RESTORATION ADVISORY BOARD MEETING NAVAL WEAPONS INDUSTRIAL RESERVE PLANT BETHPAGE BETHPAGE COMMUNITY CENTER BETHPAGE, NEW YORK WEDNESDAY, JUNE 7, 2006

The fifteenth meeting of the RAB began at approximately 7:00 p.m. Meeting attendees included representatives from the Navy, (Jim Colter and Susan Clarke), Town of Oyster Bay, New York State Department of Environmental Conservation (Steve Scharf), RAB community members (Rosemary Styne and Charles Bevilacqua), and local residents.

WELCOME AND AGENDA REVIEW

The Navy representative, Mr. Jim Colter, Engineering Field Activities Northeast (EFANE), welcomed everyone to the RAB meeting and apologized for the short notice. Mr. Colter went on to give a brief summary of events since the last RAB meeting in April 2005. He noted that the RAB meetings scheduled for August and November 2005 were cancelled in order to address comments and concerns from the Bethpage Water District and the Town of Oyster Bay. Mr. Colter announced the closing of the EFANE office in Philadelphia and introduced Ms. Susan Clarke. Ms. Clarke is from Naval Facilities Engineering Command Mid-Atlantic (MIDLANT) located in Norfolk, Virginia and will be replacing Mr. Colter as the project manager for NWIRP Calverton. Mr. Colter then went over the meeting agenda. The agenda for the meeting is included as Attachment 1

MEETING MINUTES

Because of the limited number of RAB community members present, Mr. Colter tabled the discussion of the April 2005 minutes until the August Meeting and noted that copies of the April 2005 minutes would be available after the meeting. The April 2005 RAB Meeting Minutes are included as Attachment 2.

TECHNICAL PROGRESS

IR Activity Update

Site 4 – AOC 22

Mr. Colter provided and update on Area of Concern (AOC) 22. This site was a former underground storage tank area that was impacted by heavy petroleum products - No. 6 Fuel Oil. The Navy selected a vendor to conduct a pilot scale evaluation of a remedy for the site. The pilot test started operation in September 2004 using an innovative bioremedial technology. Since the last RAB meeting (April 2005), the consultant went bankrupt and that there was no money to finish the pilot study. Mr. Colter indicated that the contract with the consultant will be terminated and that the CLEAN contractor be tasked to perform a site evaluation. Final actions for the site will then be evaluated. A

handout of the Closed Loop Bioremediation Pilot Demo at AOC 22 is included as Attachment 3.

<u>Site 1 – Soil Excavation Design</u>

Mr. Colter went on to provide an update of the Site 1 remedial activities. An air sparge/soil vapor extraction system was constructed and operated at the site to address solvent contamination. This action is done. Mr. Colter indicated that during subsequent soil testing at the site, the extent of the polychlorinated biphenol (PCB) problem was more extensive than previously identified, and as a result the original plan was not feasible. Currently, the Navy and NYSDEC are working in conjunction to find the best remedy for the PCB remediation. The Navy will be assembling a "Tiger Team" to evaluate the site. The Team will be used to provide a fresh and detailed re-evaluation of the site to determine whether there are any new potential options.

A community member indicated that he lives near the Bethpage/Hicksville boundary near the facility and asked if there were any concerns with contamination in the Hicksville Water District water supply. Mr. Colter replied that that he is not familiar with any problems with the water in the area and he believes that water for the District is collected from well field that are upgradient and well away from site, but he will look into it and see if there is a concern.

Another community member asked if there has been PCB remediation previously and does this include the PCBs found in Bethpage Park. Mr. Colter replied that there was a remediation project at the Bethpage Community Park, but that it is not related to the Navy property.

GM-38 Remedy, Final Design

Mr. Patselas from Tetra Tech EC (formerly Foster Wheeler Environmental) provided a progress update on the GM-38 Remedy, Final Design, including history of the project, treatment system design, well installations, construction and operation and maintenance. The slides of the presentation of the Groundwater Remediation Project are provided as Attachment 4.

A community member noted that vinyl chloride has never shown up in samples from the Bethpage Water District and asked how the Navy plans to remove vinyl chloride. Also, he asked if the source of the vinyl chloride was known. Mr. Patselas replied that air stripping tower effectively removes vinyl chloride from water. Mr. Colter indicated that the exact source of the vinyl chloride is not known, but that it could possibly be from degradation of TCE and PCE.

Another community member asked when the discharge is pumped back into the ground, will it meet water quality standards and what is the planned testing frequency. Mr. Patselas replied that the water will meet these standards and that they are currently applying for a permit to discharge from NYSDEC. Mr. Patselas indicated that the

sampling will likely occur on a weekly basis to begin with and then eventually be conducted on a monthly basis.

A community member asked where the plant controls were located. Mr. Patselas replied that the controls would be in the plant, but can be operated remotely. The community member then asked were the office will be located. Mr. Patselas responded that the primary operator of the plant will be local, but that operator and others could monitor and operate the plant remotely.

A community member asked where the new plant will be located. Mr. Patselas responded that the plant will be located adjacent to Route 135, inline with the utility right-of-way.

A community member asked how long the plant will operate. Mr. Colter replied that the based on the results, the plant is estimated to operate for seven years, but we will know more once the plant is operating.

A community member asked if the injection wells are used to control contamination, then why is contamination still moving south. Mr. Colter responded that the plume is too large and continues to migrate south. The focus is control and contain the area were the highest contamination was detected.

A community member asked how long it will take for the contamination to get from a monitoring well (outpost monitoring well) to the drinking water supply well. [Note this comment was in reference to groundwater contamination south of the Hempstead Turnpike]. Mr. Colter replied that once contamination is detected in the monitoring wells, it will take approximately five years to reach the supply well.

A community member asked what will happen to the building after the seven years. Mr. Colter replied that the wells will be abandoned and the Town will be asked if they would like the building. Otherwise, the Navy will also remove the building.

CLOSING REMARKS

Mr. Colter asked if there were additional questions and announced that the next RAB Meeting is scheduled for August 2, 2006 and letters will be sent to the RAB members and Regulators. The meeting was adjourned at approximately 8:30 pm.

ATTACHEMENT 1 JUNE 7, 2006 MEETING AGENDA

Agenda

Restoration Advisory Board Naval Weapons Industrial Reserve Plant Bethpage

June 7, 2006 Bethpage Community Center, Bethpage, NY 7:00 p.m.

<u>Welcome and Agenda Review</u> Jim Colter, Engineering Field Activity Northeast Susan Clarke, NAVFAC Mid-Atlantic

Meeting Minutes All Members

Technical Progress

IR Activity Update - Jim Colter

- Budget and Financial Status
- IR Site 4 AOC 22
- IR Site 1 Soil Excavation Design

GM-38 Remedy, Final Design - Stavros Patselas, Tetra Tech FW

Closing Remarks Jim Colter

Presenters will be available after the program for questions.

ATTACHEMENT 2 APRIL 2005 MEETING MINUTES

N90845.PF.000811



DEPARTMENT OF THE NAVY

ENGINEERING FIELD ACTIVITY, NORTHEAST NAVAL FACILITIES ENGINEERING COMMAND 10 INDUSTRIAL HIGHWAY MAIL STOP, #82 LESTER, PA 19113-2090

IN REPLY REFER TO 5090 Code EV21/JLC

3 JUN 2005

MEMORANDUM

FOR THE MEMBERS OF THE RESTORATION ADVISORY BOARD (RAB) FOR THE INSTALLATION RESTORATION PROGRAM AT NAVAL WEAPONS INDUSTRIAL RESERVE PLANT (NWIRP) BETHPAGE, NEW YORK

Enclosed are the meeting minutes from the Restoration Advisory Board (RAB) meeting that was held at the Bethpage Community Center on Wednesday, April 6, 2005.

If you have any questions regarding these minutes, you may send me an email at james.colter@navy.mil or call me at (610) 595-0567, extension 163.

Sincerely,

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JAMES L. COLTER Remedial Project Manager By direction of the Commanding Officer

Enclosure:

(1) Meeting Minutes from the 4-6-2005 RAB Meeting

Distribution: NAVAIR, Joe Kaminski NYSDEC (Albany), Steve Scharf NYSDEC (Albany), Henry Wilkie NYSDEC (Stony Brook), Stan Farkas NYSDOH, Ian Ushe USEPA Region II, Carol Stein USEPA Region II, Carla Struble Nassau County DOH, John Lovejoy Nassau County DPW, Tim Kelly Town of Oyster Bay, Hon. John Venditto Town of Oyster Bay, Richard Pfaender Town of Oyster Bay DPW, Tom Clark ECOR, Al Taormina Tetra Tech FW, Stavros Patselas Community Co-Chair, Jim McBride Community RAB Member, Mike Grello Community RAB Member, Hon. Ed Mangano Community RAB Member, Linda Mangano

Community RAB Member, Ed Resch Community RAB Member, Charles Bevilacqua Community RAB Member, Roy Tringali Community RAB Member, Rosemary Styne

ATTACHMENT 1

AGENDA

Agenda

Restoration Advisory Board Naval Weapons Industrial Reserve Plant Bethpage

April 6, 2005 Bethpage Community Center, Bethpage, NY 7:00 p.m.

<u>Welcome and Agenda Review</u> Joe Kaminski, Naval Air Systems Command

Review and Approval of Minutes All Members

AOC 22 Pilot Study

Dan Lohavanijaya Tierra Technologies

Progress Update – GM-38 Remedial Design Stavros Patselas, Tetra Tech FW

<u>Closing Remarks</u> Joe Kaminski, Naval Air Systems Command

Presenters will be available after the program for questions.

RESTORATION ADVISORY BOARD (RAB) MEETING NAVAL WEAPONS INDUSTRIAL RESERVE PLANT (NWIRP) BETHPAGE BETHPAGE COMMUNITY CENTER BETHPAGE, NEW YORK WEDNESDAY, APRIL 6, 2005

The fourteenth meeting of the MWIRP Bethpage RAB began at approximately 7:00 p.m. Meeting attendees included representatives from the Navy, (Jim Colter and Joe Kaminski), Town of Oyster Bay (Rich Pfaender), New York State Department of Environmental Conservation (NYSDEC) (Steve Scharf), New York State Department of Health (NYSDOH)(Trevor Wescott and Wendy Kuehner) RAB community members (Charles Bevilacqua, Rosemary Styne, Ed Mangano, Mike Grello), Bethpage Water District, and local residents. The RAB meeting was attended by an usually large group of residents local to the general GM-38 Area.

One resident noted recommended changing the location of the meeting to the library or high school, since the location of the community center is not well known. Mr. Colter (Navy) replied that a new location will be considered.

Welcome and Agenda Review

The Navy RAB Co-chair, Mr. Joe Kaminski, Naval Air Systems Command, welcomed everyone to the RAB. Mr. Kaminski, began by presenting a brief history of the site. To comply with the community's primary concerns, Mr. Kaminski decided to forego the agenda (Attachment 1) and address the community's primary concerns/issues regarding the GM-38 Remedy. Accordingly, the presentation and discussion regarding the AOC 22 Pilot Study was removed from the agenda.

The GM-38 area update (Attachment 2) was presented during the course of the meeting.

GM-38 – OPEN FORUM

Mr. John Pacifico, a local GM-38 resident, commented that better participation by the community is needed, and noted that the issue is why is it (GM-38 Area) in their neighborhood and why weren't they notified earlier.

A resident questioned how many strippers are in the area. The response was that there are three strippers in the area, two are in one building associated with Bethpage Water District (BWD) Plant 5 and the other is associated with BWD Plant 4.

A resident commented that the construction activities at the GM-38 Area to date are not acceptable. The schedule has been slow.

April 2005 RAB

A resident commented that it has taken 30 years for Navy to clean up the area and asked whether people are aware that this area is considered to be a high cancer area. Also, that the Navy came into the community without notifying the residents.

A resident noted that contamination has been in the area for over 18 years and that they would like to be informed when something happens in the area.

At this point, the meeting had gotten out of control with several local residents making statements. There was no meeting facilitator present at this meeting to help keep the meeting focused.

Mr. Ed Mangano (Nassau County Legislator) commented that there needs to be more community involvement from local community members and he made reference to the efforts taken by John Pacifico. Mr. Mangano went on to say how the Navy has been holding these RAB meetings for sometime and that the meetings are held just about every quarter. Mr. Mangano recommended to the group to listen to the Navy's presentation and reiterated that the RAB is made of community members just like those present.

A resident made a statement that these meetings need to be publicized better. Mr. Colter (Navy) agreed with the resident and noted that "getting the word" out with regards to these meetings has been a continuing challenge. A line must be drawn with regards to the mailing list and, as expected, someone on the other side of the line does not get a notification. Mr. Colter noted that as long as everyone had signed in at the welcome table, their names would be added to the Navy's mailing list and that the Navy will expand the area for notifications and promised to try and do a better job with notifying the local community of upcoming meetings.

Mr. Colter continued to say that the Navy has been working with NYSDEC for several years with regards to the cleanup of contaminated groundwater. Mr. Colter used a poster that showed the extent of the groundwater contaminant plume but emphasized the fact that despite the size of the plume on the poster, approximately 80% of the contamination is still located "onsite", with onsite defined as the Navy/Northrop Grumman properties, and that the remainder of the plume to the south accounts for the remaining 20%.

A comment was made as to the quality of the drinking water. Mr. Colter explained that the Bethpage Water District, and all of the water districts in this area, regularly monitor the quality of the drinking water and reports this information to the Nassau County Department of Health. The Navy cannot address any issues with regards to the quality of their drinking water. Residents need to discuss their concerns with their local water authority and in the case of the GM-38 Area, the Bethpage Water District.

April 2005 RAB

Mr. Colter went on to explain that a contaminated groundwater plume is moving from the Navy/Northrop Grumman sites to the south and monitoring wells have been installed to monitor the contaminant movement. Within the overall groundwater plume, there is higher concentration plume located in an area referred to as the GM-38 Area. The location for the groundwater extraction and recovery wells and treatment system were selected based on the availability of land and proximity to the GM-38 Area. The plan is to run the system 5 to 10 years to meet cleanup goals. The project is currently in Phase I (draft design phase) which the Navy is prepared to discuss tonight. The draft design will then go to NYSDEC for comments. The Navy will also send a copy to the Town of Oyster Bay and the local community will have a chance to comment through the Town. Any comments made by the community will be considered by the Navy.

A resident inquired what the decibel (noise) level will be when the plant is running. Mr. Patselas replied that there will be construction techniques utilized that will minimize the amount of noise that can be heard from the system. When completed, the noise coming from the system should be equal to or even less than what the residents are used to hearing from the nearby highway.

Mr. Patselas (Tetra Tech EC) presented the current work for the GM-38 Area. Mr. Patselas apologized to the community for any inconveniences that may have occurred due to the drilling. Mr. Patselas noted that drilling activities should be completed within the next couple of weeks and added that they have begun cleanup activities at the dead-ends of North and South Windhorst and Herman Avenues by removing fallen trees and branches.

Mr. Patselas noted that one complaint has been night work and the use of lighting. He indicated that because of the project requirements, there are times that night work was needed and adequate lighting was a major requirement needed to ensure the safety of the workers. In the future if night work is required, activities will be conducted in a manner that will minimize neighborhood impacts.

A resident inquired why the community had to call the police for leaving an open well. Mr. Patselas inquired if the resident was speaking of the weekend of Jan 14 to16. Mr. Patselas apologized for the incident and stated that there was no excuse for what happened. Since that time, a temporary fence has been installed around all work areas and equipment and modifications have been done to all of the fences to prevent entry by kids and pets.

Mr. Patselas further explained the site history of the GM-38 project. In 2003, the design was submitted and in September 2004, a community poster session was held. Construction activities began in October 2004. The treatment plant will be sited along the Seaford-Oyster Bay Expressway. Aesthetic considerations have been included into the design. For example, there will be a berm constructed using excavated soil that will create a visual barrier between the treatment plant

April 2005 RAB

and nearby homes. To add to the visual barrier, trees will be planted on top of the berm. The goal of this project has always been to minimize the removal of as many of the trees as possible, however, some trees had to be removed for the construction.

Other considerations that went into the design of the treatment plant building included the use of lighting shrouds that will reflect the outdoor lights downward, alarms for the system will be silent to the neighborhood, silencers will be installed on all equipment, and insulation will be installed between the double-panel building walls. During the next phase of construction starting in August 2005, a temporary access road will be constructed off of Broadway Avenue. This was included so that the heavy equipment and building materials that will be needed can access the site without traveling down Sophia Street.

Concerns were raised regarding the current location of the drill rig and the need to remove so many trees. Mr. Steve Scharf from NYSDEC noted that the original plan was for one of the recovery wells to be located in the middle of South Herman Avenue. In order to try and minimize impacts to that part of the neighborhood, the NYSDEC asked the Navy consider moving the recovery well to the east behind the trees. The Navy's consultants concluded that moving the well about 100 to 150 feet to the east would have no adverse bearing on the overall design of the recovery system, and contacted the New York State Department of Transportation regarding the possible use of their property to install not only a recovery well, but also the injection wells.

A concern was raised regarding the condition of the streets due to the construction activities. Mr. Colter indicated that the services of a street-sweeper will be procured and that the streets will be swept within the next couple of weeks.

Mr. Anthony Sabino, Attorney for the Bethpage Water District, indicated that he also owns a home in the area. However, he wanted to point out that the contamination that is being discussed is associated with the groundwater and that the water table is located 70 feet below the ground surface. There is no contamination found between the ground surface and the water table and there is no concern for the local residents.

A resident expressed a concern with contaminants being released into the air after being stripped from the water. Mr. Colter replied that vapor-phase carbon will be used to remove the contaminants from the air so that contaminants are not being released into the air. There are air guidelines that have to be met and part of the operation of the system will include air sampling to ensure compliance with these guidelines.

A question was raised about the carbon that is used up. Mr. Colter responded that the spent carbon is disposed of offsite.

ATTACHMENT 2

GM-38 PRESENTATION









Site History (cont'd)

- Community Workshop (September 2004)
- Pre-design investigation (November 2004)

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- Draft Remedial Design (February 2005)
 - Navy and third-party consultant

BNAT





























































Milestones	Date
Project Planning	On-going
Mobilization	August 1, 2005
Start of Construction	August 8, 2005
End of Construction	September 1, 2006
Plant Start-Up and Shakedown	September 4, 2006
Start of Operation & Maintenance	October 2, 2006



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ATTACHEMENT 3 CLOSED LOOP BIOREMEDIATION PILOT DEMO AT AOC 22











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Project Status To-Date

Project Milestones

Design, Plans, Permits	2/04 – 7/04	100% Complete
Mobilization, System Installation	8/04 – 10/04	100% Complete
System Operation	10/04 – 9/05	75% Complete
- Groundwater Sampling & Analysis	Monthly	Last Sample 8/10
- Soil Sampling & Analysis	Every 2 Months	Last Sample 8/9
Final Report / Closeout	9/05 – 1/06	0%
Site Restoration	2/06 – 3/06	0%

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13 September 2005





		Proprietary Information	* 3
	Questions and Discussion		
terrotechnologies Locus	13 September 2005	15	

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ATTACHEMENT 4 GROUNDWATER REMEDIATION PROJECT AT GM-38















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Esthetic Considerations

- Excavated soil used to construct berm
- Maintain as many existing trees as possible
- 100 new trees to be planted
- Building exterior to be a natural color
- Exterior building lights are motion activated

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- No audible exterior alarms
- Chain link fence with privacy screening

NA/FAC -

Operation, Maintenance and Monitoring Plan (cont'd)

- Components:
 - Regulatory requirements
 - Plant Safety
 - GWTP control and monitoring system
 - GW collection and treatment systems
 - Vapor and ancillary treatment systems
 - Preventative maintenance
 - Exit strategy based on GW modeling

NA/FAC

Milestones	Date
Project Planning	On-going
Mobilization & Start of Construction	Summer 2006
End of Construction	Summer 2007
Plant Start-Up and Shakedown	Summer - Fall 2007
Start of Operation & Maintenance	Fall 2007

