

**NAS KEY WEST RESTORATION ADVISORY BOARD
11 JUNE 2008 MEETING SUMMARY**

Location

Grand Cayman Room, Pier House Resort & Caribbean Spa, Key West, Florida

Restoration Advisory Board Members

Ron Demes	US Navy – NAS Key West	
Robert Courtright	US Navy – NAVFAC PWD Environmental	
Tracie Bolaños	FDEP	
Chuck Bryan	Tetra Tech NUS, Inc.	
Steve Offner	CH2MHill	
Mimi Stafford	RAB Community member	
Harold McGill	NAVFAC SE	
Beverly Washington	NAVFAC SE	
Kathy Stewart	BRAC PMO South East	
Dana Hayworth	NAVFAC SE	

Other Participants

Debbie Pyron	Tetra Tech NUS, Inc.	
Tim Flood	Management Edge	
Ed Barham	US Navy – NAVFAC PWD Environmental	
	Resident	
Edward Russell, Jr.	FDEP	
	Resident	
	Resident	
Trice Denny	NAS Key West PAO	
David LyBrand	Last Stand	
Annalise Mannix	City of Key West	
Bob Eadie	Monroe County Health Department	
	Resident	

Welcome and Introductions

Ron brought the meeting to order at 7:00 PM. Introductions were made of RAB members. Ron gave brief instructions on how questions and answers are handled – questions from RAB members can be made during presentations while any questions from the audience can be made after the presentation has concluded.

Review of Last Meeting

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Ron read highlights of 2007 RAB meeting summary.

CNO Award Nomination for Environmental

Ron reported on the Award package that the Partnering Team had put together and submitted in December 2007 highlighting numerous environmental achievements at NAS Key West during the past two years. The Chief of Naval Operations (CNO), however, decided to award to the Pensacola Team. Ron gave an overview of the contents of the NAS Key West package.

Tracie described how she worked with the Navy on cleanup of sites and what goes into getting a Site Rehabilitation Completion Order (SRCO) / No further Action (NFA) from the State of Florida. Presently there are 59 environmental sites with 35 NFAs and 3 more sites currently being considered for NFA. This leaves 21 sites remaining. Tracie briefly described what an NFA is and summarized the criteria for obtaining NFA at an environmental site in the State of Florida.

RAC Updates

Steve gave an update on three RAC sites.

Trumbo Point Tank Farm (TPTF)

In 2003 the FDEP approved the Petroleum Product Recovery Plan. The program began with 13 free product areas. Only two free product areas remain within the entire site.

The Trumbo Point Tank Farm has been divided into two main areas, the TPTF itself and the Coast Guard area. Some of the monitoring wells were abandoned in the fall and winter of 2007 on the Coast Guard portion. An SRCO (NFA) is also being pursued for the Coast Guard area.

The Trumbo Point Tank Farm Navy area has been further divided into the Navy North and South areas. The Navy has planned enhanced remedial action to begin in June 2008. They plan to establish the boundary of free product and excavate contaminated soil offsite for disposal. They also plan to restore the site, install monitoring wells along the seawall, and perform groundwater monitoring.

During a sampling event late September 2007 increased levels of free product were found in monitoring wells within the bermed area of Tank #1. Key West Pipeline (KWPL – the owner and operator at this facility) immediately commenced remedial activities in the Fall of 2007. KWPL has conducted source removal actions to remove the free product from the ground in the area of Tank #1. KWPL is drafting a report to FDEP regarding this fuel leak and the recovery of free product.

IR 1 Landfill

After repairs were completed (from the damage caused by Hurricane Wilma in October 2005), the Navy developed a plan to enhance site drainage and to re-vegetate the site. Four performance monitoring wells were replaced at the site.

Saratoga Avenue Response

Water contaminated with petroleum products was discovered inside the underground electrical distribution system at several manholes & utility vaults in 2005. Visual staining of soil around manhole MH-31 and transformer T-230 was observed. Soil was excavated and backfilled

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with clean material. The area met cleanup standards after excavation. Three groundwater monitoring wells were installed in early 2007. No petroleum or PCBs were detected above standards. Trichloroethene (TCE) and tetrachloroethene (PCE), however, were detected above the FDEP standards in 1 well. Additional investigation of the nature and extent of TCE and PCE contamination in groundwater will be conducted.

Paul Caruso asked what types of contaminants we are talking about at the Trumbo Point Tank Farm (TPTF). Steve answered that in the south we are talking about diesel fuel and in the north jet fuel. Bob commented that the plume is usually a kerosene lamp type of fuel. Paul asked how jet fuel gets pumped to the base. Bob responded that the fuel gets pumped to the Boca Chica airfield via a fuel pipeline. Bob stated that the property at the TPTF site is owned by the Navy and that KWPL owns the tanks and pipeline on the property. KWPL is paid to handle transportation of fuel to the base at Boca Chica.

Paul Caruso asked what kind of pipe was used to transport the fuel. The response was that two single-walled pipes feed the storage tanks at the Trumbo Point Fuel Farm. Paul asked what would happen if it blows. Bob stated the fuel does not have the same volatility as regular gasoline does. Ron stated that the integrity of the pipelines fall under several different regulatory agencies.

David LyBrand asked why the monitoring wells were abandoned at the Coast Guard area. Steve replied that they were no longer needed due to lack of containments being identified in these wells. Ron asked Chuck to report on how many well have been closed. Chuck reported about 150 monitoring wells have been closed to date throughout all of the NAS Key West properties.

Mimi asked what the source of TCE and DCE contamination was at Saratoga Avenue. Steve stated they did not see the compound in sampling the material or soil that was brought up.

Paul asked what determines the priority of a site. Bob stated we follow the CERCLA/RCRA laws and regulations as well as the need to meet the requirements of EPA and FDEP. Ron stated that NAS Key West has been a leader in prioritizing and obtaining funding for cleaning up environmental sites. Key West does not have sites that are "sitting" in an idle mode without any funding programmed for them.

BRAC Updates

Kathy gave a presentation on the BRAC sites.

Former DRMO Site

The former DRMO Waste Storage Area is approximately 6.5 acres in size and was used to store metal debris, motors, vehicles, boats, refugee debris, and fuel trucks. The primary contaminants are lead and polychlorinated biphenyls (PCBs). The project completion report was issued in June 2007. Additional soil sampling was conducted in November 2007. Lead was detected below clean up target levels in all instances. PCBs were below clean up target levels in all but one instance. The remaining concentrations are acceptable for future unrestricted land use. The Navy is currently working with FDEP to receive NFA or NFA with Land Use Controls (LUCs) at this site.

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Former Building 1276

This is the site of the former auto repair shop. The site had 58 tons of soil removed. The Site Rehabilitation Completion Request report was issued in February 2008. The Navy is currently working with FDEP to receive NFA at this site.

Poinciana Housing Plaza Site

Soil removal action was completed in December 2005. Groundwater sampling was done in 2006 and 2007. Arsenic concentrations were reduced by up to two orders of magnitude. The Navy is currently working with FDEP to receive NFA with LUCs (groundwater use restrictions) at this site.

Mimi asked about lead at the site. Chuck replied that there was lead in the past decade but has been cleaned up. Ray asked where the arsenic came from. Bob stated that CH₂M Hill was tasked to put in a new monitoring well and excavate soil. In doing so they found an old clay pipe. Sampling showed arsenic was the same as the soil. The bottom line is that they really don't know the source of the arsenic.

Paul asked if we were cleaning up after transferring the property. Kathy replied that yes we are cleaning up the property and that sometimes we transfer the property before we complete all cleanup activities.

Paul asked how long we (the military) have been here. Ron replied that a military presence in the Lower Keys started in the early 1800s. In 1984 we identified all environmental sites and started initial environmental site investigations.

Paul wanted to know if we had a repository. Bob replied that the library (700 Fleming Street) has an Information Repository in electronic format that has everything from the early 1980s to date. Paul inquired about earlier documents? Ron replied that there was an extensive search of files and former employees were interviewed to identify sites. Each site was given a Navy installation number. We continue to investigate for new sites as part of ongoing environmental remediation activities.

Performance Monitoring Program Sites

Chuck reported that we have state and federal laws and regulations that we must follow and criteria that we use to help determine appropriate decisions at each site. Performance monitoring is sometimes needed at sites where contamination is allowed to remain on the site.

IR 1 Truman Annex Refuse Disposal Area

This site is a landfill. The chemicals and debris left in place are underground. Lead and copper are the primary chemicals of concern. There are currently eight monitoring locations for sediment. The Navy will look at the data from the site and determine whether to continue monitoring the sediment, as no chemicals of concern have been detected during recent monitoring events. There are four groundwater monitoring wells locations that are also being sampled for chemicals that may be leaching from the landfill.

IR 7 Fleming Key North Landfill

This site contains construction debris. There is one groundwater location being sampled. Chemicals of concern are arsenic and thallium. No detections have been above the levels of

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concern during recent events. The chemicals of concern will be monitored as long as the landfill is there.

IR 8 Fleming Key South Landfill

There are two remaining groundwater sampling locations. Chemicals of concern are aluminum, antimony, arsenic, and iron. The chemicals of concern will be monitored as long as the landfill is there.

SWMU 1 – Boca Chica Open Disposal Area

There are two groundwater sampling locations that continue to see chemicals of concern above any level of concern. There are five sediment and surface water locations which have numerous chemicals of concern. The plan is to monitor this site for a long time to ensure chemicals of concern remain on site and are not migrating off-site.

Paul asked if the chemicals were migrating during storms. Chuck replied that he had done post-storm surge sampling after hurricane Wilma and chemicals did not appear to migrate very far. The mangroves and limestone act as a barrier by holding chemicals in place. In 1995-1996, contaminated soil and sediment were excavated and clean backfill was put in place at this site. In 2001 a more focused excavation was performed. All the sites have gone through the RCRA/CERCLA process to ensure the chemicals left in place do not pose a threat to human health and the environment.

SWMU 2 – Boca Chica DDT Mixing Area

There are three groundwater monitoring locations. The primary chemicals of concern are DDD and DDE. These chemicals take a long time to break down and the site will continue to be monitored as long as these chemicals remain above the levels of concern. There are five sediment and surface water locations. DDD and DDE are also the chemicals of concern here. We will continue to monitor the site to determine that chemicals do not migrate off-site.

SWMU 5 – Boca Chica AIMD Sand Blasting Building A-990

This site is being monitored for metals. Over past five years the data has shown reductions in the concentrations of chemicals in sediment and surface water. Performance monitoring at this site may be reduced due to chemicals being detected at lower frequencies and levels.

SWMU 7 – Boca Chica Former Hazardous Waste Storage Area Building A-824

This site has three sediment and surface water sampling locations. The site has numerous chemicals of concern which are close to action levels and continue to pose no risk to human health or the environment.

The five year review for the NAS Key West environmental sites is planned for 2009 and the next annual performance monitoring sampling event is scheduled for January 2009.

Paul asked what would happen during a perfect storm. What do we do about the metals bouncing into each other and posing a greater risk after being combined together? Bob replied that the metals don't exchange into each other and the synergistic effects are included in risk calculations performed at sites with chemicals detected in the environment.

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Paul asked what was at the Hawk Missile site. Ron explained that we investigated the site and then we get the gross containments out of the ground. Then we go into a monitoring stage for any chemicals that are allowed to stay in place. The chemicals of concern are not that high and exposure is limited. The Hawk Missile site is under investigation and we do not believe it to be migrating off site but we are tracking it anyway.

Paul asked if we could call the Navy to request a test on a canal to see if leaching is occurring off the Hawk Missile site. We have investigated Navy sites and will not get into investigating the county sites outside of Navy property boundaries. We have established baselines for NAS Key West only. The data collected at NAS Key West environmental sites indicate chemicals are not migrating outside the facility's boundaries.

Paul asked if the Navy has an inventory of magazines (used to store ammunition and explosives). Ron replied that we had them at Boca Chica and Fleming Key and they were all included in the 1984 investigation.

Paul asked when we would get to the Hawk Missile site investigation. Bob replied that we have issued notification to FDEP and we plan to do an investigation as soon as funding is available. We have asked for emergency funding to begin the preliminary assessment process.

Meeting Adjournment

Ron thanked everyone for coming to the meeting. These Restoration Advisory Board meetings are held once a year. Ron stated that the following would be on agenda next year.

- Petroleum Sites and Trumbo Point Tank Farm
- BRAC Update (City Redevelopment of Truman Annex)
- Annual Performance Monitoring
- RAB "Sunset"

Ron asked for comments or items to be address at the next meeting.

Ron reported that records are available at the Monroe County Library. The NAS Key West Public Affairs Officer may be contacted to answer any questions the public may have at 305-293-2425.

Ron adjourned the meeting at 8:35 PM.