



# FINAL

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

Meeting # 143

18 AUGUST 2009

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

Nathan Brennan, John Gee, Alice Pilram, Dale Smith

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

James Sullivan (Navy), Christine Katin (U.S. Environmental Protection Agency [EPA]), Ross Steenson (San Francisco Bay Regional Water Quality Control Board [Regional Water Board]), Medi Sunga (Department of Toxic Substances Control [DTSC])

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

Greg Alyanankian (Trevet Inc.), Doug Bielskis (Engineering/Remediation Resource Group, Inc, [ERRG]), Pete Bourgeois (Shaw Environment and Infrastructure [Shaw]), Kevin Hoch (Tetra Tech EM Inc. [Tetra Tech]), Carolyn Hunter (Tetra Tech), Charles Perry (Navy), Phil Skorge (ERRG), Jim Whitcomb (Navy)

### **Public Guests**

Mark Johnson, Lindsay Kirkman, Mica Munderll, Wilhelmina Parker (Treasure Island Job Corps)

### **Welcome Remarks and Introductions**

James Sullivan (Base Realignment and Closure [BRAC] Environmental Coordinator) opened the 18 August 2009 meeting at 7:04 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) meets regularly every other month. He noted the remaining meetings for 2009 are already scheduled (October and December.) Mr. Sullivan stated the Navy had held a site tour just prior to the RAB meeting. Mr. Sullivan stated that if there is interest in having a site tour at other times of the year or on a different day to accommodate the RAB to let him know and he can arrange it.

### **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

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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. No public comments were provided at this time.

### **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 stated that field work is being conducted at Sites 21, 24, and 32 as well as Site 12, the solid waste disposal areas (SWDAs). The work being conducted at Sites 21 and 24 is groundwater bioremediation work. The work at Site 32 is a dig and haul of low level polychlorinated biphenyl's (PCB) and dioxin contamination in soil. Mr. Bourgeois stated that Site 21 is near the Sailing Center and the Navy and Shaw had just completed the second round of groundwater sampling. Shaw conducted a direct injection of the SDC-9/substrate, followed by two rounds of sampling. The results from the second round of sampling were positive and the trichloroethene (TCE) and tetrachloroethene (PCE) concentrations were being reduced by the SDC9/substrate injected into the wells. Mr. Bourgeois stated Shaw will conduct the third round of sampling at Site 21 in September 2009. Currently all of the sampling data is in the preliminary stages. Once the three rounds of sampling results are validated, the Navy and Shaw will present the information to the RAB.

Mr. Bourgeois noted that Site 24 is located near Buildings 99 and 96. Shaw shut down the source area loop on 30 July 2009 and the performance monitoring at Site 24 was conducted on 3 August 2009. Mr. Bourgeois stated the performance monitoring data shows that the substrate has made it all around the source area. Mr. Bourgeois stated that 1.6 million gallons of groundwater has pumped via the recirculation system through the source area near Building 99. There are three loop areas that cover Building 99, Building 96 and toward the bay. Shaw will continue pumping for another three weeks in these loops. Mr. Bourgeois stated that in the downgradient loops, the substrate has not gotten into all of the wells yet. He added that it takes a lot of time to make it into the wells due to the size of the treatment area.

Mr. Bourgeois stated there was also an issue with the storm drain system backing up due to a blockage in the line. There was substrate material showing up in storm drain manholes. The Navy and Shaw worked with the San Francisco Public Utilities Commission (SFPUC) to identify the problem, which was a blocked catch basin. It was an old brick catch basin that was no longer used. The brick mortar of the catch basin had deteriorated and the substrate was coming through the sidewall. The SFPUC determined that since the catch basin was not in use, the line could be plugged with concrete. None of the substrate got into

the San Francisco Bay. The substrate that was in the storm drain line was pumped out and sent to the wastewater treatment plant.

Mr. Bourgeois stated that Site 32 is near the wastewater treatment plant. A PCB excavation is being conducted at the site. The Navy removed the asphalt and began removing soil contaminated with PCBs. Most of the excavation is in the top two feet of soil. There are a few areas where there will be an excavation up to six feet deep. The excavation at Site 32 began in July 2009 and is about 85% complete. The Navy has removed approximately 300 truckloads of Class II nonhazardous waste and 16 truckloads of Class I hazardous waste from Site 32. The Navy has gone after the PCB contamination aggressively and removed soil wherever there was an exceedence of cleanup criteria. After the initial excavation at Site 32, the Navy has not needed many step out samples. The Navy will continue to update the RAB as further information comes in. Mr. Bourgeois opened up the floor to questions.

Dale Smith (RAB member) asked at what level groundwater was encountered during the excavation at Site 32. Mr. Bourgeois said that groundwater was encountered at about six to six and a half feet. Ms. Smith asked if the level of groundwater is consistent with what was anticipated. Mr. Bourgeois said that they anticipated to reach groundwater at about six feet. There was water that filled up the excavation due to a waterline break at the Rubicon Yard south of Site 32. For the most part, during the excavation there has not been impacts by groundwater or tidal influence.

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

Mr. Sullivan introduced Mr. Bourgeois to provide the Site 12 TI Housing Area update (Attachment C).

Mr. Bourgeois stated that Site 12 is the location of the three SWDAs along Northpoint Drive, Bayside Drive, and Westside Drive. The current excavation is on Westside Drive near Building 1321. There are some issues with the tidal influence in the excavation. Mr. Bourgeois stated that they have hit a lot of debris in the four to five feet mark at Westside Drive. There was trenching done to determine the extent of the debris and there was debris found between Buildings 1319 and 1321, about seven feet from the original excavation footprint. Mr. Bourgeois stated that there were some potholes tested in the backyards of Building 1319 and no debris was found. The debris sits mostly within the excavation footprint. Some debris found in the sidewalls and bottom of the excavation needs to be scanned with a photoionization detector (PID) to determine hydrocarbon levels indicated by petroleum odor. The Navy has a layout pad for the excavated material to be spread out and scanned at Lester Court. Prior to scanning, the soil needs to be spread out and dried if it is wet. Once the soil has been scanned, it is put in a bin and placed at Site 6 where the

Navy keeps all of the low level radiological waste [prior to removal from the island].

Mr. Bourgeois said that a trench plate was placed over the anomaly found at Northpoint Drive that was discussed at a previous RAB meeting. The trench plate was put over the anomaly to be protective of human health. Mr. Bourgeois said that there was a pinpoint removal where a 3 to 4 inch diameter gauge was found about 10 inches below the surface. The Navy removed the gauge, took soil samples and backfilled the area. Mr. Bourgeois opened the floor to questions.

Ms. Smith asked if there is a radioactive tag placed on the trench plate. Mr. Bourgeois confirmed there is a radioactive tag placed below the trench plate per Nuclear Regulatory Commission (NRC) regulations that states there is radiological contamination below. On the top of the trench plate there is a tag with contact information provided if someone needs information on what is located below the trench plate.

#### **Draft Site 6 Data Gap Investigation Work Plan**

Mr. Sullivan introduced Mr. Whitcomb to provide the Draft Site 6 Data Gap Investigation Work Plan update (Attachment D). Mr. Sullivan stated the Draft Site 6 Data Gap Investigation Work Plan will be issued for review between this RAB meeting and the October 2009 RAB meeting.

Mr. Whitcomb introduced Doug Bielskis (Engineering Remediation Resource Group [ERRG]) as the primary presenter of the Draft Site 6 Data Gap Investigation Work Plan. Mr. Whitcomb stated that Site 6 was originally a petroleum site where tanks, ancillary piping and sumps were closed. During the tank closure process, the Navy discovered dioxin which indicated Site 6 would not likely be closed out in the petroleum program. Because of this, Site 6 was moved [back] into the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) program where the Navy began preparation of the remedial investigation (RI) report. During the RI process for Site 6, more data was needed for soil and groundwater. The Navy developed a work plan to take samples for hydrocarbons in soil, groundwater, and soil gas, and dioxins in the soil. Once the samples are collected, the results can be added into the Site 6 RI.

Mr. Bielskis introduced himself and said that Site 6 is adjacent to Site 32. The work plan is being developed to support the RI at Site 6. Mr. Bielskis stated the presentation will be broken into sections which include site background, purpose of the data gaps sampling, the preliminary sampling plan, and the schedule. The Navy is currently in the planning process for this investigation.

Mr. Bielskis stated that Site 6 was a former fire training school. There were a number of fire simulations that were conducted from the 1940's through 1992. The fire simulations were created using different fuels including diesel, gasoline, magnesium, and wood. All of the buildings and the above ground (AST) and underground storage tanks (UST) were removed from Site 6. Site 6 is currently being used for a staging area for the Site 12 removal action. Mr. Bielskis said the main features of Site 6 involve six USTs and one AST which were all previously removed. There was a suspected former AST near the northern site boundary of Site 6 as well as several burn pits and burn areas identified after reviewing historical photos. Petroleum contamination was found in the training areas and near the buildings at Site 6. The former burn pit is the primary area where burn debris may be found. Dioxins were found during the previous petroleum remediation at the burn pit area. Dioxins are created during burning of various debris.

The Navy has performed environmental investigations at Site 6 since 1986. There was a petroleum hydrocarbons cleanup action in 2002 that involved both soil excavation and recovery of free-phase petroleum product. During the 2002 post excavation sampling, petroleum hydrocarbons and dioxins above cleanup action levels were found. Mr. Bielskis said the Navy is looking for chemicals of potential concern (COPC) including petroleum hydrocarbons, polycyclic aromatic hydrocarbons, petroleum-related volatile organic compounds such as benzene and naphthalene, and dioxins at Site 6.

Ms. Smith asked if the Navy will be looking for furans as a COPC at Site 6. Mr. Bielskis confirmed that furans will be assessed along with dioxins. They will be analyzed as a group using a toxicity equivalency quotient (TEQ).

Mr. Bielskis stated that purpose of the data gaps investigation is to collect data needed to complete the RI and evaluate the risks to humans and wildlife and guide future management decisions. The Navy has identified four data gaps at Site 6 which include dioxins and furans in the soil, petroleum hydrocarbons in the soil as well as petroleum related VOCs in soil gas, and petroleum hydrocarbons in the groundwater. The dioxins may cause reuse issues for the site in relation to human health risks, and petroleum hydrocarbons in groundwater could impact the aquatic wildlife in the San Francisco Bay.

The preliminary sampling plan proposes to excavate 18 different test pits and visually identify potential burn residue to target the sampling. Mr. Bielskis stated that there will be 28 soil samples for petroleum hydrocarbons and 20 soil gas sampling probes. The Navy will install six temporary groundwater monitoring wells right beside the San Francisco Bay. The total investigation points for the preliminary sampling plan at Site 6 is 72. The Navy will collect all

of the samples at once and send them to the laboratory. Based on the results of the first tier samples, additional samples may need to be taken. Mr. Bielskis said that the northernmost area of Site 6 where UST 240 was located is where there are existing soil results exceeding criteria. Additional soil borings will be installed around those data points to determine out how wide the petroleum contamination might extend and how deep it is in the soil. Mr. Bielskis stated that the UST 248 area samples are below the groundwater table to verify the remaining contamination has not impacted the groundwater table. Mr. Bielskis stated that the Navy is looking at the previous soil gas data and comparing it to the screening levels to determine if the petroleum can move through the soil as a gas and cause a risk to human health. There will be groundwater samples taken to verify there is no impact to the aquatic wildlife in the San Francisco Bay from the past industrial uses at Site 6.

Mr. Bielskis stated the Draft Site 6 Data Gap Investigation Work Plan will be issued for review on 27 August 2009. Once the Navy receives the regulatory agency comments on the Draft Site 6 Data Gap Investigation Work Plan, it will be finalized. The Navy will mobilize to conduct the sampling in December 2009. ERRG will coordinate with Shaw regarding the Site 12 staging area during the sampling event at Site 6. Mr. Bielskis opened the floor to questions.

Nathan Brennan (RAB member) asked if there is one sample point between the sewage plant [wastewater treatment plant] and the road at Site 6. Mr. Bielskis confirmed there is a sampling point on the road between the wastewater treatment plant and Site 6. Mr. Brennan said he remembered in the past there was a sample taken beneath the road and there was contamination found. There was never any follow up done on the contamination beneath the road. Mr. Bielskis said that his guess is that Mr. Brennan is referring to the dioxins in the soil beneath the road. Mr. Bielskis said there were a number of samples collected previously along the road and some of them had elevated dioxin concentrations. There were samples previously taken within the wastewater treatment plant parcel that did not show dioxin present. Mr. Bielskis said samples will be taken in that area to make sure dioxin is contained.

Mark Johnson (community member) asked if there is a concern to distinguish the agents that were used in the firefighting training. Mr. Whitcomb said that most of the firefighting agents were water protein based which is biodegradable. A dry powder agent, Purple-K (purple potassium bi-carbonate), can also be used in combination with the foam but it is not known to be toxic to the environment, Mr. Sullivan stated that during the operation of the firefighting school, the area was paved over was and included a curbing system so that the water and firefighting agents were contained and eventually sent to the wastewater treatment plant.

### **Site 30 Record of Decision and Land Use Control Work Plan**

Mr. Sullivan introduced Charles Perry to provide the Site 30 Record of Decision (ROD) and Land Use Control (LUC) Work Plan update (Attachment E). Mr. Perry introduced Greg Alyanakian (Trevet) who presented the Site 30 ROD and LUC Work Plan.

Mr. Perry stated that the daycare center in Building 502 in Site 30 has a concrete building foundation. Mr. Perry showed Site 30 in relation to 11<sup>th</sup> Street and Site 31. There will be a remedial action completed at Site 31. There was a previous removal action completed at Site 30 in late 2002 and early 2003 where debris was found. There was an excavation conducted to remove the debris adjacent to 11<sup>th</sup> Street. There was also some additional sampling and potholing around Building 502 prior to the daycare center opening. The concrete pad was installed adjacent to the daycare center to be protective of human health in 2002. Mr. Perry said there was a Final ROD for Site 30 was signed on 5 August 2009.

The ROD is a legal document that outlines the remedial action to be taken once all of the CERCLA steps are completed. The Navy begins with a Preliminary Assessment (PA) to review historical documents, aerial photographs, surveys, and interviews with people who may have been around the site. A Site Inspection (SI) is completed that involves additional document review and some sampling. If the site warrants additional work, the Navy moves onto the RI phase. The RI phase is where sampling occurs to determine the extent of the contamination. The Feasibility Study (FS) is where the remedial alternatives are assessed and ranked prior to moving into the Proposed Plan (PP) phase. The PP recommends the preferred alternative for the Remedial Action (RA). Then the RA is documented in the ROD. The Navy has signed the ROD for Site 30 which summarizes the rationale for the RA. The alternative the Navy selected for Site 30 is LUCs which will maintain this site as a daycare center and a non-residential area. LUCs are used when contaminants are left in place above remedial action objectives (RAO). There is contaminated soil beneath the concrete pad and possibly beneath Building 502. The LUCs are in place to prevent exposure to the contaminated soil. If there is no exposure pathway, there is no risk. Leaving contamination in place and limiting the exposure pathway is the most cost-effective remedial alternative that is adequately protective of human health.

Ms. Smith asked if the Navy included assessing furans with the remedial objectives. Mr. Perry confirmed the Navy assessed furans at Site 30.

Mr. Perry said that the Navy looked at no further action when developing the FS which is a requirement. Besides LUCs, the other alternative the Navy had was to demolish the building and excavate the site. The daycare center would not have

been able to remain in Building 502. The Navy determined that if there was an adequate exposure prevention barrier and there is no risk to the current users of the daycare center then it made sense to put LUCs in place at Site 30. Mr. Perry stated that typical engineering controls (ECs) can be physical barriers such as a concrete pad, building foundations, fences, and signage. Institutional Controls (ICs) can be legal deed notices for the property. The Navy's engineering control for Site 30 is to maintain the building foundation slab to prevent contact with the dioxin below the building. The IC for Site 30 would prohibit penetrating the foundation or digging beneath the building. The Navy will have a work plan in place if someone needs to repair something beneath the building which would require certain procedures and notification to conduct their work. If in the future someone wants to remove the building slab and change the use of the area to a residential site, additional investigations and potential remedial actions will need to take place. The Navy is going to do annual inspections. The Navy will have to complete a five year review to make sure the LUCs are still protective of human health. If the five year review warrants additional work, the Navy will make a decision to conduct additional RAs.

Mr. Alyanakian stated the Site 30 ROD and LUC Work Plan is currently being reviewed by the Navy. The Navy will conduct annual inspections of the Building 502 concrete slab as well as the concrete pad that is adjacent to the building. The annual inspection results will go to the regulatory agencies for their input. Mr. Alyanakian stated that the annual inspections would be performed by a technician or inspector who is trained to assess the condition of the concrete pad and slab at Site 30. They will be looking for cracks and chips in the concrete and to make sure nothing has gotten under the pad. This initial assessment will provide the Navy a baseline for future assessments of Site 30. They will document the potential cause of damage and provide a photo documentation of the site. In the LUC work plan there are check lists that the inspector will need to go through on an annual basis. The draft Site 30 LUC Work Plan will be issued in the fall of 2009 and finalized in the winter 2010. Once the Site 30 LUC Work Plan is finalized, site conditions can be documented. Mr. Alyanakian opened the floor to questions.

John Gee (RAB member) asked how long the LUCs will be in place. Mr. Alyanakian said as long as the contaminants remain in place, the LUCs are required, and annual assessments and five year reviews will be conducted. The Navy will be responsible for maintaining the LUCs to protect human health and the environment until the property is transferred. Mr. Sullivan stated that the LUCs will be in place until the building is demolished which could happen during the redevelopment of TI.

Mr. Sullivan stated the Navy signed a ROD for Site 30 and Site 31 which is a major accomplishment for the program. These are the fourth and fifth RODs signed at TI. Previously the Navy signed RODs for Site 9, Site 10, and Site 13 which were all no action RODs where there was no cleanup or LUCs necessary. The RODs for Site 30 and Site 31 are the first RODs at TI where there are RAs and LUCs required.

## **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 Site 33 Remedial Investigation Report, 17 September 2009
- Draft Site 31 Remedial Action Work Plan, 28 August 2009, comments due 27 September 2009
- Final Site 25 Request for Closure, 9 October 2009
- Final 2009 Site Management Plan, 10 September 2009
- Response to Comments on the Site 27 Feasibility Study, 31 August 2009
- Draft Island Times Newsletter #16, 25 September 2009, comments due 9 October 2009,
- Draft 2008 Site 6 and 12 Annual Groundwater Sampling Report, 28 August 2009, comments due 27 September 2009
- Draft Site 30 Land Use Control Work Plan, 15 October 2009, comments due 14 November 2009
- Draft Site 6 Data Gaps Investigation Work Plan/Sampling and Analysis Plan 20 August 2009, comments due 21 September 2009

Ms. Smith asked why the comments provided to the Navy by the RAB members are not listed on the document tracking sheet. Mr. Perry said to his knowledge the RAB has not provided written comments on any of the documents listed on the tracking sheet. Ms. Smith stated the Navy received verbal comments on the Site 30 and Site 31 Proposed Plans at a past RAB meeting. Mr. Perry stated that if the Navy misses noting comments received by RAB members to let him know. Mr. Hoch suggested adding "no comments received" to the document tracking sheet so the box is not just left blank for RAB comments.

### **Field Schedule**

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

### **June 2009 RAB Meeting Minutes**

Mr. Sullivan began with the June 2009 meeting minutes, which were emailed and mailed out hard copy in the packet for this meeting. Ms. Smith provided verbal comments on the June 2009 RAB meeting minutes. The Navy will incorporate Ms. Smith's corrections into the final June 2009 RAB meeting minutes.

### **October 2008 RAB Meeting Minutes**

Mr. Sullivan asked for comments on the October 2008 meeting minutes, which were emailed and mailed out hard copy in the packet for this meeting. Ms. Smith provided verbal comments on the October 2008 RAB meeting minutes. The Navy will incorporate Ms. Smith's corrections into the final October 2008 RAB meeting minutes.

### **Co-Chair Announcements**

Alice Pilram (RAB Community Co-Chair) stated there will be a [community] picnic in the fall of 2009. Ms. Pilram will provide the picnic date to the RAB once she receives it.

### **BRAC Cleanup Team Update**

Mr. Sullivan gave a brief update on the two BCT meetings held since the last RAB meeting, in July and August 2009. Mr. Sullivan stated that the BCT meeting in July 2009 was a standard half-day meeting with updates on field activities at Sites 24 and 32 as well as the Site 12 arsenic in groundwater pilot study. In August 2009 there was extended discussions on the analytical data on Sites 21 and 32. The BCT discussed the groundwater sampling results from the second sampling event at Site 21 and the confirmation samples from the soil excavations at Site 32. There was a discussion on the Site 6 data gaps investigation to get BCT comments prior to completing the draft work plan. Mr. Sullivan said the next BCT meeting will be held on the first Wednesday of September 2009. He added that there are minutes of the BCT meetings which can also be found in the Information Repositories.

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

Mr. Brennan stated the Citizens Advisory Board (CAB) met on 18 June 2009 at Pier 1 in the Port of San Francisco conference room. There was a presentation to the public on the redevelopment guidelines to prepare for the next steps. The CAB cancelled their meetings in July and August 2009. The next CAB meeting is scheduled for 1 September 2009. Mr. Sullivan said he will work with the CAB to schedule an overview of the Navy's environmental cleanup program presentation in October or November 2009.

Ms. Pilram reminded the RAB that the Bay Bridge will be closed on Labor Day weekend for repairs. If access to TI is needed, a pass must be requested to drive on the Bay Bridge during the closure.

Mr. Sullivan announced the Navy will be hosting an open house to brief the public on the environmental cleanup program on Saturday, 24 October 2009 from 10:00 a.m. to 2:00 p.m. in the Ship Shape Community Center.

#### **Future Meeting Agenda Items**

Mr. Sullivan asked if there were any topics people would like to have on the agenda at future meetings. No topics were given at this time.

Mr. Sullivan noted the next meeting is scheduled for Tuesday, 20 October 2009, at the Casa de la Vista. He also stated the next RAB conference call is already scheduled for 29 September, 2009. The next BCT meeting is scheduled for 2 September, 2009.

#### **August 2009 RAB Meeting Handouts [attached when minutes are finalized]**

- Attachment A: NAVSTA TI RAB Meeting No. 143 Agenda, 18 August 2009
- Attachment B: Field Activities, Sites 21, 24, and 32
- Attachment C: Site 12 (TI Housing) Removal Action and Access Update
- Attachment D: Draft Site 6 Data Gap Investigation Work Plan
- Attachment E: Site 30 Record of Decision and Land Use Control Work Plan
- Attachment F: Document Tracking Sheet, 18 August 2009
- Attachment G: Field Schedule, 18 August 2009

NAVAL STATION TREASURE ISLAND  
ENVIRONMENTAL RESTORATION ADVISORY BOARD MEETING  
Tuesday, 18 August 2009  
7:00 PM.  
**Casa de la Vista (Building 271)**  
Treasure Island

**MEETING NO. 143**

- 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 **Draft Site 6 Data Gap Investigation Work Plan**  
Lead: James Whitcomb, Navy Remedial Project Manager, and Doug Bielskis, Engineering/Remediation Resources Group
- 7:50 - 8:05 **Site 30 Record of Decision and Land Use Control Work Plan**  
Lead: Charles Perry, Navy Lead Remedial Project Manager
- 8:05 – 8:10 **Upcoming Documents and Field Schedule**  
Lead: Kevin Hoch, Tetra Tech EMI
- 8:10 – 8:15 **RAB Meeting Minutes**  
Lead: James Sullivan, Navy Co-Chair
- 8:15 – 8:20 **Co-Chair Announcements**  
Lead: Alice Pilram, Community Co-Chair
- 8:20 – 8:25 **BRAC Cleanup Team Update**  
Lead: James Sullivan, Navy Co-Chair
- 8:25 – 8:30 **Other Public Comment and Announcements**  
Lead: James Sullivan, Navy Co-Chair

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

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 September 2009 Meeting

  7 :00 pm Tuesday, 20 October 2009  
  Casa de la Vista, Treasure Island

  No November 2009 Meeting

  7 :00 pm Tuesday, 15 December 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, 29 September 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 2 September 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  
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1455 FRAZEE ROAD, SUITE 900  
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# **Naval Station Treasure Island**

**Field Activities**

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

**August 18, 2009 RAB Meeting**



## **Site 21**

**Site 21 second round of well sampling occurred  
June 24th through 30th, 2009**

**3<sup>rd</sup> round sampling event scheduled for late  
September 2009.**

## Site 24



- Site 24 source area loop was shut down on 7/30/09 and performance monitoring will began on 8/3/09.
- To Date the Site 24 System has re-circulated Roughly 10.1 Million Gallons of Groundwater ( 8.5 in the main plume area and 1.6 in the source area).
- Site 24 all three down-gradient treatment loops are active.
- Introduction of substrate into storm drain system during injection of IEW-10. Liquid flows into catch basin through side wall.

## Site 24



Location of IEW-10 and Catch basin / Water Flow into Catch basin during Injection Process

## Site 24



Placement of Concrete into the Catch Basin near IEW-10

## Site 24



Final Look of the Catch Basin

- IEW-10 was part of Loop One in the Main Plume Area.
- This well was shut-off to stop the introduction of substrate into the storm drain lines.
- Monday 7/27/09 IEW-10 was turned on and to date substrate has not been introduced into the storm drain system .

## Site 32/Parcel T-111



## Site 32/Parcel T-111



Excavation within the Site 32 area

## Site 32



2-foot excavation completed at Site 32

## Site 32



Removal of Class II material to an Approved Landfill



**Questions?**



# Field Efforts Solid Waste Disposal Areas

August 18, 2009  
NAVSTA Treasure Island  
RAB Meeting

## Status at SWDA A&B



STATUS OF SWDA A&B EXCAVATION, AUGUST 17, 2009



LEGEND			
Orange	0 feet bgs surface	Brown	Backfill complete
Yellow	1 foot bgs surface	Black square	Pothole
Green	2 foot bgs surface	Green line	SWDA Boundary Fence
Blue	3 foot bgs surface	Green line	Exploratory Trench, 6 ft bgs
Cyan	4 foot bgs surface	Black circle	Auger Boring, 8 ft bgs
Purple	5 foot bgs surface	Purple line	Debris Extent, estimated (heaviest debris concentration)

## Work at SWDA A&B



Carport at Building 1321 dug to 5-foot bgs / Soil Scanning Being Completed

## Work at SWDA A&B



Dust Suppression and Air Monitoring Within the Excavation Area

## Work At SWDA A&B



Debris Being Found Within the Excavation

## Work At SWDA's



Debris in Building 1321 Sidewall / Tidal Water at 4.5-feet bgs, Debris at Bottom of Excavation

## Work At SWDA's



Digging to 5-foot bgs, Wet Soil being laid into Lester Court Laydown Pad

## North Point Anomaly Removal



Removal of Pin-Point Source at North Point Drive

# 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, October 20th at 7:00 PM

[James.b.sullivan2@navy.mil](mailto:James.b.sullivan2@navy.mil)

**Navy Web Site:**

[www.bracpmo.navy.mil](http://www.bracpmo.navy.mil)



# Site 6 Data Gaps Investigation

Naval Station Treasure Island  
Restoration Advisory Board Meeting  
18 August 2009



## Presentation Overview

- Site Background
- Purpose of Data Gaps Investigation
- Preliminary Sampling Plan
- Schedule



# Site Background



- **Site 6 – Former Fire Training School**
  - Fuel fire simulations conducted from 1944-92, using diesel, gasoline, magnesium, and wood fuels
  - All buildings / tanks have been removed; site currently used as a temporary soil staging area for Site 12 removal action
- **Key Historical Features**
  - Six petroleum USTs and one AST (all removed)
  - Suspected former AST-240 near northern site boundary
  - Burn pits / burn areas identified in historical aerial photos



# Site Background



- Legend**
- Excavation Areas
  - Oil/Water Separator System Component
  - Suspected Former Aboveground Storage Tank
  - Former Aboveground Storage Tank
  - Former Underground Storage Tank
  - T106 Environmental Baseline Survey Parcel Boundary
  - IR Site 06 Boundary
  - Collector Trench
  - Building
  - Former Building
  - Appurtenances
  - Road
  - Fences
  - San Francisco Bay

Figure 1 – Site Map



## Site Background



### ➤ Prior Investigations and Remedial Actions

- Environmental investigations have been conducted since 1986
- Cleanup action for petroleum hydrocarbons was performed in 2002 (soil excavation and free product recovery)
- Post-excavation sampling identified petroleum hydrocarbons and dioxins above action levels
- Chemicals of Potential Concern - petroleum hydrocarbons, polycyclic aromatic hydrocarbons (PAHs), petroleum-related volatile organic compounds (VOCs, such as benzene and naphthalene), and dioxins

5



## Purpose of Data Gaps Investigation



### ➤ Primary Objective

- Collect data required to complete the Remedial Investigation, evaluate risk to humans and wildlife, and guide site management decisions

### ➤ Data Gaps

- Data Gap 1 – Dioxins in soil
- Data Gap 2 – Petroleum hydrocarbons in soil
- Data Gap 3 - Petroleum hydrocarbons and petroleum-related VOCs in soil gas
- Data Gap 4 – Petroleum hydrocarbons in groundwater

6



# Preliminary Sampling Plan

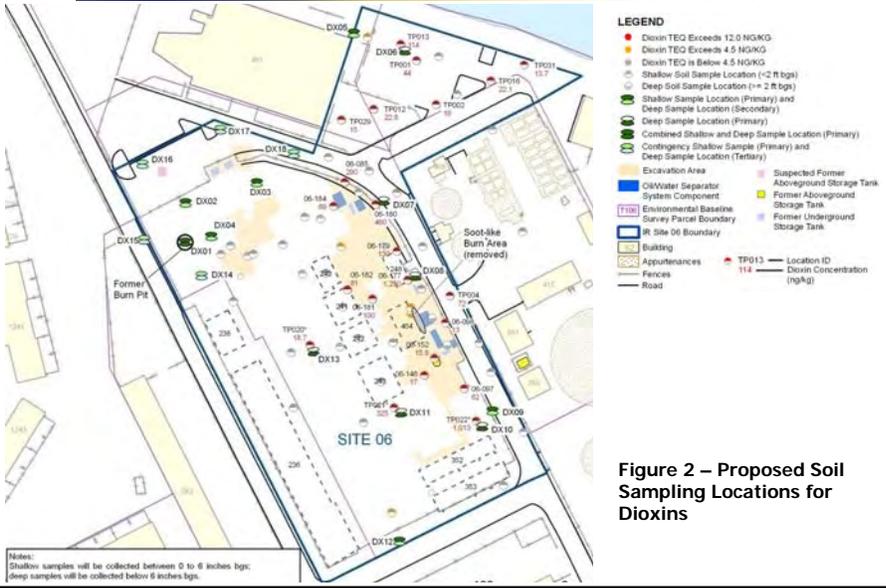


Data Gap	Investigation Points	Number of Investigation Points
Dioxin Soil Sampling	Test Pits	18
TPH Soil Sampling	Soil Borings	28
Soil Gas Sampling	Temporary Gas Monitoring Probes	20
Groundwater Sampling	Temporary Groundwater Monitoring Wells	6

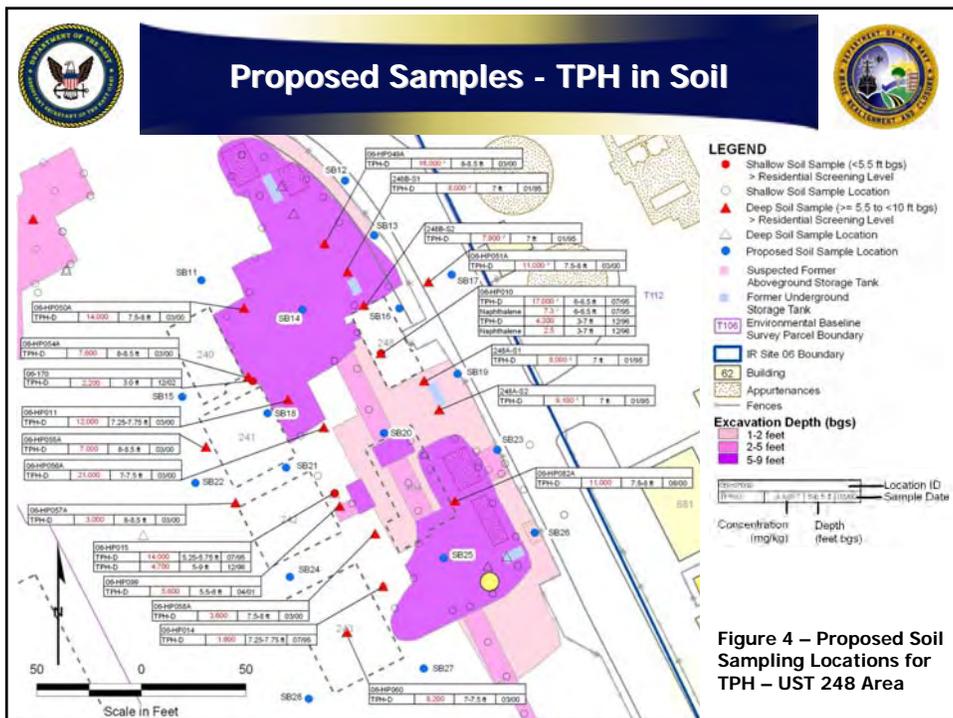
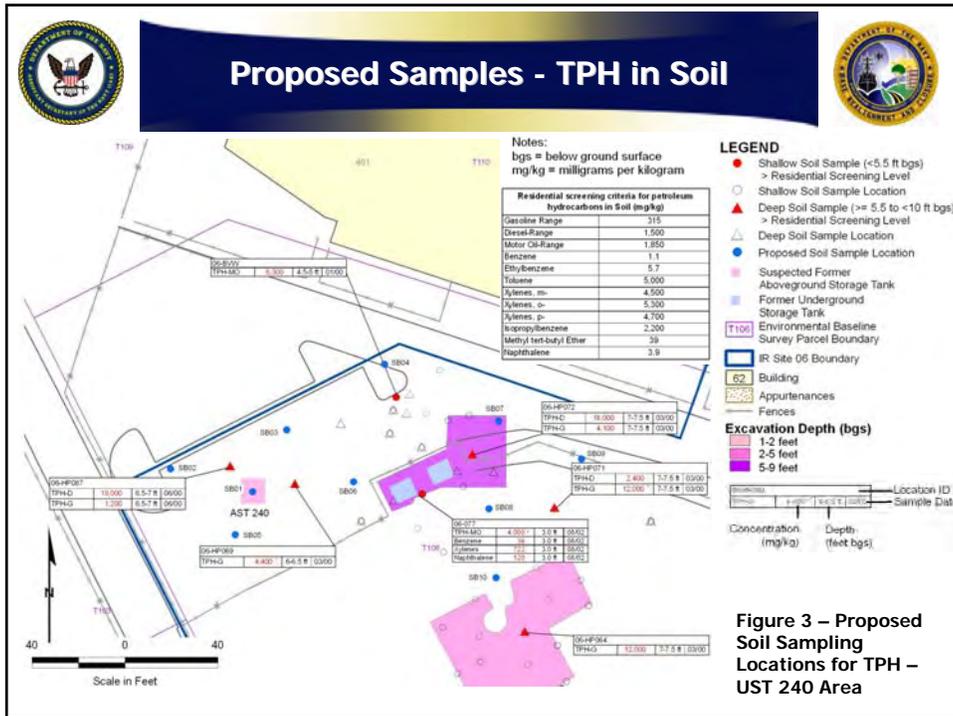
Total Investigation Points - 72



# Proposed Samples – Dioxins in Soil



**Figure 2 – Proposed Soil Sampling Locations for Dioxins**



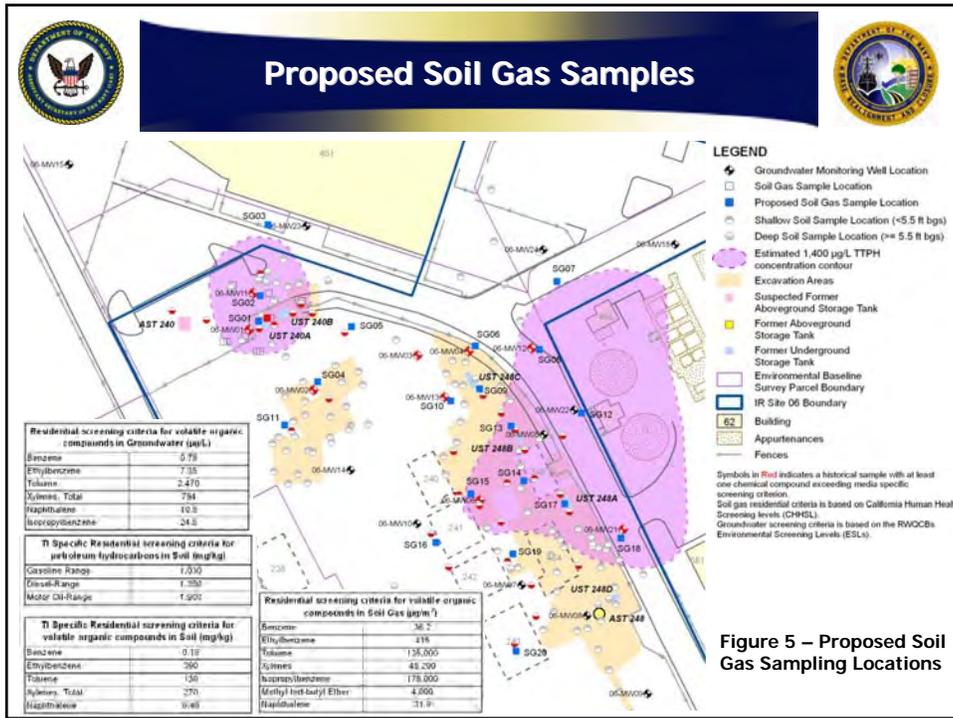


Figure 5 – Proposed Soil Gas Sampling Locations

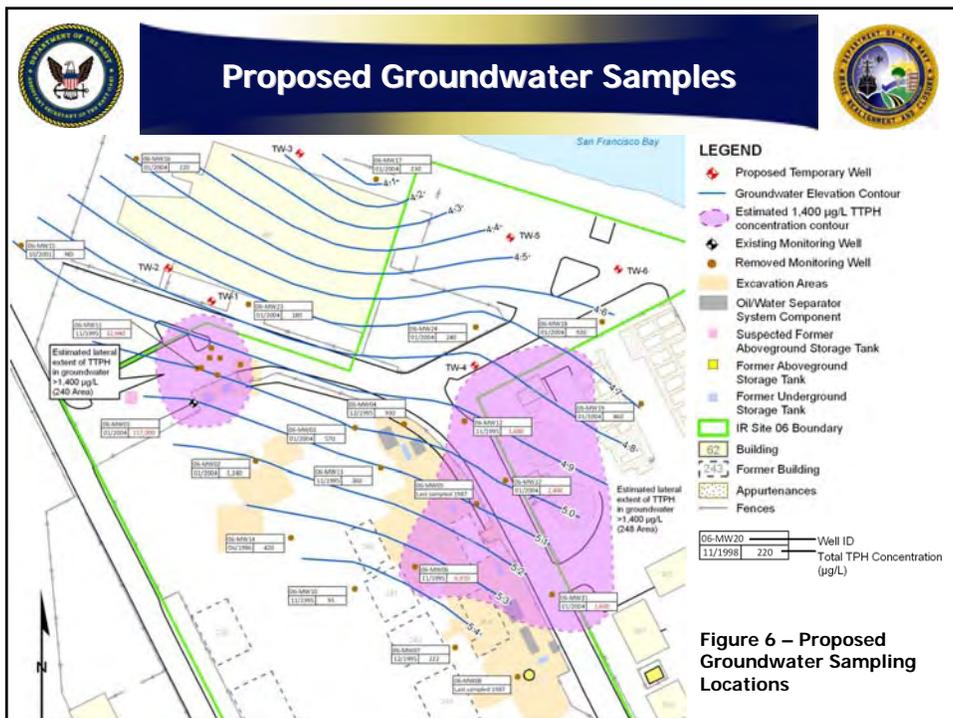


Figure 6 – Proposed Groundwater Sampling Locations



## Schedule



- **Submit Draft Data Gap Investigation Work Plan –**  
*August 27, 2009*
- **Submit Final Data Gap Investigation Work Plan –**  
*December 9, 2009*
- **Implement Field Sampling Program –**  
*December 10, 2009 through March 1, 2010*

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## Questions?



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## IR Site 30



# Record of Decision and Land Use Control Remedial Action Work Plan

## Building 502 - Daycare Center

Former Naval Station Treasure Island  
18 August 2009

1



## Presentation Outline



- **Brief Description of IR Site 30**
- **Overview of Record of Decision/Remedial Action Plan**
- **Draft Land Use Control Remedial Action Work Plan Preview**
- **Schedule**

2



## IR Site 30 Building 502 Daycare Center



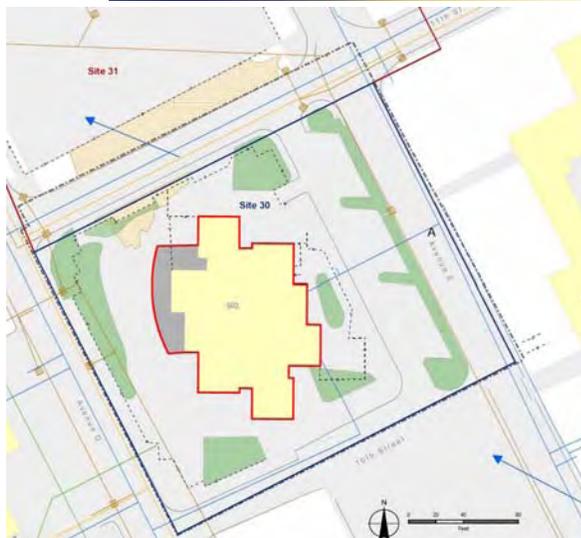
- Fenced daycare center building with paved and landscaped areas
- Walking paths, playground, storage areas, parking lot, and an asphalt pad
- IR Site 30 Concrete Pad
- Small grass lawns and landscaped areas cover a smaller fraction of the property



3



## Building 502 Daycare Center



- WATER PIPELINE
- GAS PIPELINE
- SANITARY SEWER PIPELINE
- STORM DRAIN LINE
- STORM DRAIN
- FENCE
- ROAD CURB
- GROUNDWATER FLOW DIRECTION
- A MONITORING WELL LOCATION
- ENVIRONMENTAL BASELINE SURVEY
- PARCEL TDS4 BOUNDARY
- IR SITE 30 BOUNDARY
- IR SITE 31 BOUNDARY
- AREA WHERE DEBRIS HAS BEEN REMOVED
- SITE 30 CONCRETE PAD
- VEGETATED AREAS, SITE 30
- BUILDING
- PAVED AREA
- UNPAVED AREA
- PROPOSED REMEDIAL ACTION AREA

Source: Barajas, July 2009

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## Record of Decision



- ROD Signed August 5, 2009
- Purpose of the ROD
  - Documents selected remedial action
- ROD is a legal document that certifies remedy-selection process for the site, completed in accordance with:
  - Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA)
  - National Oil and Hazardous Substances Pollution Contingency Plan (NCP)
  - California Health and Safety Code (HSC),
  - Hazardous Substances Account Act (HSAA), (§) 25356.1

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## Record of Decision (cont'd)



- Summary of technical rationale and background information contained in the Administrative Record
- Information necessary for determining the engineering components of the remedy
- Remedial Action Objectives (RAOs) for selected remedy
- Key tool for public communication

6



## Remedial Alternative 2 Land Use Controls



- Remedial Alternative 2 – *Selected*
  - Combination of engineering controls (ECs) and institutional controls (ICs) to prevent exposure to potentially contaminated soils beneath Building 502 and known contamination beneath the Site 30 Concrete Pad
  - Site-related risk is below risk management range for current and potential future use as Daycare Center, even if Site 30 Concrete Pad adjacent to Building 502 at Site 30 removed

7



## Remedial Alternative 2 Land Use Controls (cont'd)



- When contaminants are left in place at levels that do not allow for unrestricted use, Land Use Controls (LUCs) are used to ensure that contaminants do not pose an unacceptable risk to human health or the environment
- LUCs will prevent exposure to potential dioxin-contaminated soils beneath Building 502 and the IR Site 30 Concrete Pad in the short and long term
- Allows IR Site 30 to be used in its current and future use as a daycare center
- Provides most cost-effective remedial alternative that is adequately protective of human health

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## Typical ECs and ICs



- Typical Engineering Controls
  - Physical barriers between contamination and potential receptors
  - Caps, concrete pads, and fences
  - Signage to warn potential receptors of the presence of contamination
- Typical Institutional Controls
  - Legal, administrative mechanisms for restricting exposure to residual contamination (e.g. governmental and proprietary controls, enforcement of LUC, informational devices)

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## IR Site 30 Engineering Controls



- Maintain building foundation slab to prevent contact with potential dioxin contamination beneath.
- Periodic inspections required to verify its ongoing integrity and effectiveness

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## IR Site 30 Institutional Controls



- Restrict any removal or penetration of the Building 502 slab or IR Site 30 Concrete Pad
- Implement engineering controls, procedures, and safety measures if utility repairs are required
- Remedial investigation required by any future owner for any demolition or removal of existing structures
- CERCLA-mandated Five-Year Review to verify the ongoing effectiveness of the ROD remedy selected

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## Draft Land Use Control Remedial Action Work Plan Preview



- Purpose: Implement and document the ongoing effectiveness of ECs and ICs
  - Annual inspections of Building 502 concrete slab and IR Site 30 Concrete Pad to evaluate physical state and need for maintenance activities
  - Report annual inspection results to appropriate agencies and organizations

12



## Draft Land Use Control Remedial Action Work Plan Preview (cont'd...)



- Purpose (cont'd...):
  - Maintain annual inspection results for ongoing data management and reporting
  - Make provisions for utility repairs, as necessary
  - Conduct a remedial investigation and any necessary remediation beneath Building 502 upon building demolition and removal
  - CERCLA Five-year review of site conditions to assure that selected remedy is still protective of human health and environment

13



## Draft LUC RAWP - Annual Inspections



### Annual inspections include:

- Thorough visual examination of the Building 502 concrete slab and the IR Site 30 Concrete Pad for the presence of:
  - Chipped or cracked concrete
  - Cracks penetrating the concrete surface
  - Installation of unauthorized borings or holes
  - Repairs or other potential removals or penetrations of either surface



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## Draft LUC RAWP - Annual Inspections (Cont'd...)



- Photograph slab surface and the pad, documenting any areas of cracks, breaks, penetrations or other potential or actual damage:
  - Provide baseline images for subsequent annual inspections to identify any new damage
  - Provide sufficient detail and quality to accurately and completely illustrate problem or potential problem

15



## Draft LUC RAWP - Annual Inspections (Cont'd...)



- Measure specific location(s), length, width, depth of cracks, breaks, damage, etc., to develop appropriate remedial actions
- Document apparent/actual cause of damage
- Complete IR Site 30 Field Inspection Checklist
- Complete IR Site 30 LUC Annual Compliance Monitoring Report and submit to agencies

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# Field Inspection Checklist



Inspection Date \_\_\_\_\_ Inspector \_\_\_\_\_

Property Owner \_\_\_\_\_

### FIELD INSPECTION CHECKLIST

Site Condition	Location No.	Comments (location, number, size, length, depth, etc.)	NA	Photo No.
Are there cracks, holes, penetrations, or removals of the Building 502 concrete slab ? Provide location and description.			<input type="checkbox"/>	
Have there been any installation of new groundwater wells or soil or concrete borings of any type within the area requiring institutional controls ? Provide location and description.			<input type="checkbox"/>	
Are there any cracks, holes, penetrations, or removals of the ER Site 30 concrete pad observed during the site inspection ? Provide location and description.			<input type="checkbox"/>	
Has there been any removal or damage to security features such as locks on site fencing, signs, survey monuments, or other appurtenances ? Provide description.			<input type="checkbox"/>	
Was notification provided prior to any unauthorized change in land use (utility repairs, removals, etc.)? For what and by whom?			<input type="checkbox"/>	



# Schedule



- Draft LUC RAWP – Fall 2009
- Final LUC RAWP – Winter 2009/2010
- Implementation of LUC RAWP Winter 2010



# Questions



???

Naval Station Treasure Island  
Environmental Cleanup Program  
Document Tracking Sheet  
September 2009 - February 2010

Item	Document Title & Information	C/O/DO	INTERNAL DRAFT		DRAFT							RTC		INTERNAL FINAL		FINAL	Comments	
			Internal Draft Due to Navy	Navy Comments Due	Draft to Agencies	Date Due	Agency Comments						Preliminary RTCs to Agencies	Resolve and Concur on RTCs	Internal Final to Navy	Navy Comments Due		Final to Agencies
							DTSC	Water Board	EPA	TIDA	RAB	OTHER						
<b>SulTech</b>																		
1	<b>Site 33 Remedial Investigation Report</b>	103	09/07/06 ✓	10/16/06 ✓	10/17/08 ✓	01/06/09 ✓	✓	✓	✓	✓	✓	✓	06/25/09 ✓	07/22/09 ✓	08/20/09	09/03/09	09/17/09	Comments originally due 11/17/2008
	RPM: Scott Anderson																	
	PM: Kevin Hoch																	
	<b>Soil Gas Investigation Tech Memo</b>	117	NA	NA	NA	NA							NA	NA	02/20/09 ✓	03/25/09 ✓	06/17/09 ✓	
	RPM: James Whitcomb																	
	PM: Kevin Hoch																	
<b>Shaw Group</b>																		
2	<b>Site 31 Remedial Action Work Plan</b>	FZN1	6/10/09* ✓ 7/9/09** ✓	7/2/09 ✓ 7/30/09 ✓	08/28/09	09/27/09							TBD	TBD	10/07/09	10/17/09	10/24/09	* Navy technical review ** Navy legal review
	RPM: Scott Anderson																	
	PM: Pete Bourgeois																	
3	<b>Site 25 Request for Closure</b>	FZN1	07/01/09 ✓	07/09/09 ✓	08/06/09 ✓	09/05/09							TBD	TBD	09/19/09	09/29/09	10/09/09	
	RPM: Scott Anderson																	
	PM: Neil Hey																	
<b>Tetra Tech EM Inc.</b>																		
4	<b>Site 12 Radiological Risk Assessment</b>	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	Draft information sheet will be submitted with the Final Radiological Risk Assessment.
	RPM: James Whitcomb																	
	PM: Marcie Rash																	
5	<b>2009 Site Management Plan</b>	FZN6	03/26/09 ✓	04/09/09 ✓	04/16/09 ✓	05/17/09	✓	✓	✓	✓			06/25/09 ✓	07/01/09 ✓	07/27/09 ✓	08/27/09	09/10/09	Comments rec'd at May BCT Meeting.
	RPM: Charles Perry																	
	PM: Marcie Rash																	
6	<b>Site 27 Feasibility Study</b>	FZN6	09/24/08 ✓	11/07/08 ✓	12/29/08 ✓	02/27/09	✓	✓	✓	✓	✓		08/31/09	09/14/09	09/30/09	10/10/09	10/24/09	2.3.2009 DTSC submitted comments; additional comments from Fish and Game to follow. 5.29.2009 Additional comments from USDP.
	RPM: Lora Battaglia																	
	PM: Katie Henry																	
7	<b>Island Times Newsletter #16</b>	FZN6	09/01/09	09/15/09	09/25/09	10/09/09							NA	NA	10/19/09	10/26/09	11/02/09	
	RPM: Charles Perry																	
	PM: Marcie Rash																	

**Naval Station Treasure Island  
Environmental Cleanup Program  
Document Tracking Sheet  
September 2009 - February 2010**

Item	Document Title & Information	CTO/DO	INTERNAL DRAFT		DRAFT							RTC		INTERNAL FINAL		FINAL	Comments									
			Internal Draft Due to Navy	Navy Comments Due	Draft to Agencies	Agency Comments						Preliminary RTCs to Agencies	Resolve and Concur on RTCs	Internal Final to Navy	Navy Comments Due	Final to Agencies										
						Date Due	DTSC	Water Board	EPA	TIDA	RAB							OTHER	Priority Level							
<b>Barajas &amp; Associates, Inc.</b>																										
8	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	✓	Final ROD to agencies for signature on July 27, 2009.
	RPM: Charles Perry																									
	PM: Margaret Berry																									
8	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	✓	Final ROD to agencies for signature on July 27, 2009.
	RPM: Charles Perry																									
	PM: Margaret Berry																									
8	Site 11 Remedial Investigation Report	24	01/18/08	✓	10/07/08	✓	11/06/08	✓	02/17/09	✓	✓	✓	X	✓	✓	07/30/09	✓	09/14/09	✓	10/14/09	✓	10/21/09	✓	10/28/09	✓	8.5 DTSC requested extension of time to comment on RTCs.
	RPM: Scott Anderson																									
	PM: Margaret Berry																									
<b>Trevet</b>																										
9	2008 Site 6 & 12 Annual Groundwater Sampling Report	9002	06/19/09	✓	07/16/09	✓	08/28/09	✓	09/27/09	✓	✓	✓	✓	✓	✓	10/25/09	✓	11/08/09	✓	11/24/09	✓	12/08/09	✓	12/22/09	✓	
	RPM: James Whitcomb																									
	PM: Greg Alyanikian																									
10	Site 30 Land Use Control Work Plan	9002	4/20/09*	✓	5/1/09	✓	10/15/09	✓	11/14/09	✓	✓	✓	✓	✓	✓	12/12/09	✓	12/26/09	✓	01/25/10	✓	02/04/10	✓	01/21/10	✓	* Navy technical review ** Navy legal review
	RPM: Charles Perry																									
	PM: Greg Alyanikian																									
<b>ERRG, Inc.</b>																										
11	Site 6 Data Gaps Investigation Work Plan / Sampling and Analysis Plan	2608	07/08/09	✓	08/13/09	✓	08/20/09	✓	09/21/09	✓	✓	✓	✓	✓	✓	10/09/09	✓	10/23/09	✓	11/08/09	✓	11/18/09	✓	12/02/09	✓	
	RPM: James Whitcomb																									
	PM: Doug Bielskis																									
<b>Sullivan Consulting Group</b>																										
12	Site 28 Proposed Plan		8/17/09*	✓	9/17/2009	✓	11/21/09	✓	12/22/09	✓	✓	✓	✓	✓	✓	01/19/10	✓	02/02/10	✓	02/18/10	✓	02/28/10	✓	03/14/10	✓	* 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  
August 2009 - February 2010**

Item	Activity & Investigation Area	DTR #	Field Dates	Navy RPM	CTO/DO	PM	FTL	Complete
<b>Shaw</b>								
1	Site 24 Treatability Study Phase II <i>Site 24</i>	Doc N/A	Start: 07/21/08 Finish: TBD	Scott Anderson (619) 532-0938	FZN1	Pete Bourgeois (415) 277-6983	David Cacciatore (925) 288-2299	
2	Site 21 Pilot Treatability Study <i>Site 21</i>	Doc N/A	Start: 10/06/08 Finish: TBD	Scott Anderson (619) 532-0938	FZN1	Pete Bourgeois (415) 277-6983	Dan Leigh (925) 288-2193	
3	Non-Time Critical Removal Action <i>Site 12</i>	Doc N/A	Start: 02/26/07 Finish: Fall '09	James Whitcomb (619) 532-0936	10	Pete Bourgeois (415) 277-6983	Pete Bourgeois (415) 277-6983	
4	Arsenic in Groundwater Pilot Study <i>Site 12</i>	Doc N/A	Start: 11/10/08 Finish: TBD	Scott Anderson (619) 532-0938	FZN1	Pete Bourgeois (415) 277-6983	Pete Bourgeois (415) 277-6983	
5	PCB Soil Abatement Parcel T-111/Site 32 <i>Site 32</i>	Doc 8	Start: 05/11/09 Finish: TBD	Scott Anderson (619) 532-0938	FZN1	Pete Bourgeois (415) 277-6983	Pete Bourgeois (415) 277-6983	
6	Site 31 Remedial Action <i>Site 31</i>	Doc 9	Start: 10/05/09 Finish: TBD	Scott Anderson (619) 532-0911	FZN1	Pete Bourgeois (415) 277-6983	Pete Bourgeois (415) 277-6983	
<b>Trevet</b>								
7	Site 6 Groundwater Sampling <i>Site 6</i>	Doc N/A	Start: 09/15/09 Finish: 09/18/09	James Whitcomb (619) 532-0936	CLIN	Greg Alyanakian (858) 869-3110	Greg Alyanakian (858) 869-3110	
8	Site 12 Groundwater Sampling <i>Site 12</i>	Doc N/A	Start: 12/08/09 Finish: 12/11/09	James Whitcomb (619) 532-0936	CLIN	Greg Alyanakian (858) 869-3110	Greg Alyanakian (858) 869-3110	
<b>EMS</b>								
8	Site 12 Removal Action Soil Sampling <i>Site 12</i>	Doc N/A	Start: 12/05/07 Finish: TBD	James Whitcomb (619) 532-0936	NA	Dawn Roarty (916) 919-4785	Salem Attiga (925) 939-0687	
<b>ERRG</b>								
9	Site 6 Data Gaps Investigation <i>Site 6</i>	Doc 16	Start: 12/02/09 Finish: TBD	James Whitcomb (619) 532-0936	2608	Doug Bielskis (925) 839-2270	Phil Skorge (925) 839-2266	

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.