



DEPARTMENT OF THE NAVY
NAVAL SUBMARINE BASE NEW LONDON
GROTON, CONNECTICUT 06349-5000

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28 September 2004

From: Commanding Officer, Naval Submarine Base New London
To: Distribution

Subj: RESTORATION ADVISORY BOARD (RAB) MEETING

Encl: (1) Proposed Agenda
(2) Draft 5 May 04 RAB Minutes

1. The next RAB meeting has been scheduled for October 5, 2004 at 6:30 pm, at the Best Western Olympic Inn, 360 Route 12, Groton, CT (860) 445-8000. This meeting will be held in conjunction with the public meeting to discuss the results of the Remedial Investigations (RIs)/Feasibility Studies (FSs) and to present the Proposed Plans for cleanup of environmental issues under the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) related to the groundwater at the following sites:

- Site 3 – Area A Downstream Watercourses
- Site 7 – Torpedo Shops
- Site 14 – Over Bank Disposal Area Northeast (OBDANE)
- Site 15 – Spent Acid Storage and Disposal Area (SASDA)
- Site 18 – Solvent Storage Area
- Site 20 – Area A Weapons Center

2. The local press and public are invited to attend this meeting. Questions from the public are welcome during this meeting.

3. Enclosure (1) is the meeting agenda. Enclosure (2) is the draft minutes from the previous RAB meeting. Please contact Ms. Melissa Cokas at (860) 694-5191, if you have any questions.

DAVID D. DOROCZ
Environmental Director
By direction of
the Commanding Officer

**SUBMARINE BASE NEW LONDON
RESTORATION ADVISORY BOARD
MEETING**

6:30 PM October 5, 2004

Best Western Olympic Inn
360 RT. 12, Groton, CT

AGENDA

- | | | |
|----|--|------------|
| 1. | Public Meeting Introducton
Mark Evans, <i>EFA Northeast</i> | 10 Minutes |
| 2. | SUBASE Proposed Remedial Action Plan for OU9
Mr. Corey Rich, <i>TTFW</i> | 45 minutes |
| 3. | Formal Questions
Open to Public | 25 minutes |
| 4. | Review of Previous Minutes and Set Future Meeting Date
Melissa Cokas, <i>SUBASE NLON</i> | 10 Minutes |

Enclosure (1)

Subj: RESTORATION ADVISORY BOARD (RAB) MEETING

Distribution:

SUBASENLON (Commanding Officer)
EFANE (Mark Evans)
CTDEP (Mark Lewis)
CINCLANTFLT (Mark Dussia)
USEPA (Kymberlee Keckler)
NE Region PAO
NE Region REC (Andy Stackpole)
New London Health Dept. (Brain Savageau)
Ledgelight Health District (Felix Prokop III)
Uncas Health District (Arthur Cohen)
Town of Waterford (Thomas Wagner)
ATSDR (Carole Hossam)
Town of Groton (Deborah Jones)
City of New London (Pamela Kilbey-Fox)
CT Dept. of Agriculture (Jim Citak)
NOAA (Kenneth Finkelstein, Ph.D.)
Groton City Conservation Commission (L.J. Chmura, Chairman)
Groton City Conservation Commission (Dave Paskausky)
TTFW (Corey Rich)
TTFW (Joe Fischl)
TTFW (Larry Kahrs)
TTFW (Patricia Barry)
Connecticut College/Botany Dept.
NCIS (Mr. Richard Dawelius)
EPA Region I Community Relations Coordinator (Ms. Pam Harting-Barrat PhD)
EA Engineering (Mr. Charles McLeod)
New London Day (Mr. Robert Hamilton)
Mr. Bernard Boylan
Mr. Steve Cicoria
Mr. Noah Levine
Mr. Larry Gibson
Mrs. Deborah Motycka Downie
Mr. Andrew Parrella
Ms. Susan Orill
Mr. Norman Richards
Mr. Harry Watson
Mr. John Vitkevich
Batelle Corporation (Ms. Patty White)
Mr. John Nugent (CT College Government Dept.)
Mr. Darren Gainer (ECC)
Ms. Virginia de Lima (USGS)

Meeting Minutes

Restoration Advisory Board Installation Restoration Program Naval Submarine Base New London Groton, Connecticut

5 May 2004

Attendees:

Melissa (Griffin) Cokas (NLSB)
Noah Levine (RAB Member)
Deborah Downie (RAB Community Co-Chair)
Mark Lewis (CTDEP)
John Vitkevich (NSNPT RAB Member)
Patricia (Gohring) Barry (TTFW)

1. RAB members met at the SUBASE New London Pass and ID office at 11:45 am. Everyone was signed in and given tour handouts (attachment 1). The group then proceeded by van to the Site 7 Torpedo Shops. Ms. Melissa (Griffin) Cokas opened the RAB meeting at 12:15 pm giving an overview of the Torpedo Shop site. The historical contamination sources were described and the locations were identified. The potential disposal of solvents and chemicals into two septic systems and leaks and spills from former underground storage tanks were discussed. The proposed remedy, excavation of 1600 cubic yards of Polycyclic Aromatic Hydrocarbon (PAH) contaminated soils and 90 cubic yards of benzene contaminated soils with offsite disposal at an approved treatment, storage and disposal facility (TSDF), followed by verification sampling and site restoration to pre-remedial conditions, was explained to the attendees. After walking the site, the group proceeded to the Area A Downstream site.
2. The tour of Area A Downstream began at the entrance gate in the northwest portion of the site. Ms. Patricia (Gohring) Barry was introduced and began her presentation with a poster display and some map handouts (attachment 2). Ms. Barry gave the current status of the site and mentioned that EPA was presently reviewing the Year 3 Long Term Monitoring Report including the Post-Remedial Wetland Delineation and Functions and Values Assessment. After the overview, the group began a walking tour of the entire site. Ms. Barry pointed out the fact that the invasive species, cattail (*Typha* sp.) and common reed (*Phragmites australis*) had been nearly eliminated from on-site restored wetlands. The restoration appeared to be a success with limited invasive species present and a healthy, valuable, native species dominated vegetative wetland community covering the site. Extra time was taken to show the group the newly created vernal pool on the site. The group commented on the site looking great. At the conclusion of the tour the everyone boarded the van again to return to their cars.

3. The members discussed postponing the next RAB meeting, as August is usually a difficult time to meet. It was left that the scheduling of the next meeting would be determined by phone and email. Having no further business, Ms. Cokas closed the RAB meeting at 1:30 PM.

Torpedo Shops

- **Historical Contamination Sources:**

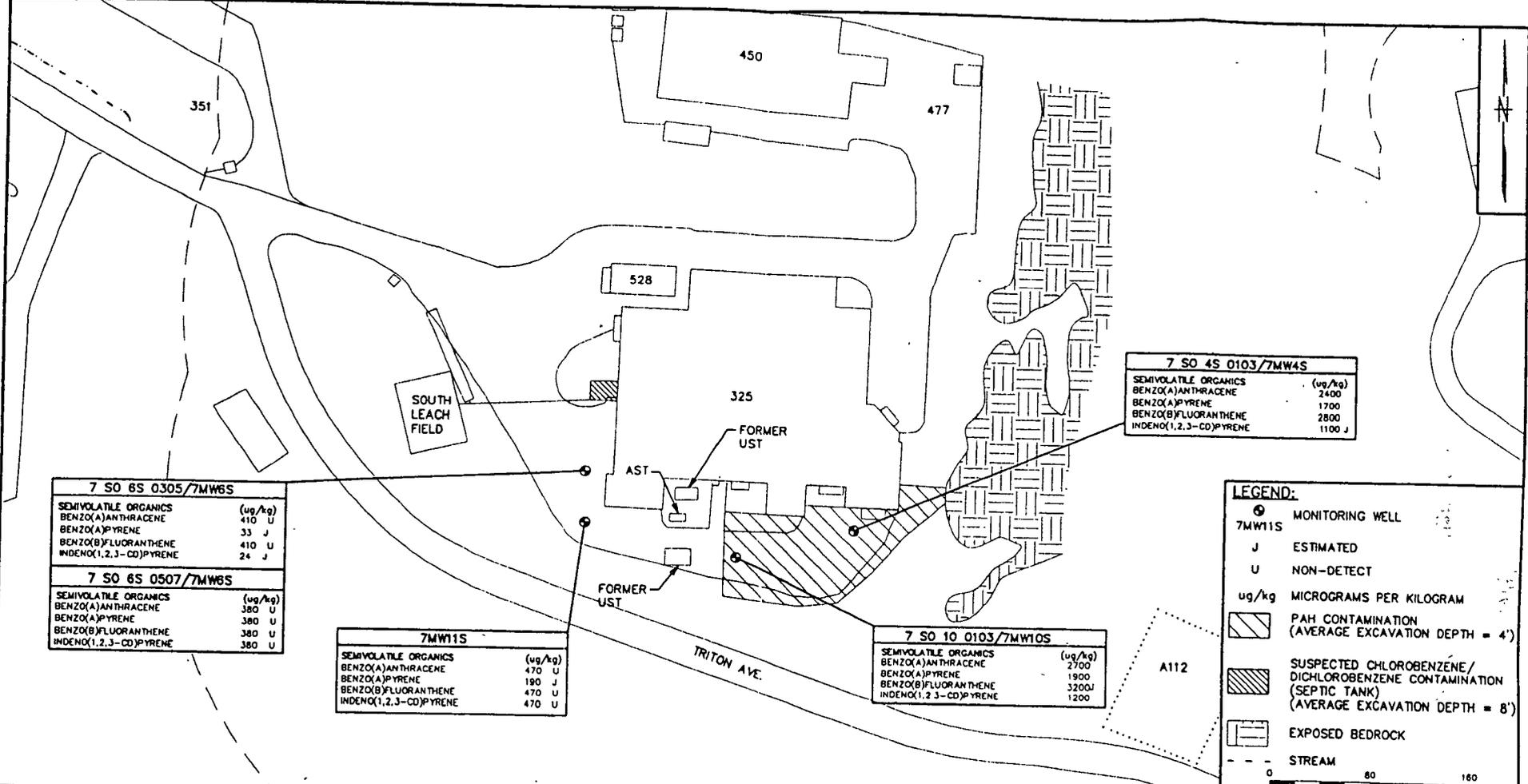
- Potential Disposal of Solvents/Chemicals into 2 septic systems
- Leaks/Spills from Former USTs

- **Proposed Remedy:**

- Excavation of
 - 1600cy PAH Contaminated Soils
 - 90cy Benzene Contaminated Soils
- Off-Site Disposal @ Approved TSDF
- Verification Samples
- Site Restoration
 - Backfilling, Restoring Surface to Pre-remedial Condition
- **Public Meeting – June '04 (Date TBD)**

Wetlands Area A

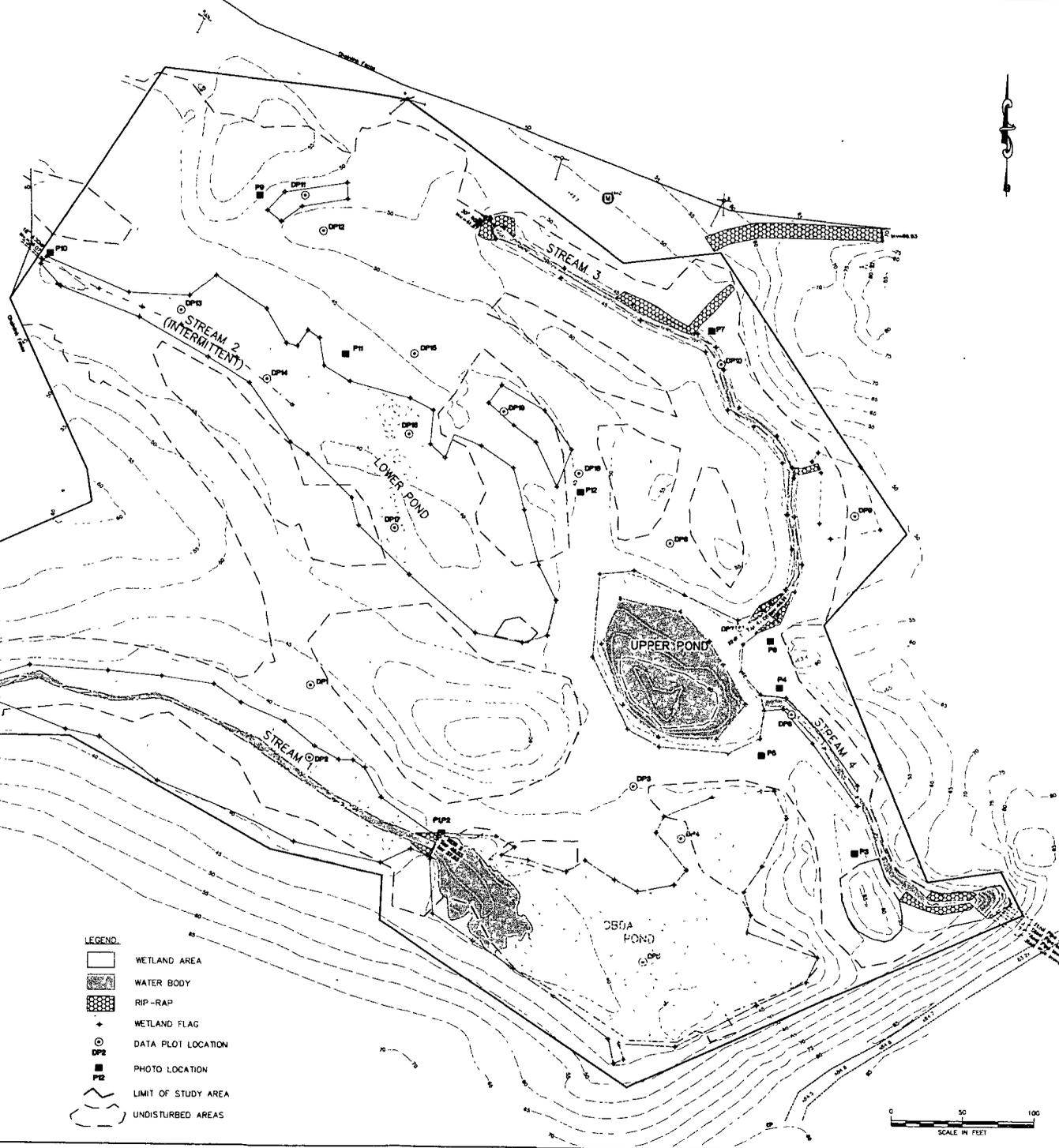
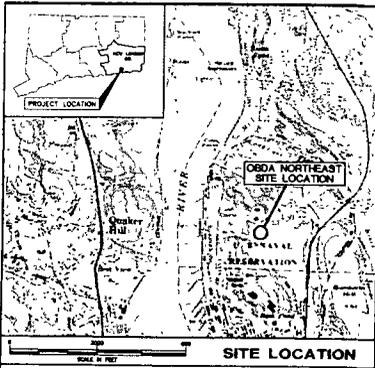
- **2.4 Acres Disturbed During Remediation**
- **Long-Term Goal of Restoration Plan:**
 - **Successful Re-establishment of Disturbed Wetlands**
- **Monitoring Initiated Fall '00**
- **Wetland Restoration Completed Spring '01**
- **Invasive Species Nearly Eliminated**
- **Current Status:**
 - **YR3 Functions and Values Assessment Under EPA/CTDEP Review**
 - **Evaluate Performance Standards**
- **Next Step:**
 - **Determine What/How Long to Continue Monitoring**



NO.	DATE	REVISIONS	BY	CHKD	APPD	REFERENCES

DRAWN BY: DM DATE: 3/19/03 CHECKED BY: _____ DATE: _____ COST/SCHED-AREA: _____ SCALE: AS NOTED	Tetra Tech NUS, Inc. ESTIMATED EXTENT OF SOIL CONTAMINATION AT SITE 7 NSB-NLON GROTON, CONNECTICUT	CONTRACT NO. 4286 OWNER NO. 0841 APPROVED BY: <i>Car</i> DATE: 12/9/03 APPROVED BY: _____ DATE: _____ DRAWING NO. FIGURE 2-6 REV 0
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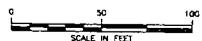
FORM CADD NO. T1NUS_BH.DGN - REV 0 - 1/20/98



NOTES

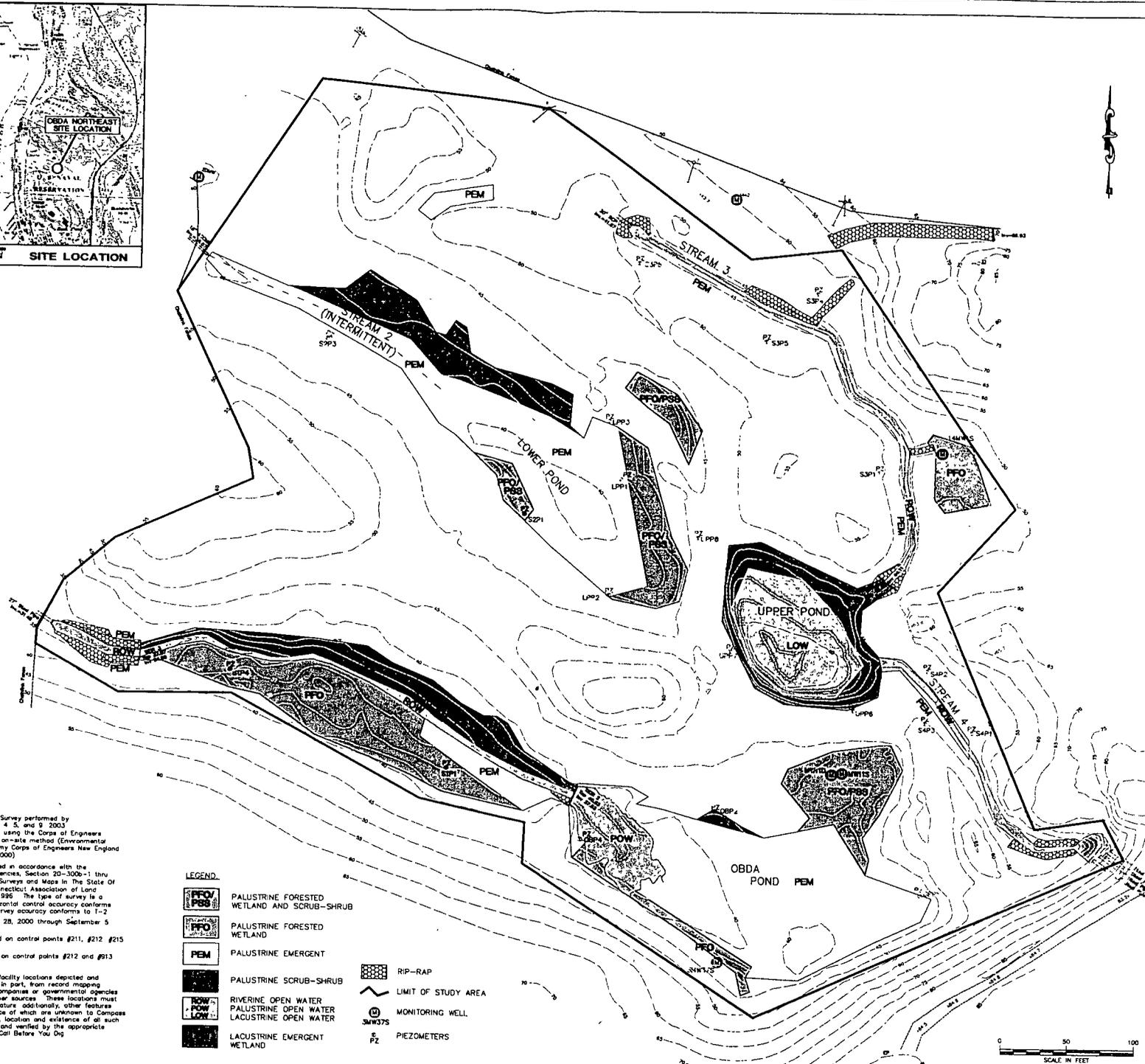
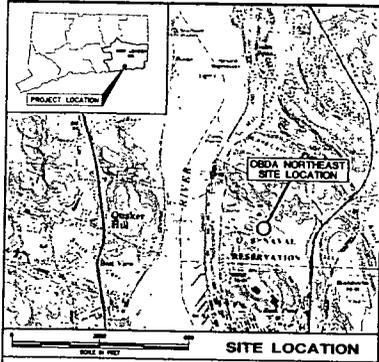
1. Wetland Delineation and GPS Field Survey performed by Tetra Tech, Inc. on September 4, 5, and 9, 2000. Wetland boundaries were delineated using the Corps of Engineers Wetland Delineation Manual routine on-site method (Environmental Laboratory, 1987) and the U.S. Army Corps of Engineers New England District's supplemental guidance (2000).
2. Survey base plan has been prepared in accordance with the regulation of Connecticut State Agencies, Section 20-300b-1 thru 20-300b-20, the "Standards for Surveys and Maps in the State of Connecticut" Adopted by the Connecticut Association of Land Surveyors, Inc. on September 28, 1996. The type of survey is a "Topographic Survey", and the horizontal control accuracy conforms to Class A-2. The topographic survey accuracy conforms to 1-2.
3. Field survey was performed August 28, 2000 through September 5, 2000.
4. Horizontal Datum is NAD 83 based on control points #211, #212, #215, and #913.
5. Vertical Datum is NAVD 83 based on control points #212 and #913.
6. Contours are one meter.
7. Underground utility structure and facility locations depicted and noted herein have been compiled, in part, from record mapping supplied by the respective utility companies or governmental agencies from aerial testimony and from other sources. These locations must be considered as approximate in nature; additionally, other features may exist on the site the existence of which are unknown to Combase Engineering Group, L.L.C. The size, location and existence of all such features must be field determined and verified by the appropriate authorities prior to construction. Call Before You Dig 1-800-922-4455.

LEGEND	
	WETLAND AREA
	WATER BODY
	RIP-RAP
	WETLAND FLAG
	DATA PLOT LOCATION
	PHOTO LOCATION
	LIMIT OF STUDY AREA
	UNDISTURBED AREAS



<p>OVERBANK DISPOSAL AREA (OBDA) NAVAL SUBMARINE BASE NEW LONDON GROTON, CONNECTICUT</p>	
<p>POST-REMEDIATION WETLAND DELINEATION MAP</p>	
<p>PROJECT NO. 3382-2831 1102</p>	<p>DATE PLOTTED 02/04/03 DPC</p>
<p>DRAWING NO. FIGURE 1</p>	<p>SHEET 1 OF 1</p>
<p>ENGINEERING FORSTER WHEELER ENVIRONMENTAL CORPORATION 133 FEDERAL STREET BOSTON, MASSACHUSETTS 02109 TEL: (617) 551-8200</p>	<p>PLANNING FORSTER WHEELER ENVIRONMENTAL CORPORATION 133 FEDERAL STREET BOSTON, MASSACHUSETTS 02109 TEL: (617) 551-8200</p>
<p>DATE: 02/04/03 SCALE: AS SHOWN DRAWN BY: J. DORR CHECKED BY: J. DORR APPROVED BY: L. DAVIS</p>	<p>P. E. SEAL</p>

attachment (2)



NOTES

- 1 Wetland Delineation and GPS Field Survey performed by Tetra Tech FW Inc., on September 4, 5, and 9 2003. Wetland boundaries were delineated using the Corps of Engineers Wetland Delineation Manual routine on-site method (Environmental Laboratory 1987) and the U.S. Army Corps of Engineers New England District's supplemental guidance (2000).
- 2 Survey base plan has been prepared in accordance with the regulation of Connecticut State Agencies, Section 20-300b-1 thru 20-300b-20 the "Standards For Surveys and Maps in the State of Connecticut". Adopted by the Connecticut Association of Land Surveyors Inc. on September 26, 1996. The type of survey is a "Topographic Survey", and the horizontal control accuracy conforms to Class A-2. The topographic survey accuracy conforms to 1"-2".
- 3 Field survey was performed August 28, 2000 through September 5 2000.
- 4 Horizontal Datum is NAD '83 based on control points #211, #212, #215 and #913.
- 5 Vertical Datum is NAVD '88 based on control points #212 and #913.
- 6 Contours are one interval.
- 7 Underground utility structure and facility locations depicted and noted herein have been compiled, in part, from record drawings supplied by the respective utility companies or governmental agencies from parcel testimony and from other sources. These locations must be considered as approximate in nature; additionally, other features may exist on the site, the existence of which are unknown to Compass Engineering Group, L.L.C. The site, location and existence of all such features must be field determined and verified by the appropriate authorities prior to construction. Call Before You Dig 1-800-922-4455.

LEGEND

- | | | | |
|--|---|--|---------------------|
| | PALUSTRINE FORESTED WETLAND AND SCRUB-SHRUB | | RIP-RAP |
| | PALUSTRINE FORESTED WETLAND | | LIMIT OF STUDY AREA |
| | PALUSTRINE EMERGENT | | MONITORING WELL |
| | PALUSTRINE FORESTED WETLAND | | PIEZOMETERS |
| | RIVERINE OPEN WATER | | |
| | PALUSTRINE OPEN WATER | | |
| | LACUSTRINE OPEN WATER | | |
| | LACUSTRINE EMERGENT WETLAND | | |

<p>DATE: DECEMBER 2003 SCALE: AS SHOWN DESIGNED BY: P. COHEN DRAWN BY: J. ROSELLI CHECKED BY: J. FISKE APPROVED BY: L. WATKINS</p>	
<p>PROJECT NO. 2282 0631 1107 DATE: 12/03 DRAWING NO. 0024-A015.DWG SHEET 1 OF 1</p>	<p>OVERBANK DISPOSAL AREA (OBDA) NAVAL GROTON, CONNECTICUT POST-REMEDIATION WETLAND TYPE MAP</p>
<p>Company: Tetra Tech FW Inc. Project: OBDA NEAR WETLANDS FOR ENVIRONMENTAL CORPORATION 633 FEDERAL STREET BOSTON, MASSACHUSETTS 02109 TEL: (617) 417-2000 FAX: (617) 417-2000</p>	<p>Author: P. L. STALS</p>