



DEPARTMENT OF THE NAVY

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

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NWIRP CALVERTON NY
5090.3a

IN REPLY REFER TO
5090
Code EV21/JLC

29 DEC 2004

MEMORANDUM

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

Enclosed are the meeting minutes from the Restoration Advisory Board (RAB) meeting that was held at the Peconic River Sportsman's Club on Thursday, November 4, 2004

The Navy requests that you review the meeting minutes and provide any comments that you may have to either myself or to the RAB Community Co-Chair, Mr. Bill Gunther. Based on your comments, the Navy will revise the minutes accordingly and hand out a final version at the next RAB meeting tentatively scheduled for April 7, 2005.

A tentative list of items that will be discussed during the upcoming November RAB meeting will include:

- Progress Update regarding construction activities at IR Site 7;
- Progress Update regarding the fieldwork efforts at Site 6A and the Southern Area.

If you wish to have issues added to the agenda for the next RAB meeting or to forward comments on the meeting minutes, please email me at james.colter@navy.mil or call me at (610) 595-0567, extension 163 no later than March 2, 2005.

Sincerely,

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

Enclosure: (1) Meeting Minutes from the 11-04-2004 RAB Meeting

Distribution:

NAVAIR, Joe Kaminski
NYSDEC (Albany), Larry Rosenmann
NYSDEC (Albany), Henry Wilkie
NYSDEC (Stony Brook), Stan Farkas
NYSDOH, Wendy Kuehner
SCDHS, Sy Robbins
USEPA Region II, Carol Stein
USEPA Region II, Carla Struble
Town of Riverhead, Andrea Lohneiss
V.T. Griffin, Al Taormina
Tetra Tech FW, Stavros Patselas
Community RAB Co-Chair, Bill Gunther
Community RAB Member, Sidney Bail
Community RAB Member, Art Binder
Community RAB Member, Louis Cork
Community RAB Member, John Hall
Community RAB Member, Harry Histan
Community RAB Member, Jean Mannhaupt
Community RAB Member, Randolph Manning
Community RAB Member, Ann Miloski
Community RAB Member, Vincent Racaniello

Non-RAB Member Mailing List:

Frank Anastasi (SCA Associates)
Tony Muratory
Bob Conklin



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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, November 3, 2004.

The Navy requests that you review the meeting minutes and provide any comments that you may have to either myself or to the RAB Community Co-Chair, Mr. Jim McBride. Based on any comments received, the Navy will revise the meeting minutes and hand out a final version at the next RAB meeting tentatively scheduled for April 6, 2005.

A tentative list of items that will be discussed during the next RAB meeting will include:

- Progress Update regarding the GM-38 Remedial Design;
- Progress Update regarding the AOC 22 Closed-Loop Bioremediation Pilot Study.

If you wish to have issues added to the agenda for the next RAB meeting or to forward comments on the meeting minutes, please email me at james.colter@navy.mil or call me at (610) 595-0567, extension 163 no later than March 2, 2005.

Sincerely,

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

Enclosure: (1) Meeting Minutes from the 11-03-2004 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
J.A. Jones, 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

**RESTORATION ADVISORY BOARD MEETING
NAVAL WEAPONS INDUSTRIAL RESERVE PLANT CALVERTON
PECONIC RIVER SPORTSMAN'S CLUB
MANORVILLE, NEW YORK
November 4, 2004**

The thirteenth meeting of the RAB began at approximately 7:00 pm. Meeting attendees included representatives from the Navy (Jim Colter), New York State Department of Environmental Conservation (NYSDEC) (Larry Rosemann), and Restoration Advisory Board (RAB) community members (Bill Gunther, Ann Miloski, Vincent Racaniello, Harry Histan, Lou Cork, and John Hall). The RAB's technical advisor from SCA Associates (Frank Anastasi) was also in attendance.

WELCOME AND AGENDA REVIEW

The Navy representative, Mr. Colter, Engineering Field Activity, Northeast (EFANE), welcomed everyone to the RAB and announced that he would be sitting in for Joe Kaminski as the DoD Co-Chair. Mr. Kaminski had other obligations that prevented him from attending. The topics on the agenda were then reviewed. The agenda for the meeting is included as (Attachment 1).

REVIEW AND APPROVAL OF MINUTES

Mr. Colter inquired if the RAB members received the minutes from the August 5, 2004 meeting, which were distributed in early September 2004. RAB members acknowledged the receipt of minutes. Mr. Colter explained the change in the format of the RAB meeting minutes. Since a stenographer is no longer being used to prepare the meeting minutes, the minutes will be presented in a summary format. The RAB's Community Co-Chair, Mr. Gunther, recommended approval of the minutes. His motion was seconded by Ms. Miloski and the motion for approval of the minutes was carried.

Mr. John Hall, representing the Peconic River Sportsman's Club, requested that all future RAB correspondence be sent to the Club's attorney, Mr. Tony Muratory. The Navy agreed to the request.

A new representative from the local community, Mr. Robert (Bob) Conklin would like to be on the mailing list. The Navy agreed to the request.

In addition, the RAB also requested that their Technical Assistance for Public Participation (TAPP) contractor, Mr. Frank Anastasi (SCA Associates) also be placed on the mailing list to receive minutes and other RAB correspondence. The Navy agreed to the request.

PROGRAM SCHEDULE

Mr. Colter provided an update on the NWIRP Calverton project budget (Attachment 2). Mr. Colter explained that approximately \$1.2 million was executed for the site in Fiscal Year 2004 (FY04). The bulk of the budget (\$979,709) was spent on the Remedial Investigation/Feasibility Study for Site 6A/Southern Area, Site 1 Groundwater monitoring, and Agricultural Outlease well abandonment projects. In addition, \$253,061 was expended to complete the Site 1 Landfill Excavation Project, and \$24,992 was spent on the Site 6 - TAPP.

Mr. Colter went on to explain the FY05 planned execution budget. The FY05 budget is estimated to be \$1.2 million. Of that budget, \$500,000 will be to fund cost overrun items associated with the construction of the pilot AS/SVE System at IR Site 7 and \$666,000 will be to support a soil removal action at IR Site 2, including removal of a concrete fire training ring and the underlying soil.

A RAB member inquired on the money spent to date. Mr. Colter stated that he does not have the total cost with him, but estimated that the total remediation cost to date was approximately \$20 million. (Upon review of the Navy's expenditures after the RAB meeting, the Navy has spent \$18,972,000 on Calverton's IR Program through Fiscal Year 2004.)

SITE 7 FUEL DEPOT AREA – REMEDIATION SYSTEM PROGRESS UPDATE

Mr. Stavros Patselas from Tetra Tech FW (formerly Foster Wheeler Environmental) provided a progress update for the remediation of the Site 7 - Fuel Depot Area. Mr. Patselas discussed the progress for the construction of the air sparging/soil vapor extraction (AS/SVE) system. Specifically, the piping is complete to the well heads and Tetra Tech FW is continuing to work on the system inside the building (Attachment 3). All equipment is onsite.

The AS/SVE is designed to force air into the groundwater. The off gas will have four vapor phase carbon units to treat the air prior to discharge. Only two carbon units will be used at a time. The current construction activities are focused on completing the system inside the building. Once complete, the system will be tested and then shut down until spring 2005. In the spring, ozone will also be injected to treat site contaminants.

Mr. Sy Robbins, representing the Suffolk County Department of Health Services (SCDHS), asked if there was any free product remaining on the water table. Mr. Patselas responded that there was not.

Mr. Robbins then asked about the site contaminants. Mr. Patselas responded that benzene, toluene, ethylbenzene, and xylene (BTEX) were the main contaminants of concern, with some scattered Freon detections as well.

Mr. Robbins asked if any enhanced bioremediation was planned. Mr. Patselas responded that there were no plans for using enhanced bioremediation other than the injection of ozone at 8 points to address the Freon.

Mr. Robbins asked how many wells make up the AS/SVE system. Mr. Patselas responded that 18 soil vapor extraction wells and 8 air sparging wells were installed. The system will be run for three months and after review of that data, additional SVE or AS points may be added.

Mr. Bill Gunther suggested providing pictures of the system for use at future RAB meetings. Mr. Patselas replied that he is working on a video presentation of the Site 7 construction activities and is planning to show it at a future RAB meeting.

One RAB member questioned what was meant by a fabric building. Mr. Stavros replied that the building is made of a polypropylene fabric manufactured by Sprung, Inc. with a heavy duty aluminum frame erected on the inside of the structure.

A RAB member asked what the ozone was to be used for. Mr. Patselas responded that it will be used to treat the Freon that has been detected but that it will also help to break down the BTEX to some extent. Since the ozone generator will be trailer-mounted, TtFW plans to move the generator to 6 BTEX locations to see how effective it is.

A RAB member asked if there will be an Operations and Maintenance (O&M) Manual developed. Mr. Colter responded that an O&M manual will be developed.

Mr. Gunther asked if the O&M manual would be sent to the regulators for review. Mr. Colter responded that it would.

Mr. Gunther then asked how long the system is expected to operate. Mr. Colter explained that the system is expected to run for approximately four years to treat the main chemicals of concern.

Mr. Robbins (SCDHS) asked if there was a plume of contamination. Mr. Patselas responded that there was a plume and that the AS/SVE treatment system is expected to operate very efficiently early on with regards to contaminant mass removal in the main source area and the system will get the BTEX concentrations in groundwater close to the drinking water standards, but based on experience, the treatment system may not completely achieve these standards. At that time and based upon discussions with NYSDEC, the treatment system would be shut down, and natural attenuation with monitoring of residual contaminants would be used to complete the remediation. Mr. Patselas goes on to say that at this time, the leading edge of the BTEX plume seems to be about 50 feet beyond the eastern edge of the Site 7 fence but is not migrating any further, possibly due to attenuation.

SITE 6 A/SOUTHERN AREA – FIELD INVESTIGATION PROGRESS UPDATE

Mr. Dave Brayack from Tetra Tech NUS, Inc. provided an update on the Site 6B/Southern Area (Fuel Calibration Area), which is included as Attachment 4. Mr. Brayack explained that the Work Plan has been issued and that the field work is under way. He reviewed the results to date, that included confirmation of the groundwater contamination at the Peconic River Sportsman's Club's Pistol Range at depth and the direction of the groundwater flow.

Specifically, contamination near the pistol range is at a depth of approximately 100 feet below ground surface in Boring 114, and 90 feet to 110 feet and possibly 150 feet below ground surface in Boring 115. Based on the findings in Boring 115, Boring 116 was installed to 190 feet below ground surface. Contamination was detected in Boring 116 at depths of 72 to 100 feet below ground surface, and low concentrations of similar chemicals were found at a depth of 150 feet below ground surface. These chemicals were not detected at 170 and 190 feet below ground surface. Piezometers were installed to 150 feet below ground surface in each boring and will be used to confirm the presence or absence of contamination at a depth of 150 feet below ground surface.

As expected, the groundwater in this area flows to the southeast. A primary concern with the offsite investigation is to protect the Peconic River. Field work is continuing in the offsite locations and is expected to continue for one to three months.

One RAB member questioned the drilling method. Mr. Brayack responded that a hollow stem auger with a hydro-punch type sampler is being used. Lithology is being recorded using geophysical logging and split-spoon samples are being used for confirmation.

Mr. Vinny Racaniello questioned the status of the monitoring wells to be installed in front of the plume. Mr. Brayack responded that piezometers will first be installed to determine the direction of groundwater flow and then other piezometers will be installed in the direction of groundwater flow. Installation of the piezometers is currently in progress.

Mr. Lou Cork asked about the rate of groundwater movement and where would the contamination be in 5 or 10 years. Mr. Brayack responded that the monitoring wells will be used to track the flow of contamination and that groundwater is moving roughly 100 feet per year.

Mr. Anastasi asked if there would be any development conducted for those piezometers that are planned to be converted into permanent monitoring wells. Mr. Brayack responded that there would be development of the 2-inch wells by pumping out a significant amount of water.

Mr. Robbins asked about the screen length for the vertical profile borings (VPBs). Mr. Brayack responded that a hydropunch is being driven in front of the auger drilling the VPB and that the hydropunch has a very minimal screen interval (1 to 2 feet). However, the piezometers that are being installed have a 10-foot screen interval.

Mr. Robbins then asked about the depths of the piezometers. Mr. Brayack responded that the piezometers near the river were being installed just a few feet below the water table.

Mr. Anastasi then asked about the geology of the area. Mr. Brayack responded that it mostly consists of sand and silty-sand with some occurrences of clay units. These clay units do not extend very far and are only roughly 1-foot thick. Mr. Anastasi added that he had looked at the boring logs and did not notice the existence of any major confining units.

Mr. Gunther asked whether the contaminated groundwater could flow under the river. Mr. Brayack responded that additional piezometers are being installed to address this question. The piezometers will be completed within the next three to four weeks.

One RAB member questioned whether there are private wells in the area. Mr. Brayack responded that private wells were researched in 1991 and none were found to exist to the north of the Peconic River. Mr. Robbins added that he would further investigate whether or not there are private wells on the north side of the Peconic River.

A local resident (Mr. Conklin) questioned whether there has been an impact to the river. Mr. Brayack indicated that an impact has not been detected. The volatile organic compounds (VOCs) tend to volatilize when exposed to the air and also that dilution will result in the disappearance of low levels of VOCs. Mr. Brayack added that additional surface water testing will be conducted. In addition, Sy Robbins (SCDHS) added that the county has been sampling the surface water near Connecticut Avenue and has not detected site related contaminants using a detection limit of 0.5 ppb.

Mr. Anastasi followed up by asking if the river had been tested in the past. Mr. Brayack indicated that the river has been tested and site contaminants have not been detected.

Mr. Larry Rosenmann (NYSDEC) asked what the Navy's plans were for the piezometers after the various rounds of groundwater sampling are complete. Dave Brayack responded that the piezometers would either be removed or converted into permanent monitoring wells.

Ms. Ann Miloski, community RAB member, asked if the Navy has been talking to Brookhaven National Labs (BNL) about the work that they are doing in the Peconic River. Mr. Robbins (SCDHS) answered that the contamination from BNL is not related to chlorinated solvents and that the contamination found downgradient of BNL is upgradient of the Navy's property. Mr. Anastasi (SCA Associates) added that BNL is doing sediment removal mainly to address a metal contamination issue.

Mr. Robbins (SCDHS) noted a detection of 292 ppb (VOCs) and asked a general question whether this could be "just the tip of the iceberg". He went on to say that the State Health Department will want some type of risk evaluation conducted. Mr. Colter commented that after the groundwater investigation is complete, then a Feasibility Study will be prepared to develop options for addressing the contamination.

One RAB member questioned whether there is sufficient funding for this project. Mr. Colter responded that there is funding for this work for this year. If more field work is needed, then funds from the feasibility study budget could be used.

SITE 1 NORTHERN POND DISPOSAL AREA – GROUDWATER RESULTS

Mr. Brayack explained that contaminated soil and waste have been hauled offsite and the landfill has been closed. Post-excavation groundwater monitoring is being done. Monitoring Well (MW)-1 is by the entrance, MW-2 and MW-3 have been removed, MW-4 was originally used to determine groundwater flow, and MW-5 and MW-6 were installed across the pond.

Samples were analyzed for VOCs, SVOCs, PCBs and pesticides, and organics. Results were discussed (Attachment 4). Metals were the only chemicals detected. It was noted that the metals are naturally

occurring and the detections relatively low. A second round of sampling is planned for December 2004. The Record of Decision (ROD) identified semi-annual sampling for two years (four sampling rounds). However, if results from the second round of sampling (December 2004) are same as the first round (June 2004), the Navy will petition NYSDEC to not conduct the groundwater sampling events for the second year and propose a No Further Action (NFA) ROD for groundwater to complete the site.

One member questioned if there will be a public comment period when the Navy issues the NFA ROD. Mr. Colter responded that there will be one, but during the last public comment period and meeting, there was low turnout.

A local resident (Mr. Conklin) wanted to know if an archeological survey was conducted by Foster Wheeler. Mr. Colter answered that an archeological report was conducted and submitted prior to the commencement of excavation activities. Mr. Colter went on to say that the results of that survey could be found in the Closeout Report for Site 1 that was prepared upon completion of the excavation and confirmation sampling activities and that this report could be found both on the website and also in the Riverhead Library. Mr. Robbins (SCDHS) questioned whether contamination was found in the wells that were removed. Mr. Brayack responded that during the Remedial Investigation, some low levels VOCs were detected in one of the wells. However, he went on to say that groundwater samples were collected in March 2002 by Foster Wheeler prior to the landfill excavation project and this testing did not find evidence of any contamination.

Mr. Robbins also asked whether a couple of shallow wells could be installed on the west side of the pond where the previous wells were removed. Mr. Brayack responded that the locations of the prior wells are currently under water, and that it would not be practical to re-install the wells. Mr. Colter pointed out that a comment like this should have been made during the review of the Sampling and Analysis Plan and prior to the commencement of the semi-annual sampling. Mr. Colter suggested that the SCDHS review the Results Report for Sampling Event No. 1 that is to be submitted in a few weeks and that this topic would be revisited at the next RAB meeting.

ENVIRONMENTAL INDICATOR REPORT

Mr. Rosenmann provided an update on the Environmental Indicators (EI) for the Calverton Facility. This program was implemented by Congress and addresses whether contamination is under control and if there are any potential human health impacts. The report looks at the current conditions (a snapshot) to make sure that contamination has appropriate controls in place to reduce the potential for harm to those who might be in the vicinity. A likely control that is widely used is the placement of fencing around contaminated sites. Mr. Rosenmann notes that the Navy does have fencing around all of the contaminated sites at Calverton. Mr. Rosenmann went on to say that the EI Report will not answer the question regarding the potential for past exposures nor will it predict the potential for any future exposures. Mr. Rosenmann also pointed out that for the potential issue of vapor intrusion, the USEPA actually funded the fieldwork to collect the data that was necessary to make the determination and found that vapor intrusion is not a concern at Calverton. The Environmental Indicator Report is included as Attachment 5.

Mr. Gunther applauded the NYSDEC's efforts to take a step back and look at the "big picture".

Mr. Colter asked if this was a NYSDEC or an Environmental Protection Agency (EPA) report. Mr. Rosenmann responded that the report is prepared by NYSDEC and submitted to EPA to answer a data call. It is actually EPA's mandate to address this issue for all of its Superfund and RCRA sites.

Mr. Gunther asked if this report was going to be revisited at some point. Mr. Rosenmann responded that the report will only be revisited as new data becomes available or as RODs are submitted.

The approved reports will also be posted on the EPA website (Mr. Rosenmann handed out the address for the EPA's website).

Mr. Anastasi added that the website shows general information regarding a site and that E1 is a tab within that webpage.

CLOSING REMARKS

Mr. Colter informed the RAB members that the Calverton website has been updated to include a "Post ROD Documents" tab in addition to the Pre-ROD Administrative Record and that final Post-ROD documents for Site 1 and Site 7 will be added by mid-December.

The next RAB meeting is scheduled for April 7, 2005. Note there is no meeting scheduled for February.

Mr. Gunther asked each of the RAB members, in turn, if they had any comments or concerns that they would like to bring to the attention of the group:

- Ms. Ann Miloski – Wants to ensure that there are no adverse impacts to the Gun Club. Larry Rosenmann (NYSDEC) responds that there are no pathways for exposure and there are no indoor air impacts.
- Ms. Sid Bail – Wanted to thank the Gun Club for their hospitality. Mr. John Hall again offered that the Club could host the next RAB meeting. There were no objections.
- Mr. Lou Cork – No Concerns.
- Mr. Frank Anastasi – Stated that the extent of the Navy's fieldwork efforts are addressing all of his comments that he made regarding the work plan and that the final work plan incorporated all of his comments that he made on the Draft. He feels that the Navy is making good progress despite the slow start.
- Mr. Vinny Racaniello – No Concerns.
- Mr. Harry Hestand – No Concerns.
- Mr. Bill Gunther – Asked if the Navy could send out an interim data report regarding the Site 6a/Southern Area fieldwork to himself and Frank Anastasi prior to the next meeting. The Navy agreed.

The meeting was adjourned at approximately 9 p.m..

Action Items:

1. Distribute the data results from Site 1 and revisit the Site 1 monitoring well topic at next meeting.
2. Mr. Colter will add Mr. Tony Muratore (Attorney for Sportsman's Club) to the distribution list.
3. Add Mr. Conklin to RAB mailing list.
4. Submit Interim Data Report to Mr. Bill Gunther and Mr. Frank Anastasi.
5. Forward agenda items to Mr. Bill Gunther.