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TECHNICAL REVIEW COMMITTEE (TRC) AGENDA

MAY 7, 1994

FOR THE INSTALLATION RESTORATION (IR) PROGRAM

U.S. NAVAL STATION, ROOSEVELT ROADS

CEIBA, PUERTO RICO

9:00 a.m. - 9:10 a.m.

Welcome by Captain Stephen C. Wood,
Commanding Officer, U.S. Naval Station,
Roosevelt Roads

9:10 a.m. - 10:10 a.m.

Introduction on Navy's Installation
Restoration Program and review of
decision documents and closure plan

10:10 a.m. - 10:30 a.m.

Change of Naval Station IR Program from
CERCLA to RCRA Corrective Action

10:30 a.m. - 11:30 a.m.

Review of supplemental investigation and
future field work under RCRA Corrective
Action

11:30 a.m. - 12:00 p.m.

Restoration Advisory Board (RAB)
Question and answer period/discussion by
all TRC members

12:00 p.m. - 12:10 p.m.

Closing statement

U.S. Naval Station Roosevelt Roads
Technical Review Committee Meeting
10 May 1994

- **Agenda**

- **Opening Remarks**
- **Overview of IR Program**
- **Sites 15 & 16 Interim Remedial Action**
- **Site 21, bldg. 121 Closure Plan**
- **Change in IR Program
(CERCLA to RCRA Corrective Action)**
- **Supplement Investigation**
- **Proposed Field Work under RCRA Corrective
Action**
- **Open Discussion**

U. S. Naval Station Roosevelt Roads
Installation Restoration Program

Naval Station's IR Program

- **Initial Assessment Study completed September 1984**
 - **Identified 20 Sites**
 - » **14 Sites on Naval Station**
 - » **4 Sites on Naval Ammunition Facility**
 - » **2 Sites on Eastern Vieques (AFWTF & Camp Garcia)**
 - **Sites 1, 2, 3, 5-16, & 18 recommended for Further Action**

U. S. Naval Station Roosevelt Roads
Installation Restoration Program

Naval Station's IR Program (continued)

- **Confirmation Study completed April 1988**
 - Sites 1, 2, 5-7, 10-16, & 18 recommended to proceed to Remedial Investigation
 - Site 11, Removal Action completed Sep 1989
 - Sites 3, 8, & 9 Summary Reports issued Feb 91 (No Further Action)
- **Remedial Investigation started 1990**
 - Draft Report issued April 1994

U. S. Naval Station Roosevelt Roads
Installation Restoration Program

Interim Remedial Action Sites 15 & 16

- **Remedial Investigation/Feasibility Study for surface soils completed May 1992**
 - High concentrations of Polychlorinated Biphenyl (PCB)
 - Risk levels above accepted levels of 10^{-4} to 10^{-6} (National Contingency Plan)
- **Cleanup level of 10 ppm PCB**
 - Toxic Substance Control Action (ARAR)
 - 40 C.F.R. 761(c)(4)(v) non-restricted access areas

U. S. Naval Station Roosevelt Roads
Installation Restoration Program

Interim Remedial Action Sites 15 & 16

- **Alternatives Evaluated**
 - No Action Alternative
 - Excavate and Incineration Off-Site
 - Excavate and Landfill Off-Site
 - Excavate and Incineration On-Site
- **Proposed Plans issued Feb 1993**
- **Decision Documents issued Nov 1993**
 - Selected Remedy - Excavate and Landfill Off-Site

U. S. Naval Station Roosevelt Roads
Installation Restoration Program

Current Status of Sites 15 & 16

- **Contract issued Sep 1993**
- **Field Work Started Jan 1994**
- **Initial Scope 90% Completed**
- **Additional PCB contaminated soil encountered**
- **Field Screening Results**
 - **96% correlation rate with off-site lab**
 - **2 of 50 samples were false negatives**

U. S. Naval Station Roosevelt Roads
Installation Restoration Program

**Naval Station, Roosevelt Roads
Site 15
Sample Screening and Laboratory Results
for Total PCBs**

Grid Map Sample No. Locations	Area Map Sample No. Locations (Dwg C-15)	Screening Results (ppm)	Lab Confirmation Results (mg/kg = ppm)
I-6-15	--	< 10	3.30
P-6-15	B-6	> 10	17.0
P-4-15	C-1	> 10	18.0
Q-6-15	B-7	< 10	9.7
M-6-15	B-3	< 10	1.40
O-6-15 (7.5L)	B-5 (7.5L)	> 10	20.0
P-4-15 (7.5L)	C-1 (7.5L)	> 10	440
P-4-15 (7.5L)-D	C-1 (7.5L)-D	> 10	390
P-4-15 7.5R	C-1 (7.5R)	< 10**	14.0
** False negative field screening result -D Duplicate sample () Distance from original sample location in feet and direction (R-right, L-left, U-up, D-down)			

**Naval Station, Roosevelt Roads
Site 15
Sample Screening and Laboratory Results
for Total PCBs**

Grid Map Sample No. Locations	Area Map Sample No. Locations (Dwg C-15)	Screening Results (ppm)	Lab Confirmation Results (mg/kg = ppm)
R-1-15	C-9	> 10	12
P-2-15 (7.5L)	C-3 (7.5L)	> 10	14
D-1-15	E-9	< 10	1.5
N-1-15 (7.5L)	D-10 (7.5L)	< 10	2.8
G-1-15	E-14	< 10	0.17
P-5-15-3	C-0-3	> 10	610
P-4-15-S	C-1-S	< 10	0.17
P-4-15-B	C-1-B	< 10	0.82

-S Sidewall, -B Bottom
 -D Duplicate sample
 () Distance from original sample location in feet and direction
 (R-right, L-left, U-up, D-down)

**Naval Station, Roosevelt Roads
Site 16
Sample Screening and Laboratory Results
for Total PCBs**

Grid Map Sample No. Locations	Area Map Sample No. Locations (Dwg C-15)	Screening Results (ppm)	Lab Confirmation Results (mg/kg = ppm)
O-6	C-6	> 10	120
O-6-D	C-6-D	> 10	120
K-13	E-6	< 10	0.85
K-12 (7.5R)	E-5 (7.5R)	> 10	58

-D Duplicate sample
 () Distance from original sample location in feet and direction
 (R-right, L-left, U-up, D-down)

Naval Station, Roosevelt Roads
Site 16
Sample Screening and Laboratory Results
for Total PCBs

Grid Map Sample No. Locations	Area Map Sample No. Locations (Dwg. C-16)	Screening Results (ppm)	Lab Confirmation Results (mg/kg = ppm)
T-10	D-12	< 10	0.110
T-10-D	D-12-D	< 10	0.095J
U-10	D-15	< 10	0.057J
T-8	D-10	< 10	0.370
S-10	D-9	> 10*	0.130
L-16	E-16	< 10	U
J-16	B-24	> 10	42.0
I-16	B-22	> 10	39.0
F-16	B-8	> 10*	8.00
C-15	A-8	< 10	U
D-15	A-13	> 10	28.0
J-16 (7.5D)	B-24 (7.5D)	< 10	2.50
H-15	B-17	< 10	8.00
F-15 (7.5R)	B-7 (7.5R)	> 10*	5.60
F-16 (7.5R)	B-8 (7.5R)	> 10	58.0
F-16 (7.5L)	B-8 (7.5L)	> 10	10.0
F-17	B-9	< 10	0.240
G-15	B-12	> 10	13.0
J-15	B-23	> 10	160
L-15-D	E-15-D	< 10	2.20
L-15	E-15	< 10	1.60
O-3	C-3	< 10	8.50
L-9	E-9	> 10	16.0

Continued...

Naval Station, Roosevelt Roads
 Site 16 (Continued)
 Sample Screening and Laboratory Results
 for Total PCBs

Grid Map Sample No. Locations	Area Map Sample No. Locations (Dwg. C-16)	Screening Results (ppm)	Lab Confirmation Results (mg/kg=ppm)
P-5	C-11	> 10	160
Q-4	C-15	< 10	0.240
Q-4-D	C-15-D	< 10	0.220
K-14	E-7	> 10*	5.50
P-3 (7.5U)	C-9 (7.5U)	> 10*	8.70
G-15 (7.5R)	B-12 (7.5R)	< 10**	11.0

* False positive field screening result
 ** False negative field screening result
 -D Duplicate sample
 () Distance from original sample location in feet and direction (R-right, L-left, U-up, D-down)

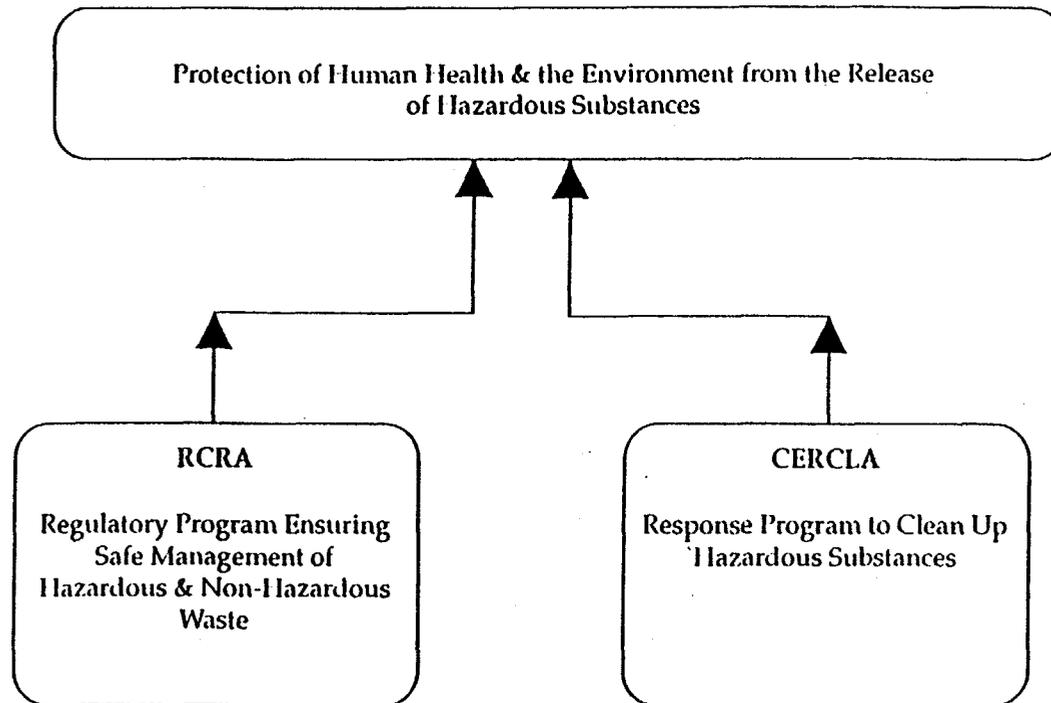
Current Status Site 21 Building 121 Closure

- **Contract issued Aug 1993**
- **Building 121 decontaminated (no scabbling required)**
- **Concentrations of Zn above actions level of 20 mg/Kg as established in approved closure plan (removed approx. 12 CY of soil)**
- **Awaiting completion of Transportation and Disposal**

U. S. Naval Station Roosevelt Roads
Installation Restoration Program

RCRA & CERCLA

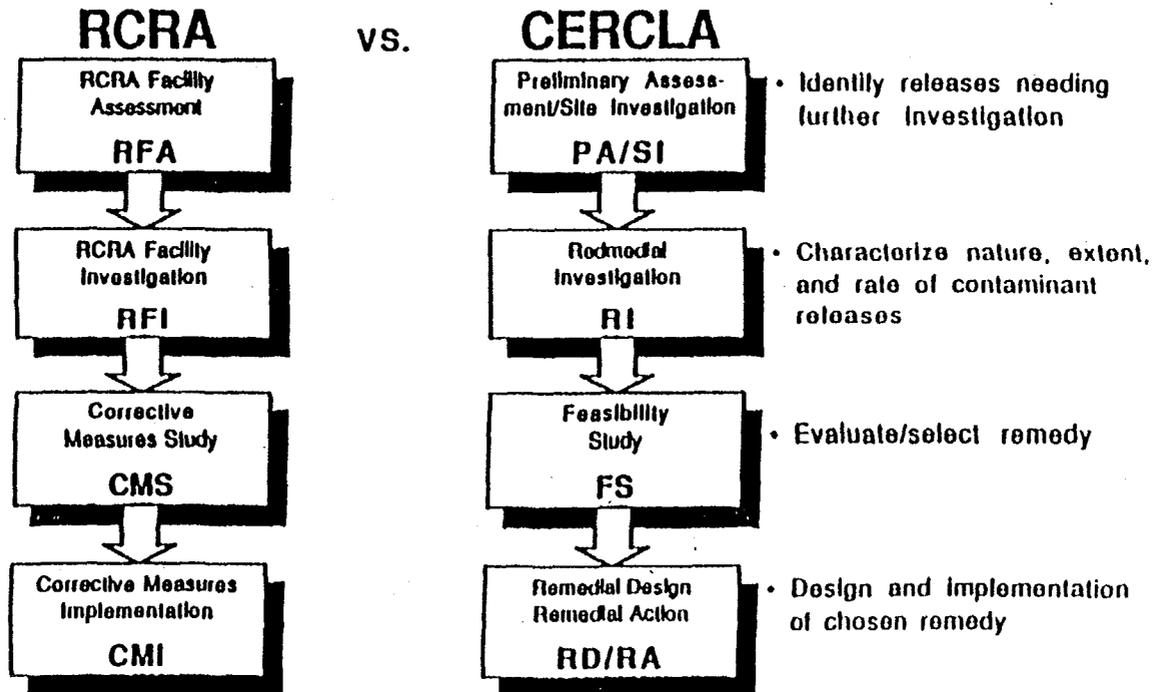
Two Different Approaches to a Common Goal



U. S. Naval Station Roosevelt Roads
Installation Restoration Program

RCRA & CERCLA:

COMPARISON OF RCRA CORRECTIVE ACTION AND CERCLA REMEDIAL PROCESSES*



* Interim Measures may be performed at any point in the corrective action process.

U. S. Naval Station Roosevelt Roads
Installation Restoration Program

**RESTORATION
ADVISORY
BOARDS**

GOALS OF RABS

- **DEVELOP CONSENSUS RECOMMENDATIONS**
- **IMPROVE DECISION MAKING PROCESS**
- **REFLECT PRIORITIES AND CONCERNS OF STAKEHOLDERS**

PURPOSE OF RABS

- **ACT AS A FORUM FOR DISCUSSION AND EXCHANGE OF INFORMATION BETWEEN AGENCIES AND THE COMMUNITY**
- **PROVIDE AN OPPORTUNITY FOR STAKEHOLDERS TO REVIEW PROGRESS AND PARTICIPATE IN DECISION MAKING PROCESS**

NAVY POLICY

- **ESTABLISH RABS AT ALL INSTALLATIONS IN THE ENVIRONMENTAL RESTORATION PROGRAM**
- **EXPAND EXISTING TRCS TO INCLUDE ADDITIONAL COMMUNITY REPRESENTATIVES**
- **ESTABLISH NAVY AND COMMUNITY CO-CHAIRS FOR ALL RABS**
- **OPEN MEETINGS TO THE PUBLIC**
- **KEEP RABS FOCUSED ON ENVIRONMENTAL RESTORATION/CLEANUP**

MEMBERSHIP OF RAB

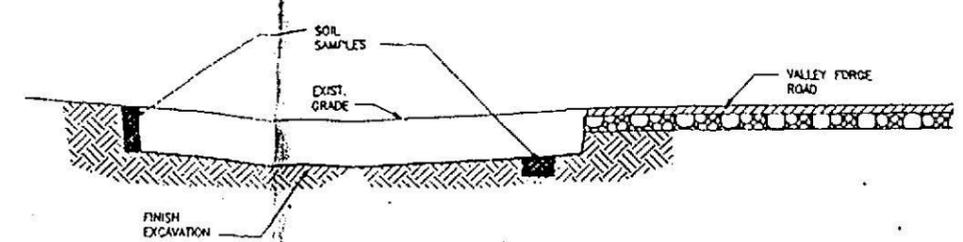
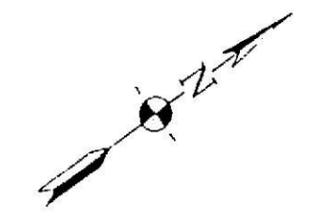
- **INSTALLATION**
- **ENGINEERING FIELD
DIVISION/ENGINEERING FIELD ACTIVITY**
- **ENVIRONMENTAL PROTECTION AGENCY**
- **STATE ENVIRONMENTAL ORGANIZATION**
- **LOCAL GOVERNMENTS**
- **REPRESENTATIVES OF COMMUNITY
INTERESTS OR GROUPS**
- **INTERESTED INDIVIDUALS**

OBTAIN NOMINATIONS FOR RAB MEMBERSHIP

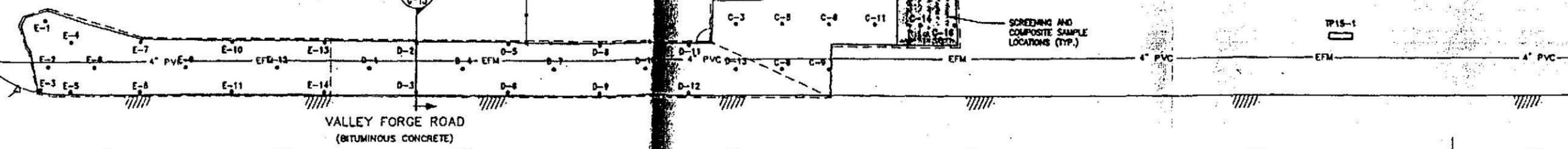
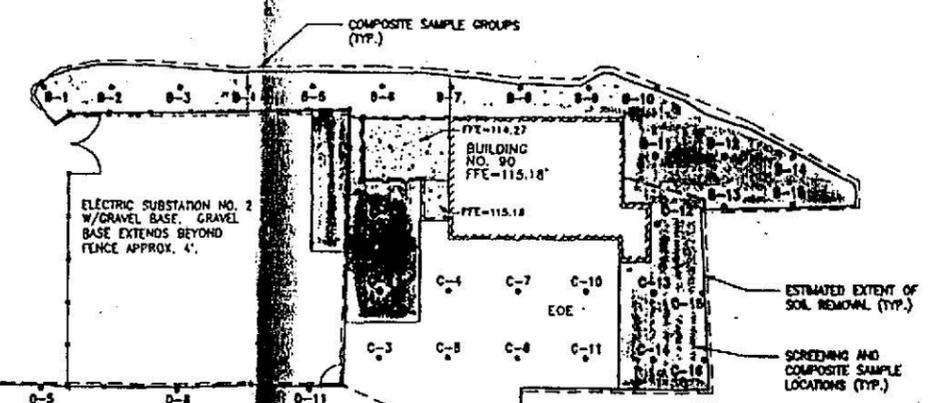
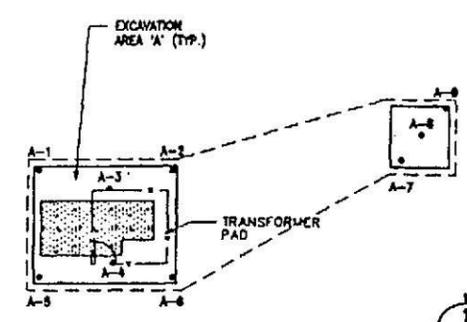
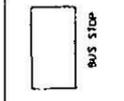
- **ASK MEMBERS OF TRC/BRAC CLEANUP TEAM FOR RECOMMENDATIONS (AT BASES WITH NO TRC OR BRAC CLEANUP TEAM ASK REGULATORS**
- **RE-CONTACT CITIZENS INTERVIEWED DURING DEVELOPMENT OF COMMUNITY RELATIONS PLAN OR INTERVIEW CITIZENS TO SOLICIT NOMINATIONS**
- **SOLICIT ANNOUNCEMENTS THROUGH NEWSPAPER AND MAILING LIST**

SELECTING COMMUNITY MEMBERS

- **DETERMINE OPTIMUM SIZE OF RAB**
- **ESTABLISH NUMBER OF COMMUNITY MEMBERS TO BE ADDED BASED ON ISSUES/CONCERNS/GROUPS**
- **ANNOUNCE RESPONSIBILITIES OF RAB MEMBERS, SELECTION PROCEDURE AND NUMBER OF COMMUNITY MEMBERS TO BE SELECTED**
- **IDENTIFY POTENTIAL NEW MEMBERS**
- **OBTAIN NOMINATIONS/CREATE SLATE OF CANDIDATES**
- **SELECT COMMUNITY MEMBERS**
- **ANNOUNCE NEW MEMBERS**



FORRESTAL DRIVE
(BITUMINOUS CONCRETE)



SEE NOTE 1

SEE NOTE 2

SEE NOTE 1

- NOTE:
- LETTER DESIGNATIONS REPRESENT CONFIRMATION SAMPLE GROUPS BY AREA. THIS WAS DONE AS A CONVENIENCE. FIELD DESIGNATION OF SAMPLES MAY CHANGE THESE DESIGNATIONS.
 - FOUR ADDITIONAL SOIL SAMPLES TO BE PERFORMED ON SEDIMENT AS DIRECTED BY THE N.T.A. TO DETERMINE IF OFF-SITE PCB'S EXIST. TWO OF THE FOUR SEDIMENT SAMPLES TO BE TAKEN IN DRAINAGE DRAINS ON EAST AND SOUTH SIDE OF THE INTERSECTION OF FORRESTAL DRIVE AND VALLEY FORGE ROAD. REMAINING TWO SAMPLES TO BE TAKEN SOUTHWEST OF INTERSECTION AT N.T.A.'S DIRECTION.

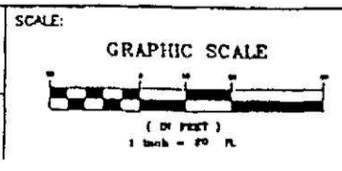


NO.	REVISION	DATE

DRAWN BY
ROS
11/17/92
DEPT CHECK
RRM
PROJECT CHECK
SC

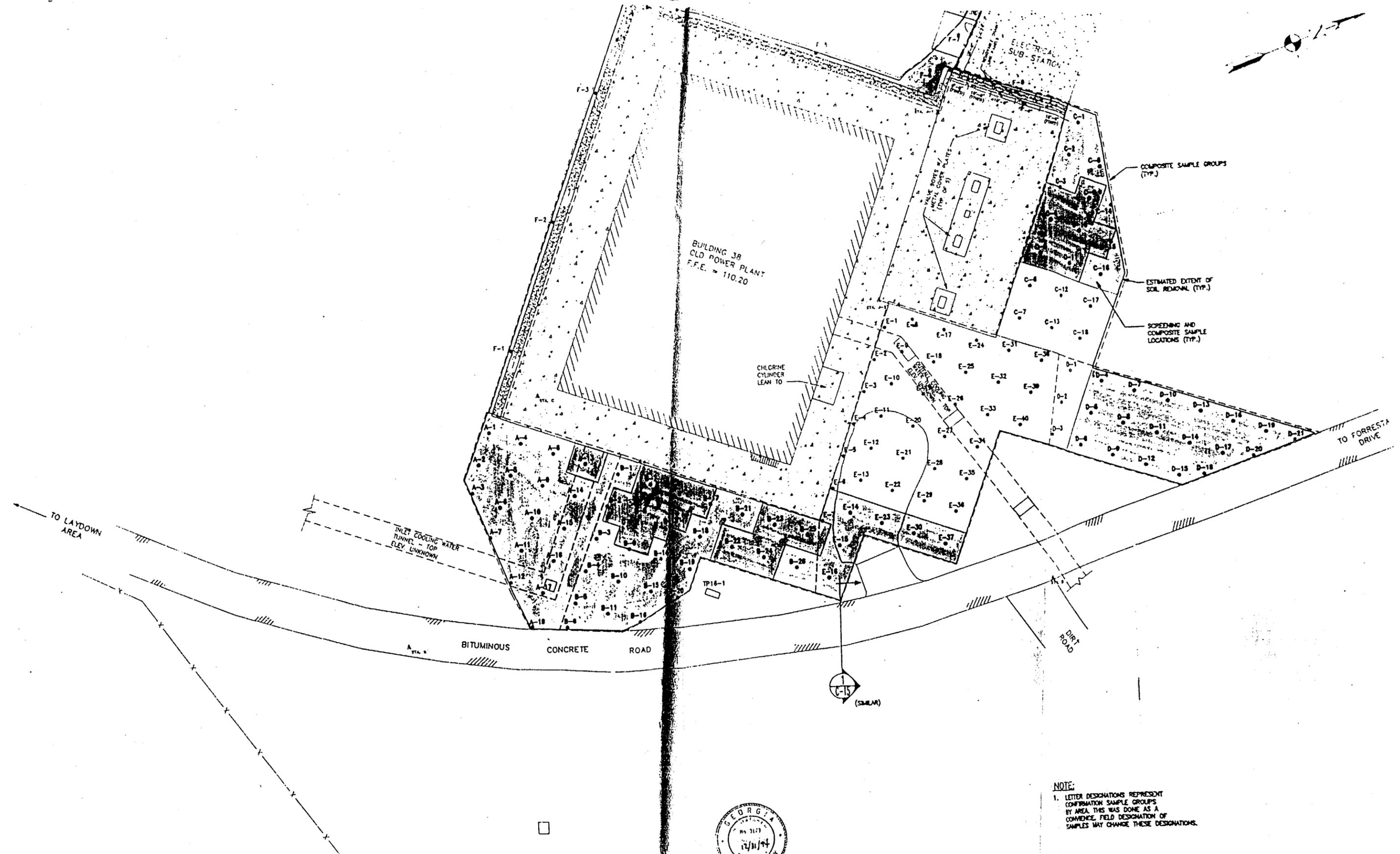
OHM
Remediation
Services Corp.

M&E METCALF & EDDY
5.24.93



ATLANTIC DMSION
NAVAL STATION
ROOSEVELT ROADS, P.R.
INTERIM REMEDIAL ACTION, SOILS OPERABLE UNIT
SITES 15 & 16

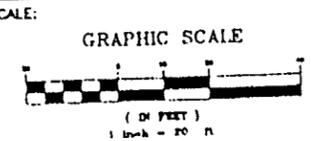
JOB 010661
FILE NO. 0001
DATE 05/15/93
C-15



NOTE:
 1. LETTER DESIGNATIONS REPRESENT CONFIRMATION SAMPLE GROUPS BY AREA. THIS WAS DONE AS A CONVENIENCE. FIELD DESIGNATION OF SAMPLES MAY CHANGE THESE DESIGNATIONS.



M&E METCALF & EDDY
 Donald R. Eddy
 5.26.95



ATLANTIC DMSION
 NAVAL STATION ROOSEVELT ROADS, P.R.
 INTERIM REMEDIAL ACTION, SOILS OPERABLE UNIT
 SITES 15 & 16
 SITE 16 - RECOMMENDED SOIL SAMPLE LOCATIONS

JOB 010661
 FILE NO. 0001
 DATE 05/15/93
 SHEET C-16

DRAWN BY
 ROS
 11/17/92
 CHECKED BY
 RRM
 PROVIDED BY

OIIM
 Remediation
 Services Corp.

RESPONSIBILITIES OF COMMUNITY CO-CHAIR

- **ENSURE THAT COMMUNITY ISSUES AND CONCERNS ARE BROUGHT TO THE TABLE**
- **ASSIST IN COMMUNICATING TECHNICAL INFORMATION TO STAKEHOLDERS**
- **ASSIST IN DISSEMINATING INFORMATION TO THE PUBLIC**
- **COORDINATE WITH THE NAVY CO-CHAIR TO PREPARE AND DISTRIBUTE AN AGENDA PRIOR TO EACH MEETING**
- **WORK WITH THE NAVY CO-CHAIR TO REVIEW AND DISTRIBUTE THE MINUTES**

RESPONSIBILITIES OF NAVY CO-CHAIR

- **ENSURE NAVY CONSIDERS AND RESPONDS TO COMMENTS**
- **ENSURE COMMUNITY MEMBERS ARE GIVEN ADEQUATE TIME TO PRESENT CONCERNS**
- **CO-ORDINATE WITH THE COMMUNITY CO-CHAIR TO PREPARE AND DISTRIBUTE AN AGENDA PRIOR TO EACH RAB MEETING**
- **ADVERTISE MEETINGS**
- **PROVIDE ADMINISTRATIVE SUPPORT FOR THE RAB**
- **BE RESPONSIBLE FOR THE MINUTES**

RESPONSIBILITIES OF NAVY CO-CHAIR (CONT.)

- **REFER NON-CLEANUP ISSUES TO APPROPRIATE NAVY OFFICIALS**
- **WORK WITH COMMUNITY CO-CHAIR TO ESTABLISH A PROCESS FOR PUBLIC REVIEW OF DOCUMENTS**
- **PUBLISH THE PROCESS FOR PUBLIC REVIEW AND COMMENT**
- **PROVIDE DRAFT COMMENTS TO RAB**
- **PUBLISH THE REQUIREMENTS AND TERMS OF COMMUNITY MEMBERS AFTER THEY ARE DETERMINED BY TRC, STEERING COMMITTEE, OR OTHER**

RAB MEETINGS

- **OPEN RAB MEETINGS TO THE PUBLIC**
- **SELECT TIME AND PLACE FOR MEETINGS TO PERMIT PUBLIC ATTENDANCE**
- **ANNOUNCE MEETINGS IN ADVANCE THROUGH ANNOUNCEMENTS IN LOCAL NEWSPAPERS AND MAILINGS TO PARTIES ON THE MAILING LIST**
- **DISTRIBUTE MINUTES TO RAB MEMBERS**
- **HAVE RAB MEMBERS ESTABLISH PROCEDURES FOR THE CONDUCT OF THE RAB MEETINGS**

29 APR 94

**PLAN OF ACTION AND MILESTONES
FOR RESTORATION ADVISORY BOARD
ESTABLISHMENT**

ITEM	RESPONSIBILITY	DUE DATE
CONDUCT TRC MEETING * Introduce RAB * Ask for suggestions on: - How to establish RAB - RAB members	TRC MEMBERS	10 MAY 94
DEVELOP MAILING LIST OF INTERESTED PARTIES * Re-contact citizens interviewed during CRP * Sent letters to individuals recommended by TRC	PAO/IR COORD	30 MAY 94
PLACE ANNOUNCEMENTS IN LOCAL PAPERS * Explain RAB * Solicit nominations * Announce public meeting	PAO	30 MAY 94
HOLD A PUBLIC MEETING * Explain RAB * Solicit nominations	PAO/IR COORD	10 JUN 94
SELECT RAB MEMBERS	TRC MEMBERS	01 JUL 94
CONTACT RAB MEMBERS * Decide on fist RAB members meeting	PAO	15 JUL 94
ANNOUNCE RAB MEMBERS AND FIRST RAB MEETING BY LOCAL MEDIA	PAO	30 JUL 94
CONDUCT FIRST RAB PUBLIC MEETING * Introduce RAB members * Elect community co-chair * Establish terms and conditions for community co-chair. * Establish meeting process and schedule	PAO/IR COORD	26 AUG 94
ANNOUNCE BY FACT SHEET AND LOCAL PAPERS THE ESTABLISHMENT OF RAB, CO-CHAIRS' NAMES AND TELEPHONES, AND MEETING SCHEDULE	PAO	30 SEP 94

NOTES:

- 1) PUBLIC NOTICES HAVE TO BE IN ENGLISH AND SPANISH
- 2) NEED A TRANSLATOR AT THE PUBLIC MEETING (\$\$\$\$)
- 3) EPA AND EFD NEED TO TRAVEL FOR EACH MEETING

10 May 94.

TRC meeting
Attendance list

<u>Name</u>	<u>Company/Agency</u>	<u>Tel.</u>
Madeline Rivera	U.S. Navy/ Roos Rds	865-4488
Irma Pedraza de Ortiz	Municipio-Ceiba	885-0020
Lydia Ferris	Liaison Town Hall-Ceiba	885-1809
Thomas Fuller	Baker Environmental	412-269-6000
James Szykman	Atlantic Division-NAVFAC-Norfolk, VA	804-322-4795
Michael RAY	Public Works Dept., NAVSTA RR	809-865-4211
JOY(SW) KEVIN GADDIE-	NAVSTA PAO	865-4018
LT Sharon L. Perkins	U.S. NAVY, ROOS, RDS	865-4488
Indulfo Castillo	U.S. Navy, Roos, Rdo.	809-865-3155
LI MIKE SHAW	NAVSTA LEGAL	865-4931/2
CDR Gregg Webster	NAVSTA XO	4242
TIMOTHY GORDON	E.P.A. REGION II	212-264-9538
RENITO COWAN DeFORD	E.Q.B. RCRA - CORRECTIVE ACTION SEC.	801-760-2317
JUAN JOSE BABÁ	E.Q.B. RCRA - CORRECTIVE ACTION SEC.	(809)-766-2817
JR NEETON, RE	COMFAIRCARIB-REC	(809) 865-4429

10 May 94.

TRC meeting

Attendance list

<u>Name</u>	<u>Company/Agency</u>	<u>Tel.</u>
Madeline Rivera	U.S. Navy/ Roos Rds	865-4488
Irma Pedraza de Ortiz	Municipio-Ceiba	885-0020
Lydia Ferris	Liaiso-Town Hall-Ceiba	885-1809
Thomas Fuller	Baker Environmental	412-269-6000
James Szykman	Atlantic Division-NAVFAC-Norfolk, VA	804-322-4745
Michael RAY	Public Works Dept., NAVSTA RR	809-865-4212
JOY(SW) KEVIN GADDIE-	NAVSTA PAD	865-4018
LT Sharon L. Perkins	U.S. NAVY, ROOS, RDS	865-4488
Indulfo Castillo	U.S. Navy, Roos, Rdo.	809-865-3155
LI MIKE SHAW	NAVSTA LEGAL	865-4931/2
CDR Gregg Webster	NAVSTA XU	4242
TIMOTHY GORDON	E.P.A. REGION II	212-264-9538
RENITO COUN DE TORO	E.Q.B. RCRA - CORRECTIVE ACTION SEC.	809-766-2817
JUAN JOSE BARRA	E.Q.B. RCRA - CORRECTIVE ACTION SEC.	(809)-766-2817
JR NEETON, PG	COMFAIR CARIB-REC	(809) 865-4429

Analytical Data Confirmation Study/Supplemental Investigation

- ◆ **Confirmation Study Analytics**
 - ▶ **Somewhat higher detection levels than presently available**
 - ▶ **No data validation**

- ◆ **Supplemental Investigations Analytics**
 - ▶ **Rigorous CLP Protocols followed**
 - ▶ **Low detection limits**
 - ▶ **Third Party Data Validation**



Analytical Data *(cont.)*

Results of the SI validated findings of the CS

- ◆ **Compounds not detected during the CS were also generally not detected in the SI**
- ◆ **Validated data of SI showed the analytical methods and results of the CS to be reliable**



Analytical Data (cont.)

Semi-Volatile Data

Much of the SI semi-volatile data was "qualified" during data validation. The proper calibrations were not done in conjunction with these samples but were done before and after. This is procedurally wrong. Resulted in elevated CRQLs.

Data is still valid for positive and negative detections. Data was useable for risk assessment.

Baker

Baker Environmental, Inc.

May 10, 1994

TRC Meeting



SWMU 1 - Former Cremator Disposal Site

SWMU Characteristics

Period of use: Early 1940s - early 1960s

Wastes Managed:

A wide variety of industrial and residential wastes

Waste Management Techniques:

During operation as main base landfill wastes were disposed by piling, burning and compacting. It is estimated that up to 1,000 tons of materials containing toxic constituents could be present.

Disposal may have occurred using trenches.

Reasons for RFI:

- 1. Waste management techniques**
- 2. Wastes managed**
- 3. Volume of wastes**
- 4. Indication of low levels of organics & pesticides**

Baker

Baker Environmental, Inc.

May 10, 1994

TRC Meeting



SWMU 1 - Former Cremator Disposal Site (cont.)

Supplemental Investigation Results

1. **Historical air photo interpretation and geophysics generally confirmed trench disposal. Sampling, while performed site-wide, was focused in these areas.**
2. **Soil Sampling**
 - ▶ **VOC were found in trace to moderate concentrations (acetone, carbon disulfide, methylene chloride)**
 - ▶ **SVOC - only 1 ubiquitous laboratory artifact was seen at low levels**
 - ▶ **Metals did not exhibit elevated concentrations**
 - ▶ **P/PCB pesticides at low to high concentrations (one 4,4 DDT hit)**
3. **Groundwater**
 - ▶ **No VOC detected**
 - ▶ **Trace concentration of heptachlor found (P/PCB) in 1 sample**
 - ▶ **No SVOC detected (1 lab artifact)**
 - ▶ **Metals were within expected ranges**
4. **Risk Assessment**
 - ▶ **No identifiable risk to sensitive receptors is posed by the site**



09.04-05/10/94-0044
(CONTINUED)

**TECHNICAL REVIEW COMMITTEE (TRC)
U.S. NAVAL STATION - ROOSEVELT ROADS (NSRR)**

May 10, 1994 - MEETING MINUTES

Place of Meeting: Roosevelt Roads - Environmental Offices

Meeting Attendees: See Attachment 1.

Meeting Agenda: See Attachment 2.

Meeting Minutes:

9:45 a.m. - Meeting opened by Madeline Rivera of (NSRR). Each person present introduced themselves and identified their affiliation.

Commander Welstead (NSRR Executive Officer) provided opening remarks. The attendees were welcomed. The Commander briefly discussed the progress which has been made in the program since the last TRC meeting. Stressed heavily that the Navy is committed to allowing community participation in the process and intends to maintain communications.

M. Rivera presented the agenda. A presentation regarding Restoration Advisory Boards (RAB) was added.

J. Szykman of LANTDIV presented a history of the Navy Installation Restoration (IR) Program at the base. His presentation addressed four topics:

- The sites included in the program and the investigations conducted to date;
- IR Sites 15 and 16 (Building 90 Substation and the PCB problem at the Old Powerhouse Building 38 respectively) in terms of the problem associated with each, the plan for remediation, and the results/status of the ongoing cleanup work;
- Building 21 (Old Pesticide Storage Building) including its history, RCRA closure status, and preliminary decontamination results; and
- The regulatory process of changing the site from CERCLA to RCRA requirements.

A copy of the materials used during the presentation were provided to the attendees.

During the course of Mr. Szykman's presentation, a single question was raised. Mr. Gordon (EPA Region II) asked for clarification regarding the Confirmation Study and the Supplemental Investigation (both investigatory programs which have been performed at the base). The clarification/distinction between the investigations was provided by Mr. Szykman.

10:20 a.m. - Mr. Fuller of Baker Environmental, Inc. (the Navy's CLEAN contractor) provided a detailed description of the RCRA program. Included were:

- Physical and historical descriptions of each Solid Waste Management Unit (SWMU) for which investigations were being required in the Draft Corrective Action Permit
- Discussions of any known contamination problem associated with each SWMU or the waste management factors which may indicate the potential for contaminant release
- A general proposed scope of work for each SWMU deemed necessary to address the RCRA Facility Investigation (RFI) requirements

Copies of the slides used during the presentation were provided to the attendees.

During the course of Mr. Fuller's presentation, the following points were discussed:

- Mr. Gordon provided some clarification to Mr. Fuller's definition of "hazardous constituents" and how it relates to SWMUs. Mr. Gordon stated that a hazardous constituent is defined in the regulations. The release can be the result of a product which contained hazardous constituents and does not only apply to hazardous waste as defined by the regulations. RCRA has authority to investigate a SWMU or Area of Concern (AOC) regardless of when a release of hazardous constituents occurred at a particular unit, or how they were suspected of being released or disposed at the unit.
- Mr. Gordon raised a question on SWMU 14 asking if this unit was the old fire fighting training area. Mr. Fuller responded that the proposed location of the investigation is the current fire fighting training areas as described in the draft permit. It was then agreed that the existing area is in the same location as the old unit. This will be confirmed by the Navy.
- Mr. Fuller indicated that the existing area identified in the draft permit as SWMU 26 is the wrong area and that the correct area has been identified. It was indicated that the workplans will be altered to reflect the proper location.

11:20 a.m. - A short break was taken.

11:35 a.m. - Meeting was reconvened. Ms. Rivera presented the concept of Restoration Advisory Boards. It was stressed that this was a Navy initiative coming, from the Chief of Naval Operations, designed to encourage and expand the community's role in the restoration process. Details of the RAB make-up were provided, including a description of the co-chair concept where the board will have a Navy and a Community chair.

Copies of the slides used during Ms. Rivera's presentation were provided to meeting attendees.

The RAB presentation spawned significant discussion. The salient items addressed were:

- CMDR Welstead asked if any other bases had established RABs yet. Ms Rivera answered that she did not think so but that all were required to by September 30, 1994.

- Commander Welstead asked if this initiative was more than placing things in the public repository available for review. Ms. Rivera indicated that it was much more and that real attempts had to be made to get the community involved.
- Ms. Rivera asked the assemblage if they had any names that they could propose for membership on the RAB. She also asked whether EPA would commit to participation. Mr. Gordon responded that he thought that something could be arranged with the San Juan Caribbean office of the EPA although this was primarily a CERCLA office and had little to do with RCRA. It was asked why the New York office could not participate. Mr. Gordon indicated that this might be possible if meetings for other reasons could be dovetailed to avoid repeated travel. This suggestion received general agreement.
- Mr. Gordon indicated that there was no need for a public meeting to discuss the Draft Part B Permit. When the draft permit was issued, the EPA solicited comments and requests for public meetings. Only two requests were received both of which were subsequently rescinded.
- Following Mr. Gordon's comments on the public meeting, a general discussion of public meetings and individual experiences took place.
- Mr. Negrón indicated that it was the Navy's interest to form a "team" with the community. He mentioned that it would be important to have any visual aids used at the meetings contain both English and Spanish. Also, it would be beneficial to have Spanish translators.

Ms. Rivera closed by saying that the community needs to take advantage of the opportunity to participate in the the RAB Program to ensure that their concerns are made known.

Meeting Adjourned: 12:10 p.m.

Additional Communications

Attachment 3 to these minutes are two letters received regarding the TRC Meeting. The first letter, received at the meeting from the Mayoress of Ceiba, expresses confidence in the agencies overseeing the program. The second letter, received May 13, 1994 from the Fish and Wildlife Service, indicates concurrence with the selected remedies for IR Sites 15, 16 and 21.

Meeting Minutes: Prepared by Mr. Fuller of Baker Environmental

cc: All meeting attendees.

Attachment 1
Meeting Attendees

10 May 94.

TRC meeting

Attendance list

<u>Name</u>	<u>Company/Agency</u>	<u>Tel.:</u>
Madeline Rivera	U.S. Navy/Roos Rds	865-4488
Irma Pedraza de Ortiz	Municipio-Ceiba	885-0020
Lydia Ferris	Liaiso-Town Hall-Ceiba	885-1809
Thomas Fuller	Baker Environmental	412-269-6000
James Szykman	Atlantic Division-NAVFAC-Norfolk, VA	804-322 4795
Michael RAY	Public Works Dept., NAVSTA RR	809-865-4212
JOY(SW) KEVIN GADDIE-	NAVSTA PAO	865-4018
LT Sharon L. Perkins	U.S. NAVY, ROOS, RDS	865-4488
Isidulfo Castillo	U.S. Navy, Roos, Rds.	809-865-3155
LT MIKE SHAW	NAVSTA LEGAL	865-4931/2
CDR Gregg Webster	NAVSTA XO	4242
TIMOTHY GORDON	E.P.A. REGION II	212-264-9538
RENITO COWAN DeToro	E.Q.B. RCRA - CORRECTIVE ACTION SEC.	809-766-2317
JUAN JOSE BABÁ	E.Q.B. RCRA - CORRECTIVE ACTION SEC.	(809)-766-2817
JR NEETON, RE	COMFAIRCARIB-REC	(809) 865-4429

Attachment 2
Meeting Agenda

U.S. Naval Station Roosevelt Roads
Technical Review Committee Meeting
10 May 1994

- **Agenda**

- **Opening Remarks**
- **Overview of IR Program**
- **Sites 15 & 16 Interim Remedial Action**
- **Site 21, bldg. 121 Closure Plan**
- **Change in IR Program
(CERCLA to RCRA Corrective Action)**
- **Supplement Investigation**
- **Proposed Field Work under RCRA Corrective
Action**
- **Open Discussion**

U. S. Naval Station Roosevelt Roads
Installation Restoration Program

Attachment 3
Letters

09.04-05/10/94-cc
446

U.S. Naval Station Roosevelt Roads Technical Review Committee Meeting 10 May 1994

- **Agenda**

- **Opening Remarks**
- **Overview of IR Program**
- **Sites 15 & 16 Interim Remedial Action**
- **Site 21, bldg. 121 Closure Plan**
- **Change in IR Program
(CERCLA to RCRA Corrective Action)**
- **Supplement Investigation**
- **Proposed Field Work under RCRA Corrective
Action**
- **Open Discussion**

U. S. Naval Station Roosevelt Roads
Installation Restoration Program

Naval Station's IR Program

- **Initial Assessment Study completed September 1984**
 - **Identified 20 Sites**
 - » **14 Sites on Naval Station**
 - » **4 Sites on Naval Ammunition Facility**
 - » **2 Sites on Eastern Vieques (AFWTF & Camp Garcia)**
 - **Sites 1, 2, 3, 5-16, & 18 recommended for Further Action**

U. S. Naval Station Roosevelt Roads
Installation Restoration Program

Naval Station's IR Program (continued)

- **Confirmation Study completed April 1988**
 - Sites 1, 2, 5-7, 10-16, & 18 recommended to proceed to Remedial Investigation
 - Site 11, Removal Action completed Sep 1989
 - Sites 3, 8, & 9 Summary Reports issued Feb 91 (No Further Action)
- **Remedial Investigation started 1990**
 - Draft Report issued April 1994

U. S. Naval Station Roosevelt Roads
Installation Restoration Program

Interim Remedial Action Sites 15 & 16

- **Remedial Investigation/Feasibility Study for surface soils completed May 1992**
 - High concentrations of Polychlorinated Biphenyl (PCB)
 - Risk levels above accepted levels of 10^{-4} to 10^{-6} (National Contingency Plan)
- **Cleanup level of 10 ppm PCB**
 - Toxic Substance Control Action (ARAR)
 - 40 C.F.R. 761(c)(4)(v) non-restricted access areas

U. S. Naval Station Roosevelt Roads
Installation Restoration Program

Interim Remedial Action Sites 15 & 16

- **Alternatives Evaluated**
 - No Action Alternative
 - Excavate and Incineration Off-Site
 - Excavate and Landfill Off-Site
 - Excavate and Incineration On-Site
- **Proposed Plans issued Feb 1993**
- **Decision Documents issued Nov 1993**
 - Selected Remedy - Excavate and Landfill Off-Site

U. S. Naval Station Roosevelt Roads
Installation Restoration Program

Current Status of Sites 15 & 16

- **Contract issued Sep 1993**
- **Field Work Started Jan 1994**
- **Initial Scope 90% Completed**
- **Additional PCB contaminated soil encountered**
- **Field Screening Results**
 - **96% correlation rate with off-site lab**
 - **2 of 50 samples were false negatives**

U. S. Naval Station Roosevelt Roads
Installation Restoration Program

Naval Station, Roosevelt Roads
Site 15
Sample Screening and Laboratory Results
for Total PCBs

Grid Map Sample No. Locations	Area Map Sample No. Locations (Dwg C-15)	Screening Results (ppm)	Lab Confirmation Results (mg/kg=ppm)
I-6-15	--	< 10	3.30
P-6-15	B-6	> 10	17.0
P-4-15	C-1	> 10	18.0
Q-6-15	B-7	< 10	9.7
M-6-15	B-3	< 10	1.40
O-6-15 (7.5L)	B-5 (7.5L)	> 10	20.0
P-4-15 (7.5L)	C-1 (7.5L)	> 10	440
P-4-15 (7.5L)-D	C-1 (7.5L)-D	> 10	390
P-4-15 7.5R	C-1 (7.5R)	< 10**	14.0

** False negative field screening result
 -D Duplicate sample
 () Distance from original sample location in feet and direction (R-right, L-left, U-up, D-down)

**Naval Station, Roosevelt Roads
Site 15
Sample Screening and Laboratory Results
for Total PCBs**

Grid Map Sample No. Locations	Area Map Sample No. Locations (Dwg C-15)	Screening Results (ppm)	Lab Confirmation Results (mg/kg = ppm)
R-1-15	C-9	> 10	12
P-2-15 (7.5L)	C-3 (7.5L)	> 10	14
D-1-15	E-9	< 10	1.5
N-1-15 (7.5L)	D-10 (7.5L)	< 10	2.8
G-1-15	E-14	< 10	0.17
P-5-15-3	C-0-3	> 10	610
P-4-15-S	C-1-S	< 10	0.17
P-4-15-B	C-1-B	< 10	0.82

-S Sidewall, -B Bottom
 -D Duplicate sample
 () Distance from original sample location in feet and direction
 (R-right, L-left, U-up, D-down)

**Naval Station, Roosevelt Roads
Site 16
Sample Screening and Laboratory Results
for Total PCBs**

Grid Map Sample No. Locations	Area Map Sample No. Locations (Dwg C-15)	Screening Results (ppm)	Lab Confirmation Results (mg/kg = ppm)
O-6	C-6	> 10	120
O-6-D	C-6-D	> 10	120
K-13	E-6	< 10	0.85
K-12 (7.5R)	E-5 (7.5R)	> 10	58

-D Duplicate sample
 () Distance from original sample location in feet and direction
 (R-right, L-left, U-up, D-down)

**Naval Station, Roosevelt Roads
Site 16
Sample Screening and Laboratory Results
for Total PCBs**

Grid Map Sample No. Locations	Area Map Sample No. Locations (Dwg. C-16)	Screening Results (ppm)	Lab Confirmation Results (mg/kg=ppm)
T-10	D-12	< 10	0.110
T-10-D	D-12-D	< 10	0.095J
U-10	D-15	< 10	0.057J
T-8	D-10	< 10	0.370
S-10	D-9	> 10*	0.130
L-16	E-16	< 10	U
J-16	B-24	> 10	42.0
I-16	B-22	> 10	39.0
F-16	B-8	> 10*	8.00
C-15	A-8	< 10	U
D-15	A-13	> 10	28.0
J-16 (7.5D)	B-24 (7.5D)	< 10	2.50
H-15	B-17	< 10	8.00
F-15 (7.5R)	B-7 (7.5R)	> 10*	5.60
F-16 (7.5R)	B-8 (7.5R)	> 10	58.0
F-16 (7.5L)	B-8 (7.5L)	> 10	10.0
F-17	B-9	< 10	0.240
G-15	B-12	> 10	13.0
J-15	B-23	> 10	160
L-15-D	E-15-D	< 10	2.20
L-15	E-15	< 10	1.60
O-3	C-3	< 10	8.50
L-9	E-9	> 10	16.0

Continued...

**Naval Station, Roosevelt Roads
Site 16 (Continued)
Sample Screening and Laboratory Results
for Total PCBs**

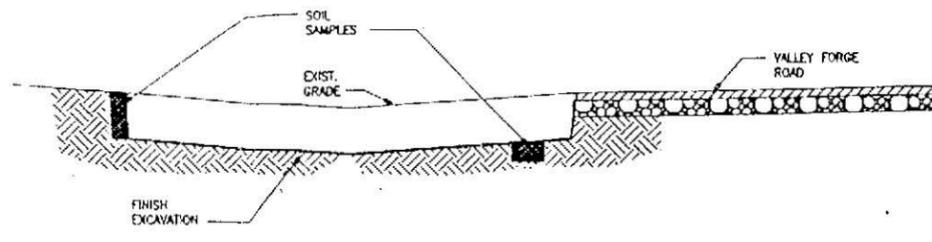
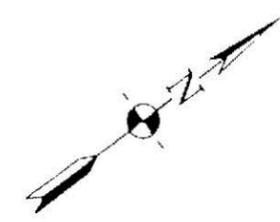
Grid Map Sample No. Locations	Area Map Sample No. Locations (Dwg. C-16)	Screening Results (ppm)	Lab Confirmation Results (mg/kg=ppm)
P-5	C-11	> 10	160
Q-4	C-15	< 10	0.240
Q-4-D	C-15-D	< 10	0.220
K-14	E-7	> 10*	5.50
P-3 (7.5U)	C-9 (7.5U)	> 10*	8.70
G-15 (7.5R)	B-12 (7.5R)	< 10**	11.0

* False positive field screening result

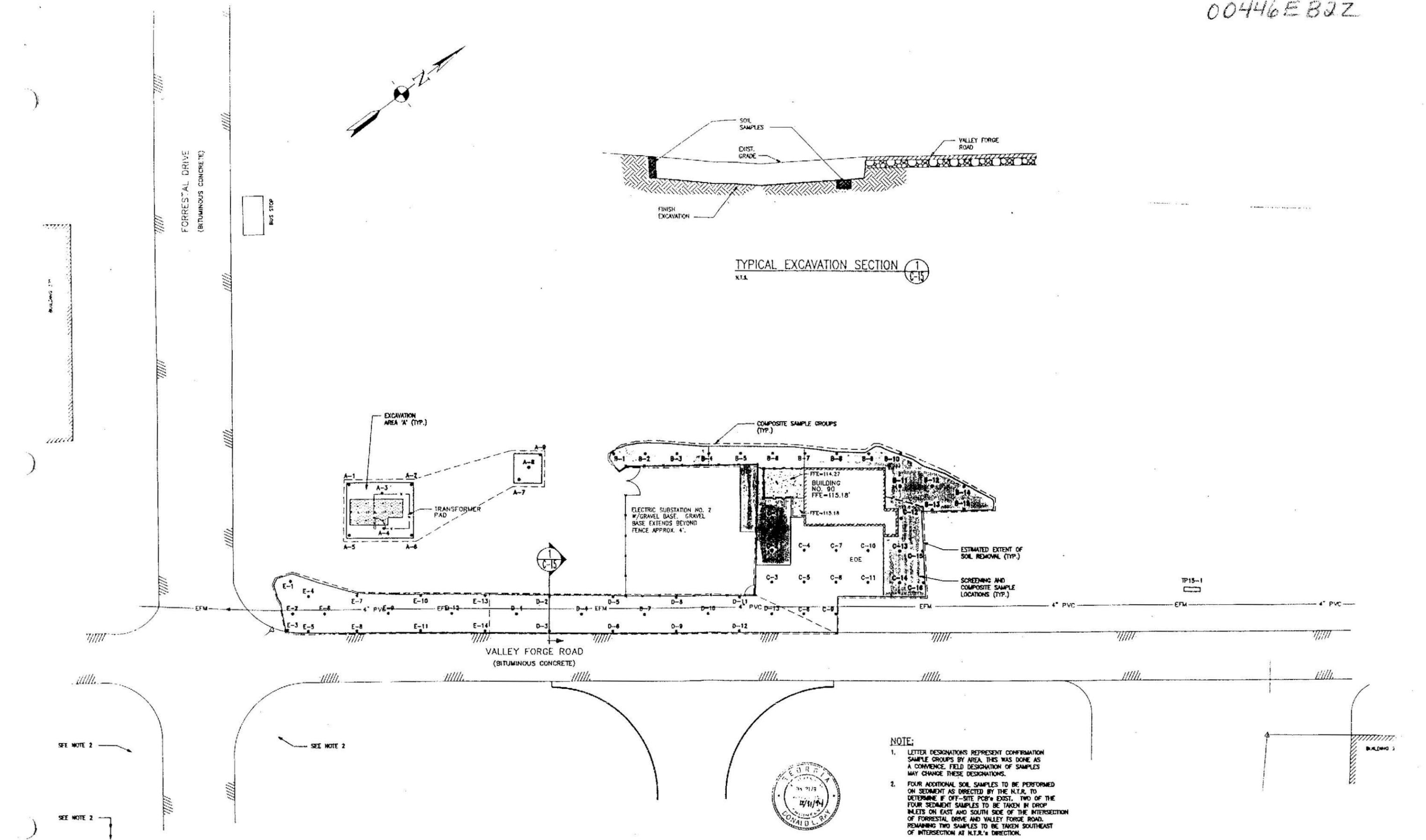
** False negative field screening result

-D Duplicate sample

() Distance from original sample location in feet and direction (R-right, L-left, U-up, D-down)



TYPICAL EXCAVATION SECTION
N.T.S. (1) C-15



- NOTE:
- LETTER DESIGNATIONS REPRESENT CONFIRMATION SAMPLE GROUPS BY AREA. THIS WAS DONE AS A CONVENIENCE. FIELD DESIGNATION OF SAMPLES MAY CHANGE THESE DESIGNATIONS.
 - FOUR ADDITIONAL SOIL SAMPLES TO BE PERFORMED ON SEDIMENT AS DIRECTED BY THE N.T.R. TO DETERMINE IF OFF-SITE PCB'S EXIST. TWO OF THE FOUR SEDIMENT SAMPLES TO BE TAKEN IN DROP INLETS ON EAST AND SOUTH SIDE OF THE INTERSECTION OF FORRESTAL DRIVE AND VALLEY FORGE ROAD. REMAINING TWO SAMPLES TO BE TAKEN SOUTHEAST OF INTERSECTION AT N.T.R.'S DIRECTION.



M&E METCALF & EDDY

DATE: 5-26-93

SCALE: GRAPHIC SCALE

ATLANTIC DIVISION

NAVAL STATION ROOSEVELT ROADS, P.R.

INTERIM REMEDIAL ACTION, SOILS OPERABLE UNIT

SITES 15 & 17

SITE 15 - RECOMMENDED SOIL SAMPLE LOCATIONS

JOB: 010661

FILE NO.: 0001

DATE: 05/15/93

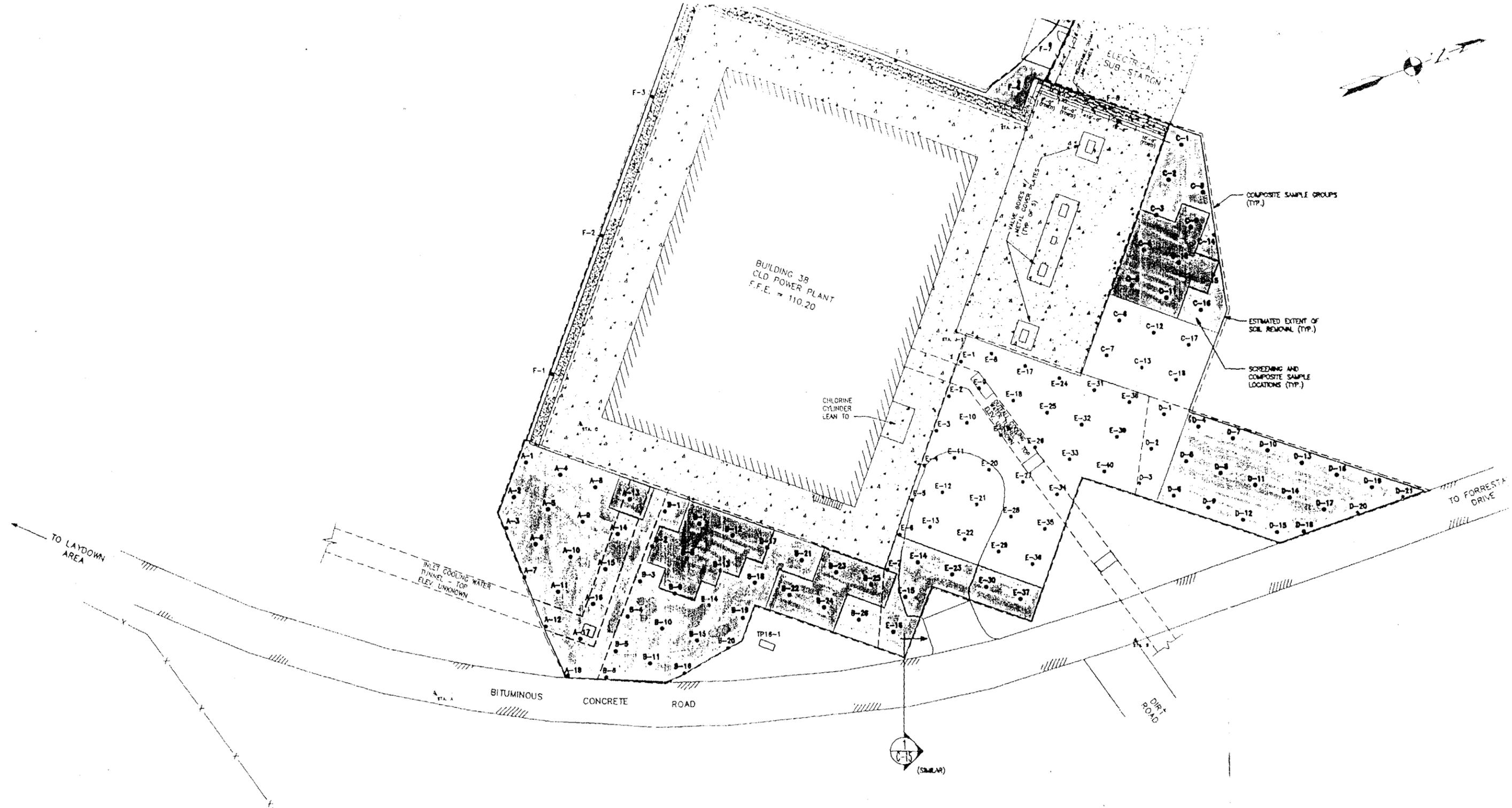
SHEET: C-15

DRAWN BY ROS 11/17/92	DEPT. CHECK	RRM	PROJ. CHECK	SC

OHM Remediation Services Corp.

SEE NOTE 2

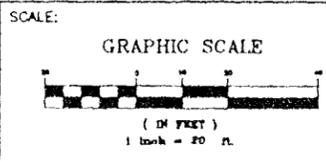
SEE NOTE 2



NOTE:
 1. LETTER DESIGNATIONS REPRESENT CONFIRMATION SAMPLE GROUPS BY AREA. THIS WAS DONE AS A CONVENIENCE. FIELD DESIGNATION OF SAMPLES MAY CHANGE THESE DESIGNATIONS.



M&E METCALF & EDDY
 Donald L. Ray
 5-26-92



ATLANTIC DIVISION
 NAVAL STATION ROOSEVELT ROADS, P.R.
 INTERIM REMEDIAL ACTION, SOILS OPERABLE UNIT
 SITES 15 & 16
 SITE 16 - RECOMMENDED SOIL SAMPLE LOCATIONS

JOB_010661
 FILE NO. 0001
 DATE: 05/15/93
 SHEET C-16

DRAWN BY
 ROS
 11/17/92
 DEPT. CHECK
 RRM
 PROJ. CHECK
 SC

OHM
 Remediation
 Services Corp.

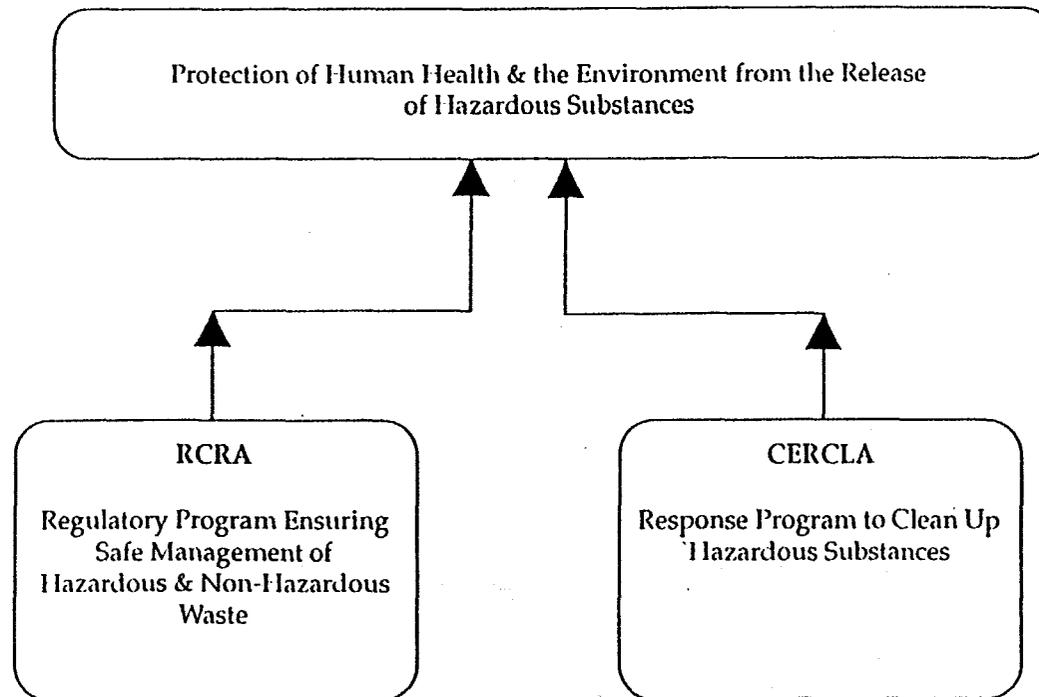
Current Status Site 21 Building 121 Closure

- **Contract issued Aug 1993**
- **Building 121 decontaminated (no scabbling required)**
- **Concentrations of Zn above actions level of 20 mg/Kg as established in approved closure plan (removed approx. 12 CY of soil)**
- **Awaiting completion of Transportation and Disposal**

U. S. Naval Station Roosevelt Roads
Installation Restoration Program

RCRA & CERCLA

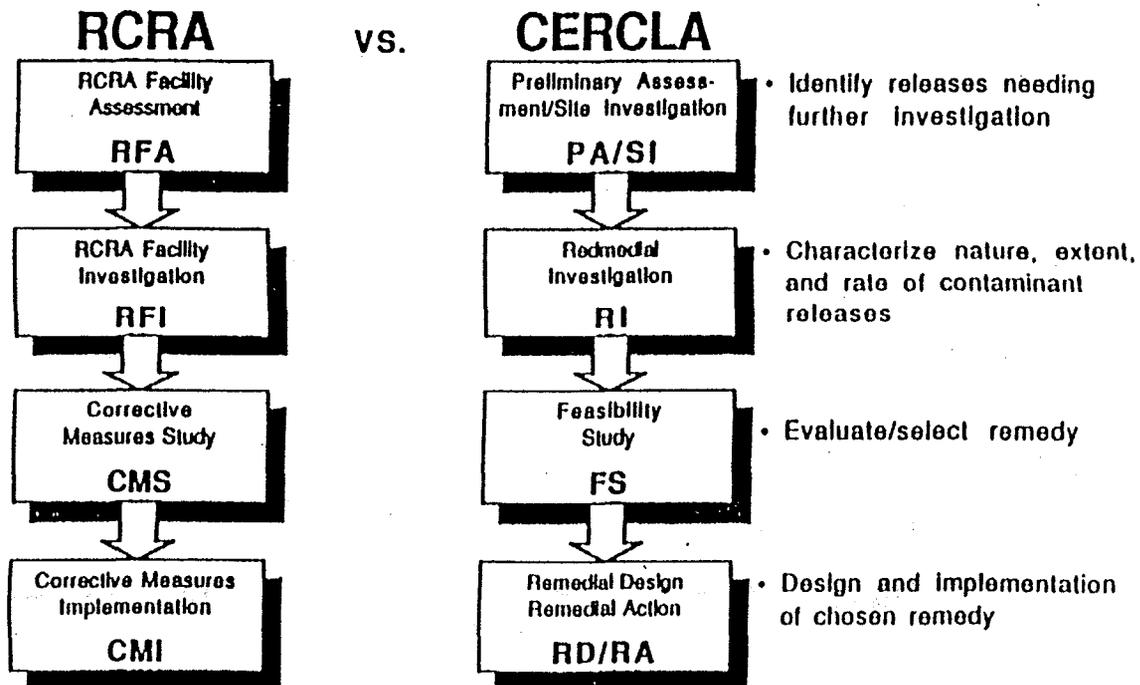
Two Different Approaches to a Common Goal



U. S. Naval Station Roosevelt Roads
Installation Restoration Program

RCRA & CERCLA:

COMPARISON OF RCRA CORRECTIVE ACTION AND CERCLA REMEDIAL PROCESSES*



* Interim Measures may be performed at any point in the corrective action process.

U. S. Naval Station Roosevelt Roads
Installation Restoration Program

**RESTORATION
ADVISORY
BOARDS**

GOALS OF RABS

- **DEVELOP CONSENSUS
RECOMMENDATIONS**
- **IMPROVE DECISION MAKING PROCESS**
- **REFLECT PRIORITIES AND CONCERNS OF
STAKEHOLDERS**

PURPOSE OF RABS

- **ACT AS A FORUM FOR DISCUSSION AND EXCHANGE OF INFORMATION BETWEEN AGENCIES AND THE COMMUNITY**
- **PROVIDE AN OPPORTUNITY FOR STAKEHOLDERS TO REVIEW PROGRESS AND PARTICIPATE IN DECISION MAKING PROCESS**

NAVY POLICY

- **ESTABLISH RABS AT ALL INSTALLATIONS IN THE ENVIRONMENTAL RESTORATION PROGRAM**
- **EXPAND EXISTING TRCS TO INCLUDE ADDITIONAL COMMUNITY REPRESENTATIVES**
- **ESTABLISH NAVY AND COMMUNITY CO-CHAIRS FOR ALL RABS**
- **OPEN MEETINGS TO THE PUBLIC**
- **KEEP RABS FOCUSED ON ENVIRONMENTAL RESTORATION/CLEANUP**

MEMBERSHIP OF RAB

- **INSTALLATION**
- **ENGINEERING FIELD
DIVISION/ENGINEERING FIELD ACTIVITY**
- **ENVIRONMENTAL PROTECTION AGENCY**
- **STATE ENVIRONMENTAL ORGANIZATION**
- **LOCAL GOVERNMENTS**
- **REPRESENTATIVES OF COMMUNITY
INTERESTS OR GROUPS**
- **INTERESTED INDIVIDUALS**

OBTAIN NOMINATIONS FOR RAB MEMBERSHIP

- **ASK MEMBERS OF TRC/BRAC CLEANUP TEAM FOR RECOMMENDATIONS (AT BASES WITH NO TRC OR BRAC CLEANUP TEAM ASK REGULATORS**
- **RE-CONTACT CITIZENS INTERVIEWED DURING DEVELOPMENT OF COMMUNITY RELATIONS PLAN OR INTERVIEW CITIZENS TO SOLICIT NOMINATIONS**
- **SOLICIT ANNOUNCEMENTS THROUGH NEWSPAPER AND MAILING LIST**

SELECTING COMMUNITY MEMBERS

- **DETERMINE OPTIMUM SIZE OF RAB**
- **ESTABLISH NUMBER OF COMMUNITY MEMBERS TO BE ADDED BASED ON ISSUES/CONCERNS/GROUPS**
- **ANNOUNCE RESPONSIBILITIES OF RAB MEMBERS, SELECTION PROCEDURE AND NUMBER OF COMMUNITY MEMBERS TO BE SELECTED**
- **IDENTIFY POTENTIAL NEW MEMBERS**
- **OBTAIN NOMINATIONS/CREATE SLATE OF CANDIDATES**
- **SELECT COMMUNITY MEMBERS**
- **ANNOUNCE NEW MEMBERS**

SELECTING CO-CHAIRS

- **NAVY CO-CHAIR**
 - APPOINTED BY THE INSTALLATION CO
- **COMMUNITY CO-CHAIR**
 - SELECTED BY THE COMMUNITY MEMBERS
 - USE PROCESS ESTABLISHED BY THE COMMUNITY MEMBERS
 - HAVE THE COMMUNITY MEMBERS ESTABLISH THE TERMS AND CONDITIONS FOR COMMUNITY CO-CHAIR

RESPONSIBILITIES OF COMMUNITY CO-CHAIR

- **ENSURE THAT COMMUNITY ISSUES AND CONCERNS ARE BROUGHT TO THE TABLE**
- **ASSIST IN COMMUNICATING TECHNICAL INFORMATION TO STAKEHOLDERS**
- **ASSIST IN DISSEMINATING INFORMATION TO THE PUBLIC**
- **COORDINATE WITH THE NAVY CO-CHAIR TO PREPARE AND DISTRIBUTE AN AGENDA PRIOR TO EACH MEETING**
- **WORK WITH THE NAVY CO-CHAIR TO REVIEW AND DISTRIBUTE THE MINUTES**

RESPONSIBILITIES OF NAVY CO-CHAIR

- **ENSURE NAVY CONSIDERS AND RESPONDS TO COMMENTS**
- **ENSURE COMMUNITY MEMBERS ARE GIVEN ADEQUATE TIME TO PRESENT CONCERNS**
- **CO-ORDINATE WITH THE COMMUNITY CO-CHAIR TO PREPARE AND DISTRIBUTE AN AGENDA PRIOR TO EACH RAB MEETING**
- **ADVERTISE MEETINGS**
- **PROVIDE ADMINISTRATIVE SUPPORT FOR THE RAB**
- **BE RESPONSIBLE FOR THE MINUTES**

RESPONSIBILITIES OF NAVY CO-CHAIR (CONT.)

- **REFER NON-CLEANUP ISSUES TO APPROPRIATE NAVY OFFICIALS**
- **WORK WITH COMMUNITY CO-CHAIR TO ESTABLISH A PROCESS FOR PUBLIC REVIEW OF DOCUMENTS**
- **PUBLISH THE PROCESS FOR PUBLIC REVIEW AND COMMENT**
- **PROVIDE DRAFT COMMENTS TO RAB**
- **PUBLISH THE REQUIREMENTS AND TERMS OF COMMUNITY MEMBERS AFTER THEY ARE DETERMINED BY TRC, STEERING COMMITTEE, OR OTHER**

RAB MEETINGS

- **OPEN RAB MEETINGS TO THE PUBLIC**
- **SELECT TIME AND PLACE FOR MEETINGS TO PERMIT PUBLIC ATTENDANCE**
- **ANNOUNCE MEETINGS IN ADVANCE THROUGH ANNOUNCEMENTS IN LOCAL NEWSPAPERS AND MAILINGS TO PARTIES ON THE MAILING LIST**
- **DISTRIBUTE MINUTES TO RAB MEMBERS**
- **HAVE RAB MEMBERS ESTABLISH PROCEDURES FOR THE CONDUCT OF THE RAB MEETINGS**

29 APR 94

**PLAN OF ACTION AND MILESTONES
FOR RESTORATION ADVISORY BOARD
ESTABLISHMENT**

ITEM	RESPONSIBILITY	DUE DATE
CONDUCT TRC MEETING * Introduce RAB * Ask for suggestions on: - How to establish RAB - RAB members	TRC MEMBERS	10 MAY 94
DEVELOP MAILING LIST OF INTERESTED PARTIES * Re-contact citizens interviewed during CRP * Sent letters to individuals recommended by TRC	PAO/IR COORD	30 MAY 94
PLACE ANNOUNCEMENTS IN LOCAL PAPERS * Explain RAB * Solicit nominations * Announce public meeting	PAO	30 MAY 94
HOLD A PUBLIC MEETING * Explain RAB * Solicit nominations	PAO/IR COORD	10 JUN 94
SELECT RAB MEMBERS	TRC MEMBERS	01 JUL 94
CONTACT RAB MEMBERS * Decide on fist RAB members meeting	PAO	15 JUL 94
ANNOUNCE RAB MEMBERS AND FIRST RAB MEETING BY LOCAL MEDIA	PAO	30 JUL 94
CONDUCT FIRST RAB PUBLIC MEETING * Introduce RAB members * Elect community co-chair * Establish terms and conditions for community co-chair. * Establish meeting process and schedule	PAO/IR COORD	26 AUG 94
ANNOUNCE BY FACT SHEET AND LOCAL PAPERS THE ESTABLISHMENT OF RAB, CO-CHAIRS' NAMES AND TELEPHONES, AND MEETING SCHEDULE	PAO	30 SEP 94

NOTES:

- 1) PUBLIC NOTICES HAVE TO BE IN ENGLISH AND SPANISH**
- 2) NEED A TRANSLATOR AT THE PUBLIC MEETING (\$\$\$\$)**
- 3) EPA AND EFD NEED TO TRAVEL FOR EACH MEETING**

09.04-05/10/94 00446
(CONTINUED)

RCRA Corrective Action Supplemental Investigation

and

Future Work



Baker

Baker Environmental, Inc.

May 10, 1994

TRC Meeting

RCRA Steps to Date

1. NSRR Filed for a Part B - RCRA Process started
2. EPA did an RFA in 1988
3. EPA makes decision to change from CERCLA to RCRA
4. EPA does confirmatory site visit (augments RFA) in June 1993
5. EPA issues Draft Part B Permit for DRMO which contains corrective action provisions

Baker

Baker Environmental, Inc.

May 10, 1994

TRC Meeting



Disposition of SWMUs

3 Choices:

- ◆ No Further Action Required
- ◆ First Phase RFI Required
- ◆ Full RFI Required

Decision based on existing investigation information or potential for release as indicated by waste type, length of service, records of spills or other information.



May 10, 1994

TRC Meeting



Scope of Supplemental Investigation

Sites Included:

- ◆ Site 5 - Army Cremator Disposal Area (SWMU 1)
- ◆ Site 6 - Langley Drive Disposal Area (SWMU 2)
- ◆ Site 7 - Station Landfill
- ◆ Site 10 - Building 25 Storage Area
- ◆ Site 13 - Tanks 210 - 217
- ◆ Site 14 - Ensenada Honda Shoveline and Mangroves
- ◆ Site 16 - Old Power Plant, Building 38
- ◆ Site 18 - Bldg. 128, Pest Control Shop & Surrounding Area
- ◆ Site 21 - Building 121, Old Pesticide Storage

Baker

Baker Environmental, Inc.

May 10, 1994

TRC Meeting



Scope of Supplemental Investigation *(cont.)*

Work Elements:

- ◆ Historical Photo Interpretation
- ◆ Geophysical Investigations
- ◆ Groundwater Measurements
 - ▶ Hydraulic Conductivity
 - ▶ Elevation
- ◆ Sampling of Groundwater
- ◆ Sampling of Soil
- ◆ Sampling of Sediment
- ◆ Comparison of Data to CS results
- ◆ Risk Assessment



May 10, 1994 TRC Meeting



Discussion Approach

Each SWMU requiring a First Phase or Full RFI will be discussed as follows:

- ◆ Basis for classification as SWMU
- ◆ Information presently available
 - ▶ confirmation study
 - ▶ supplemental investigation results
 - ▶ other information
- ◆ Plans for future investigations



Analytical Data

Confirmation Study/Supplemental Investigation

- ◆ **Confirmation Study Analytics**
 - ▶ Somewhat higher detection levels than presently available
 - ▶ No data validation

- ◆ **Supplemental Investigations Analytics**
 - ▶ Rigorous CLP Protocols followed
 - ▶ Low detection limits
 - ▶ Third Party Data Validation



May 10, 1994

TRC Meeting



Analytical Data *(cont.)*

Results of the SI validated findings of the CS

- ◆ **Compounds not detected during the CS were also generally not detected in the SI**
- ◆ **Validated data of SI showed the analytical methods and results of the CS to be reliable**



Analytical Data *(cont.)*

Semi-Volatile Data

Much of the SI semi-volatile data was "qualified" during data validation. The proper calibrations were not done in conjunction with these samples but were done before and after. This is procedurally wrong. Resulted in elevated CRQLs.

Data is still valid for positive and negative detections. Data was useable for risk assessment.



May 10, 1994

TRC Meeting



SWMU 1 - Former Cremator Disposal Site

SWMU Characteristics

Period of use: Early 1940s - early 1960s

Wastes Managed:

A wide variety of industrial and residential wastes

Waste Management Techniques:

During operation as main base landfill wastes were disposed by piling, burning and compacting. It is estimated that up to 1,000 tons of materials containing toxic constituents could be present.

Disposal may have occurred using trenches.

Reasons for RFI:

- 1. Waste management techniques**
- 2. Wastes managed**
- 3. Volume of wastes**
- 4. Indication of low levels of organics & pesticides**



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SWMU 1 - Former Cremator Disposal Site (cont.)

Supplemental Investigation Results

1. **Historical air photo interpretation and geophysics generally confirmed trench disposal. Sampling, while performed site-wide, was focused in these areas.**
2. **Soil Sampling**
 - ▶ **VOC were found in trace to moderate concentrations (acetone, carbon disulfide, methylene chloride)**
 - ▶ **SVOC - only 1 ubiquitous laboratory artifact was seen at low levels**
 - ▶ **Metals did not exhibit elevated concentrations**
 - ▶ **P/PCB pesticides at low to high concentrations (one 4,4 DDT hit)**
3. **Groundwater**
 - ▶ **No VOC detected**
 - ▶ **Trace concentration of heptachlor found (P/PCB) in 1 sample**
 - ▶ **No SVOC detected (1 lab artifact)**
 - ▶ **Metals were within expected ranges**
4. **Risk Assessment**
 - ▶ **No identifiable risk to sensitive receptors is posed by the site**



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SWMU 1 - Former Cremator Disposal Site (cont.)

Corrective Action Permit Requirements

Full RFIs are required for:

- ◆ **Groundwater**
- ◆ **Surface Water/Sediment**
- ◆ **Soil**

Data Gaps

Based on all available information (including the SI), the NAVY considers only groundwater to be incompletely characterized

- ◆ **Soil has been adequately addressed during the SI**
- ◆ **SW was addressed during investigations at IR Site 14 (not a part of corrective action but reported on in the SI report)**



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SWMU 1 - Former Cremator Disposal Site (cont.)

Proposed Future Investigatory Work

- ◆ **Up to 4 monitoring wells will be installed and sampled.**
 - ▶ **One installed to intercept flow to the north**
 - ▶ **Up to 3 installed to replace existing wells which were recently unable to be located**

- ◆ **Sw-846 methods to be used with third party data validation.**



SWMU 2 - Langley Drive Disposal Site

SWMU Characteristics

Period of use: Early 1940s - early 1960s

Wastes Managed: Approximately 1700 cys of solid and industrial waste

Waste Management Techniques: Unlined waste pile/landfill

Reasons for RFI:

- 1. Waste management techniques (landfill)**
- 2. Wastes managed (industrial/potentially toxic)**
- 3. Indications of lead and selenium release to soils, surface water and groundwater**



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SWMU 2 - Langley Drive Disposal Site (cont.)

Supplemental Investigation Results

◆ Soil Sampling

- ▶ VOC - Trace to moderate concentrations (acetone, benzene, 2-butanone, ethylbenzene, methylene chloride, toluene and xylene)
- ▶ SVOC - no significant concentrations
- ▶ P/PCB - pesticides found randomly at low concentrations
- ▶ Metals - within expected ranges

◆ Groundwater

- ▶ No VOC, SVOC or P/PCB were found at elevated concentrations. Metals found in expected ranges.

◆ Risk Assessment

- ▶ No identifiable risk to sensitive receptors is posed by the site



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SWMU 2 - Langley Drive Disposal Site (cont.)

Corrective Action Permit Requirements

Full RFIs are required for

- ▶ **Soil**
- ▶ **Groundwater**
- ▶ **Surface Water/Sediment**

Data Gaps

Based on all available information (including the SI), the Navy considers only groundwater to be incompletely characterized.

- ▶ **Soil has been extensively sampled**
- ▶ **SW fluxes daily**
- ▶ **Sediments have been sampled**



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SWMU 2 - Langley Drive Disposal Site (cont.)

Proposed Future Investigatory Work

- ◆ **3 additional wells to be installed and sampled.**
 - ▶ **One well to be installed through the area**
 - ▶ **Two wells at downgradient margin**

- ◆ **SW-846 methods to be used with third party data validation**



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SWMU 3 - Base Landfill

SWMU Characteristics

Period of use: Early 1960s to Present

Wastes Managed: General base refuse and industrial waste - possible toxic constituents. Now only residential type waste.

Waste Management Techniques: Unlined, landfilling, trench type

Reasons for RFI:

- 1. Waste management techniques**
- 2. Initial investigations indicate potential metals on GW**
- 3. Volume of waste**



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SWMU 3 - Base Landfill (cont.)

Supplemental Investigation Results

Groundwater was sampled. These results were reported as appropriate to the permitted operation of the landfill. No other sampling was performed. Groundwater indicated trace 1,2-DCE in one well.

Reasons for RFI:

- 1. Waste managed (early industrial waste stream)**
- 2. Volume of waste**
- 3. Indications of metals in groundwater (As, Cr, Pb, Se)**



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SWMU 3 - Base Landfill (cont.)

Corrective Action Permit Requirements

Full RFIs are required for

- ▶ **Soil**
- ▶ **Groundwater**
- ▶ **Surface Water/Sediment**

Data Gaps

Based on all available information (including the SI), the Navy considers:

- ▶ **SW is constantly fluxing**
- ▶ **Active landfill - soil samples would be waste or cover**

Therefore, only sediment remains to be characterized.

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SWMU 3 - Base Landfill (cont.)

Proposed Future Investigatory Work

- ◆ **17 sediment samples will be taken at approximately 500 foot intervals around the peninsula containing the landfill.**



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SWMU 9 - Tanks 212-217 Sludge Burial Pits

SWMU Characteristics

Burial pits dug as needed for the disposal of tank sludge during clean-out. This technique was used at the site from approximately 1940 to 1978.

Reasons for RFI:

- 1. Wastes managed (potential mobility of constituents)**
- 2. Waste management procedures (disposal in open pits)**
- 3. Benzene and toluene have been found in GW during previous investigations**
- 4. No sampling performed during Supplemental Investigation**



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SWMU 9 - Tanks 212-217 Sludge Burial Pits (cont.)

Corrective Action Permit Requirements

Full RFIs are required for

- ▶ **Soil**
- ▶ **Groundwater**

Contingent RFI for:

- ▶ **Surface water/sediment**

(SW/S RFI contingent upon results of initial soils and GW work.)



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SWMU 9 - Tanks 212-217 Sludge Burial Pits (cont.)

Proposed Future Investigatory Work

3 Areas by geography

▶ **Tanks 212 and 213**

**3 soil borings - in areas of suspected pits
2 new monitoring wells - two possible flow paths**

▶ **Tanks 214 and 215**

**4 soil borings - in areas of suspected pits
(groundwater adequately addressed)**

▶ **Tanks 216 and 217**

**3 soil borings - in areas of suspected pits
2 new monitoring wells - downgradient**



SWMU 11 - Old Power Plant/Building 38

SWMU Characteristics

The SWMU consists of Building 38 and surrounding areas. Five areas/environmental media are addressed in the permit.

- ▶ The building interior (used to store PCBs)**
- ▶ Cooling Tunnels**
- ▶ Groundwater under the site**
- ▶ SW/S at the cooling tunnels outfall and intake**
- ▶ Soils surrounding the 50,000 gallon tanks**

Reasons for RFI:

- 1. Site History**
- 2. Wastes managed**
- 3. Known releases (PCBs in cooling tunnels).**



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SWMU 11 - Old Power Plant/Building 38 (cont.)

Supplemental Investigation Results

Sediments were sampled in Puerca Bay at the outfall. One qualified detection of PCB (very low level) and minor pesticides were found. The intake could not be found in Esenada Honda.

Additional extensive geophysics could not trace the cooling tunnel to Ensenada Honda.



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SWMU 11 - Old Power Plant/Building 38 (cont.)

Corrective Action Permit Requirements

Full RFIs are required for

- ▶ **Soil**
- ▶ **Groundwater**
- ▶ **Surface Water/Sediment**

Data Gaps

Based on all available information (including the SI), the Navy considers RFIs necessary for:

- ▶ **The building interior**
- ▶ **The cooling tunnels**
- ▶ **Soils associated with the 50,000 gallon tanks**

**Surface water and sediments are adequately characterized.
Groundwater investigations should be contingent on clean-up
and RFI findings**

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SWMU 11 - Old Power Plant/Building 38 (cont.)

Proposed Future Investigatory Work

Building Interior

- ▶ **Grid Sampling Program**

Cooling Tunnels

- ▶ **Tunnel tracing**
- ▶ **Sediment sampling in tunnels**

50,000 gallon tanks

- ▶ **4 soil borings with sampling**
- ▶ **Contents of tanks will be analyzed and removed**

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SWMU 45 - PCB Spill Area/Old Power Plant

The need for an RFI will be based on the results of on-going remedial measures.



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AOC B - Building 25

SWMU Characteristics

Area formerly used to store wastes and raw materials

Reasons for RFI:

IR Site 10 (of which AOC B is a part) groundwater contained detections of As, Se, Cr, and Pb during early investigation



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AOC B - Building 25 (cont.)

Supplemental Investigation Results

- ▶ Samples of soil and groundwater
- ▶ Trace P/PCB found
- ▶ Some SVOC found
- ▶ Metals found within expected ranges

Corrective Action Permit Requirements

Full RFIs are required for

- ▶ Soil
- ▶ Groundwater

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AOC B - Building 25 (cont.)

Proposed Future Investigatory Work

- ◆ **2 soil borings through the pad area**
- ◆ **Available soil sampling results from Building 145**
- ◆ **3 monitoring wells - triangular pattern. One upgradient; two downgradient**



SWMU 6 - Building 145

SWMU Description

Partially underground, concrete bunker formerly used for storage of paints, etc.

RFI Requirements

A First Phase RFI is required for soils

Proposed Investigatory Work

- ▶ 3 soil borings with sampling**
- ▶ Standing water sampling**



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SWMU 10 - Substation 2 / Building 90

- ◆ **Area contaminated with PCBs**
- ◆ **Clean-up is presently underway**
- ◆ **RFI activities contingent upon remedial action**



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SWMU 12 - Fire Training Pit Oil/Water Separator

SWMU Description

Unit manages oily water discharging from fire training pits during training exercises

RFI Requirements

A First Phase RFI is required for soils

Proposed Investigatory Work

- ▶ **Soil sampling at 4 locations (surficial)**

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SWMU 13 - Old Pest Control Shop / Building 258

Sampling done during the Supplemental Investigation fulfills RFI requirements.

Results of SI indicates there is no significant risk posed by this site to human health or the environment.



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SWMU 14 - Fire Training Pit Area

SWMU Description

Concrete, stone filled, pit used in fire fighting training

RFI Requirements

A First Phase RFI is required for soils

Proposed Investigatory Work

- ▶ **Limited Slam-bar soil gas survey**
- ▶ **Soil sampling based on soil gas survey (minimum 5 locations)**

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SWMU 19 - Building 121 - Discarded Pesticide Storage Area

- ◆ **Area contaminated with pesticides**
- ◆ **Presently undergoing RCRA closure**
- ◆ **No RFI required assuming closure successfully completed**



SWMU 23 - Oil Spill Separator Tanks

SWMU Description

Three aboveground steel tanks with concrete curbing on three sides

RFI Requirements

First Phase RFI for soil required. Contingent RFI for groundwater

Proposed Investigatory Work

- ▶ 2 soil samples selected based on site conditions**



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SWMU 24 - Oil Spill Oil/Water Separator and Pad

SWMU Description

**Oil/water separator used in conjunction with spill
clean-up activities**

RFI Requirements

A First Phase RFI is required for soils

Proposed Investigatory Work

- ▶ **A single soil sample from a field selected
location will be collected**



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SWMU 25 - DRMO Storage Yard

SWMU Description

An area within the DRMO yard where wastes were once stored. Most recently, the area could not be located.

RFI Requirements

A First Phase RFI for soils is required

Proposed Investigatory Work

- ▶ 4 surficial soil samples will be taken from field selected locations**



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SWMU 26 - Building 544 Area

SWMU Description

Area behind the former Building 544 where drums were stored

RFI Requirements

A First Phase RFI is required for soils

Proposed Investigatory Work

- ▶ Locate area**
- ▶ Perform slam-bar soil gas survey**
- ▶ Sample surficial soils as appropriate**



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SWMU 31 - Waste Oil Collection Area Buildings 31 and 2022

SWMU Description

**Pad used to accumulate containers of waste oil.
Staining outside of containment is evident.
Also, area near Building 31 formerly used to
store waste.**

RFI Requirements

A First Phase RFI for soils is required

Proposed Investigatory Work

- ▶ 5 soil borings to bottom of contamination or groundwater**
- ▶ 1 monitoring well**
- ▶ Additional soil borings as necessary**

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SWMU 32 - PWD Storage Yard / Battery Collection Area / Building 31

SWMU Description

**General area where used batteries were
formerly stored**

RFI Requirements

A First Phase RFI for soils is required

Proposed Investigatory Work

- ▶ Slam-bar soil gas survey**
- ▶ Up to 5 soil borings**
- ▶ 1 monitoring well in center of area**



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SWMU 37 - Waste Oil Storage Area Building 200

SWMU Description

Container storage area for waste oils, etc. One small area of possible release was noted.

RFI Requirements

A First Phase RFI for soils is required

Proposed Investigatory Work

- ▶ Slam-bar soil gas survey on two grassed sides**
- ▶ Soil sampling as appropriate**



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SWMU 39 - Building 3158 Former Battery Drain Area

SWMU Description

- ▶ **Originally an open-sided, covered, concrete pad where liquids from battery draining was collected**
- ▶ **Now a grassed area - pad has been removed**

RFI Requirements

A First Phase RFI for soils is required

Proposed Investigatory Work

- ▶ **3 near surface soil samples to be collected**
- ▶ **Analysis only for metals**



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SWMU 46 - Pole Storage Yard Covered Pad

SWMU Description

- ▶ **Formerly used for storage of electrical equipment**
- ▶ **Now used for under 90 day waste accumulation**

RFI Requirements

A First Phase RFI is required for soils

Proposed Investigatory Work

- ▶ **6 near surface soil samples**
- ▶ **4 wipe samples on pad for PCBs**



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SWMU 51 - New AIMD Storage Pad Building 379

SWMU Description

**Curbed, covered, waste storage area surrounded
by asphalt pavement**

RFI Requirements

A First Phase RFI for soils is required

Proposed Investigatory Work

- ▶ **5 soil sampling locations on the soil adjacent to
the asphalt. Regularly spaced or where possible
releases are visible**



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AOC C - Transformer Storage Pad

SWMU Description

3 separate, contained, pads used to store transformers and other electrical equipment. PCB containing materials are present.

RFI Requirements

A First Phase RFI is required for soils

Proposed Investigatory Work

- ▶ **14 soil samples locations effectively surrounding the pads**
- ▶ **Up to 6 additional soil samples as a visual inspection indicates the need**

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Summary

1. **A RCRA Corrective Action will be issued.**
2. **The Navy has done significant investigatory work applicable to identified SWMUs. This has or will be provided for agency review.**
3. **The Navy's additional work has negated the need for some RFIs or RFI elements.**
4. **The Navy has proposed a general scope of RFI activities for each applicable site in the Corrective Measures Evaluation Study.**

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