

**Minutes of Meeting
Restoration Advisory Board Meeting #7
October 23, 1996**

**Naval Industrial Reserve Ordnance Plant
Fridley, Minnesota**

Restoration Advisory Board (RAB) meeting #7 was held at the Naval Industrial Reserve Ordnance Plant, Fridley, Minnesota, on Wednesday, October 23, 1996 at 10:00 a.m. A copy of the agenda distributed at the meeting and the attendance sheet are attached (attachment 1 and 2, respectively).

A. Introduction

1. Mr. Kerry Morrow and RAB co-chair Mr. John Flora opened the meeting at 10:00 a.m. Kerry Morrow asked attendees to sign in and provide their electronic mail address so that meeting minutes can be distributed by electronic mail in the future. All meeting participants introduced themselves.

B. Minutes of RAB #6

1. There were no comments on the minutes for RAB meeting #6 held on July 24, 1996.

C. Actions Since Last Meeting

1. The Navy stated that regulatory comments were received on the OU #3 Draft Work Plan and a meeting was held with the regulators on October 22, 1996 to address the comments. The Navy stated that they are proceeding with responding to comments in order to deliver the Draft Final Work Plan.

2. United Defense reported that they had received a draft letter from the State dated October 18, 1996 containing modifications to the facility Resource Conservation and Recovery Act (RCRA) Hazardous Waste Facility Permit requiring investigation and remediation of Solid Waste Management Units (SWMUs) and Areas of Concern (AOCs). United Defense explained the permit modification essentially would pull the Navy's OU #3 work and United Defense into RCRA. The letter asks for a response in 15 days. United Defense stated that they had some concerns with addressing the OU #3 work under RCRA and that they will further discuss this issue with the State and Navy following the RAB meeting. United Defense, with the Navy, also stated that they will request an extension of the 15 day period.

The State provided background on the issue. The State explained that a small portion at the southern end of the main industrial plant building is owned by United Defense. The State wants the area beneath this United Defense portion investigated, and the State believes that the Federal Facility Agreement (FFA) between the State, Navy and EPA covers this work. The Navy disagrees. The State has set aside this disagreement and is asking for the work to be done by the Navy and United Defense under the facility RCRA permit where they are listed as co-permittees.

3. The Navy stated that a seismic imaging survey was completed at the facility to assist with determining the geology beneath the site. A survey line was run to the west of the plant, parallel to East River Road. Results confirmed what was suspected about the geology in this area. It was also determined that the technology will not work beneath the building. More recently, two additional survey lines were run: one north of the plant and another south of the plant. The final results from these two runs are expected within a couple months. The Navy explained that results of these surveys conducted west, south and north of the plant are

expected to assist in gaining a better understanding of the geological conditions under the building, particularly with respect to the suspected discontinuity of the clay layer, when analyzed in conjunction with soil borings proposed as part of the OU #3 Remedial Investigation (RI). The Navy will decide if any additional seismic imaging will be completed after reviewing final results. No survey line is planned to the east of the building because of interference from train noise and the fact that data needs in that area are not as high a priority.

4. The Navy introduced Joel Murphy. Mr. Murphy has replaced David Cabiness as the Navy's Remedial Project Manager (RPM) for final design and construction of the OU #1 treatment plant.

5. The Navy stated that they are considering the benefit that an investigation of the Mississippi River sediments might have following a suggestion made by Dr. Frank Chapelle of the United States Geologic Survey (USGS) approximately one month ago. The investigation would gather information on the sediments ability to degrade trichloroethene (TCE) and estimate contaminant loading to the River. This work, if pursued, would not be initiated any earlier than fiscal year 1998.

Mr. John Flora indicated that Minneapolis is considering the construction of a causeway above their water intake. The State gave the Navy a contact for the Navy to get more information on the causeway.

6. The Navy stated that a backflow preventor located in the groundwater pumping system had not closed properly following a scheduled power shut-down. This resulted in the discharge of groundwater with TCE concentrations of less than 5 parts per billion (ppb) to the ground surface. Mr. Tim Ruda estimated that 50 gallons per minute (gpm) for 16 hours was discharged.

7. The Navy stated that they would proceed with design of the OU #1 groundwater treatment plant as soon as they receive a letter from the EPA and MPCA indicating that containment of the groundwater plume has been satisfactorily achieved. The EPA stated that the letter would be issued October 24, 1996. The Navy stated that the goal is to have the plant designed and under construction by September of 1997 with construction taking approximately 60 days.

Mr. Richard Harris asked if horizontal and vertical containment of the groundwater plume had been achieved. He wanted reassurance that his drinking water was safe to drink. The EPA stated that his drinking water was safe to drink and that the plume was contained to the best of our knowledge.

8. The Navy explained that OU #2 is now a subset of OU #3 so that remediation of soils can be looked at collectively. The Navy stated that the North 40 drum removal project is the last piece of OU #2 work and that a draft report has been prepared. The Navy reported that several crushed drum carcasses and one drum containing a volatile type liquid were removed. Soil samples were collecting from each excavation and no further barrel removal work is proposed. A draft final report will be delivered following review/revision of the draft report. The results will be included in the OU #3 RI Report.

9. Mr. Tim Ruda, United Defense, provided a status of operations and maintenance for the groundwater extraction system. Operation and maintenance actions for the groundwater extraction system are summarized on the attached handout (attachment 3).

The State asked what natural attenuation parameters were being analyzed for, how many rounds of sampling will be performed, what type of analytical methods are being used, and who is doing sampling and analyses. Mr. Ruda will provide the State with a list of the natural attenuation parameters that are being analyzed for. The results are expected in three weeks.

The Navy will discuss the results with Dr. Frank Chapelle and determine if additional sampling should be conducted.

10. The EPA stated that they are waiting for Mr. Burns to provide supporting documents for preparation of the land use determination letter. After receiving the documents, the EPA will prepare the letter and have Mr. Burns review it. Based on the information the EPA has received to date, the EPA is planning on stating that the reasonable future land use is industrial.

11. The EPA stated that the letter on groundwater containment would be prepared October 23, 1996. The Navy requested that the letter lay out all the pertinent issues, resolves any differences between the EPA and State perspectives and is signed by both the EPA and State. Mr. Richard Harris requested that the letter be made available to the RAB.

D. Community Relations Plan Update

1. The Draft Community Relations Plan was issued on October 1, 1996. The Navy provided some minor comments which will be addressed with RMT, Inc. Another issue is language regarding removal of RAB members. The State disagrees with the language. The Navy is willing to work with the State to resolve this issue. The Navy does not want to hold the Plan up for resolution of this issue. The Navy would like to release the Plan and then issue an addendum later which addresses the issue of removing RAB members.

E. Actions Scheduled/Due Dates

1. The OU #3 Draft Final Work Plan is due November 8, 1996. However, there were over 150 regulatory comments which need addressed and action must be taken on several items before changes can be made. Therefore, the Navy will request an extension after preparing a schedule for completion of the action items that were just identified during the meeting held yesterday (October 22, 1996). The Navy will issue the extension request letter in the next couple weeks.

F. Other Issues/Comments

1. Mr. Harris and Mr. Flora reiterated concerns regarding the bedrock aquifer. Mr. Harris asked what effect the groundwater recovery system is having on recharge to the aquifer. The State stated that there is not much of an impact. The State also said that Anoka County would be completing a hydrogeologic study in the near future. Mr. Flora stated that he is still concerned about contamination of the bedrock aquifer.

2. The Navy stated that the Settlement Agreement language is being reviewed by upper management.

3. The Navy stated that formal partnering has been agreed to by the Navy, EPA and State. Partnering training is to occur November 19-21, 1996 in Chicago. The Navy explained that partnering was essentially facilitated discussions to reach a consensus (e.g., a way of working as a team and increasing efficiency).

4. The RAB co-chair (Mr. Morrow) stated that there has not been much community involvement in the RAB (Mr. Harris is the only community member that attends) and asked if the RAB was working. Mr. Harris stated that there is interest in his local community and he is their representative on the RAB. The State suggested that the Navy attend a Twin Cities Army Ammunition Plant (TCAAP) RAB to see how they involve the community (the TCAAP RAB reviews project documents and provides comments). The State believes the Navy has made a good faith effort but suggests talking with TCAAP representatives for other ideas. The EPA stated that the RAB should be continued. The State also suggested that Mr. Harris be given a

copy of the Federal Register Publication on how RABs operate so that Mr. Harris can review and comment.

**NAVAL INDUSTRIAL RESERVE ORDNANCE PLANT FRIDLEY
RESTORATION ADVISORY BOARD MEETING #7
OCTOBER 23, 1996, 10:00 A.M.
AGENDA**

1. INTRODUCTION
a. New RPM Assignment (Mr. Joel Murphy)

2. Corrections to Minutes of RAB #6

3. Actions Since Last Meeting

NAVY

Operable Unit #1 - Groundwater

- Status of Plans to Investigate Mississippi River Sediments
- Status on Design of New Treatment Facility
- Pump House Release on September 8, 1996, and changes to prevent recurrence

Operable Unit #2 - Soils Outside Plant

- North 40 Drum Removal
- Status of Final Report for North 40 Drum Removal and Recommendations

Operable Unit #3 - Soils Under NIROP Plant

- Status of Remedial Investigation Workplan Approval
- RCRA RI of UDLP Portion of Facility
- Status of Seismic Imaging Survey
- Status of Future Seismic Imaging Surveys

UNITED DEFENSE

- Maintenance and Monitoring Activities

EPA

- Letter on Ground Water Containment
- Land Use Determination Letter

4. Community Relations Plan Update

- a. CRP Revision Status
- b. RAB Charter, Mission Statement and Rules of Operation
- c. Federal Register Publication of RAB Proposed Rule

5. Actions Scheduled/Due Dates

- a. OU#3: Provide Response to Agency Comments on Draft RI Workplan
- b. Design of Permanent Groundwater Treatment Plant

6. Other Issues/Comments

- a. Settlement Agreement
- b. Formal Partnering
 - Role of the RAB
- c. RAB . . .
 - Is it Working?
 - If Not, What Will it Take to Make it Work?

RESTORATION ADVISORY BOARD MEETING #7

OCTOBER 23, 1996

NAVAL INDUSTRIAL RESERVE ORDNANCE PLANT, FRIDLEY

LIST OF ATTENDEES

NAME	ORGANIZATION	EMAIL ADDRESS	SIGN-IN
TOM BLOOM	USEPA REGION 5		<u>Thomas Bloom</u>
JOHN FLORA	CITY OF FRIDLEY		<u>[Signature]</u>
ROBERT HUTCHINSON	COUNTY OF ANOKA		<u>[Signature]</u>
EVAN DRIVAS	DNR		<u>[Signature]</u>
JOHN BETCHER	MPCA		<u>[Signature]</u>
DAVE DOUGLAS	MPCA		<u>David Douglas</u> <small>mn.us david.douglas@ra.n</small>
GARY EDDY	MPCA		<u>[Signature]</u>
FRED JENNESS	MPCA		<u>Frederick.Jenness@PCA.MN.US</u>
MARK FERREY	MPCA		<u>Mark Ferrey</u>
PAUL ESTUESTA	MPCA		<u>Paul Estesta</u>
MICHEAL FLAHERTY	MCWS		<u>Michael V. Flaherty</u>
ADAM KRAMER	MINNEAPOLIS WATER WKS		<u>Larry Cole</u>
SCOTT GLASS	SOUTHNAVFACENGCOM		<u>Scott Glass</u> <small>sglass@efdsouth.navy.mil</small>
JOEL MURPHY DAVE CABINISS	SOUTHNAVFACENGCOM		<u>[Signature]</u>
RICHARD HARRIS	FRIDLEY RESIDENT		<u>Richard H. Harris</u>
NORWOOD NELSON	AREA CHAMBER		<u>[Signature]</u>
KERRY MORROW	NAVSEA		<u>Kerry Morrow</u> <small>pmorrow@navsea.navy.mil</small>
PAT MOSITES	REICC MNPLS		<u>Pat Mosites</u>
Jim Ferro	SOUTHNAVFACENGCOM		<u>James R. Ferro</u> <small>J.R.Ferro@EFDSOUTH.NAVY.MIL</small>
Gregg Herrick	Area Chamber		<u>Gregg Herrick</u>
Andrew Eross	FM C (PHILADELPHIA)		<u>[Signature]</u>
Lonnie Norman	Fm c PHL		<u>[Signature]</u>

DOUGLAS HILDRE

UNITED DEFENSE

Augustine

TIM RUDA

UNITED DEFENSE

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BROWN & ROOT ENVIRONMENTAL

Mark T. Perry

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LAW DEPT FMC CORPORATION, PHILA, PA

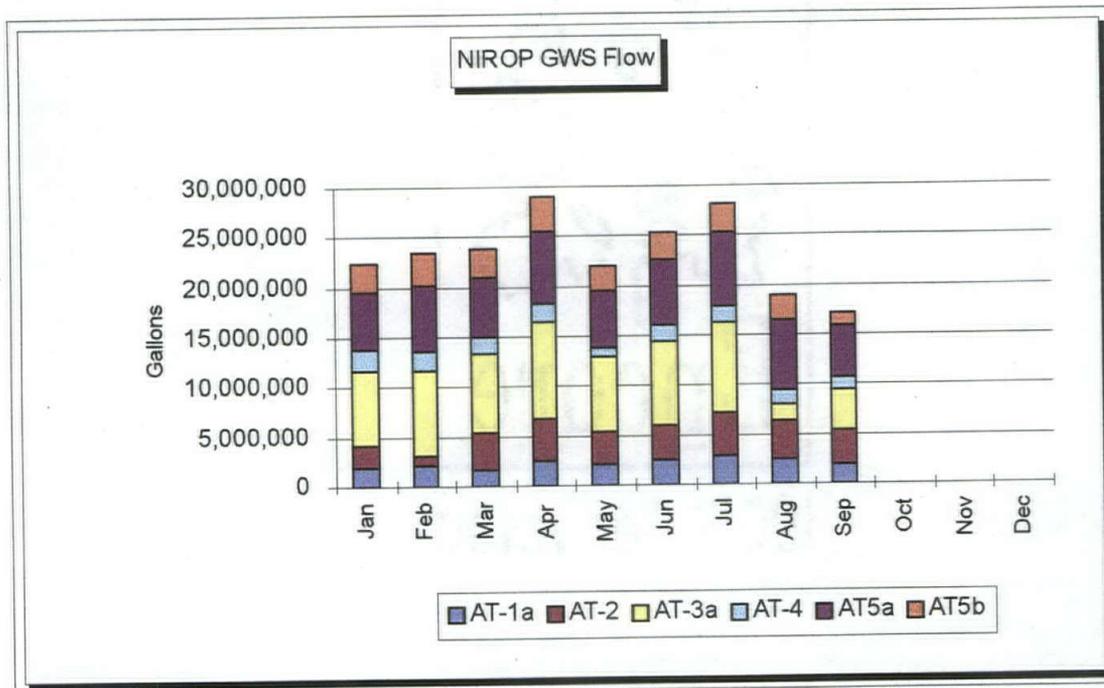
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NIROP Maintenance Activities 24 July to 23 October 1996.



- Well pump failure in AT3a discover 9 August.
- Video investigation showed damaged screen 15 August
- Well AT3A well screen cleaned, well bailed out, screen repair attempt 9/4- unsuccessful
- Well Screen repair with packer. Well returned to operation, new wet end installed 9/10 - 197 gpm
- Well AT4 shut down 10/4 for maintenance, cleaning and retrofit of stainless fitting
- Well AT5B pump failure 10/10. Video inspection conducted-no screen damage. The well requires cleaning and piping changes. AT5a well shut down until pipe can be changed
- Monitoring wells sampling was conducted 9 October to 14 October (including natural attenuation parameters).
- Groundwater removed 1996 3rd qtr. 64 million gallons (yr. total 209 mg).

Extraction Well flowrates:

<u>AT1a</u>	<u>AT2</u>	<u>AT3A</u>	<u>AT4</u>	<u>AT5A</u>	<u>AT5B</u>
47 to 69	86 to 105	193	17 to 41	139 to 164	19 to 63

Total flowrate approximately 452 to 614 gpm

Planned Activities

- October 24 All wells to resume operation
- Water level readings 30 October
- Extraction well and combined discharge monitoring 30 October.