



FINAL FORMER NAVAL STATION TREASURE ISLAND Restoration Advisory Board (RAB) Meeting Minutes

Meeting Number 139

December 16, 2008

Community Restoration Advisory Board (RAB) Members in attendance:

Nathan Brennan, Chris Grasteit, Alice Pilram, 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])

Other Navy Staff and Consultant Representatives in attendance:

Pete Bourgeois, (Shaw Environment and Infrastructure [Shaw]), Tommie Jean Damrel (Tetra Tech EM Inc. [Tetra Tech]), Katie Henry (Tetra Tech), Kevin Hoch (Tetra Tech), Alec Naugle (San Francisco Bay Regional Water Quality Control Board [Water Board]), Charles Perry (Navy)

Public Guests

Stewart Bornhoft (Sullivan International Group, Inc. [Sullivan]), Lorraine Damante (Treasure Island Resident), Sal Damante (Treasure Island Resident), Becky Hogue (Treasure Island Resident), Ellen MacMillan (Treasure Island Resident), Chris Ohland (Sullivan), Deanna Rhoades (Sullivan), Bart Rugo (Treasure Island Resident),

Welcome Remarks and Introductions

James Sullivan (Base Realignment and Closure [BRAC] Environmental Coordinator) opened the 16 December 2008 meeting at 7:07 P.M. at the Casa de la Vista (Building 271) on Treasure Island (TI).

Mr. Sullivan welcomed those in attendance and thanked everyone who participated in the annual holiday potluck, held the hour before the meeting from 6:00 to 7:00. Mr. Sullivan invited attendees to continue to enjoy the food from the potluck during the meeting. Mr. Sullivan stated all regular RAB members should have received the agenda in the mail, and noted hand-outs and additional copies of all materials were at the sign-in table in the back of the room. Mr. Sullivan then asked if there were any comments regarding the meeting agenda. There were none, so he moved into the first topic.

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 former Naval Station TI (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 on to the next agenda item.

Site 12 (TI Housing Area) Soil Gas Investigation

Mr. Sullivan introduced Kevin Hoch (Tetra Tech) to provide an update on the soil gas investigation at Site 12, the TI Housing Area. Mr. Hoch referred to a large, fold-out figure in the handouts showing the sampling locations. Mr. Hoch reminded the attendees that he had discussed this investigation at the previous RAB meeting in October. Mr. Hoch stated that Tetra Tech was out in the field collecting soil samples from 10 November 2008 through 21 November 2008. In total, Tetra Tech collected 122 soil gas samples throughout Site 12, which Mr. Hoch indicated on the figure.

Mr. Hoch stated that the Navy in past investigations had collected various groundwater and soil samples throughout Site 12. However, there was limited soil gas data. Soil gas data will help determine whether any contaminants, specifically volatile organic compounds (VOC), could migrate into current or future structures at the site. Therefore, a soil gas investigation was conducted.

To begin the investigation, the team began in areas where contaminants had already been detected in soil or soil gas. If anything was detected above screening levels in soil gas, step-out samples were collected. Tetra Tech had a mobile laboratory on-site in order to get real-time results from the soil samples. With real-time results, they could determine immediately whether step-out sampling was necessary. Mr. Hoch explained there was only one location where there were elevated detections of contaminants in soil gas that required step-out sampling. In one other location screening criteria was exceeded, but the location was already surrounded by past sampling locations. Therefore step-out samples were not necessary. However, because there was a laboratory on-site and a field crew available, the team collected additional samples in various locations. The additional samples will help further characterize the site and provide additional data for a risk assessment and a Remedial Investigation report. Mr. Hoch stated that, in addition to VOCs, the field team tested for methane. Methane can be related to subsurface debris, and has been found in the Solid Waste Disposal Areas (SWDA). Methane is also the main constituent of natural gas, and can be detected from even minor leaks in subsurface utilities.

Mr. Hoch showed some photos of the soil gas sampling process. He explained that soil gas sampling can often be problematic. Leaks in the sampling equipment or at the surface of the ground can dilute the sample. To monitor for dilution, the chemist collecting the samples sprayed a dust-off chemical he could detect in the instruments if there was a leak. Mr. Hoch stated the dust-off

chemical was not detected in any of the samples, verifying there were no leaks and consequently no dilution of samples. Mr. Hoch stated that ten percent of the samples were collected as split samples with summa canisters. The summa canister is a 1-liter canister that is vacuum sealed and attached to the sample point. Summa canisters were analyzed by an off-site laboratory to confirm the mobile laboratory results.

In total, there were two locations where contaminants were detected at levels above the screening criteria. Mr. Hoch stated he was unsure of the specific contaminant detected, but believed it was benzene or another gasoline-related compound. Both of those locations were under asphalt; one on Mariner Drive and one on Keppler Court.

Mr. Hoch stated methane was detected in some samples in various areas, including near Buildings 1228 and 1406 (later corrected as 1413). Mr. Hoch stated there are natural gas lines that go through the areas of the methane detections. Mr. Hoch and Mr. Sullivan contacted the San Francisco Public Utilities Commission (SFPUC), the entity responsible for the utilities on NAVSTA TI, and went to the site to examine the area for gas leaks. Mr. Hoch stated it had not yet been confirmed by SFPUC, but the representative stated there is some stressed vegetation that indicates a possible leak. The SFPUC told the Navy that, during the first rain of the year, it is common for soil to expand, causing loosening of the joints on the gas lines, resulting in leaks. The SFPUC was going to examine the lines further with their equipment and inform the Navy of any leaks.

Mr. Hoch stated that all of the results from the soil gas sampling will be put into a technical memorandum to be issued in January 2009. That technical memorandum will include details about the sampling methodology and results.

Mr. Brennan asked Mr. Hoch to clarify the locations where the methane was detected, noting the figure does not show samples near Building 1406. Mr. Hoch corrected his earlier statement, and noted the Buildings are 1228 and 1413, not 1406.

TI Housing Area Arsenic in Groundwater Treatability Study

Mr. Sullivan introduced Pete Bourgeois (Shaw) to provide an update on the Arsenic in Groundwater Treatability Study, which is also taking place within the TI Housing Area. Mr. Bourgeois stated this project is still in the early stages. Shaw has done some Design Data Investigation, and is continuing that process. The week prior to the RAB meeting, Shaw drilled several locations in the grass area between Westside Drive and Building 1311. Mr. Bourgeois explained there is a standard procedure for drilling, which includes using a hand auger for the first five feet to ensure they do not hit any utility lines. Then a direct-push rig

was used to drill down the rest of the way, to a depth of seven to ten feet. Mr. Bourgeois noted that these are rather shallow wells. The team then placed PVC pipe in each hole. Mr. Bourgeois stated Shaw would return to the wells the weekend following the RAB meeting to finish developing them and to sample some of the wells that already exist on the site. Shaw will then sample the new wells in January 2009. Mr. Bourgeois stated Shaw will sample the wells during low tide, which means there is a small window of time to collect the samples.

Mr. Bourgeois stated the data gathered from these wells will be used to set up the pilot study. That study is expected to begin in January or February 2009. Mr. Bourgeois stated the fencing has been installed around the study area. Shaw still needs to install the rest of the piping and set up the air sparge system.

Mr. Brennan asked if the laboratory work would be done closer than in the past. He noted that when the original samples had been collected, they were shipped to a laboratory back east and had to be reinoculated. Mr. Bourgeois stated the laboratory Shaw used before was one of their own in Knoxville, Tennessee. He said Shaw will be using a closer laboratory for these analytical results.

Chris Grasteit (RAB Member) asked how long the fencing would be up and whether there would be equipment that needs to be protected from vandals. Mr. Bourgeois stated there would be an air sparge system on the site, but that it would be stored in a locked shed both for security and for noise abatement purposes. The rest of the system is aboveground PVC piping, so the fencing will remain up during the entire study. Mr. Bourgeois stated that would at least be several months, and said he would provide a more complete schedule as the project progresses.

Mr. Grasteit stated that Perimeter Road is a popular walking route on TI. He noted that some residents follow it to the trail on Westside Drive, and then encounter the Navy's fences. People are beginning to forge a trail in the ice plant. Mr. Grasteit asked if Shaw could etch out a path right along the fence or on the other side of the trail to make a safe place for people to continue walking. Mr. Bourgeois stated he would drive out to the site the following day and see what he could do to create such a path.

Site 12 (TI Housing Area) Removal Action Update

Mr. Bourgeois (Shaw) then provided an update on the removal action and current site access at Site 12, the TI Housing Area. Mr. Bourgeois stated the Navy still has a temporary hold on their work at SWDA A/B, located on Westside Drive. Shaw is putting together a field work variance document which includes a Radiological Protection Plan. Shaw is updating their Radiological

Sampling and Analysis Plan (RASP) due to elevated detections of alpha contamination, as discussed at the last RAB meeting. Mr. Bourgeois stated Shaw is hoping to get finalization of the updated field and sampling documents from the Navy's Radiological Affairs Support Office (RASO) and resume work again.

Mr. Bourgeois stated the stockpiles of soil with low-level radiological waste have now been removed from Site 6. That soil has been put into bins, which residents may notice if they walk by the site. The bins are large, blue boxes that are well contained. Shaw does not plan to stockpile additional loose soil at Site 6 for this project. There will be some loose soil stockpiled in the parking lot of Building 461, which leads to Perimeter Road. Mr. Bourgeois stated those stockpiles are for Class I and Class II soil, which will remain there until sometime in February 2009.

Mr. Bourgeois showed a slide indicating the current excavation status of the SWDAs. He noted the status has not changed much since the work has been on hold. He noted the areas in light brown are the areas that Shaw still needs to excavate. Mr. Bourgeois explained the first thing Shaw will do when they receive their finalized field work variances is to address some "hot spot" areas around Building 1123, and also backfill an excavated water line. Mr. Bourgeois stated the water line he is referring to is the main water line for TI. Shaw would like to backfill that area to protect the water line before the rainy season starts.

Mr. Bourgeois displayed a photograph of Site 6, showing that the stockpiles have been removed. He stated Shaw will conduct one final radiological scan of Site 6 to verify that no radiological contamination remains from the stockpiles. Mr. Bourgeois then showed a photograph of the fire hoses, used for dust suppression at the site, being scanned for radiological material.

Mr. Bourgeois then reviewed the process used for each bin after it is filled with excavated soil. A disposal broker, EMS, is the contractor who deals with the bins when they are full, and they broker them off-site to a landfill that accepts low-level radiologically contaminated soil located in Idaho. Once a bin is filled with excavated soil, Shaw moves it to Site 6. EMS then weighs the bin, and scans it to determine the level of radiological contamination, or the dose rate. This is to verify that it is appropriate to send the soil to Idaho, rather than sending it to a facility that accepts higher dose rate material. After it is scanned, the bin is then moved into a fenced area at Site 6, and the material in the bin is sampled. A five-point composite of the soil within the bin is collected, and sent to an off-site laboratory for analysis. The bin is sealed and locked while Shaw waits for laboratory results, which take three weeks.

After laboratory results are received, the bins are moved to a clean area to await off-site removal. The bins are scanned one last time and locked for secure

shipping. They are shipped via truck to Idaho, the contents are dumped, and then the bins are returned. The bins are scanned on the inside when they are returned to verify they do not have contamination. Then they are lined, filled again, and the process starts over. Mr. Bourgeois added that, when the bins are originally filled on site, they are immediately sealed before being moved to Site 6, so there is never a time when the bins are being driven around NAVSTA TI with uncovered soil with radiological contamination.

Mr. Bourgeois showed a figure of the locations where radiological commodities have been found. He noted the figure indicates both the location and the depth at which a commodity had been found. He noted there had been retrieval of about 270 commodities, from metal fragments to foils. Those commodities will be removed from the island by EMS.

Mr. Bourgeois then reviewed the amount of soil removed from the site. He stated 10,000 tons of Class I soil and 11,000 tons of Class II soil have been sent off-site, and there is some additional Class I or Class II soil stockpiled at Building 461, awaiting off-site disposal. For the radiologically contaminated soil, EMS has removed 463 bins off-site, 83 bins are filled and awaiting removal, and 4 bins are empty, waiting to be filled when work resumes.

Mr. Bourgeois stated the current projected schedule is completion of excavation in February 2009, however, he believes that schedule will slip. Shaw hopes to achieve completion of the entire project by April 2009.

Ms. Smith asked why soil was stockpiled at Site 6, and if it was an issue of scheduling with EMS. Mr. Bourgeois stated that the soil was stockpiled because of the process for doing the radiological scan. Soil had to be excavated in 1-foot layers for scanning, and it was more expeditious to stockpile it at the site while doing the excavation, and then scan it. Mr. Bourgeois stated Shaw did do some hot spot removal for elevated radiological readings rather than doing it in a layer. Mr. Bourgeois stated Shaw has now changed their approach, and is using a slower process to excavate. Because they are finding commodities, they are doing each 1-foot layer at a time to verify they have removed all commodities from the soil.

Mr. Grasteit noted that there have been fences around Westside Drive for a long time, possibly as long as there have been civilian residents on TI. He asked if the fences would ever be coming down, or if it was too early to determine.

Mr. Bourgeois stated the goal of Shaw's work is to be able to say the areas they excavated are clean and do not need further remediation. However, Mr. Bourgeois noted that the Navy had not excavated under certain buildings and concrete slabs, so it would not be possible to say those areas are clean. Mr.

Bourgeois stated the Navy is working to determine when those fences can be removed.

Mr. Bourgeois stated the next step in the removal action work is to do a MARSSIM 2 and a MARSSIM 3 survey. That stands for Multi-Agency Radiation Survey and Site Investigation Manual, and MARSSIM 1 is the area where an excavation takes place. The areas for MARSSIM 2 and 3 create a buffer around the initial excavation area. The surveys will include scanning and taking samples. Shaw is working on estimating the areas for those surveys. Mr. Bourgeois stated the Navy and the regulatory agencies will have future discussions about when to remove the fences at Westside Drive.

Mr. Grasteit noted that some of the street and the sidewalks on Westside Drive were removed but have not been replaced. He asked if they would be replaced, as that might also affect removing the fences.

Mr. Sullivan stated that, because the buildings in the area Mr. Grasteit is referring to are vacant and may not be used in the future, the Navy does not plan to replace the paved street, sidewalks, and other landscaping that was removed. However, Mr. Sullivan stated the Navy's contractors would backfill the area to grade, so there will be a safe, flat surface to walk on. Mr. Bourgeois added that Shaw will backfill the street with gravel so it will be possible to drive a car in the area. Mr. Sullivan stated a barrier may be put in place to prevent vehicle traffic in that area.

Chris Ohland (Sullivan) asked for the definition of commodities. Mr. Bourgeois stated he is using the terms "items" and "commodities" interchangeably. Mr. Bourgeois explained some decorative buttons, circa 1930 had been found, as well as deck markers and metal foils historically used by the Navy. They were all painted to glow in the dark, which is why they test positive for radium-226. So any of the little items discovered at the site with radium-226 are being called commodities.

Bart Rugo (resident) asked about the status of the fences on Perimeter Drive, and what the anticipated date for removing those fences is. Mr. Bourgeois stated the fence along Westside Drive will remain until the project is completed, probably sometime in April 2009. Mr. Bourgeois added that, once he is done backfilling in a particular area, he will try to remove the fencing in that area, because the area would then not pose a health and safety risk for residents and the general public. Mr. Bourgeois said some of the fencing could come down as early as February, possibly March 2009.

However, the fencing at Building 461 may come down even sooner, possibly February. Shaw hopes to remove the current soil stockpile, and avoid further stockpiling,

Site 27 Feasibility Study Report

Mr. Sullivan stated Site 27 is the Clipper Cove Skeet Range. He noted the Navy has completed a Remedial Investigation (RI) for the site and plans to issue a draft Feasibility Study (FS) later this month. He introduced Charles Perry (Navy) to provide the update on the Site 27 FS.

Mr. Perry reminded the group that during a recent RAB meeting he had presented the field work that the Navy and their consultants, Tetra Tech EM Inc., had conducted. Specifically, near-shore sampling was conducted. That sampling indicated there was the potential for diving ducks to be exposed to lead in the top 2 feet of sediment. So the FS was adjusted accordingly.

Mr. Perry showed a slide with the location of Site 27, noting it is in Clipper Cove, between TI and YBI. The site was a skeet range with two shooting locations, each with multiple shooting positions. He indicated on the map the shooting locations, and the fan shaped shooting area at the site where one might expect to find lead shot.

Mr. Perry explained the cove is a depositional environment. However, in the near-shore area, it was discovered that there is not as much deposition as in the areas further from shore. The recent investigations confirmed there is an exposure pathway for diving ducks to reach the contaminant of concern, lead, within 75 feet of the shore. For the rest of the site, there is not a complete pathway, and there is no complete pathway for humans at any portion of the site.

Mr. Perry stated the Navy had submitted a draft FS for Site 27 in January 2004. There were some comments from the BCT and after some discussion, the Navy prepared a revised draft FS in December 2004. Mr. Perry reviewed the three alternatives listed in the 2004 FS. They are 1) no action, which is always required for comparison; 2) institutional controls (IC) to prevent future dredging, which is done with deed restrictions; and 3) sediment removal, or dredging.

In 2004, the Navy decided to do a bathymetric survey in the near-shore area to determine what kind of deposition was actually occurring. That is when the Navy discovered some areas further from shore are depositional, while some closer to shore, within 75 feet, are erosional or just not getting as much deposition.

The remedial action objective for this area is to prevent and minimize ingestion of lead shot to the diving ducks within 75 feet of the shoreline, where a complete exposure pathway exists. And then the second objective is to prevent or minimize ingestion site-wide if future dredging were to be undertaken, resulting in a complete exposure pathway.

The alternatives have been updated since the 2004 FS, specifically alternative 2 has been updated. Alternative 2 is now focused on dredging and backfilling, off-site disposal of dredged sediments, and ICs with sediment monitoring. The specifics would include dredging down to 2 ½ feet, then backfilling with sand and rock armor to bring the bottom back up to profile. Mr. Perry explained this would not be a traditional cap, in that the new material would be flush with the existing bottom. The ICs would prevent disturbance of sediments and monitoring of the ICs to verify effectiveness.

Mr. Perry stated the Navy is also required to evaluate all of the alternatives against nine evaluation criteria. He noted there is an in-depth analysis of the first seven criteria in the FS. The last two criteria are state and community acceptance, and those are evaluated during the Proposed Plan (PP) step, which follows the FS step.

Mr. Perry reviewed the closure strategy for Site 27. He stated the Navy would like to finalize the FS, prepare a PP, and then a Record of Decision, which will document the final selected remedy. Mr. Perry reviewed the schedule for the FS, stating it would be issued on 19 December 2008, with comments due 30 days later. Mr. Perry stated the final FS would be issued sometime in March 2009.

Ms. Smith asked if the Navy would dredge right up to the rip rap. Mr. Perry stated that they would get as close as possible with a clamshell dredge. Ms. Smith stated the Navy is doing some dredging at Former Naval Air Station Alameda (Alameda Point), and they cannot get very close to the rip rap. Mr. Perry asked Ms. Smith if the rip rap has been undermined at Alameda Point. Ms. Smith stated the rip rap is falling into the holes that are being dug. Mr. Perry explained that what the Navy does at Site 27 will depend on which alternative is ultimately chosen. However, Mr. Perry stated that with alternative 2 the Navy would be doing only a small amount of dredging, and he would not expect the rip rap to be undermined.

Ms. Smith asked why the Navy would replace dredged material with sand. Mr. Perry stated that under alternative 2, the Navy would be conducting more shallow dredging than in alternative 3. The sand would be used in alternative 2 to prevent exposure of the ducks to lead. If the Navy removes 2 ½ feet, they might still have a surface that has lead, so they would cover that back up to prevent the exposure.

Ms. Smith asked if the lead shot was fully delineated by depth. Mr. Perry stated the Navy is able to determine vertical depth with several factors, including historic sampling, historic bathymetric surveys, and the dates the skeet range was in operation. Mr. Perry explained the data about vertical depth of the lead shot would be in the FS.

Mr. Brennan noted Mr. Perry had not covered the reason for the update in 2004, which was a widening of the site area, not just because the Navy wanted to include the near shore. Mr. Sullivan stated the site was shaped more like a slice of pie previously, rather than the half circle that is now. Originally the Navy thought there was only one station, but it was discovered there were two, expanding the area in which one might find lead shot.

Site 32 PCB Soil Abatement Workplan

Mr. Sullivan welcomed back Mr. Bourgeois to give an update on the upcoming soil removal at Site 32. Mr. Bourgeois stated he did not have a slide presentation, but had prepared some handouts for the update. Mr. Bourgeois stated Shaw has submitted an internal draft work plan to the Navy, is expecting to send the draft to the BCT in mid January 2009.

Mr. Bourgeois referred to the handouts, noting the first is a figure showing the excavation boundaries at Site 32 as well as historical sample results that delineated where and at what depth they should excavate. He noted the color on the map correlates to the contaminant of concern, listed on the legend. Most of the area will be excavated to a depth of 2 feet, though a few areas will go to a depth of 4 or 5 feet. One area in the top corner of the site will be excavated to a depth of 9 feet.

Mr. Bourgeois stated the second figure shows a grid for confirmation sampling, including which samples will be taken for which contaminants after the excavation is complete. He noted samples will be collected from the sidewalls and bottom of the excavations. He noted some areas will have confirmation samples collected to test for metals, others for PCBs. Mr. Bourgeois stated Shaw plans to begin the work in early February 2009, depending how many comments are made on the work plan. He added that he would present updates to the RAB as field work begins and progresses.

Mr. Brennan noted there is a sewage plant outfall that runs near the area of excavation and requested the Shaw team be careful not to hit it. Mr. Bourgeois stated they will make sure not to hit that sewage line. He said there are other utilities in the area, such as a fire hydrant system, and he is working with the SFPUC to ensure the team does not hit any utility lines that must remain in place. Some of the utility lines are not used and can be removed during the work. Mr.

Bourgeois added that the excavation is primarily to a depth of 2 feet, and the utility lines are below that.

Ms. Smith asked what the size of the grid is. Mr. Bourgeois stated they are fifty foot squares. Mr. Sullivan stated the excavation is confined to the small area in the northeast corner of TI that is Site 32. He added there will not be impacts to the housing area, or to Perimeter Road. Ms. Smith asked if it would impact the area board sailors use. Mr. Bourgeois stated Shaw and the Navy would make sure the project does not affect that area.

Ms. Smith asked what the cause of the contamination is; noting that 9 feet is rather deep, likely below the water table. Mr. Bourgeois stated the contaminants were found during previous sampling, and the Navy is taking a conservative approach with the excavation. They would like to dig as deep as needed just once. He added that the 9-foot depth will be below the water table.

Ms. Smith asked if the Water Board has any concerns about contamination in the area making its way to the San Francisco Bay, and if that is driving the field work. Mr. Bourgeois stated concerns about contamination reaching the Bay are driving the field work.

Upcoming Documents and Field Schedule

Documents

Mr. Sullivan introduced Mr. Hoch to review the Document Tracking Sheet. Mr. Hoch noted there is a handout, and he would present the documents that are currently available, or that would become available in the next 60 days:

- Draft RI Report for Site 33; comments due 26 November 2008
- Final Interim RI Report for Sites 8 and 29, 30 December 2008
- Final Revised RI for Site 28, 30 December 2008
- Draft Feasibility Study (FS) for Site 21, comments due 10 December 2008
- Draft Site 27 FS 19 December 2008, comments due 18 January 2009
- Final 2007 Annual Groundwater Status Report, Site 6 and 25, 7 January 2009
- Draft PCB Soil Abatement Work Plan for Site 32, 15 January 2009, comments due 14 February 2009
- Draft Island Times Newsletter No. 15, 9 January 2009
- Draft Site 12 Radiological Risk Assessment, comments due 31 October, 2008
- Draft Site 30 Record of Decision (ROD), comments due 2 December 2008, final 19 February 2009
- Draft Site 31 ROD, comments due 2 December 2008, final 19 February 2009
- Draft RI for Site 11, comments due 30 December 2008

August and October 2008 RAB Meeting Minutes

Mr. Sullivan reminded the group that the Navy is still working on the minutes from the October 2008 RAB meeting, so those were not included in the packet. They will be sent at a later date. Mr. Sullivan noted that the group had postponed discussion and approval of the August 2008 RAB minutes due to lack of time at the October meeting. Ms. Smith stated she had two minor comments that she could send to Tommie Jean Damrel (Tetra Tech) that would not change the meaning of the minutes.

Mr. Sullivan stated that several RAB members had requested the meeting minutes clarify who is actually doing work. So rather than saying "the Navy" list the name of their contractor. Mr. Sullivan said that would be done in the minutes in the future. The group agreed to review the changes to the August minutes when they are updated and approve them at the next RAB meeting, in February.

Co-Chair Announcements

Alice Pilram (RAB Community Co-Chair) stated there was voting for the Citizen's Advisory Board (CAB) the same day as the RAB meeting. There were 12 people running for four spots on the CAB. Two selectees have to be from the general rental population on NAVSTA TI, and two have to be from low-income groups. Ms. Pilram stated it was an official voting situation, with ballots going into an official box. Voters had to show identification to prove they live on NAVSTA TI. Ms. Pilram said there was a large turn-out, and the voting results should be in soon.

Mr. Sullivan explained that the CAB is sponsored by the Treasure Island Development Authority, and is focused on redevelopment of NAVSTA TI. He stated the CAB is the redevelopment counterpart to the RAB, the RAB being focused on environmental cleanup.

BRAC Cleanup Team Update

Mr. Sullivan gave a brief update on the two BRAC Cleanup Team (BCT) meetings held since the last RAB meeting. Mr. Sullivan stated the 5 November 2008 meeting was primarily an update on the Site 12 Removal Action. The team also covered the regular administrative items. At the 3 December 2008 meeting, the team once again covered the Site 12 Removal Action. They also discussed the soil gas sampling, as covered at this RAB meeting. The team then covered administrative items in December, including finalizing topics for this RAB meeting.

Mr. Sullivan stated the next BCT meeting is scheduled for 7 January 2009. He noted there is a location change. The Tetra Tech office is moving from San Francisco to Oakland, so the meetings will be at the new location in Oakland.

Other Public Comments and Announcement

Mr. Brennan provided a brief update on the CAB, of which he is a member. He stated the CAB had not met since the last RAB meeting. He stated the next meeting will be around 6 January 2009, but reminded everyone to check the website (listed on the RAB agenda) to confirm that date. He said he expected to receive results from today's election that Ms. Pilram mentioned earlier at the January CAB meeting.

Ms. Smith stated she had two comments. She noted that on the Document Tracking Sheet, she did not see Site 24. She also stated she would like to know who the project manager is for Site 24. Ms. Smith then stated that in the Focused FS for Site 24, it is not stated that the in-situ bioremediation wells will be sunk. Ms. Smith asked if that was because this is just an FS, and that decision will be noted later in the work plan. Ms. Smith noted the plume gets quite deep in one area, and then is more shallow again.

Mr. Perry stated that once the Navy gets to the work plan stage, they will use the data from the treatability study to determine how to address the plume. So depth of wells would be determined at that point. Mr. Perry added that Ms. Smith can go ahead and make the comment on the FS that she suggests that well depth be stated, and the Navy can address it in the work plan.

Ms. Smith also asked for a definition of low-flow groundwater sampling. Mr. Hoch explained that, previously, one would use bailers to do water sampling. However, instead, now a peristaltic pump or a bladder pump is often used at NAVSTA TI. They slowly lift the water from the aquifer up into the sampling container. This prevents agitation below the surface of the water, eliminating the possibility of contamination of the sample.

Deanna Rhoades (Sullivan) added that this low-flow sampling helps prevent volatilization of the volatiles that may be in groundwater. This makes for a more accurate sample. Ms. Smith asked if that would be the standard for water sampling. Ms. Rhoades stated that is the standard that has been in place for several years now. Mr. Perry stated the Navy has a Quality Assurance Officer, Nars Ancog, and this sampling methodology was mandated by him.

Mr. Sullivan stated he would like to congratulate Ms. Smith on her election as the RAB Community Co-Chair to the Alameda Point RAB. Ms. Smith stated she is the institutional seat for Audubon and Sierra Clubs on the Alameda Point RAB.

Future Meeting Agenda Items

Mr. Sullivan stated that the next meeting is scheduled for Tuesday, 17 February 2009 at the Casa de la Vista. Mr. Sullivan stated the Navy would present a “look-back” at the work accomplished in 2008, and a “look-ahead” at all of the work planned for 2009. Mr. Sullivan said the next RAB meeting would also include the standard updates, and the agenda items will be refined at the BCT meeting, and on the RAB conference calls. Mr. Sullivan said the date of the RAB conference calls has been changed to accommodate RAB member schedules. The calls will now be on the last Wednesday of the month prior to the RAB meeting. The next call is scheduled for 28 January 2009 at 7:00 p.m. Mr. Sullivan said he would send out a revised schedule and an updated call-in number.

Mr. Sullivan reported that the Navy had a booth at the 25 October 2008 TI Community Picnic. He noted it was a nice day, with several hundred people attending. Many residents, about 25, came to the Navy booth to talk to Mr. Sullivan and Mr. Perry. Mr. Perry stated the Navy had invited more residents to come to the RAB meetings, and stated they hope to see more people attend. Mr. Sullivan stated the Navy hopes to be invited to attend again next year.

Mr. Sullivan thanked everyone for attending and for participating in the holiday potluck, and the meeting was closed.

December 2008 RAB Meeting Handouts

- TI RAB Meeting No. 139 Agenda, 16 December 2008
- Field Efforts Site 12 (TI Housing) Removal Action Update
- Field Efforts Site 12 Arsenic in Groundwater Treatability Study
- Site 12 Soil Gas Investigation
- Site 27 Draft FS Update
- Document Tracking Sheet, 16 December 2008
- Field Schedule, 16 December 2008

NAVAL STATION TREASURE ISLAND
ENVIRONMENTAL RESTORATION ADVISORY BOARD MEETING
Tuesday, 16 December 2008
7:00 PM.
Casa de la Vista (Building 271)
Treasure Island

MEETING NO. 139

- 6:00 – 7:00 **Optional Potluck Holiday Social**
- 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 (Soil Gas Investigation and Arsenic in Groundwater Treatability Study)**
Lead: Kevin Hoch, Tetra Tech EMI and Pete Bourgeois, Shaw Environmental & Infrastructure
- 7:25 - 7:40 **Site 12 (TI Housing) Removal Action and Access Update**
Lead: Pete Bourgeois, Shaw Environmental & Infrastructure
- 7:40 – 7:55 **Site 27 Feasibility Study Report**
(Planned issue December 2008, Comments due January 2009, please refer to the Document Tracking Sheet for the most up to date schedule)
Lead: Charles Perry, Navy Lead Remedial Project Manager
- 7:55 – 8:05 **Site 32 PCB Soil Abatement Workplan**
(Planned issue December 2008, Comments due January 2009, please refer to the Document Tracking Sheet for the most up to date schedule)
Lead: Pete Bourgeois, Shaw Environmental & Infrastructure
- 8:05 – 8:10 **Upcoming Documents and Field Schedule**
Lead: Kevin Hoch, Tetra Tech EMI
- 8:10 – 8:15 **August 2008 RAB Meeting Minutes**
Lead: James Sullivan, Navy Co-Chair
(Draft October Meeting Minutes will be distributed in January 2009)
- 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



Field Efforts Solid Waste Disposal Areas

December 16, 2008
NAVSTA Treasure Island
RAB Meeting



Work at SWDA's

- Excavation efforts at SWDA A&B on hold till completion and approval of "Field Work Variance" and updated RAD plans.
- The Low Level RAD stockpile has been placed in bins.

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

Site 6 After Soil Stockpile has Been Removed



Stockpile Location Cleaned of Soil in Preparation for Final RAD Survey

Site 6 Efforts



Scanning Equipment that was used During the Bin Loading

Site 6 Bin Removal Process



Once a Bin has been filled, the following process is completed:

1. Bins are weighed and then the outside of the bin is scanned for dose rate.
2. The truck then moves the bin into a fenced area controlled by EMS, within Site 6.
3. Bins are then sampled, with a 5-point composite sample. The results are on a 3-week Turnaround Time.
4. Once results are received and reviewed, the bins are moved into the clean zone in preparation for removal.
5. The bins are then scanned for dose rate one last time and secured for shipping.
6. Bins are brought back to the site empty and a surveyed on the inside, and once determined clean, are lined and filled again.

Radium Containing Item at SWDA A&B



- Please Look At Pull out Figure Attached



Disposal of Soil Not impacted by Low Level RAD



In Class I Cal-Haz Waste Soil, Roughly 10,138 Tons has been Disposed Of Off-site at an Approved Landfill. Currently stockpiled for disposal there is 450 tons of soil.

In Class II Non-Cal-Haz Waste Soil, Roughly 10,800 Tons has been Disposed Of Off-site at an Approved Landfill. Currently stockpiled for disposal there is 840 tons of soil.

Disposal of Low Level RAD Impacted Soil



To Date at Site 6:

EMS Has Removed 463 Bins for Disposal

EMS has 87 Bin's on Site, 83 have been filled with soil the other 4 remain empty awaiting loading.

Soil Stockpile no longer exists

- Each Bin contains roughly 17.7 tons of Low Level Radiological Waste
- Bins are Currently Being Weighed and Sampled by EMS

SWDA Restoration



Project Duration: Updated Current Forecast:

Excavation Work at SWDA A&B Started on September 25, 2007
with an Estimated Completion Date of February 2009
Completion of soil disposal / demobilization: April 2009

Next Navy RAB Meeting:

The Casa De la Vista
Tuesday, February 17th at 7:00 PM
James.b.sullivan2@navy.mil

Navy Web Site:

www.bracpmo.navy.mil



Field Efforts Site 12 Treatability of Dissolved Arsenic and TPH

December 16, 2008
NAVSTA Treasure Island
RAB Meeting

Drilling Efforts at Site 12, near Building 1311



- Prior to Drilling, Each Location Was Hand-Augured to 5-Feet below ground surface. Making Sure an Unidentified Utility was not Present.

Drilling Efforts at Site 12



Protective Plywood was placed on the grass to prevent damage to the grass.

Schedule and Next Steps at Site 12



- **Field Work:**

- Well Development will begin on 12/22 and completed on the 12/23/08
- Well Sampling will begin on 12/22 for wells that already exist on site, and the new wells will be sampled starting the first week of January 09
- The Design Data Investigation will be started in mid January 09.



Field Effort:

**Soil Gas Investigation
Site 12**

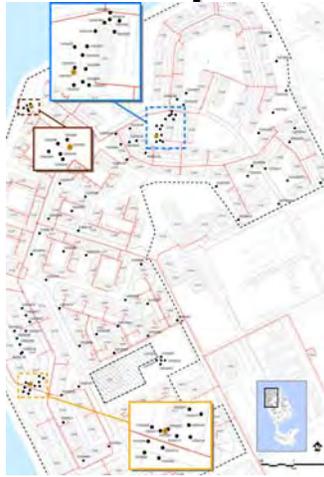
**December 16, 2008
NAVSTA Treasure Island
RAB Meeting**



Mobile Laboratory (Cont.)



Sample location Map



Investigation Summary



- Collected 122 samples between November 10th and 21st
- Analyzed for VOCs that were previously detected at low levels at Site 12
- Phase I focused on the specific areas where VOCs were detected previously in soil or soil gas
- Phase II included 1 step-out location and 40 samples in areas not previously sampled
- All locations monitored for methane



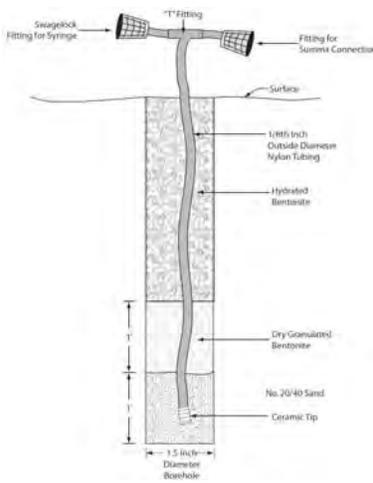
Probe Installation



Probe Installation (Cont.)



Well Diagram



Completed installation



Completed installation (Cont.)



Collection of soil vapor



Mobile Laboratory



Sample Analysis



Real-Time Data



Split Samples



Results



- Preliminary results show only two samples slightly exceeded screening criterion
- Methane was detected in 2 areas
 - PUC was notified and conducted a site walk. Evidence of a leak in the natural gas line was found.
- Final results will be presented in a Technical Memorandum to be released in January 2009.





Feasibility Study for Site 27, Former Skeet Range Naval Station Treasure Island San Francisco, CA

Presented by: Charles Perry, Navy RPM
NAVSTA TI RAB MEETING
December 16, 2008



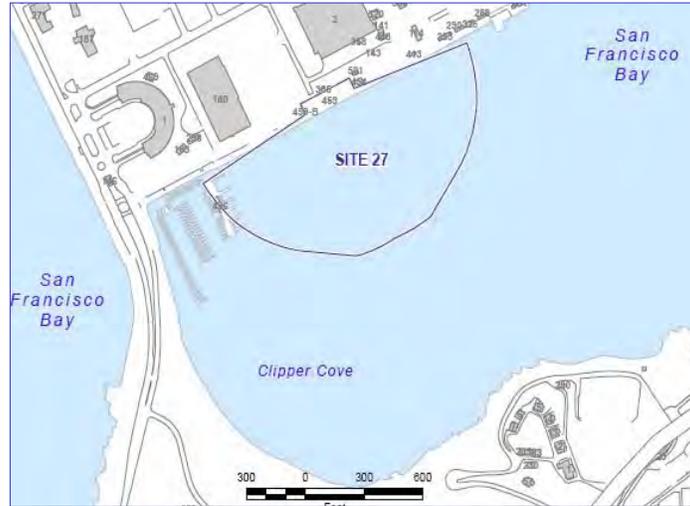
Presentation Overview



- Background of Site 27 and initial FS
- Investigations conducted since previous draft of FS
- Overview of changes to in Second Revised Draft FS
- Closure Strategy
- Schedule



Site 27 Location



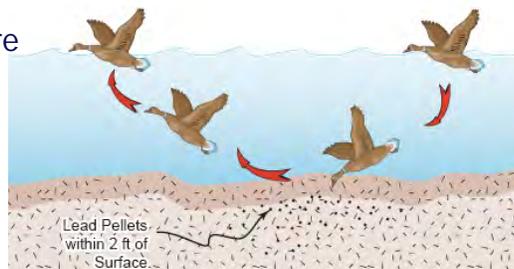
3



Contaminant of Concern



- Lead Shot
 - Complete exposure pathway for diving ducks within 75 feet of shoreline
 - Incomplete exposure pathway in remainder of site where lead shot is buried beyond the reach of diving ducks
 - No complete exposure pathway for humans



4



Previous Draft of FS



- Second Revised Draft FS Report for Site 27 - December 19, 2008
 - January 27, 2004: Draft
 - December 10, 2004: Revised Draft
- Previous Revised Draft considered the following alternatives:
 - Alternative 1: No Action
 - Alternative 2: Institutional Controls
 - Alternative 3: Sediment Removal

*Alternative 2 was revised in the Second Revised Draft FS based on subsequent investigations at Site 27

5



Subsequent Investigations



- Uncertainty about the sediment accumulation in Clipper Cove was identified as a data gap
 - New bathymetric survey conducted
 - Results indicated sediment is naturally being deposited at Site 27, except in the area within 150 feet of the shoreline (nearshore area)



6



Subsequent Investigations



- Uncertainty about the presence of lead shot in Clipper Cove was identified as a data gap BM4
 - Investigation of lead shot within the nearshore area conducted in 2008
 - Results indicated lead shot is accessible to diving ducks within 75 feet of the shoreline



7



Remedial Action Objectives



- 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.
- 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 where lead shot is currently buried below 2 to 4 feet of sediment.

8



Revised Remedial Alternatives



Alternative 1: No Action

Alternative 2: Focused Dredging and Backfill, Off-Site Disposal of Sediment, Institutional Controls, and Sediment Monitoring

- Dredging to 2.5 feet and backfill with sand and rock armor to original bottom profile
- ICs to prevent disturbance of sediment
- Monitoring to ensure effectiveness of ICs

Alternative 3: Site-Wide Dredging and Off-Site Disposal of Sediment

- All lead shot impacted sediments would be removed
- Allows for unrestricted use

9



Remedial Alternatives Evaluation



Remedial alternatives evaluated against 7 of 9 National Contingency Plan (NCP) criteria:

1. Overall Protection of Human Health and the Environment
2. Compliance with Applicable or Relevant and Appropriate Requirements
3. Long-Term Effectiveness and Permanence
4. Reduction of Toxicity, Mobility, or Volume through Treatment
5. Short-Term Effectiveness
6. Implementability
7. Cost

State Acceptance and Community Acceptance will be evaluated after comments are received on the FS report and the proposed plan.

10



Site 27 Closure Strategy



- Finalize Feasibility Study
- Prepare Proposed Plan and Record of Decision
- Implement preferred alternative

11



Site 27 FS Schedule



- 12/19/08: Submitted Draft Second Revised FS Report for Review
- 1/19/08: Comments Due
- 03/03/09: Submit Final FS Report

12



Questions?



**Naval Station Treasure Island
Environmental Cleanup Program
Document Tracking Sheet
December 2008 - April 2009**

Item	Document Title & Information	CTO/DO	INTERNAL DRAFT		DRAFT							Priority Level	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								
							DTSC	Water Board	EPA	TIDA	RAB								OTHER						
SulTech - Non Petroleum Related Documents																									
	Site 32 Remedial Investigation Report RPM: Scott Anderson PM: Christopher Ohland	94	08/18/06	✓	09/17/06	✓	10/20/06	✓	02/14/07	✓	✓	✓	✓	✓	✓	07/27/07	✓	NA	08/29/08	✓	09/26/08	✓	10/28/08	✓	
1	Site 33 Remedial Investigation Report RPM: Scott Anderson PM: Kevin Hoch	103	09/07/06	✓	10/16/06	✓	10/17/08	✓	11/26/08	✓	✓	✓				3	12/24/08	01/07/09	01/21/09	01/31/09		02/14/09			
2	Sites 8, and 29 Interim RI Report RPM: James Whitcomb PM: John Warmerdam	104	07/23/07	✓	08/10/07	✓	11/19/07	✓	12/19/07	✓	X	✓	✓			09/22/08	✓	10/22/08	✓	12/12/08	12/16/08	12/30/08		Water Board deferred to DTSC by email 1/15/2008.	
3	Site 28 Revised Remedial Investigation Report RPM: James Whitcomb PM: John Warmerdam	104	NA	✓	NA	✓	NA	✓	NA	✓	X	✓	✓			09/22/08	✓	10/22/08	✓	12/12/08	12/16/08	12/30/08		Site 28 Revised RI was separated from Sites 8 and 29 Data Summary for the Internal Final and Final versions.	
4	Site 21 Feasibility Study RPM: Scott Anderson PM: Jean Michaels	144	7/28/08* 9/30/08**	✓	9/10/08* 10/22/08**	✓	11/10/08	✓	12/10/08						1	TBD	TBD	TBD	TBD	TBD	TBD			* Navy technical review ** Navy legal review	
	Soil Gas Investigation SAP RPM: James Whitcomb PM: John Warmerdam	117	04/11/08	✓	05/28/08	✓	06/04/08	✓	06/17/08	✓	✓	✓	✓			09/26/08	✓	10/09/08	✓	11/03/08	✓	11/05/08	✓	11/18/08	✓
5	Site 27 Feasibility Study RPM: Charles Perry PM: Katie Henry	43	09/24/08	✓	11/07/08	✓	12/19/08		01/18/09							02/15/09		03/01/09		03/17/09	03/27/09	04/10/09		Navy legal and technical reviews to occur concurrently.	
6	Soil Gas Investigation Tech Memo RPM: Charles Perry PM: John Warmerdam	117	02/24/09		03/10/09		03/17/09		03/31/09							04/14/09		TBD		04/14/09	04/28/09	05/05/09			
Sullivan Consulting Group - Non Petroleum Related Documents																									
	2007 Annual Groundwater Status Report, Site 12 RPM: James Whitcomb Hannah Thompson	CLIN0002	05/30/08	✓	06/17/08	✓	07/03/08	✓	09/12/08	✓	✓	X	✓			11/07/08	✓	11/19/08		11/21/08	✓	12/01/08	✓	12/10/08	✓
7	2007 Annual Groundwater Status Report, Sites 6 and 25 RPM: James Whitcomb Hannah Thompson	CLIN0002	06/20/08	✓	09/02/08	✓	09/05/08	✓	11/12/08	X	X	X	✓			12/02/08		NA		12/17/08	12/27/08	01/07/09		EPA will not comment per email 9.16.2008 DTSC no comments 10.20.2008	

Naval Station Treasure Island
Environmental Cleanup Program
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							DTSC	Water Board	EPA	TDA	RAB								OTHER						
Shaw Group																									
	Site 12 Work Plan for Arsenic in Groundwater Pilot Study RPM: Scott Anderson PM: Pete Bourgeois	FZN1	09/27/07	✓	10/29/07	✓	11/15/07	✓	12/21/07	✓	✓	X	✓			10/08/08	✓	10/24/08	✓	TBD	TBD	10/31/08	EPA deferred comments to DTSC/Water Board via email 1/11/2008.		
8	PCB Field Activity Report RPM: Scott Anderson PM: Pete Bourgeois	FZN1	08/05/08	✓	09/08/08	✓	09/11/08	✓	10/24/08	✓	X	X	✓			TBD		TBD		TBD	TBD	TBD	EPA deferred comments to DTSC. Water Board deferred comments to DTSC.		
9	PCB Soil Abatement Parcel T-111/Site 32 Work Plan RPM: Scott Anderson PM: Pete Bourgeois	FZN1	11/24/08	✓	01/05/09		01/15/09		02/14/09							TBD		TBD		TBD	TBD	02/11/09			
Tetra Tech EM Inc.																									
10	Island Times Newsletter #15 RPM: Charles Perry PM: Marcie Rash	FZN6	12/09/08		12/23/08		01/09/09		01/23/09							NA		NA		01/30/09	02/06/09	02/13/09			
11	Fact Sheet: Radiological Program Update RPM: James Whitcomb PM: Marcie Rash	FZN6	TBD		TBD		TBD		TBD							TBD		TBD		TBD	TBD	TBD			
12	Site 12 Radiological Risk Assessment RPM: James Whitcomb PM: Marcie Rash	FZN6	09/24/08	✓	10/07/08	✓	10/07/08	✓	10/31/08				✓		2	TBD		TBD		TBD	TBD	TBD	The version sent 10/7/08 is really a Draft Final version.		
	Site Management Plan RPM: Charles Perry PM: Marcie Rash	FZN6	05/30/08	✓	06/23/08	✓	06/27/08	✓	08/01/08	✓	✓	X	✓			09/05/08	✓	09/19/08	✓	10/21/08	✓	11/17/08	✓	11/26/08	✓
Barajas & Associates, Inc.																									
13	Site 30 Record of Decision RPM: Charles Perry PM: Margaret Berry	25	04/30/08	✓	08/18/08	✓	10/17/08	✓	12/02/08				✓		4	12/30/08		01/06/09		02/05/09	02/12/09	02/19/09			
14	Site 31 Record of Decision RPM: Charles Perry PM: Margaret Berry	25	04/23/08	✓	09/11/08	✓	10/17/08	✓	12/02/08				✓		5	12/30/08		01/06/09		02/05/09	02/12/09	02/19/09			
	Site 11 Remedial Investigation Report																								

Naval Station Treasure Island
Environmental Cleanup Program
Document Tracking Sheet
December 2008 - April 2009

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							DISC	Water Board	EPA	TIDA	RAB							
15	RPM: Scott Anderson PM: Margaret Berry	24	01/18/08 ✓	10/07/08 ✓	11/06/08 ✓	12/30/08							TBD	TBD	TBD	TBD	TBD	
Tetra Tech EC, Inc.																		
	Final Status Survey for Building 343 RPM: James Whitcomb PM: Brian Maidrand	21	12/26/07 ✓	03/13/08 ✓	04/07/08 ✓	05/07/08 ✓	X	X	✓	✓			05/21/08 ✓	10/27/08 ✓	10/27/08 ✓	10/27/08 ✓	10/31/08 ✓	
	Final Status Survey for Building 344 RPM: James Whitcomb PM: Brian Maidrand	21	01/02/08 ✓	01/31/08 ✓	05/07/08 ✓	07/11/08 ✓	X	X	✓	✓			07/10/08 ✓	10/27/08	10/27/08 ✓	10/27/08 ✓	10/31/08 ✓	
	Scoping Survey Report for Building 233 RPM: James Whitcomb PM: Brian Maidrand	21	01/04/08 ✓	03/13/08 ✓	05/07/08 ✓	07/11/08 ✓	X	✓	✓	✓			09/23/08 ✓	10/27/08	10/27/08 ✓	10/27/08 ✓	10/31/08 ✓	
Chadux and Tetra Tech JV																		
16	Site 12 EE/CA RPM: Jim Whitcomb PM: John Warmerdam	44	01/23/09	02/22/09	03/08/09	04/07/09							05/05/09	TBD	TBD	TBD	TBD	

**Naval Station Treasure Island
Environmental Cleanup Program
Document Tracking Sheet
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						Date Due	DTSC	Water Board	EPA	TIDA							

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.

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
December 2008-April 2009

Item	Activity & Investigation Area	DTR #	Field Dates	Navy RPM	CTO/DO	PM	FTL	Complete
Shaw								
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	Peter 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	Peter 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: 02/28/09	Jim Whitcomb (619) 532-0936	10	Peter Bourgeois (415) 277-6983	Peter Bourgeois (415) 277-6983	
4	Arsenic in Groundwater Pilot Study <i>Site 12</i>	Doc 10	Start: 10/27/08 Finish: TBD	Scott Anderson (619) 532-0938	FZN1	Peter Bourgeois (415) 277-6983	Peter Bourgeois (415) 277-6983	
5	PCB Soil Abatement Parcel T-111/Site 32 <i>Site 32</i>	Doc 12	Start: 02/09/09 Finish: TBD	Scott Anderson (619) 532-0938	FZN1	Peter Bourgeois (415) 277-6983	Peter Bourgeois (415) 277-6983	
SulTech								
	Soil Gas Investigation <i>Site 12</i>	Doc 6	Start: 11/11/08 Finish: 11/24/2008	James Whitcomb (619) 532-0936	STAACRU	John Warmerdam (415) 222-8254	Hannah Thompson (415) 321-1786	✓
TREVET								
	Site 12 and 6 Groundwater Sampling <i>Site 12</i>	Doc N/A	Start: 12/08/08 Finish: 12/12/08	Jim Whitcomb (619) 532-0936	CLIN	Greg Alyanakian (858) 869-3110	Greg Alyanakian (858) 869-3110	✓
EMS								
7	Site 12 Removal Action Soil Sampling <i>Site 12</i>	Doc N/A	Start: 12/05/07 Finish: TBD	Jim Whitcomb (619) 532-0936	NA	Dawn Roarty (916) 919-4785	Salem Attiga (925) 939-0687	

Naval Station Treasure Island
Navy Field Schedule
December 2008-April 2009

Item	Activity & Investigation Area	DTR #	Field Dates	Navy RPM	CTO/DO	PM	FTL	Complete
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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.