



FINAL

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

Meeting # 142

16 JUNE 2009

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]), Ross Steenson (San Francisco Bay Regional Water Quality Control Board [Regional Water Board]), Medi Sunga (DTSC)

Other Navy and Regulatory Staff and Consultant Representatives in attendance:

Scott Anderson (Navy) Pete Bourgeois (Shaw Environment and Infrastructure [Shaw]), Neil Hey (Shaw), Kevin Hoch (Tetra Tech EM Inc. [Tetra Tech]), Alec Naugle (Regional Water Board), Charles Perry (Navy), Denise Tsuji (DTSC), Tommie Jean Valmassy (Tetra Tech)

Public Guests

Chris Boylen, Andrea McHenry, Tom Peterson, Dawn Roarty, Bart Rugo, Jeff Shaw, Eric Smith, Dan Stone (John Stewart Company), Jackie Udin

Welcome Remarks and Introductions

James Sullivan (Base Realignment and Closure [BRAC] Environmental Coordinator) opened the 16 June 2009 meeting at 7:08 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 Restoration Advisory Board (RAB) is on a consistent schedule of meeting every other month. He noted the remaining meetings for 2009 are already scheduled (August, October, and December.) Mr. Sullivan stated the Navy had held a site tour just prior to the RAB meeting. Because there is still daylight late enough, the Navy often tries to have a site tour the hour before the meeting at the June and August RAB meetings. He noted the Navy would discuss whether or not to have another tour before the August meeting.

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. Chris Grasteit (RAB member) stated he was aware that some Navy contractors had been taking swipe samples from several units to test for lead. He asked if the results would be available, at least to the people that live in those units, and when. The project manager for that project, Scott Anderson (Navy) stated that a report with all of the results would be produced approximately three or four months after the field work is complete. The report will go through internal Navy review, and then be available to the public via the Information Repositories. Mr. Anderson stated he would also provide a copy of the report to Mr. Grasteit if he would like one.

Field Activities Update, Sites 21, 24, and 32

Mr. Sullivan introduced Pete Bourgeois (Shaw) to provide an update on various field activities. (Attachment B). Mr. Bourgeois noted that the people who attended the pre-meeting tour that evening were shown the location of these sites. He stated that Site 21 is near the Sailing Center, Site 24 is near the middle of the island, and Site 32 is behind the Waste Water Treatment Facility, in the upper right corner of TI.

Sites 21 and 24 are where the Navy has an active bioremediation system working. Mr. Bourgeois stated that the second round of well sampling for Site 21 will take place later in June. He noted that all three down-gradient treatment loops at Site 24 were active. The Site 24 source area, which has a separate injection extraction system, is also active and had been running for about a month. He noted that, to date, Shaw had treated approximately five million gallons of water at Site 24 - 3.8 million in the main plume, and 1.2 million in the source area. He noted the source area, around Building 99, is much smaller than the main plume.

Mr. Bourgeois explained the systems will run for one and a half to two months, then be turned off for about eight months while allowing the bugs [bacteria] to do their work. The team will continue to monitor the performance of the bugs during those eight months. He added that this is the second phase of the work, so the team already knows that the bugs are successful in achieving their purpose. He explained the bugs break down tetrachloroethene (PCE) and trichloroethylene (TCE) into ethene, which is a non-hazardous substance, and then the bugs die off.

Mr. Sullivan noted that Sites 21 and 24 are undergoing groundwater cleanup only. The site has solvents that had been released into the groundwater, and that is what is being addressed. He noted groundwater is about four feet beneath the ground surface.

Mr. Bourgeois moved on to the Site 32 field work. He explained Site 32 is right behind the Waste Water Treatment Facility, and is the location of the old

Pandemonium mock training ship. He stated the final work plans were distributed at the beginning of June. Shaw also completed clearing and grubbing the site at that time. Mr. Bourgeois added that Site 32 also contains Building 463, an old tear-gas training building. When Shaw took samples of the paint at that building, they found traces of lead-based paint on the exterior roof. A contractor was working to abate the lead-based paint prior to planned demolition of Building 463.

Mr. Bourgeois stated that, prior to excavation at Site 32, the storm drains at the site were plugged with inflatable plugs, called "pigs", and plastic sheeting was put in place on top of that. So any water from rain or dust suppression will not go down the drain, and will be collected.

Mr. Bourgeois pointed out the location of the Pandemonium mock ship, and noted it had been laid on a concrete pad. All of the asphalt and concrete had to be removed prior to excavation. Mr. Bourgeois showed a photograph of the concrete demolition and related dust control, and the trucks hauling away the concrete. He noted that Shaw conducted air monitoring and has data to show that dust suppression was successful. He stated the concrete and asphalt had been removed the week prior to this RAB meeting.

Andrea McHenry (resident) asked if the Pandemonium was the ship that had been loaded with nuclear or radiological waste and then washed down, and if that is why the concrete had to be removed. Mr. Bourgeois stated the contaminants of concern at this site are polychlorinated biphenyls (PCB), low-level dioxins, and some metals, and the concrete was removed to allow the field crew to excavate the soil beneath it. Prior to the site being used for the Pandemonium training area, it was an unpaved area. It is possible that oil was spread out over the site to suppress dust (formerly a common practice) and that oil may have contained PCBs. He noted most of the contamination has been found close to the surface.

Mr. Anderson added that the Pandemonium was a training vessel [a mockup]. He noted there was a radiological substance that was sometimes used for training; the substance had a half-life measured in hours. He stated there are no issues with that substance at the site.

Mr. Bourgeois showed photographs of the soil excavation at Site 32. He said the area would be excavated to a depth of two feet, then some areas would be excavated to four feet, and some down to nine feet. He then showed photographs of the stockpile of excavated soil. The soil will be sampled to determine whether it should go to a Class II non-hazardous waste or a Class I hazardous waste facility in California.

Mr. Bourgeois then showed photographs of the lead abatement at the tear-gas building that he had mentioned earlier. He noted it is a small building that has one entrance and one exit, and served as a tear-gas training facility for the Navy. The paint is being removed all the way down to the concrete prior to demolition.

In summary, Mr. Sullivan explained Sites 21 and 24 are examples of groundwater cleanup, and Site 32 is a soil cleanup. He added that groundwater at NAVSTA TI is not used for drinking water. Any water used on the base is piped in from the City of San Francisco.

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 (Attachment C). Mr. Bourgeois stated that Site 12 is the location of the three solid waste disposal areas (SWDA). He noted those who attended the tour prior to this meeting had driven along Northpoint Drive and Bayside Drive, where two of the three SWDAs have been completed. He noted SWDA A&B is the area where work is ongoing.

Mr. Bourgeois stated that, as had previously been reported at the RAB, there had been a project delay at SWDA A&B. Elevated alpha readings had been detected, causing Shaw and the Navy to rewrite their work plans, and health and safety plans to protect workers, and to update the different instrumentation that needed to be used on site. He stated that the Radiological Protection Plan has been approved by the Navy Radiological Affairs Support Office (RASO) and by the Navy BRAC Office, so removal of the rest of the concrete at SWDA A&B can be completed.

Mr. Bourgeois noted specifically that at a previous RAB meeting, he had reported that a carport at Building 1321, shared by units A and B, had elevated alpha detections. With the new approved plan, Shaw is removing the concrete and scanning it to see if it needs to be disposed of as low-level radiological waste.

Mr. Bourgeois stated the final revised Radiological Protection Plan had been distributed to the RAB. He noted there was a shipping error and one person got all of the copies for the RAB, so the rest of the RAB members would get their copies tonight at this meeting.

Mr. Bourgeois showed a map of the current excavation, indicating the depth of excavation at various locations in Site 12. He stated they have excavated to a depth of one foot in most locations, and down to four feet in other locations. He noted there is one location, near Buildings 1319 and 1321, where Shaw is excavating to a depth of 5 feet because they detected contamination at the 4-foot depth.

Mr. Bourgeois stated that since the new work plan has been approved, Shaw has not yet started further excavation. They are currently removing the carport at Building 1321. Mr. Bourgeois stated there were some overweight bins, so Shaw began by removing some soil from those to reduce the weight, and that was done in the Lester Court area. Mr. Bourgeois stated Shaw has tight controls in place to monitor what enters and exits the site, including "frisking" the trucks. Mr. Bourgeois then showed photos of the field technicians cutting the concrete at the carport at Building 1321, and a senior technician scanning the area.

Mr. Bourgeois noted the team was having trouble with one area of the concrete slab for the carport. It had been poured as part of the building slab and was 12 inches thick, whereas the other portions of the carport are only 4 inches thick. He stated it had been difficult to find a saw that will cut to a depth of 12 inches, but one had been located and would be at the site the next day. In the interim, the team had been working on the area that is 4 inches thick.

He noted the concrete removal is very precise work. The concrete is not being broken, it is being cut, then flipped over and scanned. Mr. Bourgeois showed some photos of the blocks of concrete as they are cut, then lifted and flipped.

Mr. Bourgeois stated the expected completion date for the excavation portion of the work is now October 2009, however, that depends on what is found during the excavations. He noted tidal influence could also affect the excavation schedule. Mr. Bourgeois stated he would give an update at the next RAB meeting in August.

Mr. Grasteit stated he had heard there could be remediation in some of the backyards. He asked if that was part of the scope of this current project and when an update on that work might be provided. Mr. Bourgeois stated the only building with work in the backyard that is part of the scope of the current project is Building 1321. Mr. Grasteit asked about future work in the backyards of Buildings 1323 and 1325. Mr. Bourgeois stated there would be an evaluation of all of the backyards within the green fenced area, though not under the current project. He added that Shaw has already scanned several areas around the current excavation footprint, including around Building 1325 and areas on Northpoint and Bayside Drive.

Mr. Bourgeois stated the current project will call for Multi-Agency Radiation Survey and Site Investigation Manual (MARSSIM) 2 and 3 surveys which will include taking surveys outside of the current project area. He added that some of those surveys have begun in the areas noted above, and to-date, Shaw had found only one anomaly outside of the excavation footprint. That information was presented at the last RAB meeting; it is the location where Shaw placed a

metal plate over the area to prevent public access in the interim until the anomaly can be removed.

Ms. McHenry asked if people would be able to walk all the way around the island again by October. Mr. Bourgeois stated currently there is access to Perimeter Road and the boat ramp and launch area from behind Buildings 1235 and 1237. He noted the parking lot for Building 461 is still fenced off. Shaw is no longer stockpiling soil in that area, but it is fenced off because it is a buffer zone between the work and the residents. So the area of Perimeter Road from the boat ramp all the way to the Lester Court area is open, but the section along Lester Court and Westside Drive is closed due to the excavation. Mr. Sullivan stated that once the excavation is complete, the road will be open to allow pedestrian access from 9th Street all the way to the boat ramp. He noted there are other projects on the island where the Navy must use certain areas for staging, so even when this excavation is complete, residents still may not be able to make a complete loop of the island.

Site 12 Arsenic in Groundwater Pilot Study Update

Mr. Sullivan introduced Neil Hey (Shaw) to provide an update on the Site 12 arsenic in groundwater treatability study (Attachment D). Mr. Hey stated he would give a quick update on the pilot study being conducted in the area of Buildings 1311 and 1313 within Site 12. Mr. Hey explained the purpose of the pilot study is to evaluate the effectiveness of enhanced aerobic techniques to lower the soluble arsenic concentrations in groundwater, and to promote biodegradation of residual total petroleum hydrocarbons (TPH). The second objective is to establish optimal operating conditions and design the well layout for a full-scale implementation of this technology, assuming that it is successful.

Mr. Hey explained there had been a release of TPH into the subsurface that resulted in elevated concentrations of arsenic in groundwater in the area near Buildings 1311 and 1313, and the Navy and Shaw are trying to address that. The petroleum hydrocarbons are believed to be from an underground storage tank (UST) that may have been in the area, but to date no evidence has been discovered to indicate that a UST is currently there. Mr. Hey noted that the concentrations of dissolved TPH and arsenic in groundwater are not a concern for human health, but the dissolved arsenic may pose a potential risk to shoreline (ecological) receptors.

Mr. Hey stated that the microbes digesting the TPH are causing conditions in the soil that allow naturally occurring arsenic in soil to mobilize into the groundwater. The Navy and Shaw hope to change conditions by adding oxygen so the arsenic will adsorb back to soil. To add oxygen into the soil, the team is using a technology called low-flow air sparging to push air back into the environment. Part of the study will be to see whether any fugitive air emissions

are created when air is added. They will also use vapor extraction as an auxiliary technology.

The first step to the pilot study was to implement the design data investigation, which has happened. Shaw installed wells in December 2008 and January 2009: five saturated zone observation wells, six vadose zone observation wells, and two sparge wells. Then baseline groundwater monitoring was conducted so pre-test and post-test conditions could be monitored. Sparge well testing began in February 2009, but had to be postponed mid-way through because of rain. Mr. Hey showed a diagram of the well layout, noting the areas where Shaw was conducting the pilot test, the various observation wells, and the sparge test wells. He noted the other locations on the figure are groundwater monitoring wells.

During monitoring, petroleum was detected, and upon further investigation, in April 2009, Shaw discovered a 1-inch thick layer of free petroleum product. Mr. Hey explained the free product was a pure form diesel fuel, and noted it floats on the water table. He stated the discovery of the free product would delay the arsenic treatability study. The arsenic could be treated, but with a continuous source of petroleum hydrocarbons that have to be addressed, arsenic could mobilize again.

Mr. Hey stated Shaw and the Navy went back to the BRAC Cleanup Team (BCT) to discuss the issue and the next steps. The recommended next steps are to confirm that the UST that was there was actually removed; that will be done by reviewing historic documents and aerial photographs, and a geophysical survey of the area if necessary. If the UST is still in place, the recommendation is to remove it. Then Shaw will delineate the lateral extent of the free product, and then remove the free product.

Mr. Hey showed the schedule for the project, which includes finalizing the free product investigation plan with the BCT in July, then amending the work plan document. Then the corrective action would be implemented, which may include removing a UST if one is in place, or just removing the free product. Then the team would be back on track for the treatability study, including completing the design data investigation, the pilot-scale test, and then preparing a technical memorandum.

Dale Smith (RAB member) asked how Shaw and the Navy would manage to keep the arsenic from mobilizing if they do not remove the petroleum from the soil. Mr. Hey explained part of the study is to enhance the degradation of the petroleum. Mr. Anderson stated that the Navy had anticipated that there would be low levels of residual petroleum that could be addressed with air sparging. Since more than just residual petroleum was found, the Navy and Shaw need to change the approach to address the petroleum.

Bart Rugo (Community member) asked for clarification on whether there was a UST still in place. Mr. Hey stated they are not certain and will find out. Mr. Rugo asked how Shaw would find out if there is a UST in place. Mr. Hey stated the team could use ground-penetrating radar, in addition to reviewing maps and historical documents to find out if a UST is still in place.

Ms. McHenry asked for clarification on the project; arsenic was present, and while treating that, an oil leak was found? Mr. Hey explained that the oil leak occurred [first] which resulted in mobilizing the naturally occurring arsenic in the soil into the groundwater as the diesel degraded naturally. Mr. Sullivan added that the diesel oil was dissolved in the groundwater. To protect the nearby bay from the arsenic, the Navy and Shaw began a study to address the arsenic. During that study, it was discovered there is diesel oil fuel on top of the groundwater that must be addressed before the arsenic study can proceed.

Ms. McHenry asked if the fuel could be from the Cosco Busan fuel spill. Mr. Sullivan stated the fuel there is not from the Cosco Busan fuel spill; it is old fuel that has to be from an old source, before the housing was built. Ms. McHenry asked if the Navy and Shaw would dig around until the source of the fuel was discovered. Mr. Hey stated they would first do a document review to see if there was documentation that the UST was removed, and then they may do a geophysical survey, if necessary, to determine whether the UST is still there. Mr. Anderson stated the geophysical survey would be conducted above-ground, with ground-penetrating radar or magnetics.

Ms. Smith asked how deep a tank might be, and whether it would be made of concrete. Mr. Hey said he did not know for certain, but likely the top of a tank would be within the top five feet of soil because the water table is within the top five feet of soil in that area. He added that he did not know if the UST would be concrete.

Mr. Grasteit asked if residents should expect disruptions in the Westside Drive and open public areas while the work is being done. Mr. Hey stated the geophysical survey would not create much disruption and would take only a half day to conduct if they do it. However, if a tank has to be removed, that would take more time, but would still be minimal. Mr. Bourgeois added that it is anticipated that a tank removal would not require any streets to be closed or limiting access to driveways.

Mr. Grasteit added that he had discussed the Perimeter Road path with the Navy and Mr. Bourgeois in the past, noting that the fences were placed so that pedestrians had to walk through the ivy and other landscaping where the path is closed. He noted that the fences had now been adjusted so people do not have to

walk through the ivy, and he thanked the Navy and Shaw for making those adjustments.

Site 31 Draft Remedial Action Work Plan (RAWP) Preview

Mr. Sullivan introduced Mr. Anderson to present the Site 31 work plan (Attachment E). Mr. Anderson pointed out Site 31 on a map, noting it is the asphalt area of the elementary school yard. Mr. Anderson gave a brief history of the site, stating the Navy had reviewed historic documents and aerial photographs and had done some field investigation at Site 31, and the adjacent site, the daycare facility, which is Site 30. During the field investigations, debris and contaminated soil was found in a few areas. Specifically, the soil contained lead, dioxin, and polycyclic aromatic hydrocarbons (PAH). Mr. Anderson showed a figure of the area, noting the three areas where contamination was found were Debris Area A and B; Debris Area C, and Debris Area D. He noted a time-critical removal action was conducted prior to the daycare center opening to remove contaminated soils in the area of the daycare center, and in the area between the school playground and 11th Street.

Mr. Anderson stated there is residual contamination underneath 11th Street and in two small areas, which he pointed to on the figure. As part of the CERCLA process, the Navy and their contractors did a Remedial Investigation report, which has been finalized, then a Feasibility Study to review various cleanup options for the site. A Proposed Plan was then prepared to document and get public comment on the Navy's preferred cleanup alternative. The Navy has prepared a Record of Decision (ROD) on what the final remedial action at the site will be. Currently the Navy is in the process of responding to agency comments on the ROD, then it will be finalized and a Remedial Action Work Plan (RAWP) will be issued.

Mr. Anderson stated the RAWP will describe what work is to be conducted based on the final selection in the ROD. In the ROD, the recommendation is to remove all of the soil in and around these identified areas until the cleanup action levels for lead, dioxin, and PAHs are met. When the RAWP is completed, the remedial action will be conducted.

Ms. Smith asked if the contamination beneath 11th Street would be addressed. Mr. Anderson stated yes, the contamination beneath the street would be removed, along with areas inside the school yard. Ms. McHenry asked how long it would take to do the work once the Navy gets to the point where the actual removal is conducted. Mr. Anderson stated that once the actual removal begins, it will take three to four months to do the removal, take confirmation samples, and backfill the site.

Mr. Grasteit asked if the street they are removing would be restored, or if they would just close it off. Mr. Anderson stated the Navy plans to restore the street because it is used to access the daycare facility. He noted the Navy is still working with TIDA on what the final restoration of other areas of the site would be.

Upcoming Documents and Field Schedule

Documents

Mr. Sullivan introduced Kevin Hoch (Tetra Tech) to review the Document Tracking Sheet (Attachment F) and the Field Schedule Sheet (Attachment G). Mr. Hoch referred to the two handouts, and said he would present the documents that will be issued or have comments due in the next 60 days:

- Final Soil Gas Investigation Technical Memorandum, 17 June 2009
- Draft Site 31 Remedial Action Work Plan, 15 August 2009, comments due 14 September 2009
- Draft Site 25 Request for Closure, 16 July 2009, comments due 15 August 2009
- Final Site 30 Record of Decision (ROD), 5 August 2009
- Final Site 31 ROD, 5 August 2009
- Draft 2008 Annual Groundwater Sampling Report for Sites 6 and 12, 10 July 2009, comments due 9 August 2009
- Draft Site 30 Land Use Control Work Plan, 10 August 2009, comments due 4 September 2009
- Draft Site 6 Data Gaps Investigation Work Plan/Sampling and Analysis Plan, 31 July 2009, comments due 31 August 2009

Mr. Sullivan explained that the cleanup process is a very regimented, step-by-step process, and each step has a related document, which is tracked on the Document Tracking Sheet. He noted that "RTC" stands for response to comment, and is the Navy's written response to comments made by the regulatory agencies and the RAB.

Field Schedule

Mr. Hoch noted the field activities scheduled within the next sixty days which are shown on Attachment G.

April 2009 RAB Meeting Minutes

Mr. Sullivan began with the April 2009 meeting minutes, which were emailed and mailed out hard copy in the packet for this meeting. Mr. Brennan made one correction. Ms. Smith then noted that the minutes indicate there is an attachment, but there were no attachments. Mr. Sullivan clarified that for the draft minutes, the attachments are not included. When the minutes are finalized,

the attachments will be included. The minutes were approved and accepted pending incorporation of the minor change from Mr. Brennan.

Mr. Sullivan stated that he is still working on the draft of the October 2008 RAB minutes, and those are the only outstanding minutes that need to be sent to the RAB. Mr. Sullivan thanked everyone who works to produce and review the minutes, noting they are good quality and have few comments. He added that they can be found in the Navy's Information Repositories. One information repository is on TI, in Building 1, and the other is at the San Francisco Main public library.

Co-Chair Announcements

Alice Pilram (RAB Community Co-Chair) stated the annual celebration of the summer solstice, called "Sailstice" would take place on NAVSTA TI on Saturday. She noted it is the center of the solstice celebration for northern California. The "Sailstice" is a free festival, held near the administration building, close to the waterfront. There will be free sailboat rides, bands, and booths selling food. She noted there would also be a free treasure hunt for children, sponsored by the Yacht Club. She stated cannons would be shot off twice during the day, and noted they will be loud, but non-toxic, harmless, and permitted. Ms. McHenry asked if the festivities would continue on Sunday. Ms. Pilram stated there would be some activities on Sunday, but the majority would be on Saturday.

BRAC Cleanup Team Update

Mr. Sullivan gave a brief update on the two BCT meetings held since the last RAB meeting, one in May and one in June. He noted the May meeting was held over two days in San Diego. The team used that time for an extended discussion on the Site Management Plan (SMP), which gives a detailed schedule for each of the project sites at NAVSTA TI. During the May meeting there was also an extended discussion of the Remedial Investigation (RI) approach for Site 12. He noted that the Site 12 RI document will be out in draft form sometime next year.

Mr. Sullivan stated the June BCT meeting was the standard half-day meeting, and was an update on all of the ongoing projects. He added that there are minutes of those meetings which can also be found in the Information Repositories.

Other Public Comments and Announcements

Mr. Brennan stated the Citizen's Advisory Board (CAB), of which he is a member, had been inactive during the past month. He stated the CAB would meet on 18 June, 2009 at 6:00 p.m., and the meeting is open to the public. He stated the meeting would be at the Port's Pier 1 building, which is a big conference center. The meeting would discuss the development and guidelines that the CAB is working on.

Ms. McHenry stated she knows the RAB meetings are about cleanup, but had a question about bus shelters on NAVSTA TI. She noted most of them are destroyed, and do not provide shelter for those who wait for the San Francisco Municipal Transit Agency (MUNI) everyday. She stated she had been told that MUNI is not responsible for the shelters, nor is the City of San Francisco (City), but rather it is the Navy's responsibility. She asked if there were plans to build new shelters to replace the ones that had been vandalized, and if Mr. Sullivan knew anything about it.

Mr. Sullivan stated that he is aware of the state of the bus shelters because he also rides the bus on NAVSTA TI. He added that he believes the Treasure Island Development Authority (TIDA) has plans for new shelters, but was not sure of the status. He stated he would talk to TIDA about it, and noted the Navy does not maintain or replace bus shelters. Mr. Sullivan added that he does work closely with TIDA and attends the bi-monthly community meetings and would also be presenting at the CAB meeting in August.

Mr. Grasteit asked about progress on when the City will take over NAVSTA TI. Mr. Sullivan stated that the Navy and the City are engaged in ongoing dialogue, but there is no timetable for transfer of the property. Mr. Grasteit stated there is confusion on who to talk to about issues on the island, such as the bus shelters that were just mentioned, because no matter who one asks, they are directed to someone else.

Mr. Brennan stated that, with changes in staff at the Department of the Navy, such as the new Secretary of the Navy, there is a delay in negotiations for transfer, but that they should start again soon. He added that the value of the property fluctuates a lot, and it has changed from an economic transfer in which the city gets the property at no cost to create jobs lost from closure, to a cost transfer. Mr. Sullivan stated that, regardless of the status of transfer negotiations, the Navy will continue to move forward with environmental cleanup.

Future Meeting Agenda Items

Mr. Sullivan asked if there were any topics people would like to have on the agenda at future meetings. Ms. McHenry asked if the Navy could provide an update on bus shelters at NAVSTA TI.

Mr. Sullivan noted the next meeting is scheduled for Tuesday, 18 August 2009, at the Casa de la Vista. He also stated the next RAB conference call is already scheduled for 28 July, 2009. The next BCT meeting is scheduled for 1 July, 2009.

June 2009 RAB Meeting Handouts [attached when minutes are finalized]

- Attachment A: NAVSTA TI RAB Meeting No. 142 Agenda, 16 June 2009
- Attachment B: Field Activities, Sites 21, 24, and 32
- Attachment C: Field Efforts, Solid Waste Disposal Areas
- Attachment D: Dissolved Arsenic Treatability Study Update, Site 12
- Attachment E: Site 31 Update
- Attachment F: Document Tracking Sheet, 16 June 2009
- Attachment G: Field Schedule, 16 June 2009

NAVAL STATION TREASURE ISLAND
ENVIRONMENTAL RESTORATION ADVISORY BOARD MEETING
Tuesday, 16 June 2009
7:00 PM.
Casa de la Vista (Building 271)
Treasure Island

MEETING NO. 142

- 6:00 – 6:55 **Optional Site Tour (meet at Casa de la Vista)**
- 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 - 7:20 **Field Activities Update**
(Sites 21 and 24, and Site 32)
Lead: Pete Bourgeois, Shaw E & I
- 7:20 - 7:35 **Site 12 (TI Housing) Removal Action and Access Update**
Lead: Pete Bourgeois, Shaw E & I
- 7:35 - 7:50 **Site 12 Arsenic in Groundwater Pilot Study Update**
Lead: Neil Hey, Shaw E & I/ Scott Anderson, Navy Remedial Project Manager
- 7:50 – 8:00 **Site 31 Draft Remedial Action Work Plan (RAWP) Preview**
(Planned issue July, Comments due August 2009)
Lead: Scott Anderson, Navy Remedial Project Manager
- 8:00 – 8:05 **Upcoming Documents and Field Schedule**
Lead: Kevin Hoch, Tetra Tech EMI
- 8:05 – 8:10 **RAB Meeting Minutes**
Lead: James Sullivan, Navy Co-Chair
- 8:10 – 8:15 **Co-Chair Announcements**
Lead: Alice Pilram, Community Co-Chair
- 8:15 – 8:20 **BRAC Cleanup Team Update**
Lead: James Sullivan, Navy Co-Chair
- 8:20 – 8:30 **Other Public Comment and Announcements**
Lead: James Sullivan, Navy Co-Chair

8:30– 8:35 **Future Meeting Agenda Items**
Lead: Navy and Community Co-Chairs

8:35 – 8:40 **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 July 2009 Meeting

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

 No September 2009 Meeting

 7 :00 pm Tuesday, 20 October 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, 28 July 2009, 7:00 pm.

Call-In Number: 1- 866-822-0121

Participant Code: 1122026

(Note: This same number will be used for future conference calls)

Next BCT/RPM/Project Team Meeting: 10:00 am. **Wednesday 1 July 2009**, Tetra Tech EMI, **Oakland 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
1455 FRAZEE ROAD, SUITE 900
SAN DIEGO, CA 92108-4310



Naval Station Treasure Island

**Field Activities
Site's 21, 24, and 32**

June 16, 2009 RAB Meeting



Site 21 & 24

- Site 21 second round of well sampling will occur June 2009**
- Site 24 all three down-gradient treatment loops are active.**
- Site 24 source area loop active.**
- To Date the Site 24 System has treated Roughly 5 Million Gallons of Groundwater (3.8 in the main plume area and 1.2 in the source area).**

Site 32/Parcel T-111



- **Work Plans have been distributed Final on 6/1/09**
- **Clearing and grubbing has been completed**
- **Asphalt and concrete has been demolished and removed offsite for recycle.**
- **Building 463 “Tear-gas Training Building” will be removed once lead-based paint on roof has been abated.**
- **Soil Excavation started Monday June 8, 2009.**

Site 32



Plugging Drain lines within excavation footprint

Site 32



Concrete Demolition and Dust Suppression

Site 32



Concrete and Asphalt Load-out and Dust Suppression Activities

Site 32



Excavation of area down to 2-feet Below ground Surface

Site 32



Soil Stockpile Within the Excavation Footprint

Site 32



Lead Based Paint Removal from Building 463 (old tear-gas training building)

Questions?





Field Efforts Solid Waste Disposal Areas

June 16, 2009
NAVSTA Treasure Island
RAB Meeting



Starting Work at SWDA A&B

- Radiation Work Permit (RWP) has been approved by RASO and BRAC PMO West to complete the removal of the concrete for one carport at Building 1321, Units A&B.
- Revised Radiological Protection Plan (RPP) was distributed final.
- Work started in the field on Monday 6/8/09

Excavation Status at SWDA A&B



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



LEGEND

Orange	0 feet bgs surface
Yellow	1 foot bgs surface
Green	2 feet bgs surface
Blue	3 feet bgs surface
Cyan	4 feet bgs surface
Dark Red	Backfill complete
•	Pothole
Green line	SWDA Boundary Fence

Work Completed At SWDA's



First task was to transfer soil from one overweight bin to another empty bin. Air monitoring was conducted as well as frisking of truck tires and equipment.

On-Going Work At SWDA's



Second task approved for completion was the saw cutting and removal of concrete at Building 1321. Scanned area prior to starting the saw cutting task.

On-Going Work At SWDA's



Concrete Removal of Carport at Building 1321, Scanning Blocks as they are Flipped

On-Going Work At SWDA's



Concrete Removal of Carport at Building 1321

SWDA Restoration



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

Next Navy RAB Meeting:
The Casa De la Vista
Tuesday, August 18th at 7:00 PM
James.b.sullivan2@navy.mil

Navy Web Site:
www.bracpmo.navy.mil



Dissolved Arsenic Treatability Study Update

Buildings 1311/1313 Area of Site 12

June 16, 2009 RAB Meeting



Presentation Overview

- **Purpose**
- **Location**
- **Nature of Contamination**
- **Technical Approach**
- **Field Activities & Observations**
- **Schedule**

Purpose

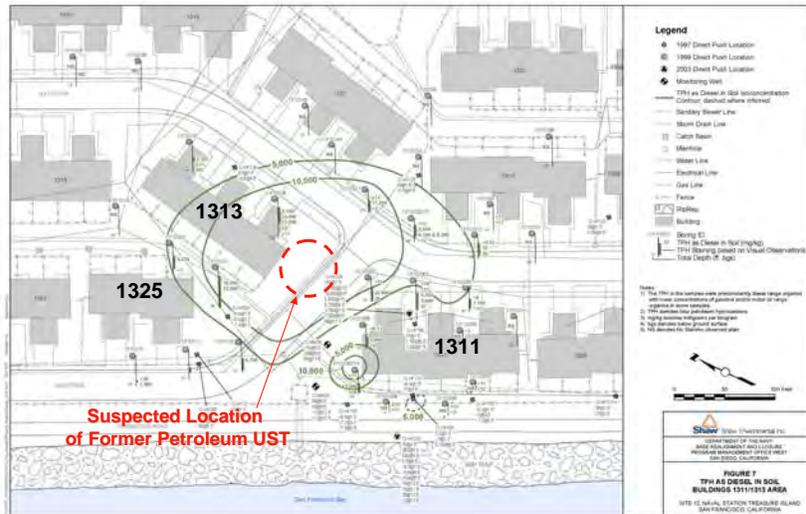


- **Evaluate effectiveness of enhanced aerobic techniques to:**
 - Lower soluble arsenic concentrations
 - Promote biodegradation of residual TPH in the saturated zone
- **Establish optimal operating conditions and well layout for full-scale**

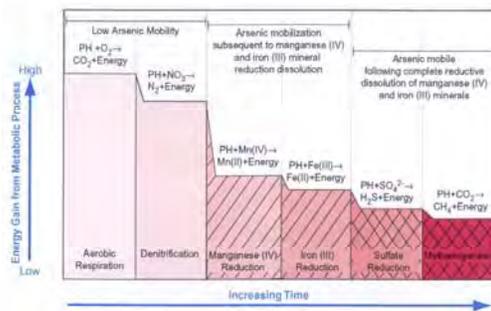
Buildings 1311/1313 Area of Site 12



Diesel Range Petroleum Hydrocarbons in Soil



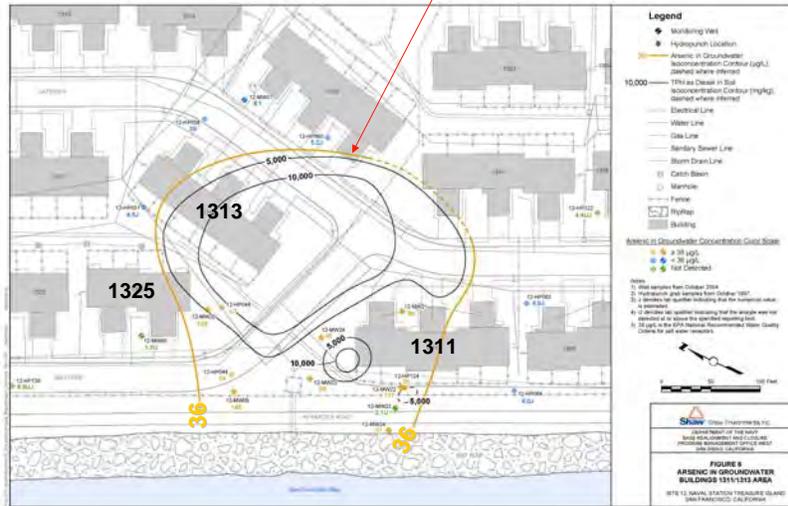
Petroleum Hydrocarbons Biodegradation



- Notes:**
- CO₂ Carbon dioxide
 - CH₄ Methane
 - H₂S Hydrogen sulfide
 - PH Petroleum hydrocarbon
 - Fe(III) Iron (III)
 - Fe(II) Iron (II)
 - Mn(IV) Manganese (IV)
 - Mn(II) Manganese (II)
 - N₂ Nitrogen
 - NO₃⁻ Nitrate
 - SO₄²⁻ Sulfate
 - UST Underground storage tank

Reference:
 McIndoe, M.B. 1994. *Environmental Chemistry of Soil*. Oxford University Press, New York, New York.

Arsenic in Groundwater



Technical Approach



- **Primary technology - > Low-flow air sparging**
- **Auxiliary technology - > Vapor extraction**
- **Design Data Investigation (DDI)**
- **Pilot-Scale Field Test**

Field Activities Update

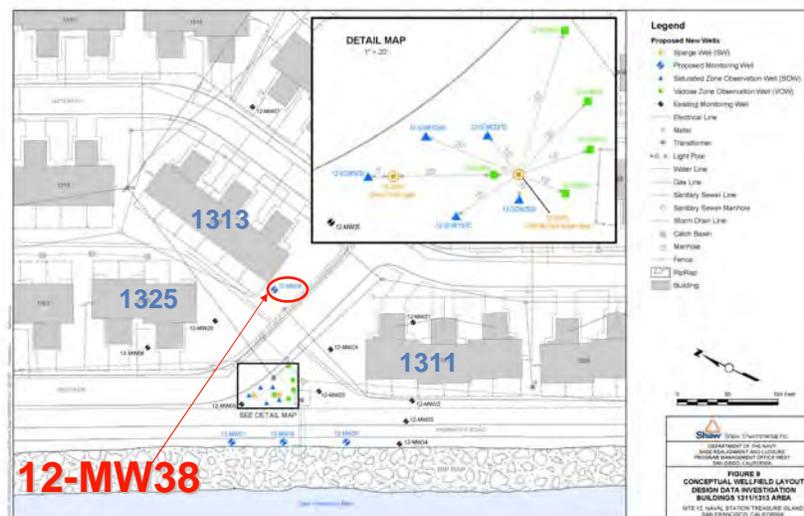


Implement the Design Data Investigation

(to finalize the pilot-scale system & test design)

- Well Installations (Dec. '08 -> Jan. '09)
- Baseline Groundwater Monitoring (Jan. '09)
- Sparge Well Testing (Feb. '09 -> rain delay)
- Free Product Observed in Well 12-MW38 (April '09)

DDI Wellfield Layout

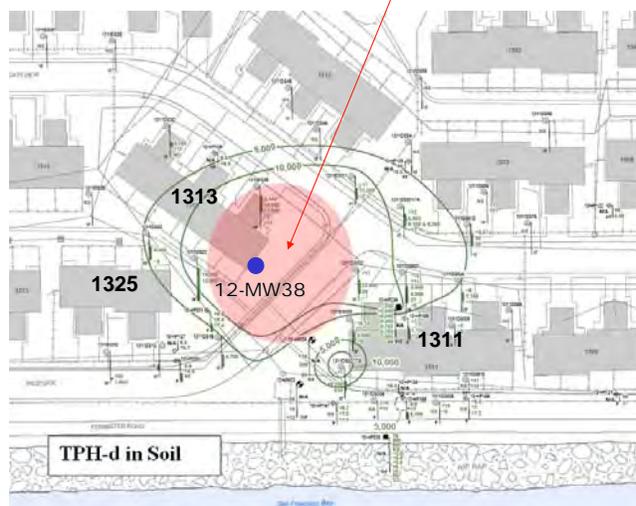
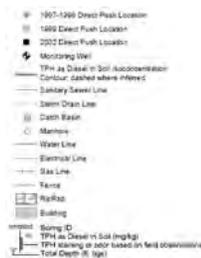


12-MW38 Observations



- **Jan. '09** – Free product not observed during Baseline Groundwater Monitoring; no VOCs detected in sample
- **Feb. '09** – Sheen observed during DDI well testing
- **Apr. '09** – 1” free product thickness measured

Area Requiring Further Investigation for TPH



Preliminary Recommendation



- **Confirm removal of the suspected former petroleum UST**
 - Historical document & map review
 - Geophysical survey (if necessary)
- **Remove the suspected UST if still in-place**
- **Delineate lateral extent of free product around 12-MW38**
- **Free product removal**

Schedule



- **Finalize free product investigation plan w/ BCT – Jul.'09**
- **Amend Work Plan – tbd '09**
- **Implement free product investigation – tbd '09**
- **Implement corrective action, if necessary**
- **Complete Design Data Investigation – tbd**
- **Pilot-Scale System Construction – tbd**
- **Pilot-Scale Field Test – tbd**
- **Post-Pilot Monitoring – tbd**
- **Treatability Study Tech. Memo – tbd**



Questions ?



Naval Station Treasure Island

Site 31

June 16, 2009 RAB Meeting



Site 31 Next Steps:

- **Site 31 Chemicals of Concern:**
 - Lead, Dioxins, and PAH's
- **Site 31 Proposed schedule:**
 - Completion and Signing of the ROD (Final Remedy Selection).
 - Complete Remedial Action Work Plans (RAWP)
 - Remedial Action
 - Remedial Action Completion Report (RACR)
 - Site Closeout

Site 31 Excavation areas



Questions?



**Naval Station Treasure Island
Environmental Cleanup Program
Document Tracking Sheet
June 2009 - November 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	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							Priority Level				
SulTech																							
1	Site 33 Remedial Investigation Report	103	09/07/06	✓	10/16/06	✓	10/17/08	✓	01/06/09	✓	✓	✓	✓			06/19/09	TBD	TBD	TBD	TBD	Comments originally due 11/17/2008		
	RPM: Scott Anderson																						
	PM: Kevin Hoch																						
2	Soil Gas Investigation Tech Memo	117	NA		NA		NA		NA							NA	NA	02/20/09	✓	03/25/09	✓	06/17/09	
	RPM: James Whitcomb																						
	PM: Kevin Hoch																						
Shaw Group																							
3	PCB Soil Abatement Parcel T-111/Site 32 Work Plan	FZN1	11/24/08	✓	01/09/09	✓	02/19/09	✓	03/21/09	✓	✓	✓	✓			04/27/09	✓	05/06/09	✓			05/26/09	✓
	RPM: Scott Anderson																						
	PM: Pete Bourgeois																						
4	Site 31 Remedial Action Work Plan	FZN1	6/10/09* 7/1/09**	✓	6/24/09 7/30/09	✓	08/15/09		09/14/09							TBD	TBD	09/24/09		10/04/09	10/11/09	* Navy technical review ** Navy legal review	
	RPM: Scott Anderson																						
	PM: Pete Bourgeois																						
5	Site 25 Request for Closure	FZN1	06/22/09		07/06/09	✓	07/16/09		08/15/09							TBD	TBD	08/29/09		09/08/09	09/18/09		
	RPM: Scott Anderson																						
	PM: Neil Hey																						
Tetra Tech EM Inc.																							
6	Island Times Newsletter #15	FZN6	01/16/09	✓	03/06/09	✓	03/13/09	✓	03/27/09	✓	✓	✓	✓			NA	NA	04/22/09	✓	04/29/09	✓	05/12/09	✓
	RPM: Charles Perry																						
	PM: Marcie Rash																						
7	Fact Sheet: Radiological Program Update	FZN6	TBD		TBD		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	✓	04/09/09	✓	04/16/09	✓	05/17/09	✓	✓	✓	✓			06/17/09		06/21/09		07/13/09	07/23/09	08/02/09	Comments rec'd at May BCT Meeting.
	RPM: Charles Perry																						
	PM: Marcie Rash																						
10	Site 27 Feasibility Study	FZN6	09/24/08	✓	11/07/08	✓	12/29/08	✓	02/27/09	✓	✓	✓	✓	✓		06/29/09		07/13/09		07/29/09	08/08/09	08/22/09	2.3.2009 DTSC submitted comments; additional comments from Fish and Game to follow. 5.29.2009 Additional comments from JTRD.
	RPM: Charles Perry																						
	PM: Katie Henry																						

**Naval Station Treasure Island
Environmental Cleanup Program
Document Tracking Sheet
June 2009 - November 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	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							Priority Level		
Barajas & Associates, Inc.																					
11	Site 30 Record of Decision	25	04/30/08	✓	08/18/08	✓	10/17/08	✓	12/02/08	✓	✓	✓	✓	✓	02/25/09	✓	07/01/09	07/22/09	07/29/09	08/05/09	
	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	✓	07/01/09	07/22/09	07/29/09	08/05/09	
	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	✓	06/22/09		07/06/09	08/05/09	08/12/09	08/19/09	
	RPM: Scott Anderson																				
	PM: Margaret Berry																				
Trevet																					
14	2008 Site 6 & 12 Annual Groundwater Sampling Report	9002	06/19/09		07/03/09		07/10/09		08/09/09						09/06/09		TBD	TBD	TBD	TBD	
	RPM: James Whitcomb																				
	PM: Greg Alyanakian																				
15	Site 30 Land Use Control Work Plan	9002	4/20/09* 6/11/09**		5/1/09 7/11/09		08/10/09		09/04/09						10/02/09		10/30/09	11/13/09	11/27/09	12/11/09	* Navy technical review ** Navy legal review
	RPM: Charles Perry																				
	PM: Greg Alyanakian																				
ERRG, Inc.																					
16	Site 6 Data Gaps Investigation Work Plan / Sampling and Analysis Plan	2608	07/02/09		07/16/09		07/31/09		08/31/09						09/18/09		TBD	TBD	TBD	TBD	
	RPM: James Whitcomb																				
	PM: Doug Bielskis																				
Sullivan Consulting Group																					
17	Site 28 Proposed Plan		7/20/09* 9/2/09**		8/19/2009 10/2/09		10/16/09		11/16/09						12/13/09		TBD	TBD	TBD	TBD	* Navy technical review ** Navy legal review
	RPM: James Whitcomb																				
	PM: Chris Ohland																				

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

HERD= Human Ecological Risk Division

HSP = Health and Safety Plan

NA = Not Applicable

PCB = Polychlorinated Biphenyls

PM = Project Manager

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
June 2009 - September 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	FZNI	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	FZNI	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: Fall '09	James Whitcomb (619) 532-0936	TO	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	FZNI	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	FZNI	Pete Bourgeois (415) 277-6983	Pete Bourgeois (415) 277-6983	
6	Site 31 Remedial Action <i>Site 31</i>	Doc 9	Start: 09/24/09 Finish: TBD	Scott Anderson (619) 532-0911	FZNI	Pete Bourgeois (415) 277-6983	Pete Bourgeois (415) 277-6983	
TREVET								
7	Site 12 Groundwater Sampling <i>Site 12</i>	Doc N/A	Start: 06/09/09 Finish: 06/12/09	James Whitcomb (619) 532-0936	CLIN	Greg Alyanakian (858) 869-3110	Greg Alyanakian (858) 869-3110	
EMS								
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	
ERRG								
9	Site 6 Data Gaps Investigation <i>Site 6</i>	Doc 16	Start: 10/19/09 Finish: TBD	James Whitcomb (619) 532-0936	2608	Doug Bielskis (925) 839-2270	Phil Skorge (925) 839-2266	

CTO - Contract Task Order

✓ Field work is complete.

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

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

Grey shading indicates field activities are complete.