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RESTORATION ADVISORY BOARD (RAB) MEETING
NAVAL WEAPONS INDUSTRIAL RESERVE PLANT CALVERTON
RIVERHEAD MASONIC LODGE, RIVERHEAD, NEW YORK
October 24, 2000

The seventh meeting of the RAB began at 7:15 pm and ended at 9:20 pm. RAB members attending were: community members Sid Bail, Lorraine Collins, Bill Gunther, Sherry Johnson, Ann Miloski, John Pedneault, Vincent Racaniello, and Warren Voegelin; Andrea Lohneiss representing the Town of Riverhead; Martin Simonson representing DCMC; and Judith Hare, Joe Kaminski, and Jim Colter from the Navy. Members absent included community members Henry Bookout, Louis Cork, Herb Golden, Jean Mannhaupt, Randolph Manning, Joe Pannone, Bob Pohlman, and Vanie Tuthill; and representatives from New York State Department of Environmental Conservation (NYSDEC), New York State Department of Health (NYSDOH), Suffolk County Department of Health Services (SCDHS), the Nature Conservancy, and U.S. EPA Region II.

There were also several of people attending from the local community.

WELCOME AND AGENDA REVIEW

Ms. Judith Hare, the Navy Co-chair, welcomed everyone and introduced a guest to the RAB meeting, Mr. Conrad Mayer, Director of the Environmental Department of Northern Division's Naval Facility Engineering Command. Ms. Hare reviewed the agenda indicating that the status of activities at NWIRP Calverton would be provided before the presentation on Sites 1, 6, and 7.

Ms. Sherry Johnson, the Community Co-chair, provided an update on the meetings of the Steering Committee that were held in May and in August. The Steering Committee expressed concern about the southern plume of groundwater. Steering Committee member, Ms. Jean Mannhaupt prepared proposal for receiving the Technical Assistance for Public Participation (TAPP) grant and she would like the proposal at a RAB meeting. Ms. Mannhaupt was not able to attend the RAB meeting and the item will be considered as an agenda item for the next RAB.

REVIEW AND APPROVAL OF MINUTES

The stenographer transcripts from the February 16, 2000 RAB meeting were paraphrased and summarized into meeting minutes. The minutes were mailed out to all the RAB members for review. No comments were made on the February 16, 2000 RAB meeting minutes and the minutes were approved as written.

UPDATE ON STATUS OF ACTIVITIES AT NWIRP CALVERTON

Mr. Jim Colter provided an update on the status of environmental activities at NWIRP Calverton.

Site 1 – Northeast Pond Disposal Area: In February 2000, the Navy submitted a plan for interim action at Site 1 to address the sink holes and erosion at Site 1. The plan includes providing a soil cover and bank stabilization. The Navy would like to move forward with the soil cover provided in the February 2000 plan. However, the NYSDEC expressed concern with the Navy's plan for bank stabilization because of impacts to the adjacent wetlands. The Navy identified an alternative option that the NYSDEC considered more appropriate, and the Navy submitted a draft bank stabilization action memorandum in October 2000. A technical meeting is scheduled for November 8, 2000 in Stoney Brook, NY, to discuss the action memorandum.

The action memorandum provides for cutting at an angel into toe of the landfill to give the landfill a flatter slope (3 to 1) and revegetating the site. The Navy expects to cut back about 40 to 60 feet into the landfill and the excavated material would either be disposed off site or put on top of the landfill before revegetating. The NYSDEC indicated to the Navy that the excavated material could be placed on top of the landfill because the site would be capped eventually.

The site would not be developed for future use, but would be kept as a natural area. The cap is currently budgeted for 2004. A RAB member expressed concern about not

capping now because rainfall can still infiltrate into the fill material and possibly carry contaminants from the fill material to groundwater. Mr. Colter indicated that the excavated material would not be left exposed and there would be a soil cover. The soil cover would be interim to the cap as part of the final remedy. Snapshot groundwater monitoring would be conducted as part of the interim action, whereas regular, structured monitoring would be conducted as part of the final remedy.

As part of the bank stabilization, the Navy planned to excavate contaminated sediment and put the excavated sediment on top of the landfill, under the soil cover, rather than conducted further study to determine whether the sediment could be left in place. In answer to a RAB member question about concerns for putting the excavated sediment on top of the landfill, Mr. Colter indicated that the sediment was considered non-hazardous for human health and was not an ecological risk if placed on top of the landfill. NYSDEC comments on the October 2000 action memorandum were not available as of the RAB Meeting and the Navy had not yet discussed the memorandum with the NYSDEC. The draft action memorandum will be discussed in the November 2000 technical meeting.

Site 2 – Fire Training Area. The Navy presented the Site 2 presentation (using the GIS and software referred to as Environmental Visualization System [EVS]) at the February 2000 RAB. The air sparge system at Site 2 was turned on in May and ran through the summer and fall. The system will be shut down for the winter. The free product removal system for Site 2, which uses pillows to soak up the free product, was initiated in the summer 2000 and 18 pillows with free product were collected. The pillows were sent to a laboratory to quantify the amount of free product collected by the pillows. The laboratory will provide a report and the Navy will evaluate the results to determine the effectiveness of the recovery system.

Site 9 – Electronic Counter Measures (ECM) Area. Several years ago an onsite investigation was conducted at Site 9 and low levels of volatile organic compounds (VOCs) (approximately 35 parts per billion [ppb]) were detected at the site and offsite. The Navy attempted to conduct an offsite investigation at that time, but the Navy was not able to obtain access from the property owner. The property was recently sold to a new owner, the new property owner gave the Navy access to the property, and the Navy

conducted the offsite investigation in the summer 2000. Eleven wells were installed as part of the investigation and VOCs were not detected. A draft report of the investigation will be submitted to the regulators around December 2000. Suffolk County had seven water table monitoring wells in the offsite in the vicinity of Site 9. One well that had elevated VOC concentrations was covered over by the sand mining operations conducted offsite of Site 9 and could not be located. The Navy tried to place new monitoring wells in the general vicinity.

Site 7 – Fuel Depot. Field work was conducted at Site 7 in the summer 2000. Dave Brayack will present the preliminary results of the summer investigation. They Navy is planning to discuss how the data will be evaluated with the NYSDEC at the next technical meeting.

Site 6 – Fuel Calibration Area. The work plan for field work to fill data gaps for Site 6 was presented at the February 2000 RAB meeting and the field work was conducted in June 2000. Dave Brayack will present the preliminary results of the investigation. The data of the investigation will be incorporated into the upcoming report for Site 6 and the data will be discussed at the next technical meeting to make sure that there are no remaining data gaps.

PRESENTATION ON SITES 1, 6, and 7

Mr. Colter discussed the recent work for Site 1 as part of the status discussion. As with the previous RAB presentations, Grumman developed presentations using the GIS and EVS software to present the data for Sites 6 and 7. Various maps were generated using the EVS and were submitted to the RAB. Dave Brayack from Tetra Tech NUS, Inc. discussed the presentation figures for Sites 6 and 7.

Mr. Brayack began with Site 7, reviewing the site history. All the underground storage tanks at the site and visibly contaminated soil have been removed. Floating free product was found at the site and the Navy implemented a free product recovery system. Benzene, Toluene, Ethylbenzene, and Xylene (BTEX) in the groundwater is the

main contamination of concern at the site. The Navy is currently preparing a Corrective Measure Study (CMS) for Site 7 and will submit the draft CMS in December 2000.

Mr. Brayack discussed the results of the summer 2000 investigation at Site 7. Benzene was detected infrequently. Toluene concentrations in the vicinity of the former storage tanks is around 500 ppb (shown as a red area on the EVS figure). Ethylbenzene concentrations are shown as a series of yellow areas (50 to 500 ppb). Xylene concentrations, which has the greatest molecular weight and is the least soluble in water, define the largest area of groundwater contamination at the site and therefore, the xylene plume would be used to define the contamination plume at Site 7. The depth of the plume is about 35 feet below ground surface (bgs). Mr. Brayack also pointed out the Freon detections (detected at approximately 10 ppb). These detections were isolated and did not indicate a Freon plume. However, Freon would be considered during identification and evaluation of remedial alternatives.

One of the remedial alternatives that is being considered for Site 7 is air sparging to strip the chemicals from the soil and groundwater and enhance biodegradation. Monitored natural attenuation (MNA) is also being considered. In addition, enhanced biodegradation is being considered. The CMS will look at the different possible remedial options. The Navy is also preparing a technical memorandum to evaluate the potential efficiency of MNA. The Navy is evaluating MNA as a point of comparison against the other active remediation options. Depending on site conditions, MNA can be more effective than a pump and treat remedy. The Navy hopes that the evaluation of MNA for Site 7 can be used as a model for Sites 2 and 6, which will speed up the evaluation of remedial options for these two sites.

The schedule for Site 7 indicates that the Record of Decision (ROD) is scheduled for June 2001 and the remedial design will begin subsequent to signature of the ROD. The completion of the design is schedule for sometime in 2002.

In answer to a question of whether the Navy evaluated other chemicals besides just BTEX for the site, Mr. Brayack explained that samples were analyzed for the other chemicals too, BTEX were the major contaminants of concern found in groundwater. Diesel was storage at the site and not leaded gasoline, therefore, lead at the site was

not a concern. Also, a RAB member asked how diesel range and gasoline range organics (DRO and GRO) would be addressed by a remedy. The NYSDEC only requires that free product to be addressed and does not have any specific standards for DRO or GRO.

Mr. Brayack discussed the results of the recent field investigation at Site 6 and explained about the drainage and site history. Three VOCs were identified as the major chemicals of concern for the site: 1,1,1-trichloroethane (TCA), detected in groundwater in the source area (in the fuel calibration area); 1,1-dichloroethane (DCA), an anaerobic degradation product of TCA, and 1,1-dichloroethene (DCE), a less common breakdown product of TCA. The presentation focused on the groundwater plumes for these three chemicals.

In the source area, deep contamination (approximately 160 to 180 feet below mean sea level) was identified. There were sporadic detections at the fenceline and some detections near the Peconic River. There was a concern whether contamination will flow under the Peconic River or flow into the Peconic River. A piezometer study of groundwater indicated that the groundwater was flowing into the Peconic River.

In answer to a question of whether there was a potential for dense non-aqueous phase layer (DNAPL) in the groundwater, Mr. Brayack indicated that the concentrations of chemicals detected were not high enough to form a DNAPL. A RAB member also questioned why TCA was not moving at depth in the groundwater. Mr. Brayack explained that the shallow groundwater was flowing much faster than the deeper groundwater.

The Navy is planning to begin evaluating remedies for Site 6 (as part of the CMS) and a monitoring program would be included as part of the remedy. Prior to the CMS, the Navy will prepare a RCRA Facility Investigation for Site 6, which will incorporate the results of the recent investigation at Site 6.

A question was asked about funding for the environmental activities at NWIRP Calverton. The Navy pays because the Navy is the property owner. Northrop Grumman participated in some of the cleanup of the property. For the remainder of the facility

cleanup, the Navy is not currently planning to seek reimbursement from Northrop Grumman; however, if the Navy determines at some point in time that it needs to seek reimbursement the Navy can do this at that time.

ACTION ITEM REVIEW AND DATES AND DISCUSSION TOPICS FOR FUTURE MEETINGS

Mr. Colter discussed the chronology of events and handed out schedules for each site. Mr. Colter indicated that the schedule for FY2001 shows activities that the Navy believes that it can complete in the upcoming year. The schedule for subsequent years are projected activities and that the schedule will need to be evaluated every year to determine whether the schedule needs to be revised.

New action items are identified in the attached table. Ms. Johnson requested to add the Community RAB's presentation of the TAPP proposal to the agenda for the next RAB meeting. Mr. Colter requested the Community RAB to submit the proposal before the next RAB so that the Navy could evaluate the proposal. No other agenda items were identified. Ms. Hare requested that if anyone had any agenda items for the next meeting that they contact Mr. Colter or Ms. Cohen at least 30 days before the next RAB.

John Pedneault questioned that the Navy only seems to have accounted for a small portion of the contaminants. Mr. Pedneault indicated that because TCA is volatile and will be in the interstitial space of the soil, it would not really be dissolved in the groundwater. So it seems that much of the TCA is unaccounted for. Ms. Hare indicated that if Mr. Pedneault was referring to the chemicals used in the operational areas, the chemicals used in these areas has been addressed. A complete investigation of the operational areas was conducted before the property could be deeded over to the Town of Riverhead. It was also indicated that Northrop Grumman has been very responsible in their operations as well as in their participation in the cleanup of the facility.

CLOSING REMARKS

All were thanked for participating in the meeting.

POSTSCRIPT NOTE

Stenographer's transcripts are prepared for RAB meetings to assist the Navy in preparation of meeting minutes. The transcripts are available in the NWIRP Calverton Information Repository at the Riverhead Free Library. To assist the stenographer, RAB members and other attendees at the meeting are requested to speak one at a time for the stenographer to accurately transcribe the meeting discussions. Any participant at the RAB meeting who would like to have their commented formerly documented for the record is requested to state their name prior to speaking.

ACTION ITEMS

Action Item	Person(s) Responsible	Tentative Due Date	Status
Community RAB presentation of TAPP proposal	Community RAB members	Add as agenda item for next RAB	
Thank-you note to Warren Voeglin	Navy		
Send RAB Workbooks to John Peneault and Vincent Racaniello	Judy Lamey		
Update RAB Member List and Mailing Lists	Judy Lamey		

ATTACHMENTS

Agenda

Agenda

Restoration Advisory Board
Naval Weapons Industrial Reserve Plant Calverton

October 24, 2000
Riverhead Masonic Lodge, Riverhead, NY
7:00 p.m.

Welcome and Agenda Review
Judithanne Hare
Naval Air Systems Command

Review and Approval of Minutes
All Members

Membership and Steering Committee Update
Sherry Johnson
Community Co-chair

Presentation and Discussion on Recent Submittals for Site 1, Site 7, and Site 6
Dave Brayack
Tetra Tech NUS, Inc.

Update on Activities at NWIRP Calverton (Including Site 9)
Jim Colter
Naval Facilities Engineering Command – Northern Division

Action Item Review and Dates and Discussion Topics for Future Meetings
All Members

3 MONTHS IS
JANUARY 2001
(LATE)

Closing Remarks
Judithanne Hare
Naval Air Systems Command

Presenters will be available after the program for questions.