



**DEPARTMENT OF THE NAVY**

INDIAN HEAD DIVISION  
NAVAL SURFACE WARFARE CENTER  
101 STRAUSS AVE  
INDIAN HEAD MD 20640-5035

5090  
Ser 046C/42  
5 Mar 97

Mr. Elmer Biles  
6315 Indian Head Highway  
Indian Head, MD 20640

Dear Mr. Biles:

We are forwarding the minutes from the Installation Restoration (IR) Program Restoration Advisory Board (RAB) meeting that was held on Thursday, February 20, 1997, enclosure (1).

During the discussion on IR Site 56, there was some confusion as to the final cost of the Removal Action at this site. The total cost was \$768,000. This cost is reflected in the meeting minutes.

Since the RAB meeting, Mr. Shawn Jorgensen of my staff met with Ms. Donna Lynch of the Maryland Department of the Environment, Mr. Dennis Orenshaw of the EPA, and Mr. Rob Sadorra of the Engineering Field Activity Chesapeake to discuss site priorities for sites in the Remedial Investigation (RI) Work Plan. The resulting priorities for site sampling are shown in enclosure (2). The order of the sites do not differ significantly from the table presented at the RAB meeting. You will note that IR Site 56 has moved to the bottom of the list since the Removal Action at this site has been completed. The remaining stream and the pond that receives effluent from IR Site 56 will be addressed as an "operable unit," a separate site, in the future.

The group also looked over all of the IR sites identified by the Navy since 1983 and those identified by the EPA as Solid Waste Management Units (SWMUs) in 1988 to determine if any of the sites not recommended for further study at that time may need reevaluation. The group agreed that sampling should be performed in the near future at six sites. These sites are listed in enclosure (3). The group would like to get these sites sampled during the upcoming RI, if possible, since these sites have a greater potential of being high priority sites. Mr. Sadorra will check on the feasibility of getting that work done this year.

Finally, a copy of the agenda for the next RAB meeting, which is scheduled for June 19, 1997, has been included for your information, enclosure (4).

5090  
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For those community members on the RAB, please sign the return postcard, enclosure (5), which states that you received this letter, and drop it in the mail.

If you have any comments or questions, you may contact Mr. Shawn Jorgensen on (301) 743-6745/6746. In addition, you may FAX your comments/questions to (301) 743-4180 or submit them in writing to the address above, attention Code 046.

Sincerely,



SUSAN P. ADAMS  
Head, Safety Department  
By direction of the Commander

Encl:

- (1) Minutes from RAB Meeting  
of 20 Feb 97
- (2) Priorities for Sampling Sites  
in the RI Work Plan
- (3) Reevaluated Sites Requiring  
Sampling
- (4) Tentative Agenda for RAB  
Meeting of 19 Jun 97
- (5) Return Postcard

Copy to:

RAB Members  
EFACHES (Code 181)

# INSTALLATION RESTORATION PROGRAM



INDIAN HEAD DIVISION,  
NAVAL SURFACE WARFARE CENTER  
101 STRAUSS AVENUE  
INDIAN HEAD, MARYLAND  
20640-5035



## RESTORATION ADVISORY BOARD (RAB) MEETING

Date of Meeting: February 20, 1997

### Restoration Advisory Board (RAB) Member Participants:

Capt. W. J. Newton, USN	Ms. Donna Lynch (S)
Ms. Susan Adams (N)*	Mr. Dennis Orenshaw (F)
Mr. Elmer Biles (C)	Mr. Robert Sadorra (N)
Mr. Gary Davis (L)	

### RAB Members Not in Attendance:

Mr. Stephen Elder (L)	Mr. Vincent Hungerford (C)*
Mr. Charles Ellison (C)	Mr. Bob Foley (F)
Ms. Patricia Haddon (L)	

### Additional Attendees:

Ms. Christina Adams (N)	Mr. George Latulippe (K)
Ms. Sherry Deskins (N)	Mr. Bob Lawrence (C)
Mr. Lu Grainger (C)	Mr. John Stacy (C,N)
Mr. Bill Hudson (F)	Mr. Mark Yeaton (C,N)
Mr. Shawn Jorgensen (N)	Mr. Thomas Weingart (C)
Mr. Sal Kasubick (C)	

\* Co-Chair

C = Community  
F = Federal Official  
K = Contractor  
L = Local Official  
N = Navy Official  
R = Newspaper Reporter  
S = State Official

ENCL (1)

## Major Issues Discussed/Accomplished:

### 1. Meeting Introduction

Ms. Susan Adams of the Indian Head Division, Naval Surface Warfare Center (IHDIV-NSWC) began the meeting by presenting the meeting agenda, which changed from the tentative agenda and is included as Attachment A. Ms. Adams introduced Mr. Robert Sadorra, the new Remedial Project Manager from the Engineering Field Activity Chesapeake.

Ms. Adams mentioned that the Soil Vapor Extraction (SVE) Pilot-Scale Study for Installation Restoration (IR) Site 57 has been put on hold until the construction work outside of Building 292 is completed.

Captain W. J. Newton informed the RAB and community that IHDIV-NSWC has recently won two environmental awards at the Chief of Naval Operations (CNO) level; the Environmental Quality Award for an industrial installation, and the Natural Resource Conservation Award for a small installation.

### 2. IR Site 56 Removal Action Status

Mr. Shawn Jorgensen supplied background information on IR Site 56 and discussed the status of the Removal Action at the site. The Removal Action at this site has been completed, including the pipe relining. The total cost for this work was \$768,000. A copy of Mr. Jorgensen's presentation is provided in Attachment B.

### 3. Remedial Investigation Status

Mr. Rob Sadorra provided a brief summary of the Navy IR Program and discussed where IHDIV-NSWC currently is in the process, the Remedial Investigation (RI) phase. A copy of Mr. Sadorra's presentation is provided in Attachment C.

Mr. Jorgensen discussed the prioritization of the existing IR sites in the RI Work Plan. All of the sites in the plan are considered high priority sites, but the Navy does not have money to investigate all of the sites at one time. Therefore, the EPA, the Maryland Department of the Environment (MDE), and the Navy met to discuss these sites. The group determined the various receptors (workers, plants, animals) and pathways (groundwater, air, etc.) for each site. The table in Attachment D was formulated using the receptor/pathway data. The sites with the larger number of pathways and receptors were placed higher in the table. Since not enough information is available to perform a true risk assessment on each site, the Navy felt this was an adequate way to determine which sites would be studied first.

#### 4. Comments, Questions, and Answers

Numerous comments were made and questions asked during the meeting. These comments, questions, and answers are provided in Attachment E.

#### 5. Conclusion

Ms. Susan Adams concluded the meeting by thanking all in attendance and presented the tentative agenda for the next RAB meeting, which includes the IR Site 57 SVE Pilot-Scale Test Results, IR Site 57 Removal Action Status, the Remedial Investigation Status, the Public Health Assessment, and the Preliminary Natural Resource Survey. This meeting has been scheduled for June 19, 1997. As always, a reminder will be sent prior to the meeting.

**INDIAN HEAD DIVISION,  
NAVAL SURFACE WARFARE CENTER  
INSTALLATION RESTORATION PROGRAM  
RESTORATION ADVISORY BOARD (RAB) MEETING  
AGENDA**

February 20, 1997

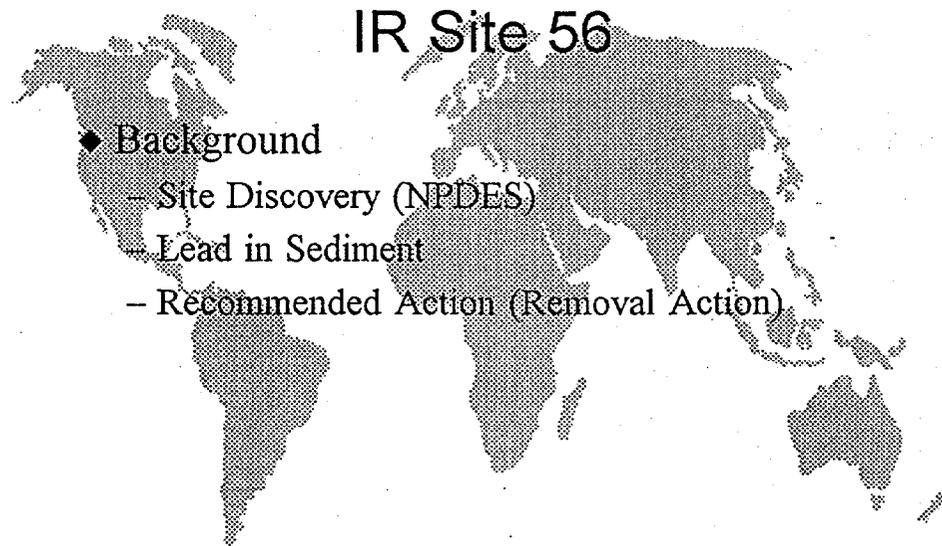
- 7:00 - 7:10      ARRIVAL/WELCOME
- Ms. Susan P. Adams  
Indian Head Division, Naval Surface Warfare Center  
Head, Safety Department
- 7:10 - 7:30      IR SITE 56 REMOVAL ACTION STATUS
- Mr. Shawn Jorgensen  
Indian Head Division, Naval Surface Warfare Center  
IR Project Manager
- 7:30 - 8:00      REMEDIAL INVESTIGATIONS STATUS
- Mr. Robert Sadorra  
Engineering Field Activity Chesapeake  
Remedial Project Manager
- Mr. Shawn Jorgensen
- 8:00 - 9:00      COMMENTS, QUESTIONS, AND ANSWERS
- 9:00              ADJOURN



# Installation Restoration (IR) Site 56 Schedule Update

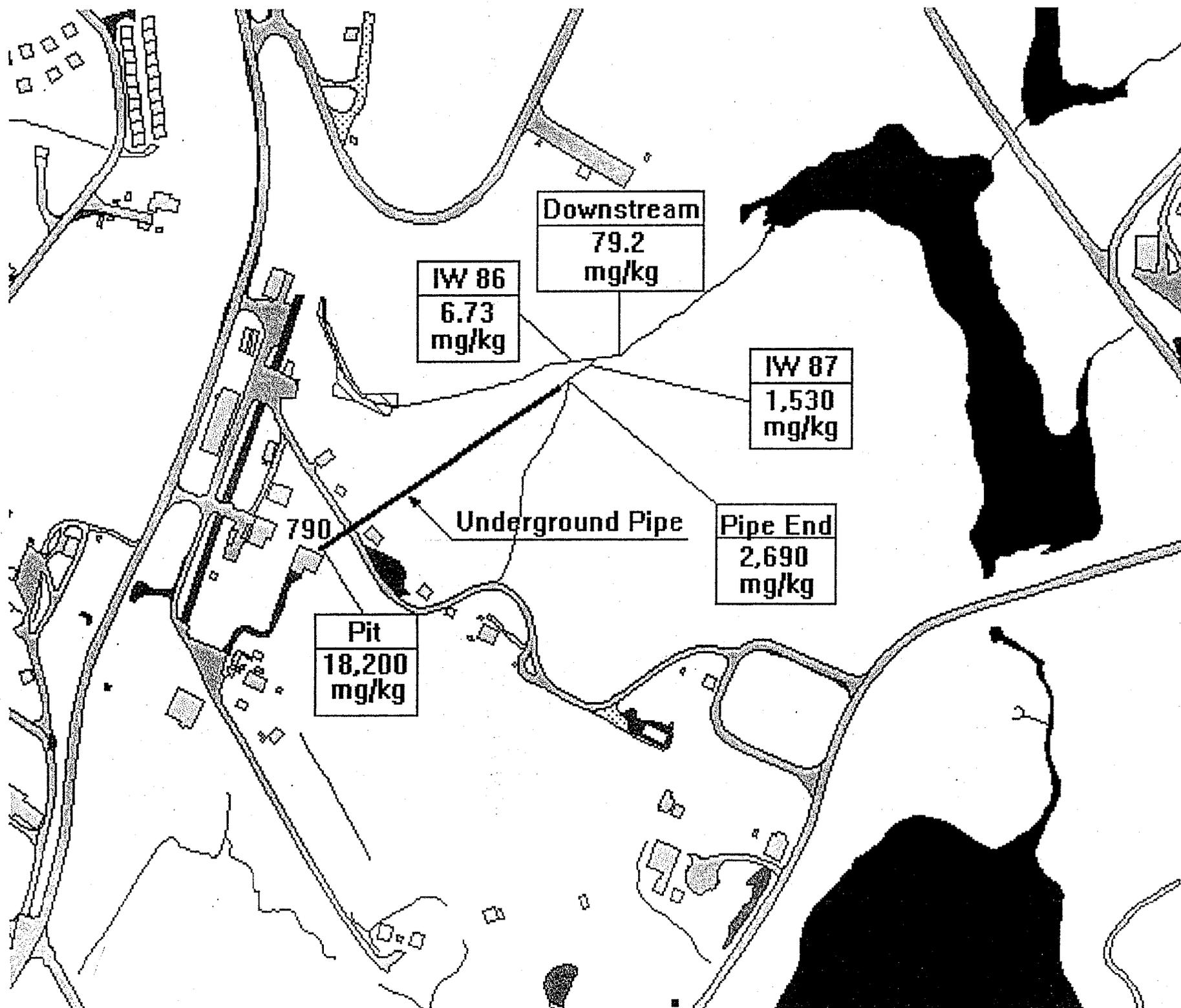
Shawn A. Jorgensen

*Indian Head Division,  
Naval Surface Warfare Center*



## IR Site 56

- ◆ Background
  - Site Discovery (NPDES)
  - Lead in Sediment
  - Recommended Action (Removal Action)



Downstream

79.2

mg/kg

IW 86

6.73

mg/kg

IW 87

1,530

mg/kg

Underground Pipe

Pipe End

2,690

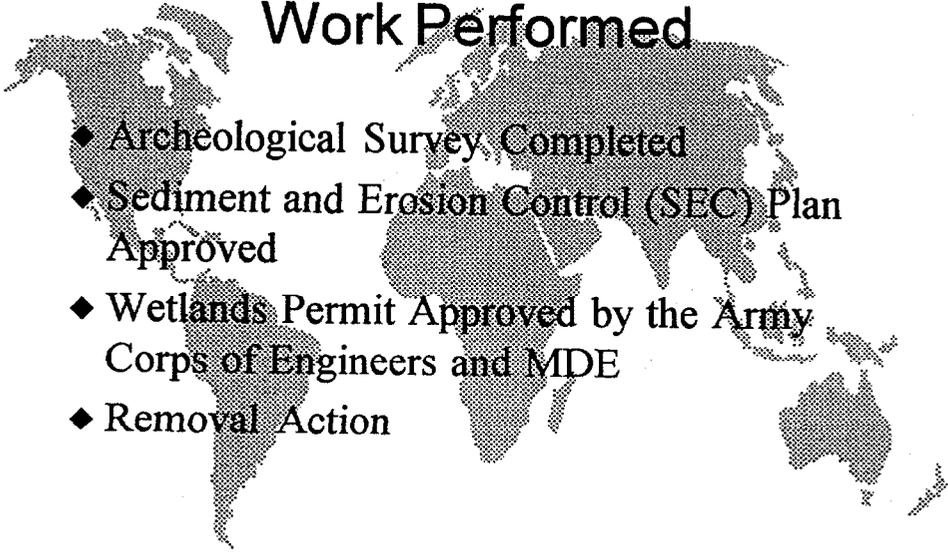
mg/kg

Pit

18,200

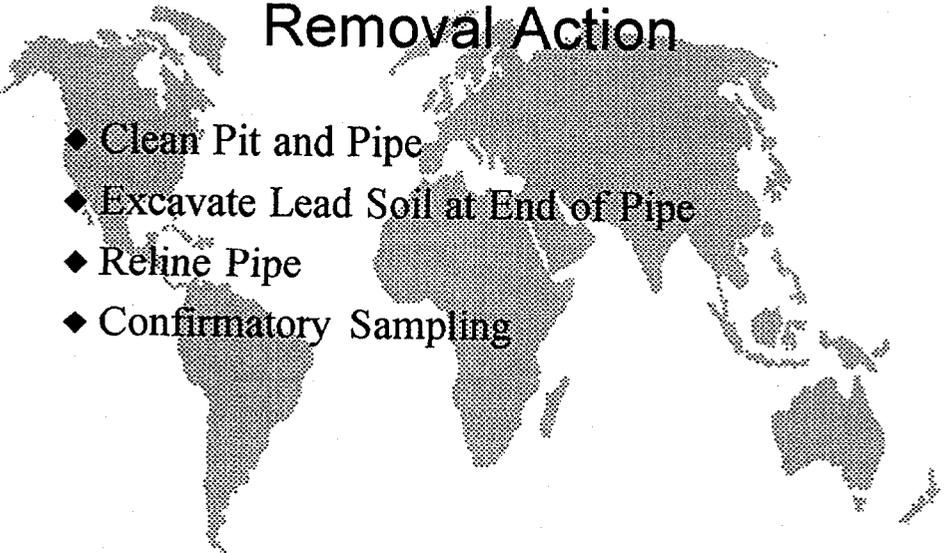
mg/kg

790



## Work Performed

- ◆ Archeological Survey Completed
- ◆ Sediment and Erosion Control (SEC) Plan Approved
- ◆ Wetlands Permit Approved by the Army Corps of Engineers and MDE
- ◆ Removal Action

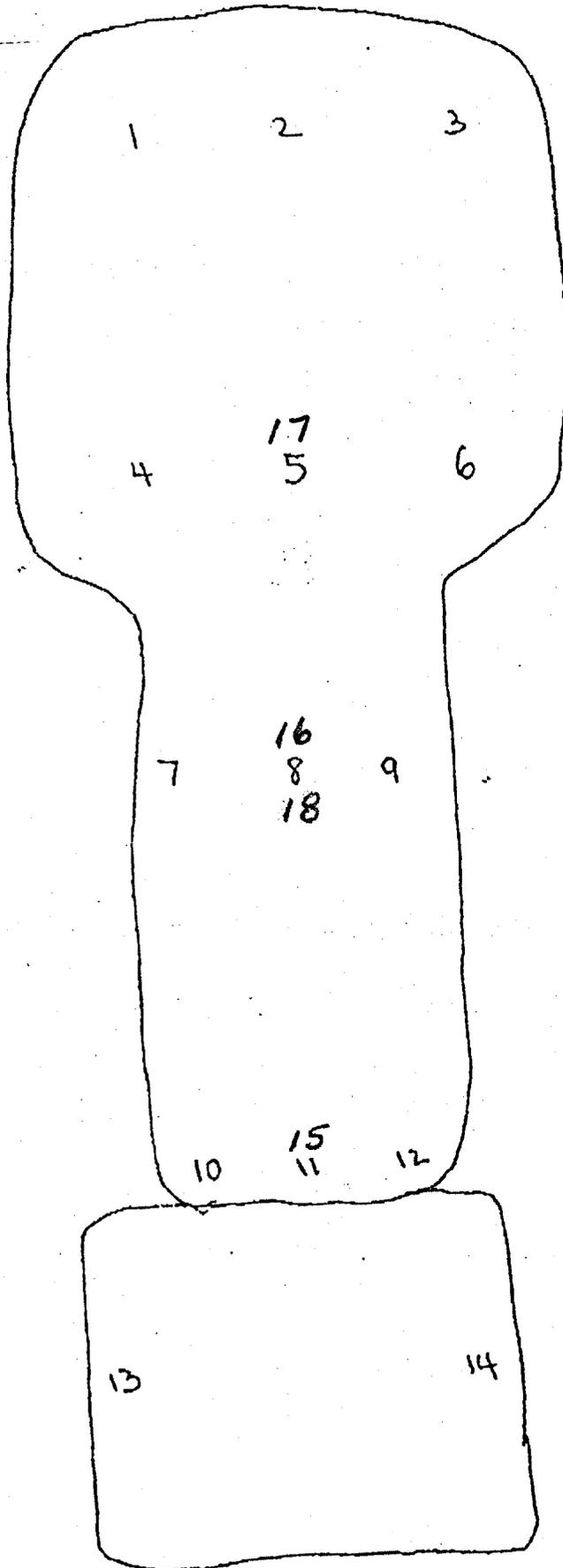


## Removal Action

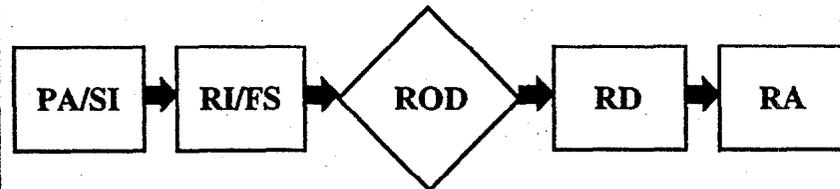
- ◆ Clean Pit and Pipe
- ◆ Excavate Lead Soil at End of Pipe
- ◆ Re-line Pipe
- ◆ Confirmatory Sampling

# IR SITE 56 EXCAVATION AREA

SAMPLE	LEAD RESULT S (ppm)
1	8.1
2	9.4
3	15.5
4	9
5	554
6	10
7	8.8
8	737
9	8.3
10	48.1
11	17.8
12	3.7
13	4
14	2.6
15	20.5
16	683
17	7.5
18	12.4



## *CERCLA Process*



PA Preliminary Assessment  
SI Site Inspection  
RI Remedial Investigation  
ROD Record of Decision  
RD Remedial Design  
RA Remedial Action

Engineering Field Activity Chesapeake

## *Sampling for the Remedial Investigation (RI)*

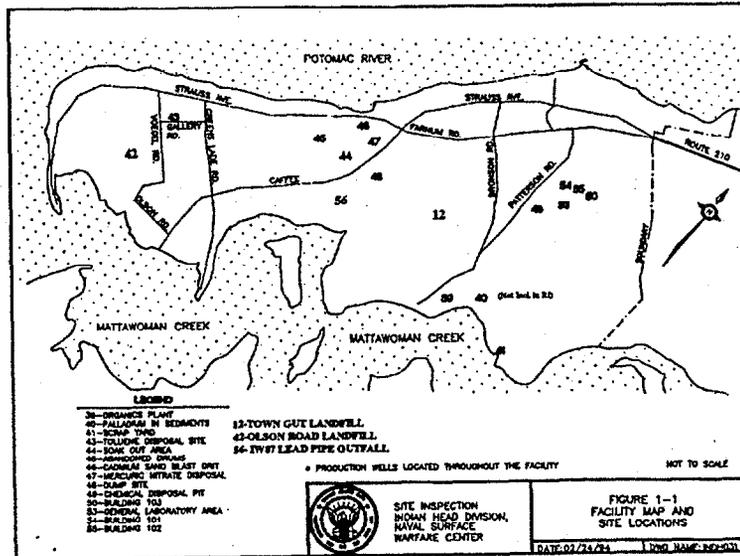
Sampling Objective: Define nature and extent of contamination.

Sampling Strategy: Collect samples to make decisions based on Risk.

- Human Health Risk
- Ecological Risk

Engineering Field Activity Chesapeake

## Remedial Investigation Status



Engineering Field Activity Chesapeake

## Remedial Investigation Status Review Phase

### Comments Provided By:

- IR team meetings between NAVY, EPA, and MDE
- NOAA
  - EPA BTAG
- NAVY Technical Support:
  - US Geological Service (USGS)
  - Fish and Wildlife Service

Engineering Field Activity Chesapeake

## *RI Site Ranking Process*

### IHD Remedial Investigation Site Worksheets

Potential Targets at Risk from Site:

Full Time Worker	Occasional Construction	Occasional Site Visitor
Child Occasional Visitor	Resident (Adult/Child)	Terrestrial Fauna/Flora
Aquatic Fauna/Flora	Terrestrial Fauna/Flora Consumer (Human)	Aquatic Fauna/Flora Consumer (Human)

Media Posing Risk

Surface Water

Adults:

Full Time Worker  
Occasional Construction

Groundwater

Worker

Occasional Site Visitor  
Resident

Soil

Child Occasional Visitor  
Child Resident

Sediment

Aquatic Fauna/Flora  
Terrestrial Fauna/Flora

Air

Human Consumer:

Aquatic Fauna/Flora  
Terrestrial Fauna/Flora

Engineering Field Activity Chesapeake

## Pathways That Can Affect Potential Receptors At IR Sites

Potential Receptors	Installation Restoration Sites						
	12	39+41	56	42	53	47	44
Full Time Worker	GW*	GW*, SL, AR	GW*	GW*, AR	GW*	GW*	GW*
Occasional Construction	SW, SL, AR	SL, AR	SW, SL, SD	SL	SL, AR	SL	SL, AR
Occasional Site Visitor	SW, SL, SD, AR	SL, AR	SW, SL, SD	SW, SL, SD		SL	SL
Resident	GW*	GW*	GW*	GW*	GW*	GW*	GW*
Child Visitor							
Child Resident	GW*	GW*	GW*	GW*	GW*	GW*	GW*
Aquatic Flora/Fauna	SW, SD	SW, SD	SW, SD	SW, SD	SW	SW~	SW~
Terrestrial Flora/Fauna	SW, SL	SW, SL	SW, SL	SW, SL	SL, SD	SL, SD	SL, SW~
Human Consumption - Aquatic Flora/Fauna	SW, SD	SW, SD	SW, SD	SW, SD	SW	SW~	SW~
Human Consumption - Terrestrial Flora/Fauna	SW, SL	SW, SL	SW, SL	SW, SL	SL, SD	SL, SD	SL, SW~
<b>TOTAL</b>	15	14	14	13	8	6	5

**LEGEND:**

AR = Air

GW = Groundwater

SD = Sediment

SL = Soil

SW = Surface Water

\* Potential exists, but no contamination has been found to date.

~ Surface water may be present at site, but only intermittently.

## Pathways That Can Affect Potential Receptors At IR Sites

	Installation Restoration Sites							
Potential Receptors	45	49	50	46	48	54	43	55
Full Time Worker	GW*	GW*	GW*	GW*	GW*	AR	GW*	
Occasional Construction	SL, AR	SL	SL	SL	SL	AR	SL	
Occasional Site Visitor	SL	SL	SL	SL	SL	AR	SL	AR
Resident	GW*	GW*	GW*	GW*	GW*	GW*	GW*	GW*
Child Visitor								
Child Resident	GW*	GW*	GW*	GW*	GW*	GW*	GW*	GW*
Aquatic Flora/Fauna	SW~	SD						
Terrestrial Flora/Fauna	SL		SL	SL	SL			
Human Consumption - Aquatic Flora/Fauna	SW~	SD						
Human Consumption - Terrestrial Flora/Fauna	SL		SL	SL	SL			
<b>TOTAL</b>	<b>5</b>	<b>4</b>	<b>4</b>	<b>4</b>	<b>4</b>	<b>3</b>	<b>2</b>	<b>1</b>

**LEGEND:**

AR = Air

GW = Groundwater

SD = Sediment

SL = Soil

SW = Surface Water

\* Potential exists, but no contamination has been found to date.

~ Surface water may be present at site, but only intermittently.

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INDIAN HEAD, MARYLAND  
20640-5035



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## RESTORATION ADVISORY BOARD (RAB) MEETING COMMENTS, QUESTIONS, AND ANSWERS February 20, 1996

### IR Site 56 Removal Action Update

Question: What was the final cost of the IR Site 56 Removal Action?

Answer: The final cost of the Removal Action was \$768,000.

Question: Doesn't IHDIV-NSWC have a lot of lead floors and is this a problem throughout the Activity?

Answer: Many of the lead-lined floors throughout the Activity have been replaced. Those that remain are still in use for safety reasons and floor washdown has been eliminated at most of these areas. The lead release from Building 790 is an isolated case because of the strong acid stored in the building. This necessitated floor washdowns which carried lead to the outfall. The floor drains in the building have been plugged and any washdown fluid generated is now containerized and properly disposed of.

Question: Has the Archeological Report been completed and is it in the Repository?

Answer: Yes, the report has been completed and was placed in the Repositories in August 1996.

### Remedial Investigation (RI) Work Plan and Site Priorities List

Question: Is part of the responsibility of the RAB helping to prioritize the sites?

Answer: Yes.

Question: At our last RAB meeting, we discussed weighting the receptors. Why didn't we do this?

Answer: There just isn't enough information about the sites to adequately weight the receptors or pathways.

Question: With all of the Base Realignment and Closure (BRAC) activities and now Vision 21, many people get windshield tours of the Activity. You should think about using the money to repair the outside of Buildings 101 and 102.

Answer: This is not the forum to discuss building repairs. Environmental Restoration, Navy (ER, N) funding is to be used in the cleanup of contamination to protect human health and the environment. ER, N funding cannot be used for any other purpose.

Comment: It was very difficult to get Buildings 101 and 102 into the IR Program. Since the contamination is inside the buildings, the cleanup appears to be more of an Occupational Safety and Health issue. However, we have made the point that the contamination inside the building is a potential source for contaminating areas outside the building, in particular, sewer pipes.

Question: What do you do after you prioritize the sites, sample or cleanup?

Answer: We are just trying to prioritize the sites for sampling purposes. The results of the sampling will help us prioritize the sites for cleanup.

Question: Have other facilities used the potential receptors and pathways to prioritize the sites?

Answer: Yes, they are not typically put into a tabular form. The table and checklist is a record showing that we conscientiously looked at each receptor and pathway.

Question: Do the EPA and MDE agree with the priorities?

Answer: We would like to look the table over and then make a decision.

Comment: Different contaminants cause different concerns and require different considerations.

Other

Question: The RAB was asked to respond to the IR Site 57 report and some members of the RAB were contacted by the Agency for Toxic Substances and Disease Registry (ATSDR). However, no one has heard anything from their comments. What is going on?

Answer: We will respond to your comments on the IR Site 57 report very soon. In addition, we have recently received the draft report from the ATSDR. Once the Navy reviews the document and sends comments to the ATSDR, the next version will be available for public comment.

Comment: We hope to have the ATSDR at the next RAB meeting to discuss the Public Health Assessment.

## Priorities for Sampling Sites in the RI Work Plan

<u>Priority</u>	<u>IR Site</u>	<u>Site Description</u>
1	12	Town Gut landfill
2	39/41	Scrap Yard
3	42	Olson Road Landfill
4	47	Mercuric Nitrate Disposal Area
5	53	Mercury Contamination of the Sewage System
6	44	Soak Out Area
7	50	Building 103 Crawl Space
8	54	Building 101
9	55	Building 102
10	45	Abandoned Drums
11	49	Chemical Disposal Pit
12	46	Cadmium Sandblast Grit
13	48	NG Plant Disposal Area
14	43	Toluene Disposal
15	56	Lead Contaminated Pipe and Outfall

Note: All of the sites listed above are in the Navy computer model "NORM" as high priority sites. However, for sampling purposes, the Navy, the EPA, and the MDE have ranked the sites as shown above. In addition, the group considers sites ranked 1 through 6 as high priority, sites ranked 7 through 10 as medium priority, and sites ranked 11 through 15 as low priority.

## Reevaluated Sites Requiring Sampling

<u>IR Site</u>	<u>Description</u>
6	Hypo Spill, Radiographic Facility Accelerator Control Building and Open Drain
11	Caffee Road Landfill
13	Paint Solvents Disposal Ground
17	Disposed Metal Parts Along Shoreline
21	Bronson Road Landfill
25	Hypo Discharges from X-Ray Building Number 2

NOTE: Additional information on these sites can be obtained from the Site Management Plan of October 1995 or from the Initial Assessment Study of May 1983. These documents are located in the Information Repositories, which are located at the IHDIV-NSWC General Library, Building D-40; and the La Plata Branch of the Charles County Public Library.

**INDIAN HEAD DIVISION,  
NAVAL SURFACE WARFARE CENTER  
INSTALLATION RESTORATION PROGRAM  
RESTORATION ADVISORY BOARD (RAB)  
MEETING AGENDA  
(tentative)**

**June 19, 1997**

- 1. IR Site 57 SVE Pilot-Scale Test Results**
- 2. IR Site 57 Removal Action Results**
- 3. Remedial Investigation Status**
- 4. Public Health Assessment**
- 5. Preliminary Natural Resource Survey**