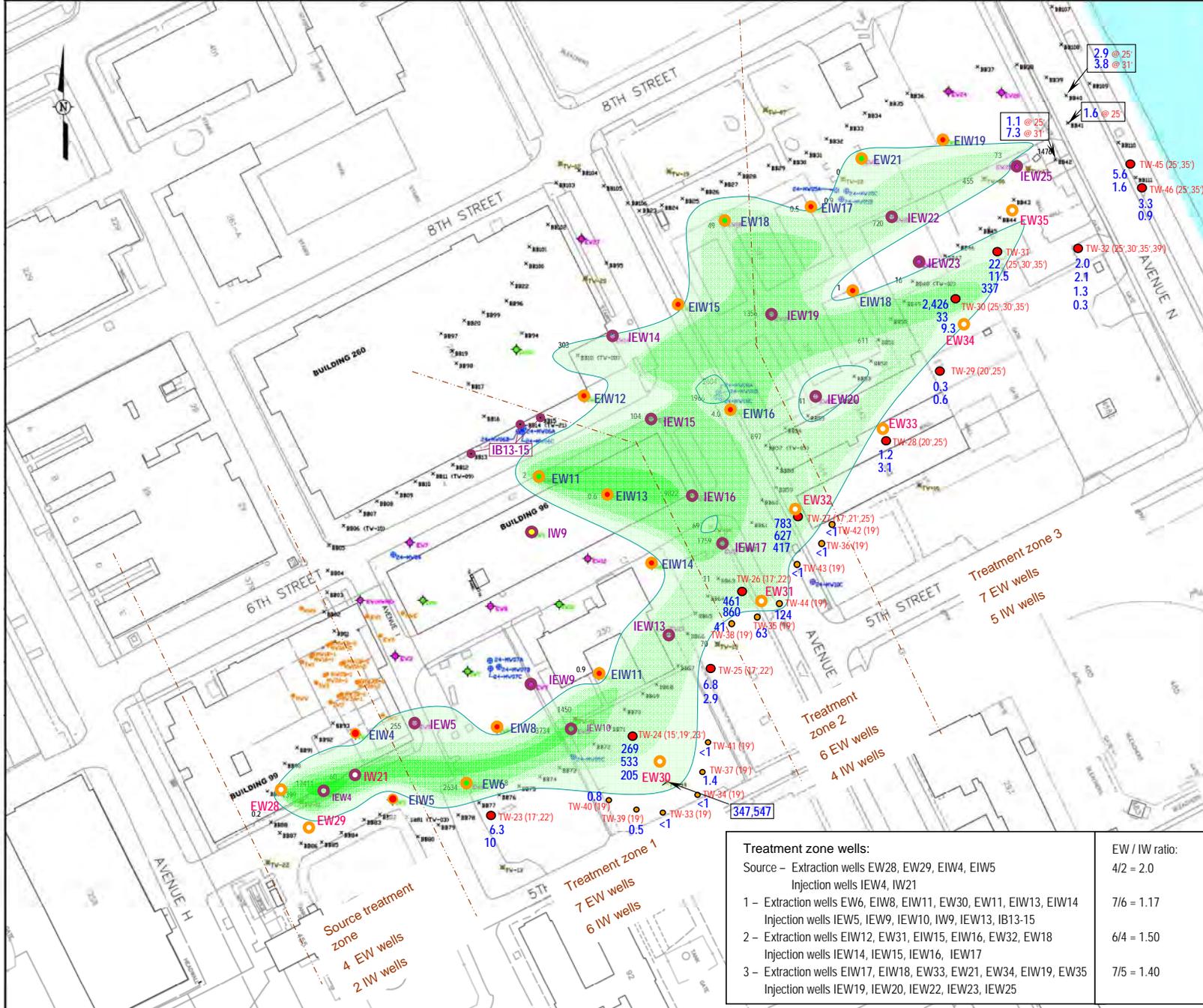
## SWDA Restoration



**Project Duration: Updated Current Forecast:**  
Excavation Work at SWDA A&B Started on September 25, 2007  
with an Estimated Completion Date of June 2009

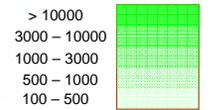
**Next Navy RAB Meeting:**  
The Casa De la Vista  
Tuesday, June 16th at 7:00 PM  
[James.b.sullivan2@navy.mil](mailto:James.b.sullivan2@navy.mil)

**Navy Web Site:**  
[www.bracpmo.navy.mil](http://www.bracpmo.navy.mil)



- LEGEND**
- ✕ TEMPORARY WELLS
  - ✕ BIOBARRIER WELLS
  - ◆ EXTRACTION WELLS
  - ◆ INJECTION WELLS
  - MONITORING WELLS
  - PILOT STUDY WELLS
  - TEMPORARY WELLS INSTALLED IN 2008

Total Chlorinated Ethenes Concentration, µg/L



Site 24 Treatability Study Treatment Goal

100 µg/L Total CE

6.8 Total CE, August - November 2008 sampling  
2.9

- New extraction well
- IEW30
- New injection well
- IW21
- Extraction well converted from injection well
- EIW14
- Injection well converted from extraction well
- IEW20
- Existing extraction well
- EW6
- Existing injection well
- IW9

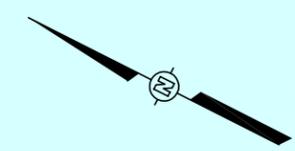


**Shaw** Shaw Environmental, Inc.  
DEPARTMENT OF THE NAVY, SOUTHWEST DIVISION  
NAVAL FACILITIES ENGINEERING COMMAND  
SAN DIEGO, CALIFORNIA

**Figure 1**  
**Site 24 Phase 2 Well Layout**  
**EXPANDED TREATABILITY STUDY**  
NAVAL STATION TREASURE ISLAND  
SAN FRANCISCO, CALIFORNIA

Treatment zone wells:	
Source - Extraction wells EW28, EW29, EIW4, EIW5	EW / IW ratio: 4/2 = 2.0
Injection wells IEW4, IW21	
1 - Extraction wells EW6, EIW8, EIW11, EW30, EW11, EIW13, EIW14	7/6 = 1.17
Injection wells IEW5, IEW9, IEW10, IW9, IEW13, IB13-15	
2 - Extraction wells EIW12, EW31, EIW15, EIW16, EW32, EIW18	6/4 = 1.50
Injection wells IEW14, IEW15, IEW16, IEW17	
3 - Extraction wells EIW17, EIW18, EW33, EIW21, EW34, EIW19, EW35	7/5 = 1.40
Injection wells IEW19, IEW20, IEW22, IEW23, IEW25	

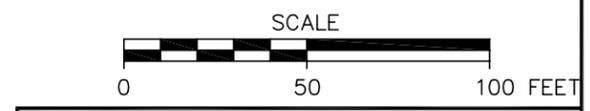
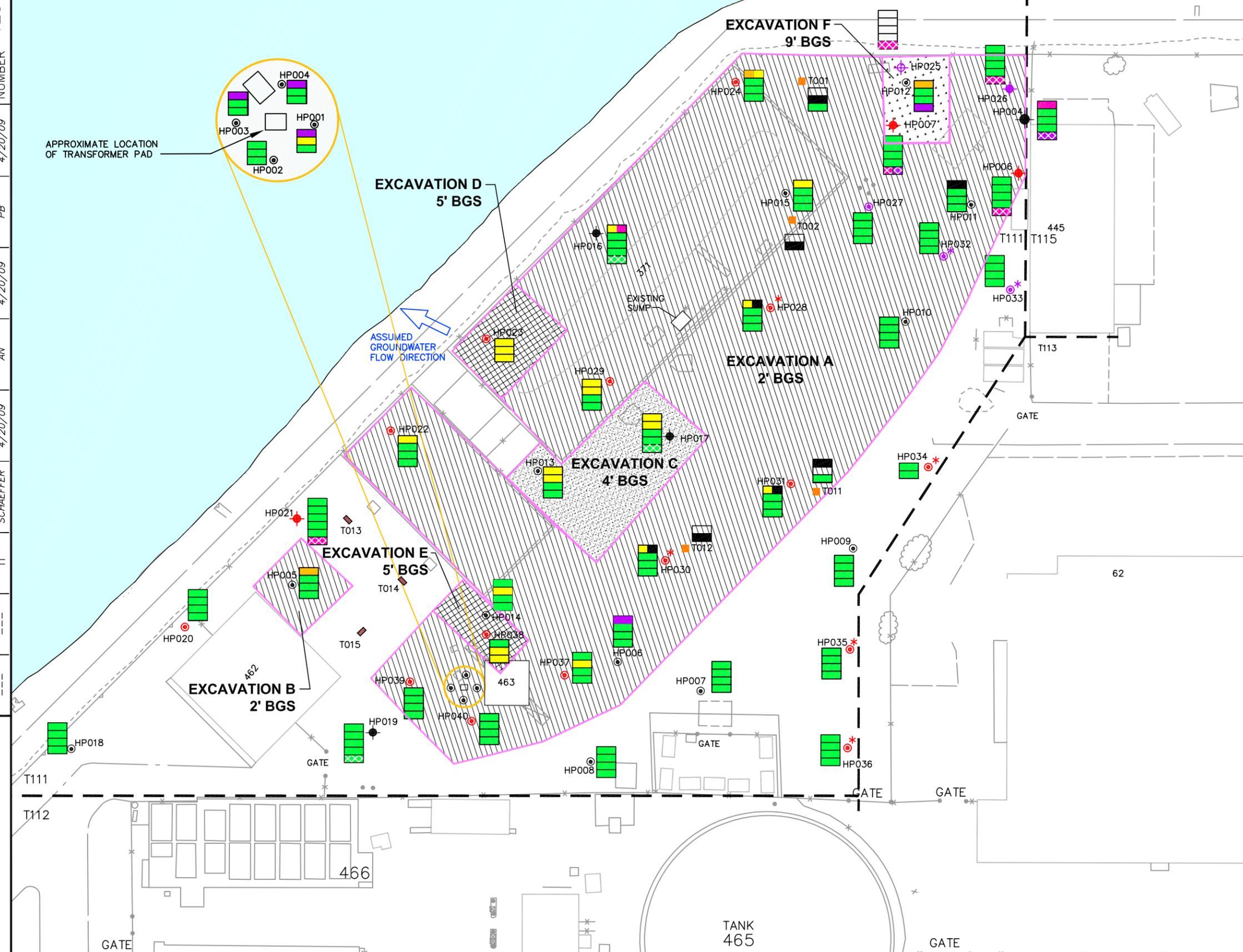
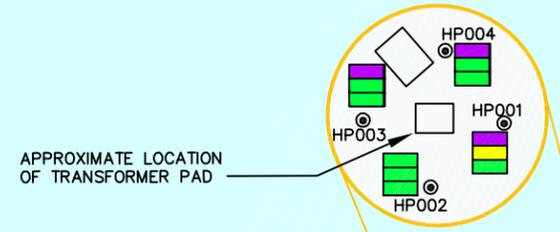
DRAWING NUMBER 123440-B58  
 APPROVED BY PB 4/20/09  
 CHECKED BY AN 4/20/09  
 DRAWN BY SCHAEFFER 4/20/09  
 OFFICE TI  
 X-REF ---  
 IMAGE ---



- NOTES:**
1. ALL DEPTHS ARE FEET BELOW ASPHALT/CONCRETE UNLESS OTHERWISE NOTED.
  2. ALL CONCENTRATIONS ARE MILLIGRAMS PER KILOGRAM (mg/kg) UNLESS OTHERWISE NOTED.
  3. ng/kg = NANOGRAMS PER KILOGRAM.
  4.  $\mu\text{g/L}$  = MICROGRAMS PER LITER.
  5. DIOXIN = 2,3,7,8,-TCDD TOXICITY EQUIVALENCY.
  6. TPH-g,d,mo = TOTAL PETROLEUM HYDROCARBON - GASOLINE, DIESEL, MOTOR OIL
  7. SSC = SITE SCREENING CRITERIA

- SAMPLE DEPTHS:**
- 0-1.5'
  - 1.5'-3.5'
  - 3.5'-4.5'
  - SOIL/GROUNDWATER INTERFACE
- GROUNDWATER SAMPLE** (Symbol: rectangle with 'X')
- NO SAMPLE COLLECTED** (Symbol: empty rectangle)
- ANALYTES:**
- METALS > SSC (Pink)
  - TPH > SSC (Yellow)
  - PCB > 1 mg/kg (Green)
  - PESTICIDE > SSC (Blue)
  - DIOXIN > 12  $\mu\text{g/kg}$  (Red)
  - ALL COCS < SSC/TI GOALS (White)

- LEGEND:**
- APPROXIMATE PARCEL BOUNDARY (Dashed line)
  - INITIAL SOIL BORING/HYDROPUNCH (APR 21-23, 2003) (Circle with dot)
  - INITIAL SOIL BORING (APR 21-23, 2003) (Circle with dot)
  - AUG 18-20, 2003 (TYP. BELOW) (Circle with dot)
  - STEP-OUT SOIL BORING/HYDROPUNCH (Circle with dot and asterisk)
  - STEP-OUT T111/T115 SOIL BORING/HYDROPUNCH (Circle with dot and asterisk)
  - STEP-OUT SOIL BORING (\* INDICATES DIOXIN ANALYSIS INCLUSION) (Circle with asterisk)
  - STEP-OUT T111/T115 SOIL BORING (Circle with asterisk)
  - STEP-OUT HYDROPUNCH (Circle with asterisk)
  - TRENCH SOIL SAMPLE LOCATION (SHAW, 2005) (Square)
  - EXPLORATORY TRENCH 2'x4'x2'DEEP (Square)
- EXCAVATION**
- 2' DEEP (EXCAVATIONS A,B) (Diagonal lines)
  - 4' DEEP (EXCAVATION C) (Cross-hatch)
  - 5' DEEP (EXCAVATION D, E) (Grid)
  - 9' DEEP (EXCAVATION F) (Dotted)



**Shaw** Shaw Environmental, Inc.

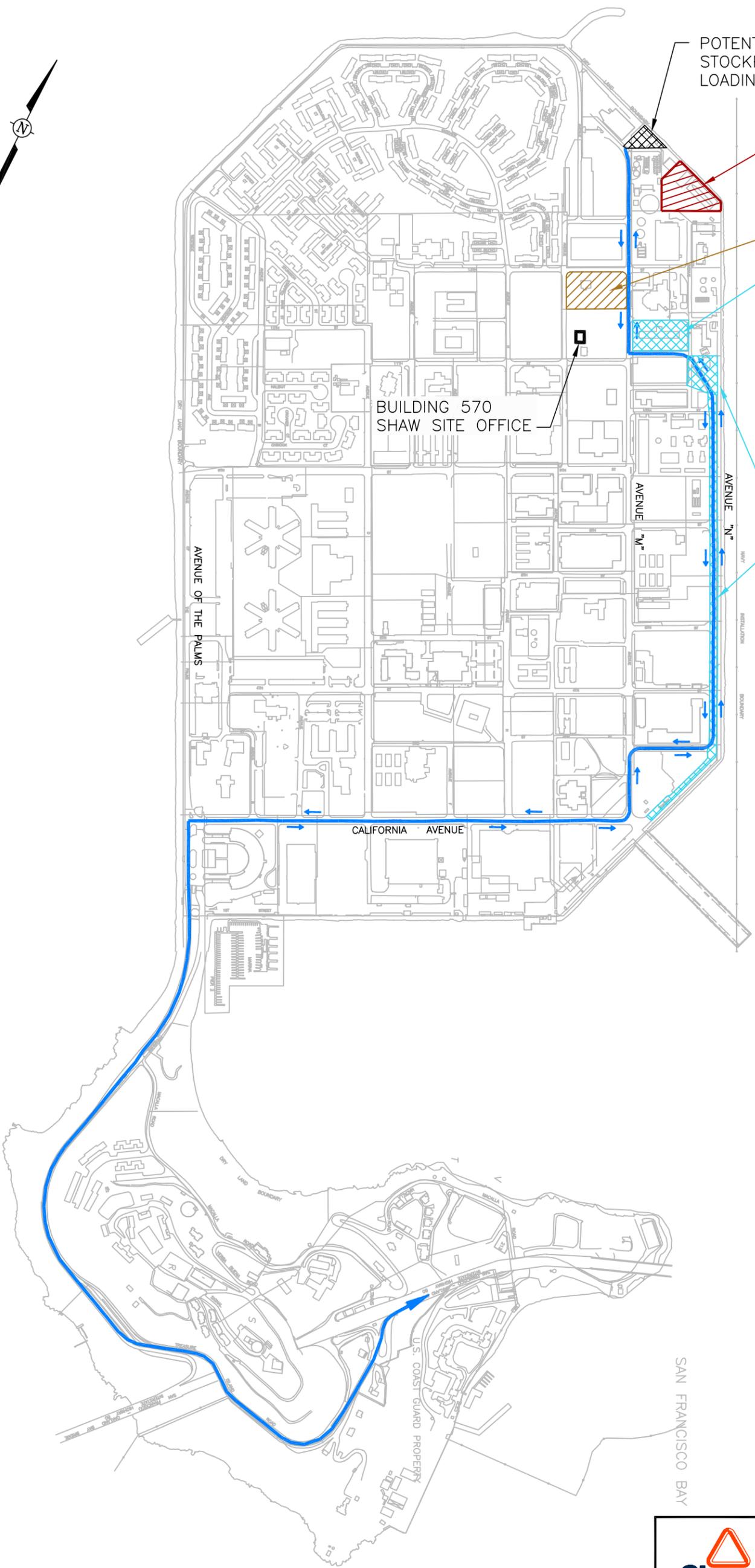
DEPARTMENT OF THE NAVY  
 SOUTHWEST DIVISION  
 NAVAL FACILITIES ENGINEERING COMMAND  
 SAN DIEGO, CALIFORNIA

**FIGURE 6**  
 HISTORIC INVESTIGATION RESULTS AND  
 PROPOSED EXCAVATION BOUNDARIES  
 PARCEL T111/SITE 32  
 TREASURE ISLAND  
 SAN FRANCISCO, CALIFORNIA

IMAGE X-REF SITEBLK ---  
 OFFICE SIZ 11/12/08  
 CONCORD  
 DRAWN BY SIZ 11/12/08  
 CHECKED BY BH 11/12/08  
 APPROVED BY BM 11/12/08  
 DRAWING NUMBER 123440-B46



San Francisco Bay



POTENTIAL WASTE SOIL STOCKPILE AND TRUCK LOADING AREA

SITE 32 WORK AREA AND POTENTIAL WASTE SOIL STOCKPILE AREA

CLEAN FILL STOCKPILE AREA

POTENTIAL TRUCK STAGING AREA OR WASTE SOIL STOCKPILE AND TRUCK LOADING AREA

TRUCK STAGING AREA ALONG AVE "N"

SAN FRANCISCO BAY

AVENUE "N"

AVENUE "M"

AVENUE OF THE PALMS

CALIFORNIA AVENUE

BUILDING 570 SHAW SITE OFFICE

- LEGEND
- TRUCK ROUTE (18 WHEEL TRUCKS)
  - SITE 32 EXCAVATION AREA (APPROXIMATE BOUNDARY)
  - CLEAN FILL STOCKPILE AREA
  - WASTE SOIL STOCKPILE AND TRUCK LOADING AREA



**Shaw Environmental, Inc.**

DEPARTMENT OF THE NAVY  
 BRAC PMO WEST  
 SAN DIEGO, CALIFORNIA

FIGURE 5

TRUCK STAGING AND ROUTE MAP  
 PARCEL T111/SITE 32  
 NAVAL STATION TREASURE ISLAND

**Naval Station Treasure Island  
Environmental Cleanup Program  
Document Tracking Sheet  
April 2009 - September 2009**

Item	Document Title & Information	CTO/DO	INTERNAL DRAFT		DRAFT							RTC		INTERNAL F I N A L		F I N A L	Comments										
			Internal Draft Due to Navy	Navy Comments Due	Draft to Agencies	Date Due	Agency Comments						Preliminary RTCs to Agencies	Resolve and Concur on RTCs	Internal Final to Navy	Navy Comments Due		Final to Agencies									
							DJSC	Water Board	EPA	TIDA	RAB	OTHER							Priority Level								
<b>SulTech - Non Petroleum Related Documents</b>																											
1	<b>Site 33 Remedial Investigation Report</b>	103	09/07/06	✓	10/16/06	✓	10/17/08	✓	01/06/09	✓	✓	✓	✓	✓	04/24/09	05/08/09	05/22/09	06/01/09	06/15/09	Comments originally due 11/17/2008							
	RPM: Scott Anderson																										
	PM: Kevin Hoch																										
	<b>Sites 8 and 29 Interim RI Report</b>	104	07/23/07	✓	08/10/07	✓	11/19/07	✓	12/19/07	✓	X	✓	✓		09/22/08	✓	10/22/08	✓	12/24/08	✓	02/13/09	✓	04/01/09	✓			
	RPM: James Whitcomb																										
	PM: Kevin Hoch																										
	<b>Site 28 Revised Remedial Investigation Report</b>	104	NA	✓	NA	✓	NA	✓	NA	✓	X	✓	✓		09/22/08	✓	10/22/08	✓	12/31/08	✓	02/13/09	✓	04/01/09	✓			
	RPM: James Whitcomb																										
	PM: Kevin Hoch																										
	<b>Site 21 Feasibility Study</b>	144	7/28/08*	✓	9/10/08*	✓	11/10/08	✓	01/07/09	✓	✓	✓	✓		02/19/09	✓	02/26/09	✓	02/19/09	✓	TBD		03/31/09	✓			
	RPM: Scott Anderson																										
	PM: Jean Michaels																										
2	<b>Soil Gas Investigation Tech Memo</b>	117	NA		NA		NA		NA						NA		NA		02/20/09	✓	03/25/09	✓	04/24/09				
	RPM: James Whitcomb																										
	PM: Kevin Hoch																										
<b>Shaw Group</b>																											
	<b>PCB Field Activity Report</b>	FZN1	08/05/08	✓	09/08/08	✓	09/11/08	✓	11/26/08	✓	X	X	✓									02/20/09	✓	03/09/09	✓	Revisions sent 4/9/2009	
	RPM: Scott Anderson																										
	PM: Pete Bourgeois																										
3	<b>PCB Soil Abatement Parcel T-111/Site 32 Work Plan</b>	FZN1	11/24/08	✓	01/09/09	✓	02/19/09	✓	03/21/09	✓	✓	✓	✓		04/28/09		04/30/09							05/11/09			
	RPM: Scott Anderson																										
	PM: Pete Bourgeois																										
4	<b>Site 31 Remedial Action Work Plan</b>	FZN1	05/11/09		05/25/09		06/08/09		07/08/09						TBD		TBD		08/10/09		08/17/09		08/24/09				
	RPM: Charles Perry																										
	PM: Pete Bourgeois																										
5	<b>Site 25 Request for Closure</b>	FZN1	06/08/09		06/22/09		07/02/09		08/01/09						TBD		TBD		08/17/09		08/27/09		09/07/09				
	RPM: Scott Anderson																										
	PM: Neil Hey																										
<b>Tetra Tech EM Inc.</b>																											
6	<b>Island Times Newsletter #15</b>	FZN6	01/16/09	✓	03/06/09	✓	03/13/09	✓	03/27/09	✓	✓	✓	✓		NA		NA		04/22/09		04/29/09		05/08/09				
	RPM: Charles Perry																										
	PM: Marcie Rash																										

Naval Station Treasure Island  
Environmental Cleanup Program  
Document Tracking Sheet  
April 2009 - September 2009

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	Date Due	Agency Comments						Preliminary RTCs to Agencies	Resolve and Concur on RTCs	Internal Final to Navy	Navy Comments Due	Final to Agencies						
							DJSC	Water Board	EPA	TIDA	RAB	OTHER							Priority Level				
7	Fact Sheet: Radiological Program Update	FZN6	TBD		TBD	TBD							TBD	TBD	TBD	TBD	TBD						
	RPM: James Sullivan																						
	PM: Marcie Rash																						
8	Site 12 Radiological Risk Assessment	FZN6	09/24/08	✓	10/07/08	✓	10/07/08	✓	10/31/08	X	X	X	✓		NA	NA	01/23/09	✓	01/30/09	✓	TBD		
	RPM: James Whitcomb																						
	PM: Marcie Rash																						
9	2009 Site Management Plan	FZN6	03/26/09	✓	04/10/09	✓	04/17/09	✓	05/17/09						06/14/09	06/21/09	07/13/09		07/23/09		08/02/09		
	RPM: Charles Perry																						
	PM: Marcie Rash																						
10	Site 27 Feasibility Study	FZN6	09/24/08	✓	11/07/08	✓	12/29/08	✓	02/27/09	✓	✓	✓	✓		05/13/09	05/27/09	06/12/09		06/22/09		07/06/09		
	RPM: Charles Perry																						
	PM: Katie Henry																						
<b>Barajas &amp; Associates, Inc.</b>																							
11	Site 30 Record of Decision	25	04/30/08	✓	08/18/08	✓	10/17/08	✓	12/02/08	✓	✓	✓	✓		02/25/09	✓	04/24/09		05/15/09		05/22/09	05/29/09	
	RPM: Charles Perry																						
	PM: Margaret Berry																						
12	Site 31 Record of Decision	25	04/23/08	✓	09/11/08	✓	10/17/08	✓	12/02/08	✓	✓	✓	✓		02/25/09	✓	04/24/09		05/15/09		05/22/09	05/29/09	
	RPM: Charles Perry																						
	PM: Margaret Berry																						
13	Site 11 Remedial Investigation Report	24	01/18/08	✓	10/07/08	✓	11/06/08	✓	02/17/09	✓	✓	✓	X	✓	04/30/09		05/14/09		06/13/09		06/20/09		06/27/09
	RPM: Scott Anderson																						
	PM: Margaret Berry																						
<b>Chadux and Tetra Tech JV</b>																							
14	Site 12 Halyburton Court EE/CA	44	TBD		TBD		TBD		TBD						TBD		TBD		TBD		TBD		
	RPM: James Whitcomb																						
	PM: John Bosche																						
<b>Trevet</b>																							
15	2008 Site 6 & 12 Annual Groundwater Sampling Report	9002	05/19/09		06/02/09		06/09/09		07/09/09						08/06/09		TBD		TBD		TBD		TBD
	RPM: James Whitcomb																						
	PM: Greg Alyanakian																						

**Naval Station Treasure Island  
Environmental Cleanup Program  
Document Tracking Sheet  
April 2009 - September 2009**

Item	Document Title & Information	CTO/DO	INTERNAL DRAFT		DRAFT							RTC		INTERNAL FINAL		FINAL	Comments	
			Internal Draft Due to Navy	Navy Comments Due	Draft to Agencies	Agency Comments						Priority Level	Preliminary RTCs to Agencies	Resolve and Concur on RTCs	Internal Final to Navy	Navy Comments Due		Final to Agencies
						Date Due	DTSC	Water Board	EPA	TIDA	RAB							

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.

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

HSP = Health and Safety Plan

NA = Not Applicable

PCB = Polychlorinated Biphenyls

PM = Project Manager

RAB = Restoration Advisory Board

RPM = Remedial Project Manager

SAP = Sampling and Analysis Plan

TBD = To Be Determined

TIDA = Treasure Island Development Authority

Water Board = Regional Water Quality Control Board

Naval Station Treasure Island  
Navy Field Schedule  
April 2009 - July 2009

Item	Activity & Investigation Area	DTR #	Field Dates	Navy RPM	CTO/DO	PM	FTL	Complete
<b>Shaw</b>								
1	Site 24 Treatability Study Phase II <i>Site 24</i>	Doc N/A	Start: 07/21/08 Finish: TBD	Scott Anderson (619) 532-0938	FZN1	Pete Bourgeois (415) 277-6983	David Cacciatore (925) 288-2299	
2	Site 21 Pilot Treatability Study <i>Site 21</i>	Doc N/A	Start: 10/06/08 Finish: TBD	Scott Anderson (619) 532-0938	FZN1	Pete Bourgeois (415) 277-6983	Dan Leigh (925) 288-2193	
3	Non-Time Critical Removal Action <i>Site 12</i>	Doc N/A	Start: 02/26/07 Finish: 08/28/09	James Whitcomb (619) 532-0936	10	Pete Bourgeois (415) 277-6983	Pete Bourgeois (415) 277-6983	
4	Arsenic in Groundwater Pilot Study <i>Site 12</i>	Doc N/A	Start: 11/10/08 Finish: TBD	Scott Anderson (619) 532-0938	FZN1	Pete Bourgeois (415) 277-6983	Pete Bourgeois (415) 277-6983	
5	PCB Soil Abatement Parcel T-111/Site 32 <i>Site 32</i>	Doc 8	Start: 05/11/09 Finish: TBD	Scott Anderson (619) 532-0938	FZN1	Pete Bourgeois (415) 277-6983	Pete Bourgeois (415) 277-6983	
6	Site 31 Remedial Action <i>Site 31</i>	Doc 9	Start: 08/24/09 Finish: TBD	Charles Perry (619) 532-0911	FZN1	Pete Bourgeois (415) 277-6983	Pete Bourgeois (415) 277-6983	
<b>TREVET</b>								
7	Site 6 Groundwater Sampling <i>Site 6</i>	Doc N/A	Start: TBD Finish: TBD	James Whitcomb (619) 532-0936	CLIN	Greg Alyanakian (858) 869-3110	Greg Alyanakian (858) 869-3110	
<b>EMS</b>								
8	Site 12 Removal Action Soil Sampling <i>Site 12</i>	Doc N/A	Start: 12/05/07 Finish: TBD	James Whitcomb (619) 532-0936	NA	Dawn Roarty (916) 919-4785	Salem Attiga (925) 939-0687	

CTO - Contract Task Order

DO - Delivery Order

DTR # - Denotes document tracking reference. The number listed corresponds to the associated documentation listed on the Document Tracking Sheet

FTL - Field team lead

N/A - not applicable, there is no associated documentation listed on the DTS.

PCB = Polychlorinated Biphenyls

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.