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NSB NEW LONDON

5090.3a

**MONTHLY OPERATIONS SUMMARY
FOR THE NAVAL EXCHANGE AND DOLPHIN MART
AIR SPARGING/SOIL VAPOR EXTRACTION SYSTEMS**

**NEW LONDON NAVAL SUBMARINE BASE
GROTON, CONNECTICUT**

Month: May 2000

Prepared by:

IT Corporation

Prepared by:



Stephen R. Daly
Associate Environmental Scientist

Reviewed By:

Foster Wheeler Environmental Corp.

Reviewed by:



Susan R. Leach, P.E.
Environmental Site Technical Manager

CONTRACT NO. N62472-94-D-0398	DELIVERY ORDER # 0014	ACTIVITY LOCATION NEW LONDON, CT
PROJECT TITLE: AIR SPARGING & SOIL VAPOR EXTRACTION SYSTEM O&M		
FROM: FOSTER WHEELER ENVIRONMENTAL CORP. - PROGRAM QCM: MARK MILLER		DATE July 21, 2000
TO: NTR: C. DAVIS (2 COPIES)		DATE July 21, 2000

1. THE CONTRACTOR SUBMITTALS LISTED BELOW ARE FORWARDED FOR YOUR REVIEW AND RECOMMENDATIONS.
 - (a) APPLY APPROPRIATE STAMP IMPRINT TO EACH SUBMITTAL AND INDICATE REVIEW COMMENTS, AS REQUIRED.
 - (b) RETAIN ONE (1) COPY OF THIS TRANSMITTAL FORM AND RETURN REMAINING COPIES WITH REVIEWED SUBMITTALS TO ROICC.
2. THESE SUBMITTALS SHOULD BE RETURNED TO THIS OFFICE BY _____
3. _____

COPY TO:

ROICC
 ENVIRONMENTAL
 OTHER
R. Umashankar (1 copy) D. Ward (1 copy) R. Leach (1 copy)

Susan R. Leach 7/21/00
 SIGNATURE AND DATE

FROM: DESIGNER	DATE
TO: ROICC	DATE

1. THE SUBMITTALS LISTED BELOW HAVE BEEN REVIEWED AND ARE RETURNED, WITH ACTION TAKEN AS INDICATED.
2. _____

COPY TO:

ROICC
 DESIGNER

FROM: ROICC	SIGNATURE AND DATE
TO: CONTRACTOR	DATE

1. THE SUBMITTALS LISTED BELOW HAVE BEEN REVIEWED AND ARE APPROVED/DISAPPROVED AS SHOWN BELOW AND ON EACH STAMP IMPRINT.

COPY TO:

ROICC
 OTHER

FOR COMMANDING OFFICER, NORTHERN DIVISION NAVAL FACILITIES ENGINEERING COMMAND DATE

TRANSMITTAL NO.	SUBMITTAL DESCRIPTION	PREPARED/SUBMITTED BY	APPROVED	DISAPPROVED	REMARKS
104	SD-09, Reports	S. Leach			
	Monthly Operations Summary Report for May 2000	For M. Miller			

OPERATIONAL SUMMARY

DOLPHIN MART AIR SPARGE/SVE SYSTEM

System Status - The remediation system at the site was activated on June 29, 1996. The remediation system is composed of eight (8) horizontal vapor extraction trenches (VET-1, VET-2, VET-3, VET-4, VET-5, VET-6, VET-7 and VET-8), fifteen air sparge points (ASP-A through ASP-H, ASP-J through ASP-N, ASP-P, and ASP-Q) along with associated equipment. At the conclusion of the site visit on May 21, 1999, and as directed by the United States Navy, the SVE system was deactivated. The air sparge system was previously deactivated on January 30, 1999. The site is visited bi-weekly in order to maintain site security and to check conditions of all road boxes.

A site map has been included as **Figure 1**. The site was visited on May 8 and 17, 2000. The monitoring forms for the site visits conducted during the month of May 2000 are included in **Attachment 1**. A weekly breakdown of the month's field activities has been included as **Attachment 2**.

Mass Removal - Because the SVE system is deactivated, no SVE sample was collected for analysis during the May 2000 site visits. Therefore, no hydrocarbon mass removal rate was calculated. The total hydrocarbon mass extracted by the remediation system, as of April 1999, was approximately 2,153 lbs. The system database has been included in **Attachment 3**. Mass removal graphs have been included as **Figures 3A, 3B and 4**. Based on the hydrocarbon mass removal rate, no exceedance of the Connecticut Department of Environmental Protection (CTDEP) air quality guidelines were reported.

Carbon Usage - No carbon change-out occurred during the month of May 2000. The last vapor phase carbon change-out at the site occurred August 27, 1997. No liquid phase carbon change-out has occurred to date.

Discharge Monitoring Sampling - As stated above, no air or water discharge sampling was conducted during the May 2000 site visits at the Dolphin Mart.

Monitoring Well Gauging - The most recent round of site monitoring, which included monitoring well gauging was conducted on March 20, 2000 during the quarterly groundwater monitoring event. On March 20, 2000 depth to groundwater at the site ranged from 1.28 feet in MW-1 to 8.47 feet in WE-2D. Historical well gauging data has been included in **Attachment 4**.

Monitoring Well Sampling - The most recent round of site monitoring well sampling was conducted on March 20, 2000. The March Quarterly Groundwater Sampling Report was issued under separate cover. The historical groundwater sampling results have been summarized in **Table 1 of Attachment 5**.

Additional Activities - Drive-by site visits were conducted on May 8 and 17, 2000 to check the site security and the integrity of the road boxes. The remediation shed and road boxes were found to be in satisfactory condition during these visits.

NEX AIR SPARGE/SVE SYSTEM

System Status - The remediation system at the site had been operating since July 31, 1997. As of May 26, 1999, 17 vapor extraction points (VEA-12 through VEA-16, VEA-18 through VEA-20, VEB-4, and VEB-8 through VEB-15) and 19 air sparge points (SPA-30 through SPA-37, SPB-14, SPB-16, and SPB-19 through SPB-27) were operating. Approximately 268,989 gallons of water had been extracted, treated, and discharged by the NEX system as of May 17, 2000.

A site map has been included as **Figure 2**. The site was visited on May 8 and 17, 2000. The monitoring forms for operation and maintenance (O&M) conducted during the month of May 2000 are included in **Attachment 1**. A weekly breakdown of the month's field activities has been included as **Attachment 2**.

Mass Removal – The total hydrocarbon mass extracted by the SVE system, as of May 17, 2000, was approximately 3,975.88 lbs. The system database has been included in **Attachment 3**. Mass removal graphs have been included as **Figures 5A, 5B and 6**. Based on the hydrocarbon mass removal rate, no exceedance of CTDEP air quality guidelines was observed.

Carbon Usage – The liquid phase granular activated carbon was last changed-out on February 25, 1999. The last vapor-phase carbon change-out occurred September 8, 1997.

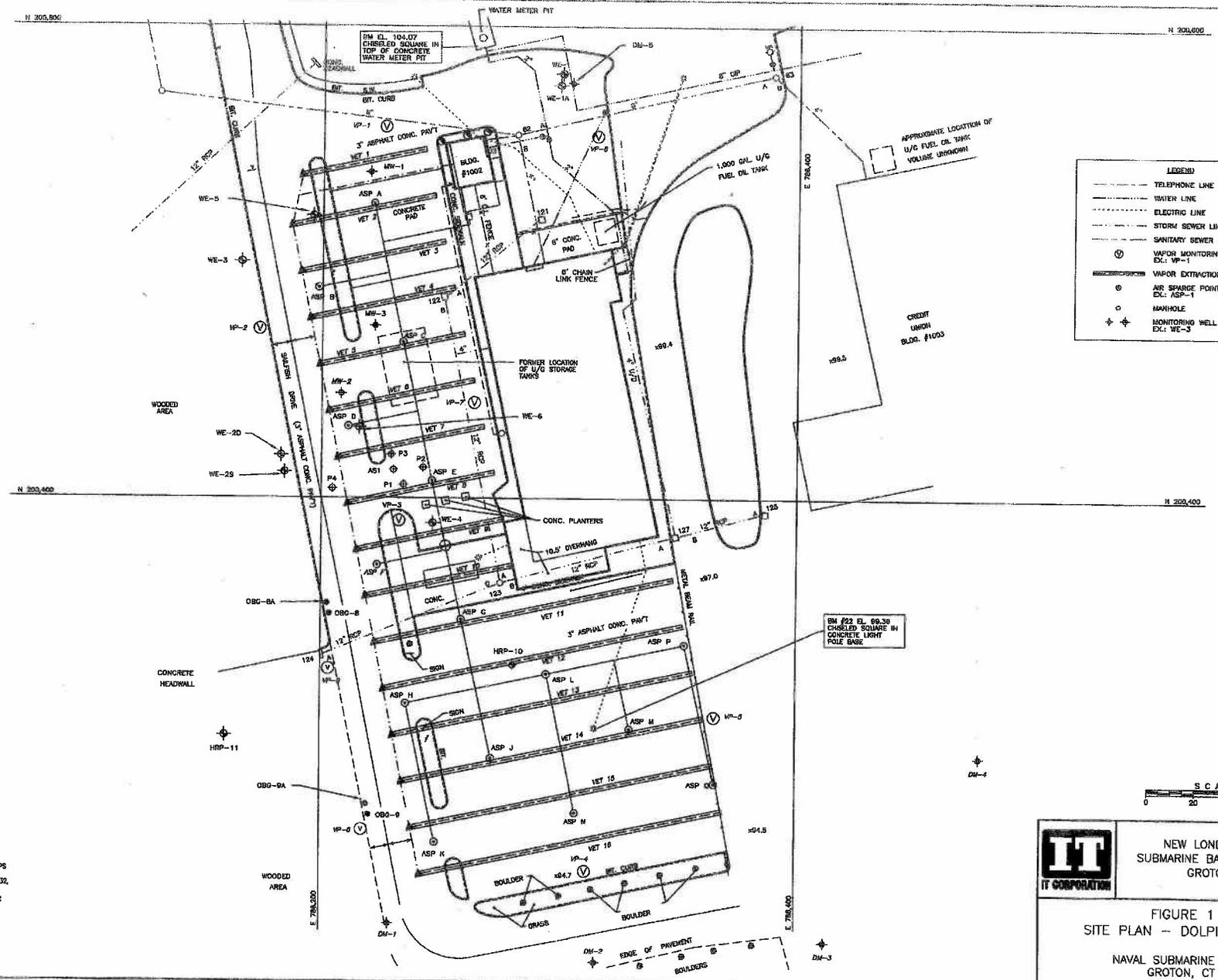
Discharge Monitoring Sampling – The most recent round of water discharge sampling was conducted on May 17, 2000. All parameters of the discharge permit were adhered to. Results were submitted to the CTDEP under separate cover.

Monitoring Well Gauging – The most recent round of site monitoring, including monitoring well gauging was conducted on March 14, 2000. Depth to groundwater at the site ranged from 2.56 feet in VEA-4 to 8.71 feet in FD-3.

Monitoring Well Sampling – The most recent round of site monitoring well sampling was conducted on March 14, 2000. The March Quarterly Groundwater Sampling Report was issued under separate cover. The historical groundwater sampling results have been summarized as **Table 2** in **Attachment 5**.

Additional Activities – During the May 8, 2000 site visit, IT Corporation and Foster Wheeler field personnel conducted an investigation of the vapor extraction point VEB-3, which was damaged during the installation for the repair of a sewer line during the month of April. In the course of the investigation, it was determined that the air sparge points SPB-6, SPB-8, and SPB-9 had been destroyed. Also, vapor extraction points VEB-3, VEB-6, and VEB-7 had also been destroyed. After the damage was assessed, field personnel capped the lines and backfilled the excavation.

FIGURES



LEGEND	
---○---	TELEPHONE LINE
---	WATER LINE
---	ELECTRIC LINE
---	STORM SEWER LINE
---	SANITARY SEWER LINE
⊙	VAPOR MONITORING POINT EX: VP-1
⊕	VAPOR EXTRACTION TRENCH
⊙	AIR SPARGE POINT EX: ASP-1
○	MANHOLE
⊕	MONITORING WELL EX: WE-3



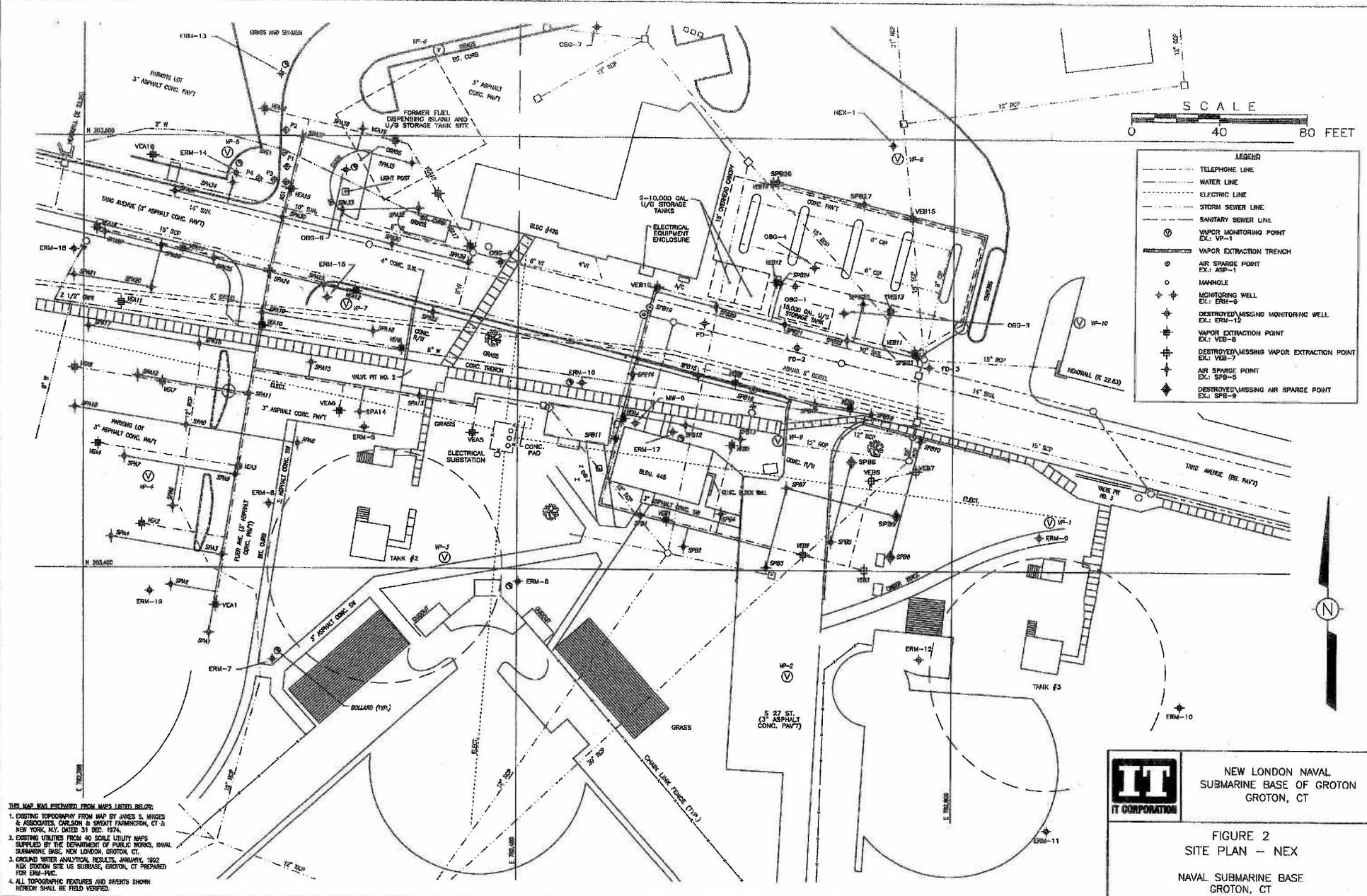
NEW LONDON NAVAL
 SUBMARINE BASE OF GROTON,
 GROTON, CT

FIGURE 1
 SITE PLAN - DOLPHIN MART

NAVAL SUBMARINE BASE
 GROTON, CT

THIS PLAN WAS PREPARED FROM PAGES LISTED BELOW:
 1. NAUTICAL PLAN, GROTON, COAST DISTRICT UTILITIES MAPS
 PREPARED BY CULLINAN ENGINEERING CO., INC. SCALE
 1"=40' DATE: 3/25/83 NAVING DRAWING NOS. 2,044,332,
 2,084,333 AND 2,084,374.
 2. MONITOR WELL LOCATION AND GROUND WATER CONTOUR
 MAP OF JANUARY 21, 1983 DOLPHIN MART SITE US
 SURVEY, GROTON, CT. PREPARED BY GRI-HANDEGIST
 SCALE 1"=20' APRIL, 1982.
 3. UTILITY DATA FROM AS-BUILT DRAWINGS AND
 UTILITY MAPS. EXACT LOCATIONS MUST BE VERIFIED
 IN FIELD.
 4. ALL TOPOGRAPHIC FEATURES AND INVERTS SHOWN
 HEREON SHALL BE FIELD VERIFIED.

DATE: 3/26/89
 TIME: 2:02 PM
 FORMAT: REVISION 2/29/89



SCALE
0 40 80 FEET

LEGEND

- TELEPHONE LINE
- WATER LINE
- ELECTRIC LINE
- STORM SEWER LINE
- SANITARY SEWER LINE
- ⊙ VAPOR MONITORING POINT
EX: VP-1
- VAPOR EXTRACTION TRENCH
- AIR SPARGE POINT
EX: ASP-1
- MANHOLE
- ⊕ MONITORING WELL
EX: ERM-9
- ⊕ DESTROYED/MISSING MONITORING WELL
EX: ERM-12
- ⊕ VAPOR EXTRACTION POINT
EX: VEB-8
- ⊕ DESTROYED/MISSING VAPOR EXTRACTION POINT
EX: VEB-7
- ⊕ AIR SPARGE POINT
EX: SPB-5
- ⊕ DESTROYED/MISSING AIR SPARGE POINT
EX: SPB-9

THIS MAP WAS PREPARED FROM MAPS LISTED BELOW:

1. EXISTING TOPOGRAPHY FROM MAP BY JAMES S. HANCOCK & ASSOCIATES, CARLSON & SPENTZ FARMINGTON, CT @ NEW YORK, NY, DATED 31 DEC. 1974.
2. EXISTING UTILITIES FROM 40 SCALE UTILITY MAPS SUPPLIED BY THE DEPARTMENT OF PUBLIC WORKS, NAVAL SUBMARINE BASE, NEW LONDON, GROTON, CT.
3. GROUND WATER ANALYTICAL RESULTS, JANUARY, 1992 NEW STATION SITE US SUBBASE, GROTON, CT PREPARED FOR DRG-14C.
4. ALL TOPOGRAPHIC FEATURES AND EVENTS SHOWN HEREON SHALL BE FIELD VERIFIED.

IT CORPORATION

NEW LONDON NAVAL
SUBMARINE BASE OF GROTON
GROTON, CT

FIGURE 2
SITE PLAN - NEX

NAVAL SUBMARINE BASE
GROTON, CT

Figure 3A- Mass Removal Rate
Dolphin Mart Site, New London Naval Submarine Base, Groton, CT

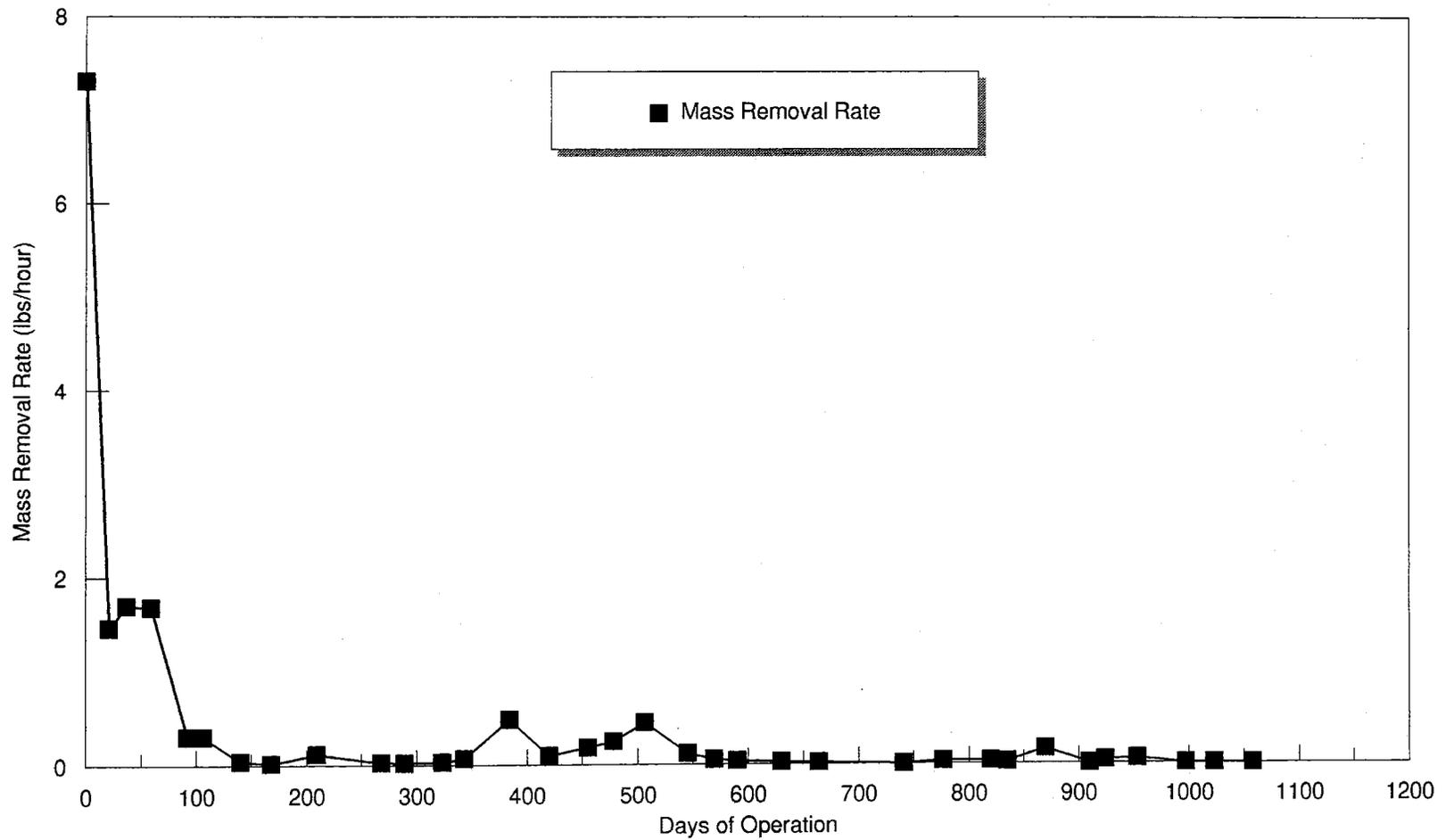


Figure 3B- Mass Removal Rate

Dolphin Mart Site, New London Naval Submarine Base, Groton, CT

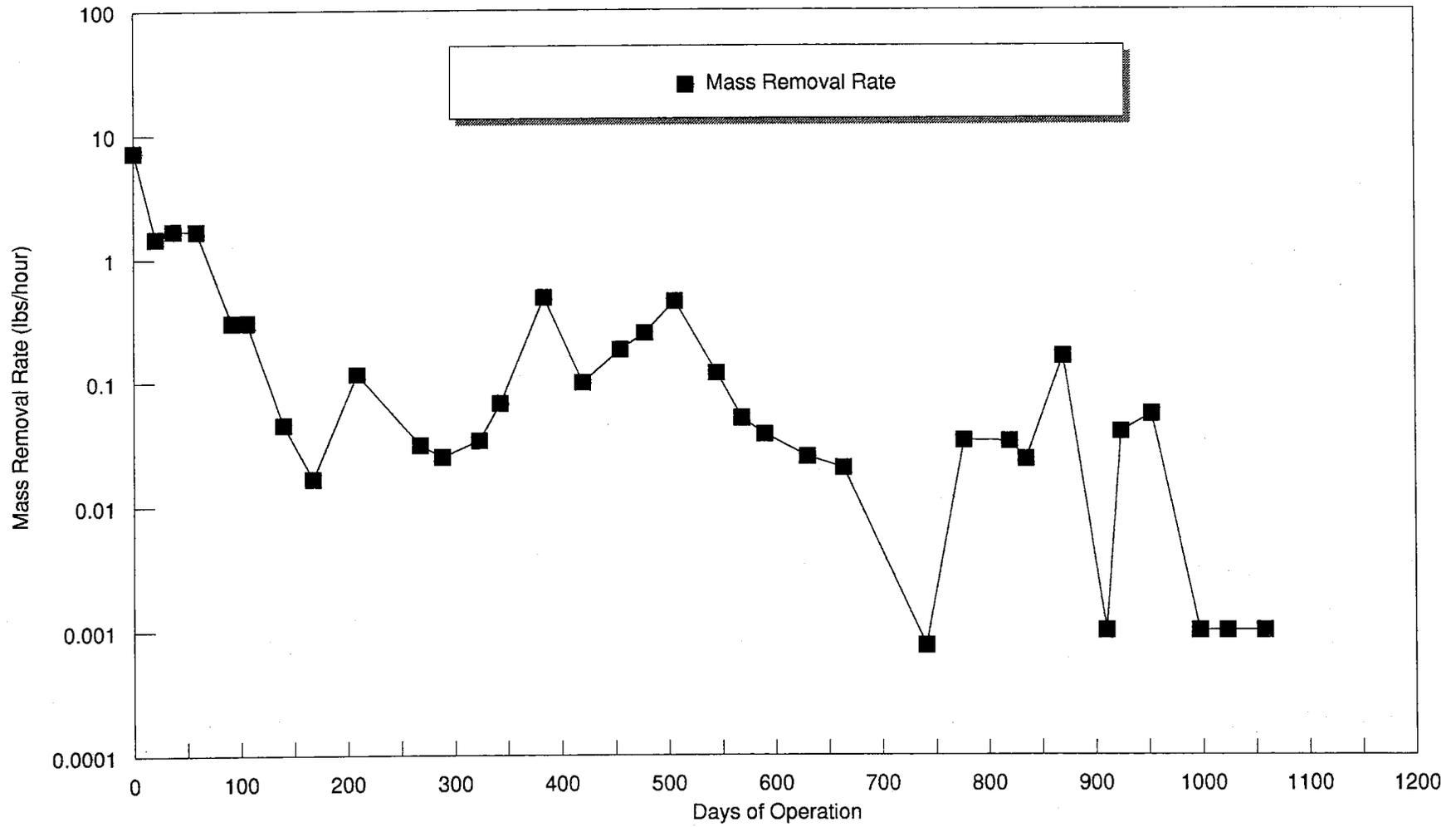


Figure 4 - Cumulative Mass Removed versus Time

Dolphin Mart Site, New London Naval Submarine Base, Groton, CT

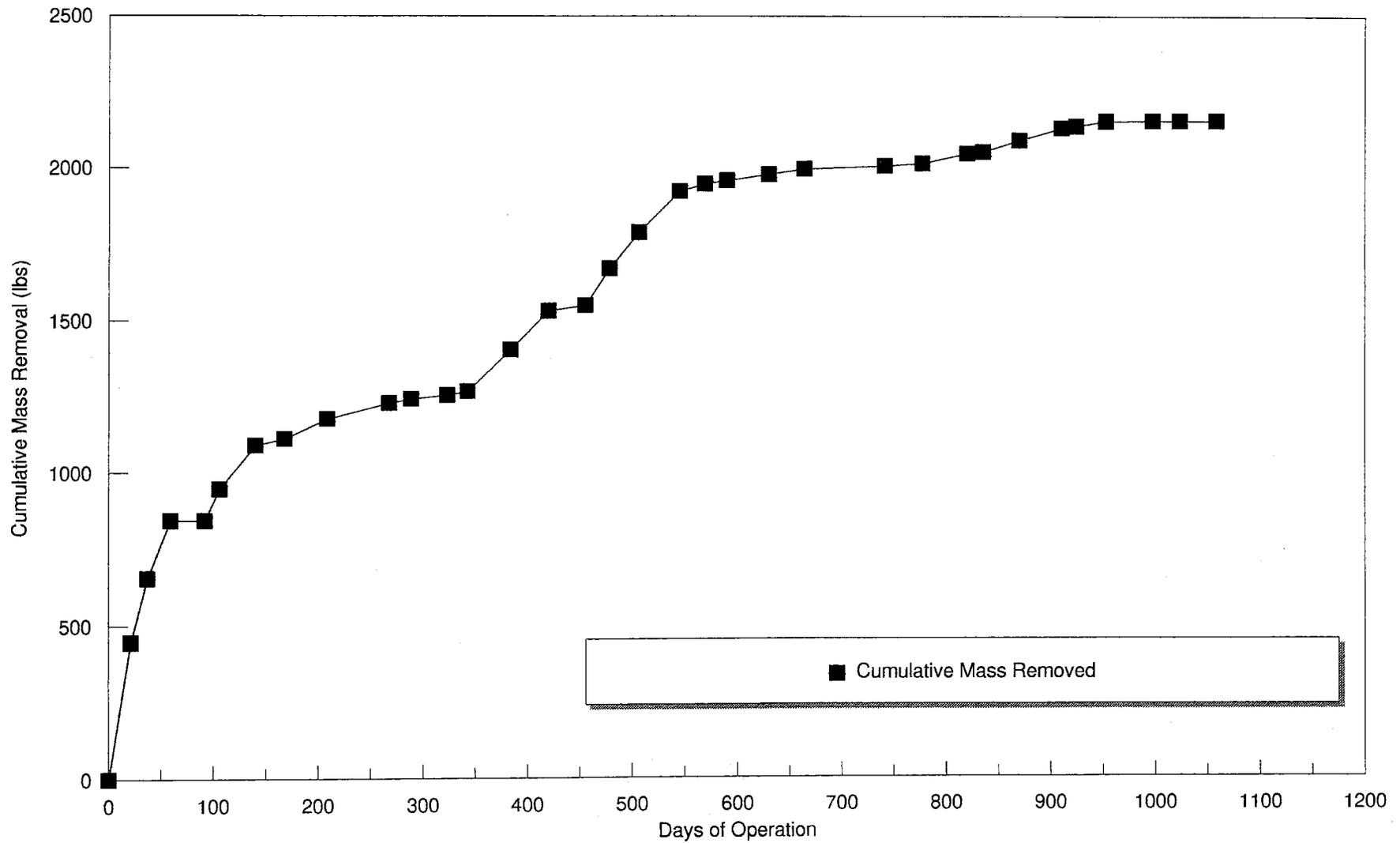


Figure 5A - Mass Removal Rate

NEX Site, New London Naval Submarine Base, Groton, CT

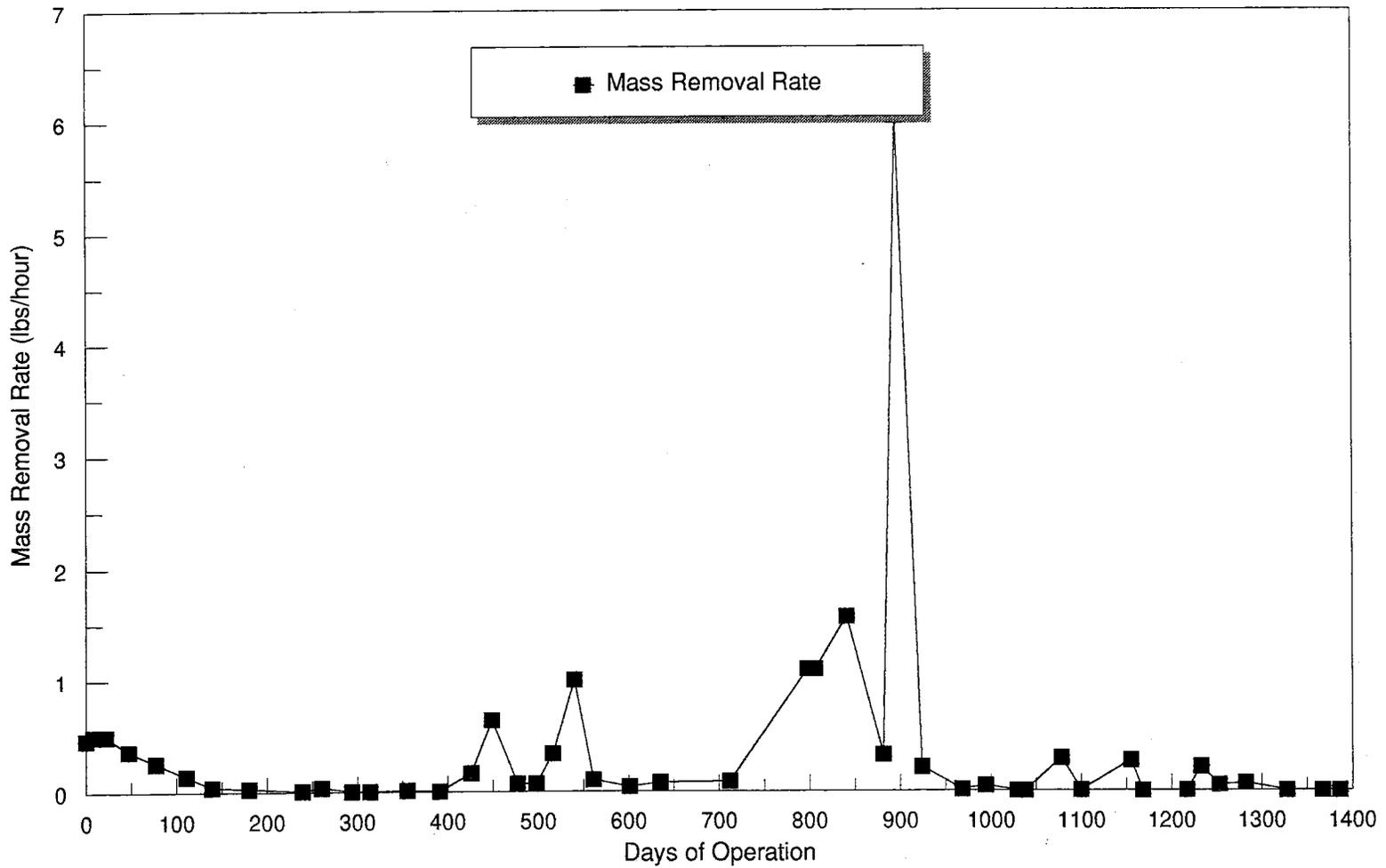


Figure 5B - Mass Removal Rate

NEX Site, New London Naval Submarine Base, Groton, CT

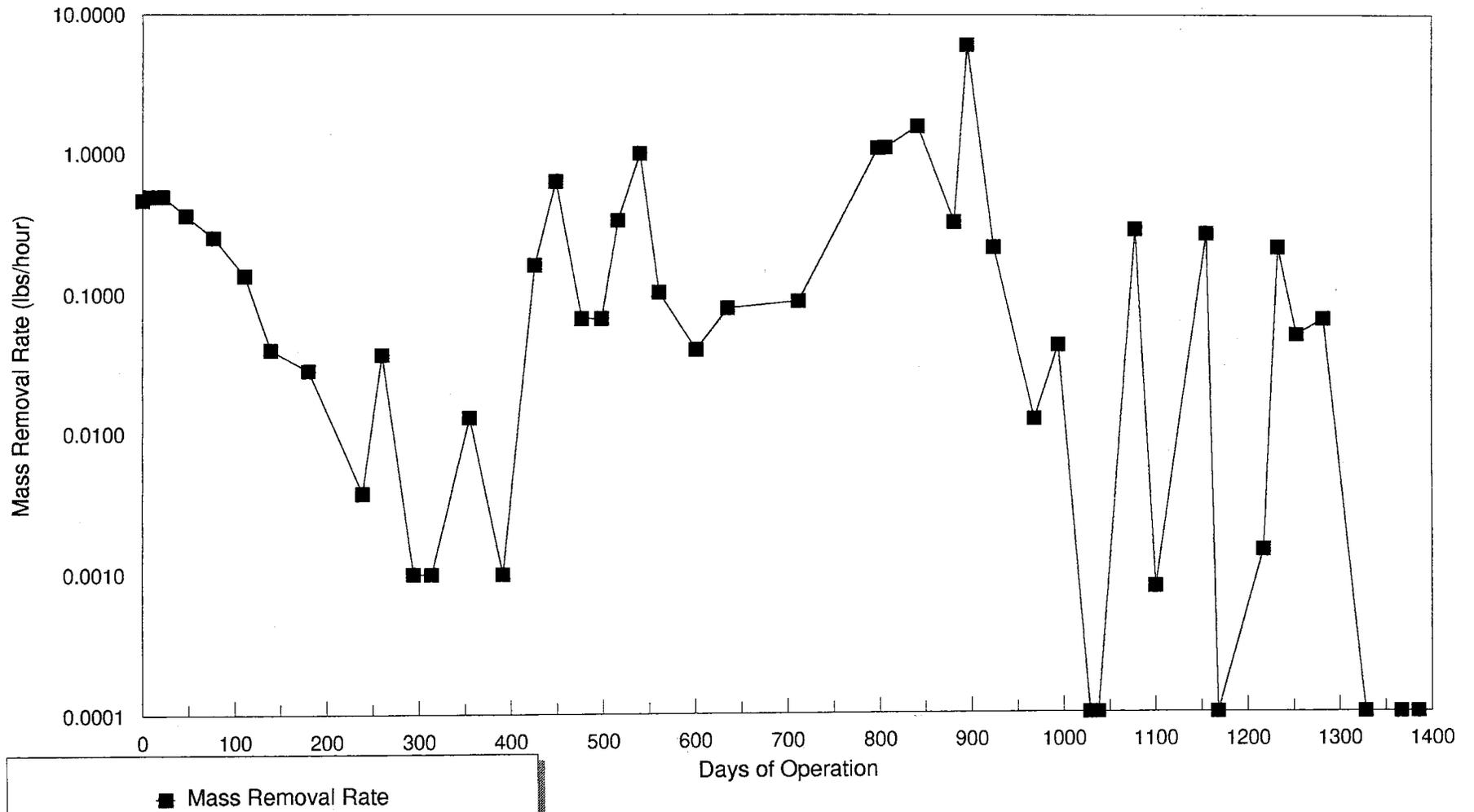
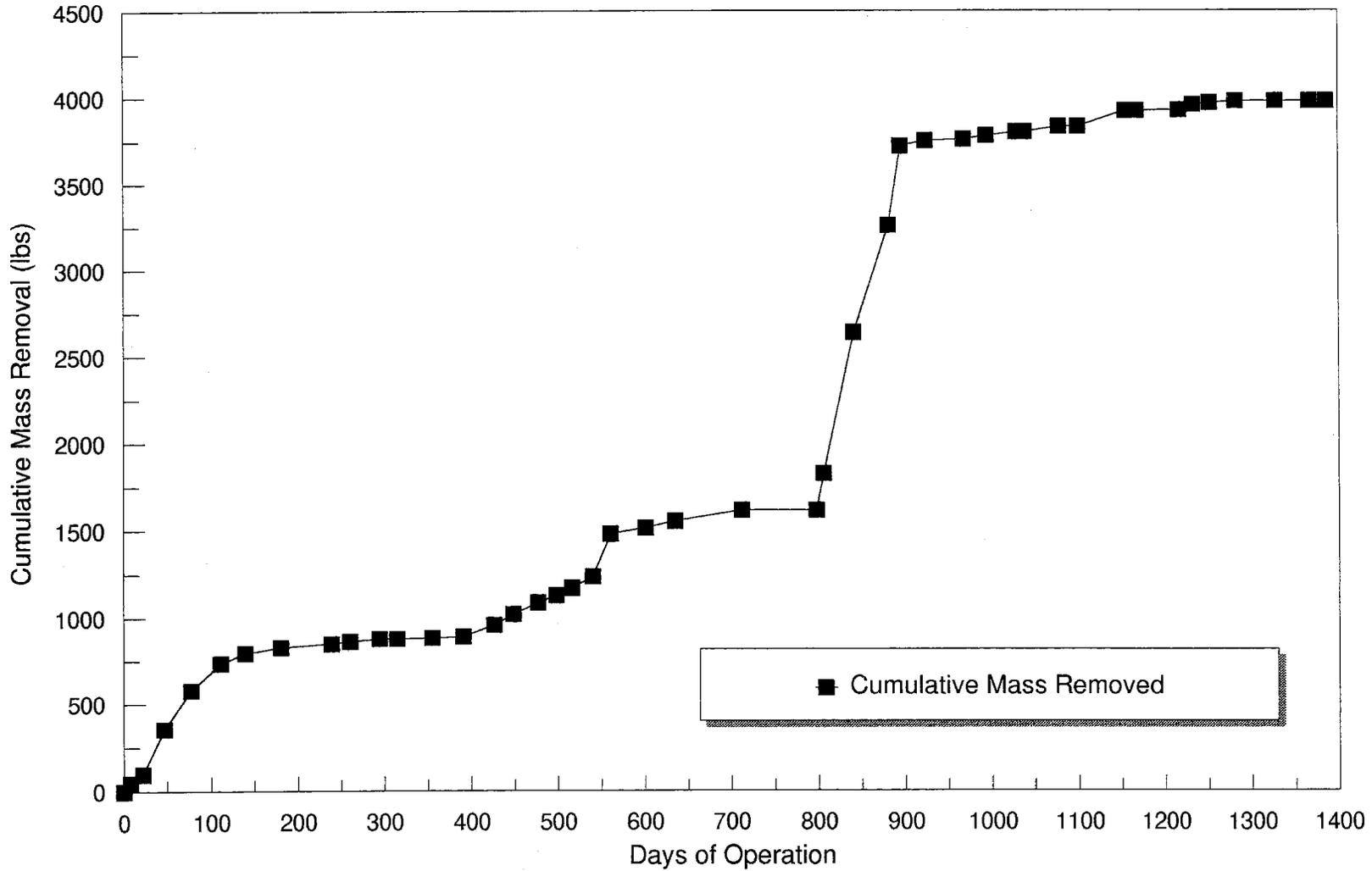


Figure 6 - Cumulative Mass Removed versus Time

NEX Site, New London Naval Submarine Base, Groton, CT



ATTACHMENT 1
SITE VISIT FORMS

Groton Sub Base
NEX Site

8,

Scheduled Date: May 18, 2000

Assigned By: Jonathan Sorrow

Project Name: Groton Sub Base

Personnel: John Kowzun

Project Job# 87260014/0500

Allotted Time: 4.0 + Travel

Location: Naval Submarine Base, Groton, CT

Arrival Time: 11:10

Departure Time: 17:40

Travel Time: 2.25

ASSIGNED TASKS:

1. Meet Foster Wheeler personnel at NEX and using their backhoe attempt to locate all breaks in the Air sparge/SVE systems. *Be on-site for 8:30*
 - a. The attached figures show where FW personnel cut the lines and capped them.
2. Do not make repairs, give me a complete listing of the number and locations of breaks which need repair.
3. While you are running the sparge system, obtain temperature readings from the sparge blower effluent at the following locations:

	Temp	Location
AS Effluent (at blower)	268°F	
Exit interior of bldg	52°F	
Transition from pipe to PVC		
PVC entering subsurface	40°F	

Notes:

5 pb points destroyed
spb 6
spb 8
spb 9

VEb points destroyed
veb 3
veb 6
veb 7

The main lines for the sparge and SVE system appear to run parallel to each other.

EQUIPMENT: SSP, PPE, PID, Flashlight, Tools, Shovel, piping, glue, tape, etc

Groton Sub base - Nex site

8726.0014 / 05000000

5/8/00

Jonathan Sorrow

J.K. Jr.

415540

11:10 - Depart IT Corp and traveled to the site. had to stop and put gas in the truck.

11:40 - Arrived on site met with Larry Mitler from Foster Wheeler. then went and turned the sparge and SVE system on. found the break in the SVE and sparge line. turned the system off and began to dig with the backhoe. then went and turned the system off and dug some more with the backhoe and then finished digging by hand. finally located the lines and found them broken. went to shetucket plumbing supply to pick up a 6" cap. returned to the site and cut the 6" pvc line and capped it. then did the same thing to the 3" pvc sparge line. then went and reactivated the system. found that veb 2 was broken. the pipe is broken next to the coupling. will need to remove some asphalt and dig down to repair the pipe.

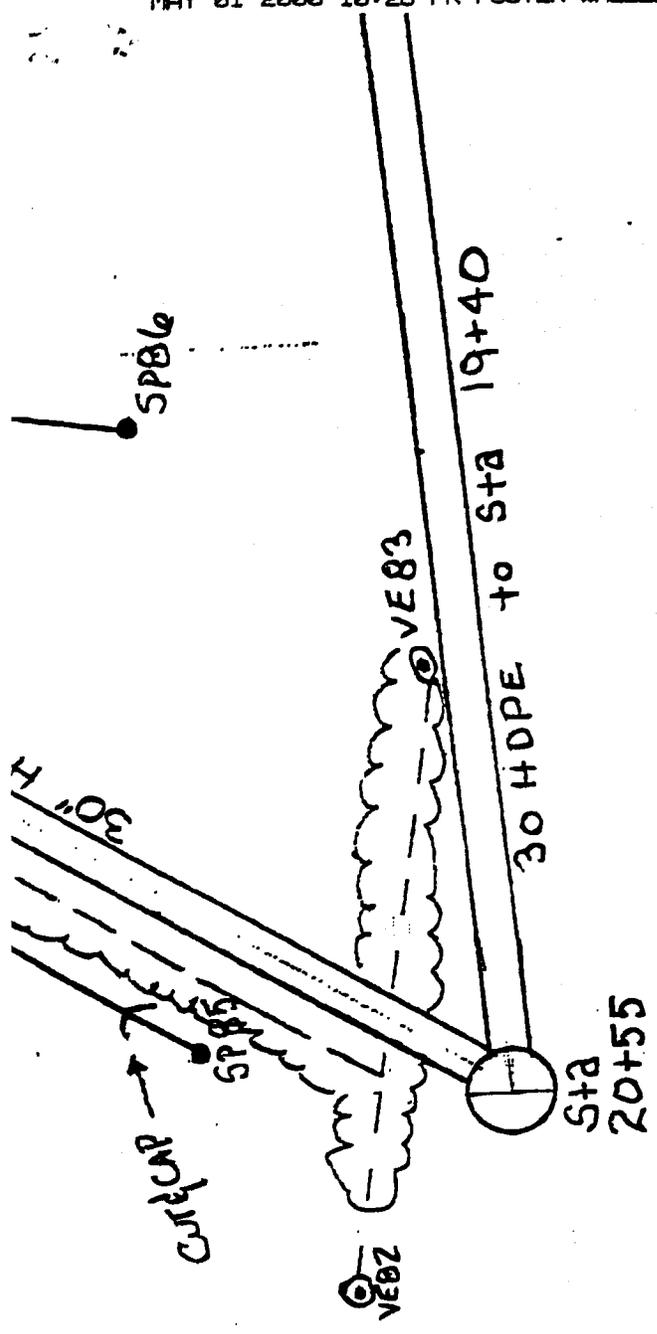
called and informed Jonathan sorrow and told him that there was some dirt in the 6" vent line. He informed me to cap it. then checked for ~~any~~ any other breaks in the line. did not find any. Jonathan Sorrow then had me go and check spb to spb points 1, 2, 3, 4, 7 and VEB

Victor 200 pass - 220002 notes

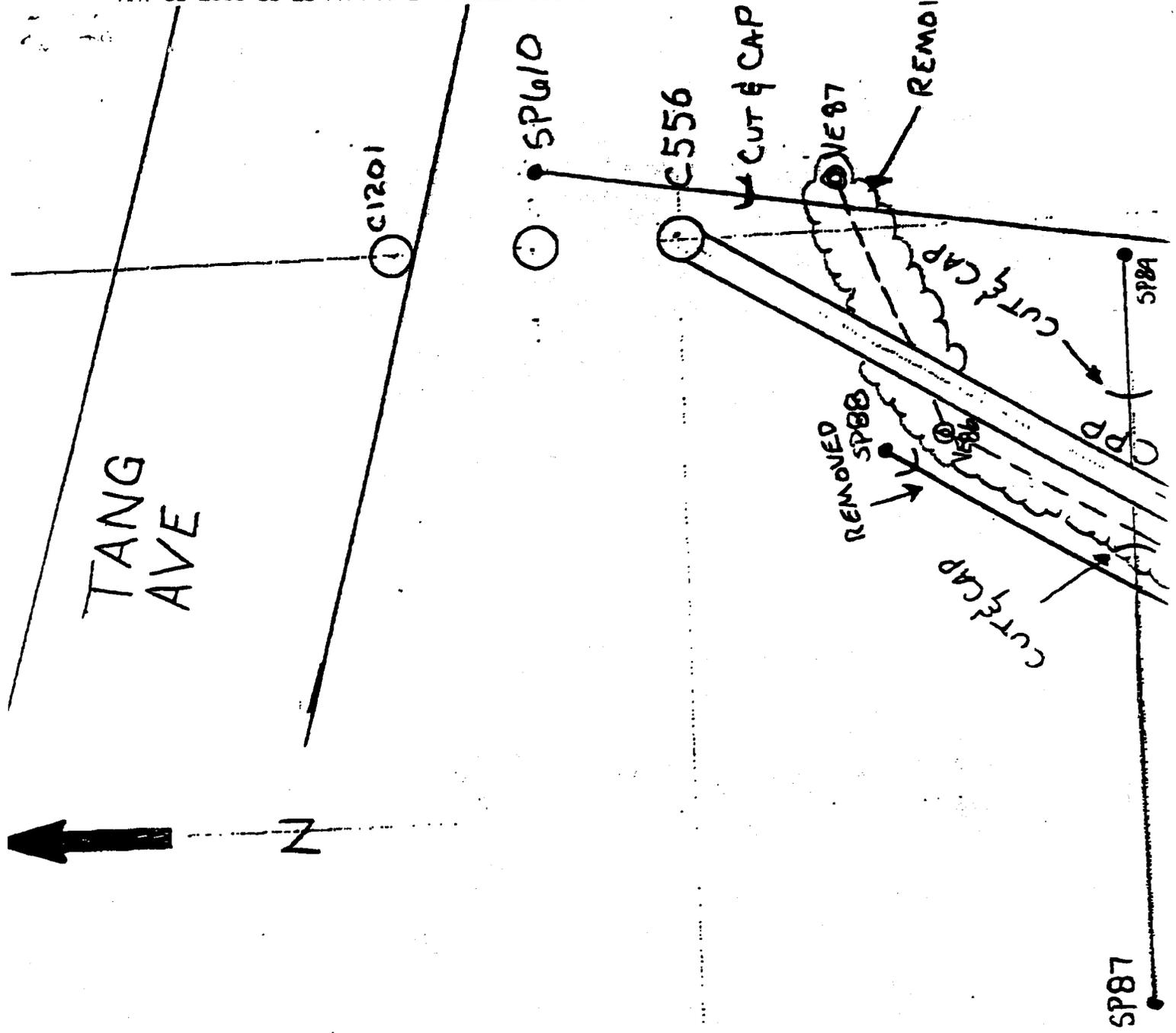
points 1, and 2. he also had me open spurge points
85pb 1, 2, 3 7 and veb 1 and 2.

The main trunk lines for VEB and spb points
run parallel to each other from VEB 2 to former
point VEB 3. this does not match up to what
is on the map.

System was operational upon departure
secured sled and departed site.



ALTERATIONS TO SPARGING SYSTEM	
21 APR 00	
LWM	10 SCALE



NAVAL SUBMARINE BASE
GROTON, CT.
87260014

~~7/~~ 5/17/00

Date: 5-8-00

Project Number: 87260014

DB/SCA Box Check: Yes / No

Site Arrival Time: 11:10 9:10 AM

Total Hours on Site: _____

Staff: John Kowzua

Task Number: ~~050~~ 050

Bill Code Override: _____

Site Departure Time: _____

Total Hours Billed: _____

Please complete the following requested work scope and check off each task as it's completed:

R = Requested C = Completed

DOLPHIN MART:

- COMPLETE OPERATIONAL DATA FORM
- GAUGE MONITORING WELLS
- MEASURE FID AND VACUUM AT VAPOR MONITORING WELLS
- COMPLETE SVE EXTRACTION POINT FORMS
- COMPLETE SPARGE POINT FORMS
- COLLECT AIR AND WATER DMR SAMPLES
- COMPLETE PH FORM
- COMPLETE QUARTERLY GROUNDWATER SAMPLING
- Conduct drive-by and check shed security.
- Check condition of all road boxes

NEX:

- COMPLETE OPERATIONAL DATA FORM
- GAUGE MONITORING WELLS
- MEASURE FID AND VACUUM AT VAPOR MONITORING WELLS
- COMPLETE SVE EXTRACTION POINT FORMS
- COMPLETE SPARGE POINT FORMS
- COLLECT AIR AND WATER DMR SAMPLES Including Aquatic For Sample
- COMPLETE PH FORM
- COMPLETE QUARTERLY GROUNDWATER SAMPLING
- See additional tasks attached.

Spurge point 1, 2, B, 7
VEB 1, 2

EQUIPMENT NEEDED: HASP, PPE, FID, PH METER, TEDLAR BAGS, VELOCITY METER, MAGNEHELICS, IP, SORBENT PADS, DMR SAMPLE COOLERS AND CONTAINERS

TASK NUMBERS: Monthly O&M = 04010000 Unscheduled Maintenance = 07010000
 Quarterly Sampling = 05010000 Sys. Modification/Roadbox Repair = 08010000
 Carbon Change-out = 06010000

Groton sub base

87260014 / 05000000

5/17/00

Jonathan Sorrow

J.K.J

5:00 AM to
9:10 AM

Depart IT and traveled to the site.

9:10 to

Arrived on site, Found system operational then went and obtained the DMR samples for air and water, then went and obtained samples for the aquatic toxicity sample, when that was completed, I went and checked the vapor points was unable to locate vapor point #1 and vapor point #2, the vapor points were either removed during construction or they are covered by the regrading of the soil, I used a metal detector to try and locate the vapor points and did not find them, then went to gauge the monitoring wells and could not locate well ERM 12, this well was either removed during construction or covered by the regrading of the soil. used a metal detector and could not locate this well, then went and deactivated the system and greased the motors and cleaned the air filters. then reactivated the system secured shed and departed site, the system was operational upon departure. Went to dolphin site and checked the shed, it is in good condition, then went and checked the rod road boxes, they are in good condition, then met Ground water analytical who took the DMR samples from me. secured shed and departed

Site. The Aquatic toxicity sample was
sent to Aquatic biological serv. in
Williston, VT VIA Fed Ex
FH

The DMR samples from next site, have a little
silt in them, I believe that carbon units
C/D and partially clogged with silt, this is
due to the break in the vent line from the
East side or otherwise known as the VEB side,

OPERATIONAL DATA FORM
Air Sparging/Soil Vapor Extraction System
Naval Exchange
Naval Submarine Base -Groton, CT
Project #83001-9999

Date: 5/17/00
 Time: 9:30 AM
 Technician: J. K. JR

AIR COMPRESSOR SYSTEM

Flow Rate	<u>35</u>	SCFM	Total Flow	<u>39172791</u>	SCFM
Air Compressor C-1			Air Compressor C-2		
Pressure	<u>7.5</u>	psi	Pressure	<u>NA</u>	psi
Temperature	<u>268</u>	°F	Temperature		°F
Flow Control Valve Setting	<u>100 %</u>		Flow Control Valve Setting		
Bleed Valve	<u>50 %</u>		Bleed Valve	<input checked="" type="checkbox"/>	
Radiator	<input checked="" type="checkbox"/> ON / OFF		Radiator	<input checked="" type="checkbox"/> ON / OFF	

SOIL VAPOR EXTRACTION SYSTEM

Eastern Flow Rate	<u>150 to 315</u>	SCFM	Total Flow	<u>188529138</u>	SCFM
Western Flow Rate	<u>16 to 110</u>	SCFM	Total Flow	<u>55768025</u>	SCFM
Vacuum Pump V-1			Vacuum Pump V-2		
Vacuum	<u>8.5</u>	"Hg	Vacuum	<u>NA</u>	"Hg
Temperature	<u>144</u>	°F	Temperature		°F
Particulate Filter	<u>OK</u>		Particulate Filter		
Flow Control Valve Setting	<u>100 %</u>		Flow Control Valve Setting		
Bleed Air Valve Setting	<u>0</u>		Bleed Air Valve Setting		
Liquid Level	<u>OK</u>		Liquid Level	<input checked="" type="checkbox"/>	
Vacuum Pump V-3			Vacuum Pump V-4		
Vacuum	<u>7</u>	"Hg	Vacuum	<u>NA</u>	"Hg
Temperature	<u>204</u>	°F	Temperature		°F
Particulate Filter	<u>OK</u>		Particulate Filter		
Flow Control Valve Setting	<u>100 %</u>		Flow Control Valve Setting		
Bleed Air Valve Setting	<u>0</u>		Bleed Air Valve Setting		
Liquid Level	<u>OK</u>		Liquid Level	<input checked="" type="checkbox"/>	

ACTIVATED CARBON ADSORPTION SYSTEM

Carbon Adsorber A/B			Carbon Adsorber C/D		
Pressure	<u>10</u>	psi	Pressure		psi
Inf. VOC Level	<u>0.6</u>	ppm	Inf. VOC Level	<u>0.8</u>	ppm
Mid. VOC Level	<u>0.4</u>	ppm	Mid. VOC Level	<u>0.8</u>	ppm
Eff. VOC Level	<u>0.8</u>	ppm	Eff. VOC Level	<u>0.8</u>	ppm
Change out Date	<u>NA</u>		Change out Date	<u>8-22-96</u>	

WATER TREATMENT

Flowmeter Reading NA Gallons (arrival reading) Flowmeter Reading _____ Gallons (departure reading)

COMMENTS

* FILL IN ALL SPACES WITH THE APPROPRIATE READING OR "NA".

Arrival Flowmeter
268925

Departure Flowmeter
268989



PROJECT: Naval Sub base

LOCATION: Croton, CT

PROJECT #: 87260014

OPERATOR: J. K. Jr

DATE: 5/17/00

EQUIPMENT #: ART 112783

PROBE CORRECTION: _____

COMMENTS: _____

WELL MONITORING FORM

WELL ID	WELL DEPTH	DEPTH TO WATER	DEPTH TO PETROLEUM	PETROLEUM THICKNESS	VACUUM OR PRESSURE	VOC CONCENTRATION (PPM)
ERM-12	NA	NA	NA	NA		
ERM-14	NA	6.11	-	NA		
ERM-16	NA	8.17	Light sheen	NA		
OBG-1	NA	6.82	odor	NA		
OBG-9	NA	5.61	-	NA		
Dolphin Mart						
VP-1						
VP-2						
VP-3						
VP-4						
VP-5						
VP-6						
VP-7						
VP-8						
VP-9						
NEX						
VP-1					NA	NA
VP-2					NA	NA
VP-3					0	0
VP-4					0	0
VP-5					0	0
VP-6					0	0
VP-7						
VP-8					0.50 Vacuum	0
VP-9					0	0
VP10					0	0

ATTACHMENT 2
MONTHLY FIELD ACTIVITY SUMMARY

**Field Activity Summary
May 2000**

**New London Naval Submarine Base
Groton, Connecticut**

Date of Visit	Site	Period	Field Activities	Comments
5/8/00	Dolphin Mart	Bi-Weekly Monitoring	Conducted drive-by and checked site security and condition of road boxes.	Site security and road boxes OK.
	NEX		Conducted investigation of damage to air sparge and soil vapor extraction points	Damaged lines were capped.
5/17/00	Dolphin Mart	Bi-Weekly Monitoring	Conducted drive-by and checked site security and condition of road boxes.	Site security and road boxes OK.
	NEX		Conducted O&M on the SVE system.	Could not find monitoring well ERM-12 and vapor points 1 & 2; either removed during excavation or buried during site re-grading.

ATTACHMENT 3
AIR SPARGE/SVE SYSTEM DATABASES

**SYSTEM MONITORING DATA
SOIL VAPOR EXTRACTION/AIR SPARGE SYSTEM**

New London Naval Submarine Base
Dolphin Mart Site
Groton, CT

Date	Days of Operation	Air Sparge Flowrate (scfm)	Extraction Flowrate (scfm)	Extraction Flowrate (cfm)	Influent Concentration BTEX (ppmv)	Removal Rate BTEX (lb/hr)	Influent Concentration MTBE (ppmv)	Removal Rate MTBE (lb/hr)	Influent Concentration Aliphatics (ppmv)	Removal Rate Aliphatics (lb/hr)	Influent Concentration Aromatics (ppmv)	Removal Rate Aromatics (lb/hr)	Influent Concentration TVPH (mg/m3)	Influent Concentration TVPH (ppmv)	Removal Rate TVPH (lb/hr)	Total Mass Removal Rate (lbs/hr)	Period Mass Removed (lbs)	Cumulative Mass Removed (lbs)	Comments
07/02/96	0	25	450	512.26	24.00	0.187	33.00	0.232	1000.00	6.876	0.00	0.000	—	—	0.000	7.295	0.00	0.00	
07/23/96	21	20	449	511.12	11.40	0.091	0.00	0.000	200.00	1.372	0.00	0.000	—	—	0.000	1.463	446.70	446.70	system operated approx. 102 hrs between 7/2 and 7/23
08/08/96	37	32	454	516.81	18.00	0.143	—	0.000	210.00	1.457	12.00	0.103	—	—	0.000	1.702	210.53	657.23	system operated approx. 133 hrs between 7/23 and 8/8
08/30/96	59	0	450	512.26	18.00	0.142	—	0.000	210.00	1.444	12.00	0.102	—	—	0.000	1.687	188.14	845.37	system operated approx. 111 hrs between 8/8 and 8/30
10/02/96	92	30	448	509.98	2.30	0.019	0.00	0.000	—	0.000	—	0.000	NA	36.00	0.288	0.305	0.00	845.37	system not in operation from 8/30 to 10/2 due to flow meter problem
10/18/96	106	30	450	512.26	2.30	0.019	0.00	0.000	—	0.000	—	0.000	NA	36.00	0.287	0.306	102.58	947.95	system reactivated 10/2/96
11/19/96	140	30	450	512.26	0.38	0.003	0.00	0.000	—	0.000	—	0.000	22.00	5.29	0.042	0.045	143.33	1091.28	
12/17/96	188	30	450	512.26	0.12	0.001	0.00	0.000	—	0.000	—	0.000	8.20	1.97	0.016	0.017	20.64	1112.12	
01/27/97	209	30	450	512.26	1.35	0.011	0.00	0.000	—	0.000	—	0.000	55.00	13.23	0.108	0.117	65.56	1177.68	
03/27/97	268	30	450	512.26	0.00	0.000	0.00	0.000	—	0.000	—	0.000	0.00	3.90	0.031	0.031	104.53	1229.95	assume 50% up-time, blowers shutting down due to influent water
04/17/97	289	30	450	512.26	0.00	0.000	0.00	0.000	—	0.000	—	0.000	13.00	3.13	0.025	0.025	14.13	1244.08	
05/21/97	323	15	329	374.52	0.00	0.000	0.00	0.000	—	0.000	—	0.000	24.00	5.77	0.034	0.034	11.96	1256.03	assume 50% up-time, blowers shutting down due to influent water
08/10/97	343	15	329	374.52	0.25	0.002	0.00	0.000	—	0.000	—	0.000	47.00	11.31	0.068	0.067	12.14	1268.17	assume 50% up-time, blowers shutting down due to influent water
07/21/97	384	15	329	374.52	1.89	0.011	0.00	0.000	—	0.000	—	0.000	340.00	81.79	0.477	0.488	136.76	1404.93	assume 50% up-time, blowers shutting down due to influent water
08/29/97	420	15	482	548.69	0.73	0.007	0.00	0.000	—	0.000	—	0.000	45.00	10.82	0.062	0.069	126.91	1531.85	assume 50% up-time, blowers shutting down due to influent water
09/30/97	455	15	482	548.69	0.34	0.003	0.00	0.000	—	0.000	—	0.000	88.00	21.17	0.181	0.184	17.84	1549.69	assume ~15% up-time, blowers shutting down due to influent water
10/23/97	478	14	589	670.49	0.00	0.000	0.00	0.000	—	0.000	—	0.000	100.00	24.06	0.251	0.251	120.10	1669.78	
11/23/97	508	32	590	671.83	0.00	0.000	5.45	0.050	—	0.000	—	0.000	160.00	38.49	0.403	0.453	118.28	1788.06	assume 50% up-time, blowers shutting down due to influent water
12/29/97	545	28	590	671.83	0.45	0.005	0.00	0.000	—	0.000	—	0.000	45.00	10.82	0.113	0.118	133.65	1921.71	assume 50% up-time, blowers shutting down due to influent water
01/22/98	569	27	471	536.16	0.32	0.003	0.00	0.000	—	0.000	—	0.000	24.00	5.77	0.048	0.051	24.38	1946.09	assume 50% up-time, blowers shutting down due to influent water
02/12/98	590	23	265	335.81	0.23	0.001	0.00	0.000	—	0.000	—	0.000	29.00	6.98	0.036	0.038	11.19	1957.28	assume 50% up-time, blowers shutting down due to influent water
03/24/98	630	30	245	278.90	0.45	0.002	0.00	0.000	—	0.000	—	0.000	22.00	5.29	0.023	0.025	19.91	1977.19	system down for approximately one week due to influent water
04/27/98	664	30	215	244.75	0.00	0.000	0.00	0.000	—	0.000	—	0.000	22.00	5.29	0.020	0.020	18.47	1995.65	
07/13/98	741	13	294	334.68	0.14	0.001	0.00	0.000	—	0.000	—	0.000	0.00	0.00	0.000	0.001	9.67	2005.32	assume 50% up-time, blowers shutting down due to influent water
08/18/98	777	10	294	334.68	0.14	0.001	0.00	0.000	—	0.000	—	0.000	26.00	6.25	0.033	0.033	7.37	2012.69	assume 50% up-time, AS blower shut down due to high pressure
09/30/98	820	14	294	334.68	0.07	0.0004	0.00	0.000	—	0.000	—	0.000	26.00	6.25	0.033	0.033	34.22	2048.92	
10/15/98	835	0	231	282.96	0.00	0.0000	0.00	0.000	—	0.000	—	0.000	24.00	5.77	0.024	0.024	5.10	2052.01	assume 50% up-time, AS blower shut down due to high pressure
11/19/98	870	14	223	253.69	0.00	0.0000	0.00	0.000	—	0.000	—	0.000	170.00	40.89	0.162	0.162	38.89	2090.90	assume 50% up-time, AS blower shut down due to high pressure
12/29/98	910	0	442	502.91	0.00	0.0000	0.00	0.000	—	0.000	—	0.000	0.00	0.00	0.000	0.001	39.01	2129.91	assume 50% up-time, AS blower shut down due to high pressure
01/12/99	824	0	255	290.57	0.07	0.0003	0.00	0.000	—	0.000	—	0.000	36.00	8.68	0.039	0.040	6.81	2136.72	
02/10/99	853	0	348	393.83	0.00	0.0000	0.00	0.000	—	0.000	—	0.000	37.00	8.90	0.055	0.055	16.37	2153.09	assume 50% up-time, blowers shutting down due to influent water
03/28/99	897	0	160	182.14	0.00	0.0000	0.00	0.000	—	0.000	—	0.000	0.00	0.00	0.000	0.001	0.38	2153.47	
04/21/99	1023	0	160	182.14	0.00	0.0000	0.00	0.000	—	0.000	—	0.000	0.00	0.00	0.000	0.001	0.38	2153.85	
05/28/99	1058	0	0	0.00	0.00	0.0000	0.00	0.000	—	0.000	—	0.000	0.00	0.00	0.000	0.001	0.00	2153.85	system deactivated May 1999

Notes:

- 1) Aliphatics are weighted using a response factor of hexane. (MW = 86.2)
- 2) Aromatics are weighted using a response factor of o-xylene. (MW=106.16)
- 3) Analytical data for 8/30/96 is assumed based on results of sampling conducted 8/8/96. System was deactivated 8/30/96 due to flow meter failure.
- 4) Flow rate of 10/18/96 through 4/17/97, 8/10/97 and 7/21/97 is assumed. Air flow meter not in operation.
- 5) Analytical data for 10/2 is assumed based on data from 10/18/96.
- 6) Beginning 10/18/96 lab analysis was performed by Mitkem Laboratory. Prior to 10/18/96 air analysis performed by NEI/GTEL
- 7) Mitkem results report total volatile petroleum hydrocarbons, not misc. aromatics and aliphatics.
Total Volatile Petroleum Hydrocarbons are weighted to molecular weight of 100.
- 8) Laboratory results from 11/19/96 to present are reported in mg/m3.

**SYSTEM MONITORING DATA
SOIL VAPOR EXTRACTION/AIR SPARGE SYSTEM**

New London Naval Submarine Base
NEX Site
Groton, CT

Date	Day of Operation	Air Sparge Flowrate (scfm)	Extraction Flowrate (total) (scfm)	Extraction Flowrate (cfm)	Influent Concentration BTEX (ppmv)	Removal Rate BTEX (lb/hr)	Influent Concentration MTBE (ppmv)	Removal Rate MTBE (lb/hr)	Influent Concentration Aliphatics (ppmv)	Removal Rate Aliphatics (lb/hr)	Influent Concentration Aromatics (ppmv)	Removal Rate Aromatics (lb/hr)	Influent Concentration TVPH (mg/m3)	Influent Concentration TVPH (ppmv)	Removal Rate TVPH (lb/hr)	Total Mass Removal Rate (lbs/hr)	Period Mass Removed (lbs)	Cumulative Mass Removed (lbs)	Comments
07/31/98	0	NA*	253	288.00	1.80	0.007	—	0.000	130.00	0.455	0.00	0.000	—	—	0.000	0.463	0.00	0.00	
08/08/98	8	NA*	270	307.35	1.80	0.008	—	0.000	130.00	0.486	0.00	0.000	—	—	0.000	0.494	46.93	46.93	system operated approx. 92 hrs between 7/31 and 8/8
08/22/98	22	NA*	270	307.35	1.80	0.008	—	0.000	130.00	0.486	0.00	0.000	—	—	0.000	0.494	52.85	99.78	24-hour per day system operation began 8/8
09/16/98	47	NA*	320	384.27	2.70	0.015	0.00	0.000	—	0.000	—	0.000	—	—	0.000	0.361	256.56	356.34	
10/16/98	77	NA*	320	384.27	2.50	0.014	0.00	0.000	—	0.000	—	0.000	—	61.00	0.346	0.253	220.98	577.32	
11/19/98	111	NA*	324	368.83	0.95	0.006	0.00	0.000	—	0.000	—	0.000	94.00	22.61	0.130	0.135	158.31	735.63	
12/17/98	139	NA*	310	352.89	0.18	0.001	0.07	0.000	—	0.000	—	0.000	29.00	6.98	0.038	0.040	58.83	794.47	
01/27/99	180	NA*	321	365.41	0.14	0.001	0.00	0.000	—	0.000	—	0.000	20.00	4.81	0.027	0.028	33.39	827.85	
03/27/99	239	NA**	384	437.13	0.00	0.000	0.00	0.000	—	0.000	—	0.000	—	0.55	0.004	0.004	22.62	850.47	
04/17/99	280	NA**	721	820.75	0.00	0.000	0.00	0.000	—	0.000	—	0.000	12.00	2.89	0.037	0.037	10.24	860.71	
05/21/99	294	6***	360	409.81	0.00	0.000	0.00	0.000	—	0.000	—	0.000	0.00	0.00	0.000	0.00	15.46	876.17	
06/10/99	314	2***	300	341.51	0.00	0.000	0.00	0.000	—	0.000	—	0.000	0.00	0.00	0.000	0.00	0.48	876.65	
07/21/99	355	36***	358	407.53	0.00	0.000	0.00	0.000	—	0.000	—	0.000	8.50	2.04	0.013	0.013	6.88	883.53	
08/26/99	391	28***	223	253.28	0.00	0.000	0.00	0.000	—	0.000	—	0.000	0.00	0.00	0.000	0.00	6.04	889.57	One blower down due to high water level in moisture trap.
09/30/99	426	27***	221	251.58	2.37	0.009	6.00	0.021	—	0.000	—	0.000	140.00	33.68	0.132	0.161	68.15	957.72	One blower down due to high water level in moisture trap.
10/23/99	449	47***	322	366.55	2.47	0.013	17.05	0.086	—	0.000	—	0.000	395.00	95.02	0.542	0.641	60.12	1017.84	Two blowers down due to high water level in moisture trap.
11/20/99	477	47***	213	242.47	0.50	0.002	1.12	0.004	—	0.000	—	0.000	68.00	16.36	0.062	0.067	69.68	1087.51	One blower down due to high water level in moisture trap.
12/11/99	498	47	213	242.47	0.50	0.002	1.12	0.004	—	0.000	—	0.000	68.00	16.36	0.062	0.067	40.27	1127.78	
12/29/99	516	47	520	591.37	0.78	0.007	2.18	0.018	—	0.000	—	0.000	140.00	33.68	0.130	0.335	42.29	1170.07	
01/22/00	540	53	479	544.70	2.46	0.020	4.50	0.034	—	0.000	—	0.000	465.00	111.86	0.949	1.003	63.09	1233.15	
02/12/00	561	NA****	324	368.26	0.77	0.004	1.05	0.005	—	0.000	—	0.000	67.50	16.24	0.093	0.103	248.54	1481.70	
03/24/00	601	53	249	282.88	0.44	0.002	0.82	0.003	—	0.000	—	0.000	33.00	7.94	0.035	0.040	32.99	1514.68	
04/27/00	635	53	170	193.52	0.57	0.002	8.32	0.022	—	0.000	—	0.000	76.50	18.40	0.055	0.079	36.71	1551.39	
07/13/00	712	53	154	174.74	1.96	0.005	0.00	0.000	39.42	0.084	0.00	0.000	—	—	—	0.089	63.76	1615.16	
10/07/00	798	0	278	315.89	8.40	0.042	0.00	0.000	—	0.000	—	0.000	890.43	214.19	1.054	1.096	0.00	1615.16	System modification/repair completed, system reactivated.
10/15/00	806	0	278	316.46	8.40	0.042	0.00	0.000	—	0.000	—	0.000	890.43	214.19	1.056	1.098	210.77	1825.92	
11/19/00	841	41	216	245.31	4.67	0.018	0.46	0.002	—	0.000	—	0.000	1679.20	403.93	1.543	1.563	812.98	2638.91	
12/29/00	881	41	148	168.48	0.90	0.002	0.00	0.000	—	0.000	—	0.000	507.90	122.18	0.321	0.323	621.50	3260.40	One blower and air compressor down due to high water.
01/12/01	895	82	307	349.47	3.22	0.018	0.34	0.002	—	0.000	—	0.000	4607.80	1108.41	6.032	6.052	459.46	3719.87	
02/10/01	924	70	294	334.11	0.81	0.004	0.54	0.002	—	0.000	—	0.000	165.78	39.88	0.207	0.214	31.67	3751.54	
03/28/01	968	79	255	290.28	0.08	0.000	0.14	0.001	—	0.000	—	0.000	10.50	2.53	0.011	0.012	7.96	3759.50	One blower and air compressor down due to tripped breaker
04/21/01	994	38	244	277.19	0.26	0.001	0.00	0.000	—	0.000	—	0.000	40.00	9.62	0.042	0.043	20.30	3779.80	
05/28/01	1029	***	0	0.00	0.11	0.000	0.00	0.000	—	0.000	—	0.000	39.50	9.50	0.000	0.000	19.76	3799.56	
08/04/01	1038	***	0	0.00	0.00	0.000	0.00	0.000	—	0.000	—	0.000	0.00	0.00	0.000	0.000	0.00	3799.56	System is non-operational
07/14/01	1078	32	290	330.12	1.82	0.010	4.36	0.020	—	0.000	—	0.000	210.00	50.52	0.280	0.289	32.24	3831.79	System reactivated 7/8/99
08/05/01	1100	37	271	308.49	0.80	0.001	0.00	0.000	—	0.000	—	0.000	0.00	0.00	0.000	0.001	0.15	3831.94	
09/29/01	1155	36	352	400.70	0.84	0.005	0.00	0.000	—	0.000	—	0.000	176.00	42.34	0.284	0.289	91.40	3923.34	
10/12/01	1168	59	346	393.87	0.00	0.000	0.00	0.000	—	0.000	—	0.000	0.00	0.00	0.000	0.000	0.00	3923.34	Vacuum Pump V-3 is offline.
11/30/01	1217	32	289	328.98	0.28	0.001	0.00	0.000	—	0.000	—	0.000	0.00	0.00	0.000	0.001	0.43	3923.77	Vacuum Pump V-3 is replaced and reactivated 10/28/99.
12/18/01	1233	34	383	435.99	0.00	0.000	0.00	0.000	40.50	0.215	0.00	0.000	—	—	—	0.215	31.41	3955.17	
01/05/02	1253	35	354	402.98	0.11	0.001	0.00	0.000	—	0.000	—	0.000	33.00	7.94	0.050	0.051	10.02	3965.19	
02/03/02	1282	71	402	457.62	0.00	0.000	0.00	0.000	—	0.000	—	0.000	38.50	9.26	0.066	0.066	10.69	3975.88	
03/20/02	1328	0	314	357.44	0.00	0.000	0.00	0.000	—	0.000	—	0.000	0.00	0.00	0.000	0.000	0.00	3975.88	Air sparge compressor non-operational
04/28/02	1367	73	411	467.29	0.00	0.000	0.00	0.000	—	0.000	—	0.000	0.00	0.00	0.000	0.000	0.00	3975.88	
05/17/02	1386	35	295	335.81	0.00	0.000	0.00	0.000	—	0.000	—	0.000	0.00	0.00	0.000	0.000	0.00	3975.88	

Notes:

- * Air sparge compressor not activated due to elevated SVE influent concentrations.
- ** Air sparge compressor not activated due to improperly sized pressure switch.
- *** Air sparge compressor activated, but high water levels in the moisture separators cause frequent compressor shut-down.
- **** Air sparge compressor deactivated on 1/28/98 due to lack of vapor recovery from western portion of site.
- 1) Aliphatics are weighted using a response factor of o-xylene. (MW=106.16)
- 2) Aromatics are weighted using a response factor of hexane. (MW=86.2)
- 3) Analytical data for 7/31/98 is assumed based on results of sampling conducted 8/8/98.
- 4) Analytical data for 8/22/98 is assumed based on results of sampling conducted 8/8/98.
- 5) Air flow rate from 10/16/98 assumed for 9/16/98, due to a broken flow meter.
- 6) Beginning 9/16/98 lab analysis was performed by Mitkem Laboratory. Prior to 9/16/98 air analysis performed by NEUGTEL.
- 7) Mitkem results report total volatile petroleum hydrocarbons, not misc. aromatics and aliphatics. Total Volatile Petroleum Hydrocarbons are weighted to molecular weight of 100.
- 8) System modifications to allow continuous dewatering were conducted on December 11, 1997. The data for this date was assumed to be the same as November that for November 20, 1997. Flow rates for this date have been interpolated from 11/20/97 and 12/29/97 data.
- 9) 4/27/98 TVPH results reported as C5-C12 Aliphatics and C9-C10 Aromatics. Ppmv equivalents have been estimated.
- 10) The system was found to be inactive on 8/19/98 due to water in the moisture traps and was not restarted. No samples were taken.
- 11) System modifications and repairs completed on 10/7/98. System reactivated. Influent concentrations assumed to be the same as sampled on 10/15/98.
- 12) On 10/7/98 the east side flowmeter was found to be inoperable. West and East flowrates were subsequently assumed to be equal for mass removal calculation purposes.
- 13) A flow rate weighted average was used to calculate the SVE system influent beginning 10/15/98.
- 14) On 3/28/99 the air sparge compressor was not operating. The air sparge flow rate is based on the March 8 data.
- 15) Air flow data from 4/2/99 used for April's flow rate.

ATTACHMENT 4
HISTORICAL WELL GAUGING DATA

Well Gauging Data

Dolphin Mart Site

New London Naval Submarine Base, Groton, CT

Date	Date	DM-1			DM-2			DM-3			DM-4		
		Well Casing Elevation	Depth to Groundwater	Groundwater Elevation	Well Casing Elevation	Depth to Groundwater	Groundwater Elevation	Well Casing Elevation	Depth to Groundwater	Groundwater Elevation	Well Casing Elevation	Depth to Groundwater	Groundwater Elevation
07/02/96	07/02/96	94.23	6.37	87.86	94.30	NG	NA	94.02	NG	NA	94.81	NG	NA
07/03/96	07/03/96	94.23	NG	NA	94.30	NG	NA	94.02	NG	NA	94.81	NG	NA
07/12/96	07/12/96	94.23	NG	NA	94.30	NG	NA	94.02	NG	NA	94.81	NG	NA
07/16/96	07/16/96	94.23	NG	NA	94.30	NG	NA	94.02	NG	NA	94.81	NG	NA
07/17/96	07/17/96	94.23	NG	NA	94.30	NG	NA	94.02	NG	NA	94.81	NG	NA
07/19/96	07/19/96	94.23	NG	NA	94.30	NG	NA	94.02	NG	NA	94.81	NG	NA
07/22/96	07/22/96	94.23	NG	NA	94.30	NG	NA	94.02	NG	NA	94.81	NG	NA
07/23/96	07/23/96	94.23	NG	NA	94.30	NG	NA	94.02	NG	NA	94.81	NG	NA
07/24/96	07/24/96	94.23	NG	NA	94.30	NG	NA	94.02	NG	NA	94.81	NG	NA
07/25/96	07/25/96	94.23	NG	NA	94.30	NG	NA	94.02	NG	NA	94.81	NG	NA
07/26/96	07/26/96	94.23	NG	NA	94.30	NG	NA	94.02	NG	NA	94.81	NG	NA
08/01/96	08/01/96	94.23	NG	NA	94.30	NG	NA	94.02	NG	NA	94.81	NG	NA
08/02/96	08/02/96	94.23	NG	NA	94.30	NG	NA	94.02	NG	NA	94.81	NG	NA
08/05/96	08/05/96	94.23	NG	NA	94.30	NG	NA	94.02	NG	NA	94.81	NG	NA
09/04/96	09/04/96	94.23	NG	NA	94.30	NG	NA	94.02	NG	NA	94.81	NG	NA
10/02/96	10/02/96	94.23	NG	NA	94.30	NG	NA	94.02	NG	NA	94.81	NG	NA
10/21/96	10/21/96	94.23	NG	NA	94.30	NG	NA	94.02	NG	NA	94.81	NG	NA
11/19/96	11/19/96	94.23	1.90	92.33	94.30	NG	NA	94.02	2.06	91.96	94.81	2.68	92.13
12/17/96	12/17/96	94.23	2.53	91.70	94.30	NG	NA	94.02	1.60	92.42	94.81	NG	NA
01/27/97	01/27/97	94.23	1.91	92.32	94.30	NG	NA	94.02	1.89	92.13	94.81	NG	NA
02/18/97	02/18/97	94.23	1.93	92.30	94.30	NG	NA	94.02	1.90	92.12	94.81	2.04	92.77
03/27/97	03/27/97	94.23	1.89	92.34	94.30	2.27	92.03	94.02	1.86	92.16	94.81	2.41	92.40
04/17/97	04/17/97	94.23	NG	NA	94.30	NG	NA	94.02	NG	NA	94.81	NG	NA
05/21/97	05/21/97	94.23	2.04	92.19	94.30	2.39	91.91	94.02	2.08	91.94	94.81	3.08	91.73
08/27/97	08/27/97	94.23	NG	NA	94.30	NG	NA	94.02	NG	NA	94.81	NG	NA
11/21/97	11/21/97	94.23	2.26	91.97	94.30	3.20	91.10	94.02	2.56	91.46	94.81	3.33	91.48
02/11/98	02/11/98	94.23	1.79	92.44	94.30	2.63	91.67	94.02	1.61	92.41	94.81	1.84	92.97
05/11/98	05/11/98	94.23	1.80	92.43	94.30	1.85	92.45	94.02	1.50	92.52	94.81	2.34	92.47
08/17/98	08/17/98	94.23	2.70	91.53	94.30	3.75	90.55	94.02	3.30	90.72	94.81	1.25	93.56
11/18/98	11/18/98	94.23	2.32	91.91	94.30	2.88	91.42	94.02	2.60	91.42	94.81	3.35	91.46
02/19/99	02/19/99	94.23	2.06	92.17	94.30	2.61	91.69	94.02	1.88	92.14	94.81	2.03	92.78
05/21/99	05/21/99	94.23	2.04	92.19	94.30	2.57	91.73	94.02	2.26	91.76	94.81	3.83	90.98
08/26/99	08/26/99	94.23	4.51	89.72	94.30	5.32	88.98	94.02	5.16	88.86	94.81	5.86	88.95
11/30/99	11/30/99	94.23	2.06	92.17	94.30	2.40	91.90	94.02	2.28	91.74	94.81	2.92	91.89
03/20/00	03/20/00	94.23	1.82	92.41	94.30	2.32	91.98	94.02	1.87	92.15	94.81	1.37	93.44

Notes: Notes: WE-2D, WE-2S, and WE-3 are covered by stand pipes.
 NG = Not Gauged
 * Possible interference due to AS/SVE system
 NA = Not Available
 NG = Not Gauged

Date	DM-5			HRP-10			HRP-11			MW-1		
	Well Casing Elevation	Depth to Groundwater	Groundwater Elevation	Well Casing Elevation	Depth to Groundwater	Groundwater Elevation	Well Casing Elevation	Depth to Groundwater	Groundwater Elevation	Well Casing Elevation	Depth to Groundwater	Groundwater Elevation
07/02/96	101.06	NG	NA	97.05	4.65	92.40	96.79	NG	NA		4.65	
07/03/96	101.06	NG	NA	97.05	5.19	91.86	96.79	NG	NA		4.63	
07/12/96	101.06	NG	NA	97.05	5.81	91.24	96.79	NG	NA		5.01	
07/16/96	101.06	NG	NA	97.05	4.33	92.72	96.79	NG	NA		4.55	
07/17/96	101.06	NG	NA	97.05	2.73	94.32	96.79	NG	NA		4.94	
07/19/96	101.06	NG	NA	97.05	4.38	92.67	96.79	NG	NA		5.21	
07/22/96	101.06	NG	NA	97.05	4.54	92.51	96.79	NG	NA		4.82	
07/23/96	101.06	NG	NA	97.05	4.55	92.50	96.79	NG	NA		4.75	
07/24/96	101.06	NG	NA	97.05	4.33	92.72	96.79	NG	NA		5.22	
07/25/96	101.06	NG	NA	97.05	4.46	92.59	96.79	NG	NA		5.31	
07/26/96	101.06	NG	NA	97.05	4.43	92.62	96.79	NG	NA		4.79	
08/01/96	101.06	NG	NA	97.05	3.93	93.12	96.79	NG	NA		4.96	
08/02/96	101.06	NG	NA	97.05	4.08	92.97	96.79	NG	NA		5.24	
08/05/96	101.06	NG	NA	97.05	4.35	92.70	96.79	NG	NA		5.08	
09/04/96	101.06	NG	NA	97.05	5.43	91.62	96.79	NG	NA		6.07	
10/02/96	101.06	NG	NA	97.05	3.53	93.52	96.79	NG	NA		5.43	
10/21/96	101.06	NG	NA	97.05	3.98	93.07	96.79	NG	NA		NG	
11/19/96	101.06	5.37	95.69	97.05	4.15	92.90	96.79	NG	NA		3.85	
12/17/96	101.06	3.67	97.39	97.05	NG	NA	96.79	NG	NA		3.85	
01/27/97	101.06	4.26	96.80	97.05	3.29	93.76	96.79	NG	NA		2.53	
02/18/97	101.06	NG	NA	97.05	4.04	93.01	96.79	NG	NA		2.98	
03/27/97	101.06	4.60	96.46	97.05	4.04	93.01	96.79	3.21	93.58		2.91	
04/17/97	101.06	NG	NA	97.05	5.25	91.80	96.79	NG	NA		3.48	
05/21/97	101.06	5.19	95.87	97.05	4.11	92.94	96.79	3.43	93.36		3.14	
08/27/97	101.06	NG	NA	97.05	5.01	92.04	96.79	4.10	92.69		3.60	
11/21/97	101.06	6.83	94.23	97.05	4.43	92.62	96.79	3.77	93.02		5.33	
02/11/98	101.06	3.87	97.19	97.05	3.64	93.41	96.79	3.08	93.71		3.23	
05/11/98	101.06	2.41	98.65	97.05	3.65	93.40	96.79	3.16	93.63		1.81	
08/17/98	101.06	7.69	93.37	97.05	5.11	91.94	96.79	3.99	92.80		6.32	
11/18/98	101.06	7.46	93.60	97.05	5.13	91.92	96.79	3.85	92.94		5.74	
02/19/99	101.06	4.38	96.68	97.05	4.15	92.90	96.79	3.33	93.46		2.95	
05/21/99	101.06	5.63	95.43	97.05	4.36	92.69	96.79	3.55	93.24		3.96	
08/26/99	101.06	10.59	90.47	97.05	7.34	89.71	96.79	6.62	90.17		8.99	
11/30/99	101.06	5.50	95.56	97.05	4.20	92.85	96.79	3.50	93.29		4.13	
03/20/00	101.06	3.28	97.78	97.05	4.10	92.95	96.79	3.32	93.47		1.28	

Notes: WE-2D, WE-2S, and WE-3 are covered by stand pipes.

NG = Not Gauged

* Possible interference due to AS/SVE system

Date	MW-2			MW-3			OBG8A			OBG9A		
	Well Casing Elevation	Depth to Groundwater	Groundwater Elevation	Well Casing Elevation	Depth to Groundwater	Groundwater Elevation	Well Casing Elevation	Depth to Groundwater	Groundwater Elevation	Well Casing Elevation	Depth to Groundwater	Groundwater Elevation
07/02/96		3.55			3.12		95.20	NG	NA	94.67	0.82	93.85
07/03/96		2.86			0.00		95.20	NG	NA	94.67	0.89	93.78
07/12/96		3.82			1.95		95.20	NG	NA	94.67	1.85	92.82
07/16/96		2.89			0.74		95.20	NG	NA	94.67	0.69	93.98
07/17/96		1.63			2.79		95.20	NG	NA	94.67	0.00	94.67
07/19/96		0.61			0.00		95.20	NG	NA	94.67	0.00	94.67
07/22/96		1.95			1.17		95.20	NG	NA	94.67	0.00	94.67
07/23/96		3.33			0.00		95.20	NG	NA	94.67	0.20	94.47
07/24/96		1.18			0.00		95.20	NG	NA	94.67	0.00	94.67
07/25/96		NG			NG		95.20	NG	NA	94.67	0.16	94.51
07/26/96		NG			NG		95.20	NG	NA	94.67	0.00	94.67
08/01/96		2.20			1.28		95.20	NG	NA	94.67	NG	NA
08/02/96		1.82			1.31		95.20	NG	NA	94.67	0.00	94.67
08/05/96		NG			1.08		95.20	NG	NA	94.67	0.00	94.67
09/04/96		4.59			DRY		95.20	NG	NA	94.67	NG	NA
10/02/96		NG			3.86		95.20	NG	NA	94.67	NG	NA
10/21/96		NG			NG		95.20	NG	NA	94.67	NG	NA
11/19/96		3.00			DRY		95.20	NG	NA	94.67	NG	NA
12/17/96		2.17			NG		95.20	NG	NA	94.67	NG	NA
01/27/97		2.13			NG		95.20	NG	NA	94.67	NG	NA
02/18/97		2.56			2.28		95.20	NG	NA	94.67	NG	NA
03/27/97		1.86			1.27		95.20	NG	NA	94.67	NG	NA
04/17/97	*	1.94			1.39		95.20	NG	NA	94.67	NG	NA
05/21/97		2.93			2.44		95.20	NG	NA	94.67	NG	NA
08/27/97		4.28			DRY		95.20	NG	NA	94.67	2.46	92.21
11/21/97		3.84			3.06		95.20	2.26	92.94	94.67	0.95	93.72
02/11/98		1.34			1.88		95.20	1.47	93.73	94.67	1.31	93.36
05/11/98		1.99			4.08		95.20	0.31	94.89	94.67	0.98	93.69
08/17/98		4.95			4.96		95.20	2.35	92.85	94.67	2.58	92.09
11/18/98		5.27			3.27		95.20	2.30	92.90	94.67	1.91	92.76
02/19/99		2.59			1.92		95.20	0.50	94.70	94.67	1.77	92.90
05/21/99		3.23			2.20		95.20	1.71	93.49	94.67	2.42	92.25
08/26/99		7.20			6.93		95.20	4.48	90.72	94.67	4.85	89.82
11/30/99		3.20			2.80		95.20	0.81	94.39	94.67	2.38	92.29
03/20/00		2.30			1.73		95.20	1.53	93.67	94.67	2.17	92.50

Notes: WE-2D, WE-2S, and WE-3 are covered by stand pipes.

NG = Not Gauged

* Possible interference due to AS/SVE system

Date	WE-1			WE-1A			WE-2D			WE-2S		
	Well Casing Elevation	Depth to Groundwater	Groundwater Elevation	Well Casing Elevation	Depth to Groundwater	Groundwater Elevation	Well Casing Elevation	Depth to Groundwater	Groundwater Elevation	Well Casing Elevation	Depth to Groundwater	Groundwater Elevation
07/02/96		DRY			DRY		100.84	6.56	94.28	100.86	6.78	94.08
07/03/96		NG			NG		100.84	6.35	94.49	100.86	6.58	94.28
07/12/96		NG			NG		100.84	6.83	94.01	100.86	6.96	93.90
07/16/96		NG			NG		100.84	6.24	94.60	100.86	6.47	94.39
07/17/96		NG			NG		100.84	5.88	94.96	100.86	6.30	94.56
07/19/96		NG			NG		100.84	5.53	95.31	100.86	6.18	94.68
07/22/96		NG			NG		100.84	6.42	94.42	100.86	6.45	94.41
07/23/96		NG			NG		100.84	6.33	94.51	100.86	6.70	94.16
07/24/96		NG			NG		100.84	5.67	95.17	100.86	6.31	94.55
07/25/96		NG			NG		100.84	NG	NA	100.86	NG	NA
07/26/96		NG			NG		100.84	NG	NA	100.86	NG	NA
08/01/96	*	NG			NG		100.84	6.09	94.75	100.86	6.39	94.47
08/02/96		NG			NG		100.84	5.73	95.11	100.86	6.30	94.56
08/05/96		NG			NG		100.84	NG	NA	100.86	NG	NA
09/04/96		NG			NG		100.84	7.51	93.33	100.86	7.39	93.47
10/02/96		NG			NG		100.84	5.82	95.02	100.86	6.41	94.45
10/21/96		NG			NG		100.84	NG	NA	100.86	NG	NA
11/19/96		NG			NG		100.84	5.89	94.95	100.86	6.46	94.40
12/17/96		NG			NG		100.84	NG	NA	100.86	6.10	94.76
01/27/97		NG			NG		100.84	5.73	95.11	100.86	6.24	94.62
02/18/97		NG			NG		100.84	5.84	95.00	100.86	6.32	94.54
03/27/97		5.03			DRY		100.84	5.45	95.39	100.86	6.21	94.65
04/17/97		NG			NG		100.84	NG	NA	100.86	NG	NA
05/21/97		DRY			DRY		100.84	6.11	94.73	100.86	NG	NA
08/27/97		NG			NG		100.84	7.03	93.81	100.86	NG	NA
11/21/97		DRY			DRY		100.84	6.66	94.18	100.86	6.97	93.89
02/11/98		NG			NG		100.84	5.49	95.35	100.86	6.29	94.57
05/11/98		NG			NG		100.84	5.16	95.68	100.86	6.18	94.68
08/17/98		NG			NG		100.84	7.50	93.34	100.86	7.53	93.33
11/18/98		DRY			DRY		100.84	7.23	93.61	100.86	7.62	93.24
02/19/99		NG			NG		100.84	5.72	95.12	100.86	6.44	94.42
05/21/99		NG			NG		100.84	6.26	94.58	100.86	6.69	94.17
08/26/99		NG			NG		100.84	9.84	91.00	100.86	10.12	90.74
11/30/99		NG			NG		100.84	6.09	94.75	100.86	6.67	94.19
03/20/00		NG			NG		100.84	8.47	92.37	100.86	6.54	94.32

Notes: WE-2D, WE-2S, and WE-3 are covered by stand pipes.

NG = Not Gauged

* Possible interference due to AS/SVE system

Date	WE-3			WE-4			WE-5			WE-6		
	Well Casing Elevation	Depth to Groundwater	Groundwater Elevation	Well Casing Elevation	Depth to Groundwater	Groundwater Elevation	Well Casing Elevation	Depth to Groundwater	Groundwater Elevation	Well Casing Elevation	Depth to Groundwater	Groundwater Elevation
07/02/96	103.14	8.67	103.14	97.52	4.24	93.28	99.72	4.80	94.92	97.32	3.40	93.92
07/03/96	103.14	8.69	94.47	97.52	6.38	91.14	99.72	4.33	95.39	97.32	2.30	95.02
07/12/96	103.14	8.93	94.45	97.52	6.38	91.14	99.72	4.98	94.74	97.32	3.60	93.72
07/16/96	103.14	8.50	94.21	97.52	6.27	91.25	99.72	4.08	95.64	97.32	2.76	94.56
07/17/96	103.14	8.62	94.64	97.52	6.47	91.05	99.72	3.62	96.10	97.32	1.72	95.60
07/19/96	103.14	8.45	94.52	97.52	NG	NA	99.72	3.19	96.53	97.32	1.08	96.24
07/22/96	103.14	8.64	94.69	97.52	3.68	93.84	99.72	3.73	95.99	97.32	1.96	95.36
07/23/96	103.14	8.72	94.50	97.52	8.72	88.80	99.72	4.49	95.23	97.32	2.40	94.92
07/24/96	103.14	8.45	94.42	97.52	3.38	94.14	99.72	3.33	96.39	97.32	1.49	95.83
07/25/96	103.14	NG	NA	97.52	NG	NA	99.72	NG	NA	97.32	2.12	95.20
07/26/96	103.14	NG	NA	97.52	NG	NA	99.72	NG	NA	97.32	2.95	94.37
08/01/96	103.14	8.55	103.14	97.52	3.22	94.30	99.72	4.06	95.66	97.32	1.15	96.17
08/02/96	103.14	8.56	94.59	97.52	2.96	94.56	99.72	3.76	95.96	97.32	0.86	96.46
08/05/96	103.14	NG	NA	97.52	NG	NA	99.72	NG	NA	97.32	1.28	96.04
09/04/96	103.14	9.73	103.14	97.52	5.11	92.41	99.72	6.23	93.49	97.32	4.59	92.73
10/02/96	103.14	8.41	93.41	97.52	3.11	94.41	99.72	3.96	95.76	97.32	1.60	95.72
10/21/96	103.14	NG	NA	97.52	NG	NA	99.72	NG	NA	97.32	2.43	94.89
11/19/96	103.14	8.32	103.14	97.52	3.53	93.99	99.72	3.87	95.85	97.32	2.90	94.42
12/17/96	103.14	7.92	94.82	97.52	2.17	95.35	99.72	2.96	96.76	97.32	2.10	95.22
01/27/97	103.14	7.94	95.22	97.52	3.08	94.44	99.72	3.26	96.46	97.32	1.53	95.79
02/18/97	103.14	7.95	95.20	97.52	3.49	94.03	99.72	3.21	96.51	97.32	2.55	94.77
03/27/97	103.14	8.08	95.19	97.52	1.66	95.86	99.72	3.51	96.21	97.32	1.15	96.17
04/17/97	103.14	NG	NA	97.52	3.00	94.52	99.72	3.18	96.54	97.32	1.30	96.02
05/21/97	103.14	8.20	103.14	97.52	3.73	93.79	99.72	4.07	95.65	97.32	2.84	94.48
08/27/97	103.14	9.54	94.94	97.52	4.69	92.83	99.72	5.77	93.95	97.32	4.07	93.25
11/21/97	103.14	8.86	93.60	97.52	7.53	89.99	99.72	5.29	94.43	97.32	3.56	93.76
02/11/98	103.14	8.33	94.28	97.52	2.14	95.38	99.72	2.87	96.85	97.32	1.35	95.97
05/11/98	103.14	7.91	94.81	97.52	7.51	*	99.72	2.50	97.22	97.32	2.02	95.30
08/17/98	103.14	9.78	95.23	97.52	7.45	*	99.72	5.81	93.91	97.32	4.61	92.71
11/18/98	103.14	8.88	93.36	97.52	8.65	*	99.72	6.15	93.57	97.32	5.42	91.90
02/19/99	103.14	8.49	94.65	97.52	3.49	94.03	99.72	3.51	96.21	97.32	2.50	94.82
05/21/99	103.14	8.57	94.57	97.52	4.95	92.57	99.72	4.66	95.06	97.32	3.06	94.26
08/26/99	103.14	12.04	91.10	97.52	7.53	89.99	99.72	9.10	90.62	97.32	6.94	90.38
11/30/99	103.14	8.60	94.54	97.52	3.93	93.59	99.72	4.35	95.37	97.32	3.02	94.30
03/20/00	103.14	8.31	94.83	97.52	3.27	94.25	99.72	2.83	96.89	97.32	2.26	95.06

Notes: WE-2D, WE-2S, and WE-3 are covered by stand pipes.

NG = Not Gauged

* Possible interference due to AS/SVE system

Well Gauging Data

NEX Site

New London Naval Submarine Base, Groton, CT

Date	ERM-5			ERM-6			ERM-7		
	Well Casing Elevation	Depth to Groundwater/Product	Groundwater Elevation	Well Casing Elevation	Depth to Groundwater/Product	Groundwater Elevation	Well Casing Elevation	Depth to Groundwater/Product	Groundwater Elevation
09/16/96		3.82		22.09	5.14	16.95	21.98	5.27	16.71
10/16/96		NG		22.09	4.82	17.27	21.98	4.75	17.23
11/18/96		3.72		22.09	4.64	17.45	21.98	4.93	17.05
12/16/96		3.10		22.09	4.08	18.01	21.98	4.21	17.77
02/17/97		3.00		22.09	4.34	17.75	21.98	4.29	17.69
03/27/97		2.89		22.09	4.28	17.81	21.98	4.19	17.79
04/15/97		NG		22.09	NG	NA	21.98	NG	NA
04/17/97		2.73		22.09	NG	NA	21.98	NG	NA
04/24/97		NG		22.09	NG	NA	21.98	NG	NA
05/21/97		NG		22.09	4.72	17.37	21.98	4.61	17.37
08/28/97		NG		22.09	5.29	16.80	21.98	6.49	15.49
11/20/97		4.35		22.09	5.24	16.85	21.98	5.35	16.63
02/12/98		3.59		22.09	4.68	17.41	21.98	4.71	17.27
05/12/98		2.09		22.09	2.69	19.40	21.98	3.32	18.66
08/19/98		3.43		22.09	5.26	16.83	21.98	5.19	16.79
11/19/98		4.58		22.09	5.80	16.29	21.98	5.80	16.18
02/18/99		3.80		22.09	4.74	17.35	21.98	NG	NA
05/26/99		3.52		22.09	5.16	16.93	21.98	5.02	16.96
08/30/99		5.35		22.09	6.15	15.94	21.98	6.47	15.51
09/29/99		NG		22.09	NG	NA	21.98	NG	NA
11/29/99		5.36		22.09	6.01	16.08	21.98	NG	NA
03/14/00		4.50		22.09	5.22	16.87	21.98	NG	NA

NG = Not Gauged; NI = Not Installed

Date	ERM-8			ERM-9			ERM-10		
	Well Casing Elevation	Depth to Groundwater/Product	Groundwater Elevation	Well Casing Elevation	Depth to Groundwater/Product	Groundwater Elevation	Well Casing Elevation	Depth to Groundwater/Product	Groundwater Elevation
09/16/96		NG			NG			NG	
10/16/96		NG			NG			NG	
11/18/96		NG			NG			NG	
12/16/96		NG			NG			NG	
02/17/97		NG			NG			NG	
03/27/97		NG			NG			NG	
04/15/97		NG			NG			NG	
04/17/97		NG			NG			NG	
04/24/97		NG			NG			NG	
05/21/97		NG			NG			NG	
08/28/97		NG			NG			NG	
11/20/97		NG			NG			NG	
02/12/98		NG			NG			NG	
05/12/98		NG			NG			NG	
08/19/98		NG			NG			NG	
11/19/98		NG			NG			NG	
02/18/99		NG			NG			NG	
05/26/99		NG			NG			NG	
08/30/99		NG			NG			NG	
09/29/99		NG			NG			NG	
11/29/99		NG			NG			NG	
03/14/00		NG			NG			NG	

Date	ERM-11			ERM-12			ERM-13		
	Well Casing Elevation	Depth to Groundwater/Product	Groundwater Elevation	Well Casing Elevation	Depth to Groundwater/Product	Groundwater Elevation	Well Casing Elevation	Depth to Groundwater/Product	Groundwater Elevation
09/16/96	23.19	NG	NA	23.16	8.38	14.78	26.01	7.01	19.00
10/16/96	23.19	6.4	16.79	23.16	8.13	15.03	26.01	7.15	18.86
11/18/96	23.19	6.36	16.83	23.16	8.09	15.07	26.01	7.13	18.88
12/16/96	23.19	5.02	18.17	23.16	7.83	15.33	26.01	6.55	19.46
02/17/97	23.19	4.89	18.30	23.16	7.65	15.51	26.01	6.03	19.98
03/27/97	23.19	5.19	18.00	23.16	7.63	15.53	26.01	5.98	20.03
04/15/97	23.19	NG	NA	23.16	NG	NA	26.01	5.86	20.15
04/17/97	23.19	NG	NA	23.16	NG	NA	26.01	NG	NA
04/24/97	23.19	NG	NA	23.16	NG	NA	26.01	NG	NA
05/21/97	23.19	6.27	16.92	23.16	7.81/7.80	15.35	26.01	6.15	19.86
08/28/97	23.19	7.65	15.54	23.16	NG	NA	26.01	7.24	18.77
11/20/97	23.19	6.89	16.30	23.16	8.23	14.93	26.01	7.84	18.17
02/12/98	23.19	5.04	18.15	23.16	7.99	15.17	26.01	6.71	19.30
05/12/98	23.19	4.39	18.80	23.16	7.90	15.26	26.01	5.23	20.78
08/19/98	23.19	7.56	15.63	23.16	8.34/sheen	14.82	26.01	6.51	19.50
11/19/98	23.19	7.65	15.54	23.16	8.22	14.94	26.01	8.06	17.95
02/18/99	23.19	NG	NG	23.16	8.37	14.79	26.01	NG	NG
05/26/99	23.19	6.92	16.27	23.16	9.02/sheen	14.14	26.01	6.88	19.13
08/30/99	23.19	8.30	14.89	23.16	8.54	14.62	26.01	8.10	17.91
09/29/99	23.19	NG	NA	23.16	8.16/sheen	15.00	26.01	NG	NA
11/29/99	23.19	NG	NA	23.16	8.10	15.06	26.01	NG	NA
03/14/00	23.19	NG	NA	23.16	NG	NA	26.01	NG	NA

Date	ERM-14			ERM-15			ERM-16		
	Well Casing Elevation	Depth to Groundwater/Product	Groundwater Elevation	Well Casing Elevation	Depth to Groundwater/Product	Groundwater Elevation	Well Casing Elevation	Depth to Groundwater/Product	Groundwater Elevation
09/16/96	25.56	6.89	18.67		4.30			8.51	
10/16/96	25.56	6.92	18.64		3.94			8.49	
11/18/96	25.56	7.10/6.91	18.61		4.03			8.43	
12/16/96	25.56	6.35	19.21		NG			7.8	
02/17/97	25.56	5.89	19.67		NG			7.85	
03/27/97	25.56	5.82	19.74		NG			7.79	
04/15/97	25.56	5.7	19.86		3.39			7.84	
04/17/97	25.56	5.66	19.90		3.31			NG	
04/24/97	25.56	NG	NA		NG			NG	
05/21/97	25.56	6.04/5.99	19.56		NG			8.16	
08/28/97	25.56	7.24/7.01	18.49		NG			8.63/sheen	
11/20/97	25.56	7.63	17.93		4.46			8.77	
02/12/98	25.56	6.59	18.97		3.54			8.18	
05/12/98	25.56	5.09	20.47		2.63			7.32	
08/19/98	25.56	6.37/sheen	19.19		4.02			8.79/8.75	
11/19/98	25.56	7.80	17.76		4.59			9.03/9.00	
02/18/99	25.56	7.47	18.09		4.29			8.00	
05/26/99	25.56	6.62	18.94		3.47			8.58/sheen	
08/30/99	25.56	7.73	17.83		5.26			9.31/9.28	
09/29/99	25.56	7.69	17.87		NG			8.86/sheen	
11/29/99	25.56	7.82	17.74		5.29			8.89/sheen	
03/14/00	25.56	6.81	18.75		4.18			8.04	

Date	ERM-17			ERM-18			ERM-19		
	Well Casing Elevation	Depth to Groundwater/Product	Groundwater Elevation	Well Casing Elevation	Depth to Groundwater/Product	Groundwater Elevation	Well Casing Elevation	Depth to Groundwater/Product	Groundwater Elevation
09/16/96		5.62			3.65		22.42	5.28	17.14
10/16/96		5.56			3.96		22.42	5.17	17.25
11/18/96		5.53			NG		22.42	5.19	17.23
12/16/96		3.73			NG		22.42	4.23	18.19
02/17/97		4.53			NG		22.42	4.18	18.24
03/27/97		4.87			NG		22.42	4.06	18.36
04/15/97		4.84			NG		22.42	NG	NA
04/17/97		4.67			NG		22.42	3.91	18.51
04/24/97		NG			NG		22.42	NG	NA
05/21/97		5.26			NG		22.42	4.46	17.96
08/28/97		5.77			NG		22.42	5.41	17.01
11/20/97		5.77			NG		22.42	5.79	16.63
02/12/98		5.14			NG		22.42	4.44	17.98
05/12/98		2.98			NG		22.42	3.43	18.99
08/19/98		5.83			NG		22.42	5.11	17.31
11/19/98		6.05			NG		22.42	6.29	16.13
02/18/99		NG			NG		22.42	NG	NA
05/26/99		5.20			NG		22.42	5.06	17.36
08/30/99		6.21			NG		22.42	6.21	16.21
09/29/99		NG			NG		22.42	NG	NA
11/29/99		NG			NG		22.42	NG	NA
03/14/00		NG			NG		22.42	NG	NA

Date	FD-1			FD-2			FD-3		
	Well Casing Elevation	Depth to Groundwater/Product	Groundwater Elevation	Well Casing Elevation	Depth to Groundwater/Product	Groundwater Elevation	Well Casing Elevation	Depth to Groundwater/Product	Groundwater Elevation
09/16/96	NI	NI	NI	NI	NI	NI	NI	NI	NI
10/16/96	NI	NI	NI	NI	NI	NI	NI	NI	NI
11/18/96	NI	NI	NI	NI	NI	NI	NI	NI	NI
12/16/96	NI	NI	NI	NI	NI	NI	NI	NI	NI
02/17/97	NI	NI	NI	NI	NI	NI	NI	NI	NI
03/27/97	NI	NI	NI	NI	NI	NI	NI	NI	NI
04/15/97	NI	NI	NI	NI	NI	NI	NI	NI	NI
04/17/97	NI	NI	NI	NI	NI	NI	NI	NI	NI
04/24/97	NI	NI	NI	NI	NI	NI	NI	NI	NI
05/21/97	NI	NI	NI	NI	NI	NI	NI	NI	NI
08/28/97	NI	NI	NI	NI	NI	NI	NI	NI	NI
11/20/97	NI	NI	NI	NI	NI	NI	NI	NI	NI
02/12/98	NI	NI	NI	NI	NI	NI	NI	NI	NI
05/12/98	NI	NI	NI	NI	NI	NI	NI	NI	NI
08/19/98	NI	NI	NI	NI	NI	NI	NI	NI	NI
11/19/98	NI	NI	NI	NI	NI	NI	NI	NI	NI
02/18/99	NI	NI	NI	NI	NI	NI	NI	NI	NI
05/26/99	14.80	8.05	6.75	14.76	8.26	6.50	14.20	8.43	5.77
08/30/99	14.80	8.52	6.28	14.76	8.74	6.02	14.20	8.58	5.62
09/30/99	14.80	NG	NA	14.76	NG	NA	14.20	NG	NA
11/29/99	14.80	8.38	6.42	14.76	8.63	6.13	14.20	8.82	5.38
03/14/00	14.80	7.73	7.07	14.76	7.88	6.88	14.20	8.71	5.49

Date	MW-4			MW-6			NEX-1		
	Well Casing Elevation	Depth to Groundwater/Product	Groundwater Elevation	Well Casing Elevation	Depth to Groundwater/Product	Groundwater Elevation	Well Casing Elevation	Depth to Groundwater/Product	Groundwater Elevation
09/16/96		NG			NG		24.16	NG	NA
10/16/96		NG			NG		24.16	NG	NA
11/18/96		NG			NG		24.16	NG	NA
12/16/96		NG			NG		24.16	NG	NA
02/17/97		NG			NG		24.16	NG	NA
03/27/97		4.91			4.49		24.16	5.81	18.35
04/15/97		NG			NG		24.16	5.74	18.42
04/17/97		NG			NG		24.16	NG	NA
04/24/97		NG			NG		24.16	NG	NA
05/21/97		NG			4.85		24.16	5.80	18.36
08/28/97		NG			5.34		24.16	6.15	18.01
11/20/97		NG			5.33		24.16	6.45	17.71
02/12/98		NG			4.92		24.16	5.28	18.88
05/12/98		4.16			3.74		24.16	5.20	18.96
08/19/98		NG			5.41		24.16	5.99	18.17
11/19/98		6.99			5.64		24.16	6.31	17.85
02/18/99		6.12			4.72		24.16	NG	NA
05/26/99		6.02			4.83		24.16	6.42	17.74
08/30/99		7.21			5.80		24.16	6.64	17.52
09/29/99		NG			NG		24.16	NG	NA
11/29/99		7.20			5.48		24.16	NG	NA
03/14/00		6.28			5.22		24.16	NG	NA

Date	OBG-1			OBG-2			OBG-4		
	Well Casing Elevation	Depth to Groundwater/ Product	Groundwater Elevation	Well Casing Elevation	Depth to Groundwater/ Product	Groundwater Elevation	Well Casing Elevation	Depth to Groundwater/ Product	Groundwater Elevation
09/16/96		NG		25.36	NG	NA	25.22	NG	NA
10/16/96		NG		25.36	NG	NA	25.22	NG	NA
11/18/96		NG		25.36	NG	NA	25.22	NG	NA
12/16/96		NG		25.36	NG	NA	25.22	NG	NA
02/17/97		NG		25.36	NG	NA	25.22	NG	NA
03/27/97		8.12		25.36	7.95	17.41	25.22	7.75	17.47
04/15/97		NG		25.36	7.92	17.44	25.22	7.75	17.47
04/17/97		NG		25.36	7.91	17.45	25.22	7.78	17.44
04/24/97		NG		25.36	NG	NA	25.22	7.74	17.48
05/21/97		7.98		25.36	7.81	17.55	25.22	7.64	17.58
08/28/97		8.22		25.36	8.03	17.33	25.22	7.9	17.32
11/20/97		8.43		25.36	8.23	17.13	25.22	8.07	17.15
02/12/98		8.19		25.36	8.01	17.35	25.22	7.84	17.38
05/12/98		7.88/7.87		25.36	7.71	17.65	25.22	7.51	17.71
08/19/98		8.13		25.36	7.94	17.42	25.22	7.76	17.46
11/19/98		8.21		25.36	8.03	17.33	25.22	7.91	17.31
02/18/99		7.97		25.36	7.78	17.58	25.22	7.26	17.96
05/26/99		8.35		25.36	8.17	17.19	25.22	8.05	17.17
08/30/99		8.58		25.36	8.74	16.62	25.22	8.48	16.74
09/29/99		6.48		25.36	NG	NA	25.22	NG	NA
11/29/99		8.61		25.36	8.81	16.55	25.22	8.51	16.71
03/14/00		7.72		25.36	7.94	17.42	25.22	7.63	17.59

Date	OBG-6			OBG-7			OBG-8		
	Well Casing Elevation	Depth to Groundwater/ Product	Groundwater Elevation	Well Casing Elevation	Depth to Groundwater/ Product	Groundwater Elevation	Well Casing Elevation	Depth to Groundwater/ Product	Groundwater Elevation
09/16/96	24.76	NG	NA	25.47	NG	NA	24.87	NG	NA
10/16/96	24.76	NG	NA	25.47	NG	NA	24.87	NG	NA
11/18/96	24.76	NG	NA	25.47	NG	NA	24.87	NG	NA
12/16/96	24.76	NG	NA	25.47	NG	NA	24.87	NG	NA
02/17/97	24.76	NG	NA	25.47	NG	NA	24.87	NG	NA
03/27/97	24.76	7.95	16.81	25.47	5.61	19.86	24.87	NG	NA
04/15/97	24.76	NG	NA	25.47	NG	NA	24.87	NG	NA
04/17/97	24.76	NG	NA	25.47	NG	NA	24.87	NG	NA
04/24/97	24.76	NG	NA	25.47	NG	NA	24.87	NG	NA
05/21/97	24.76	NG	NA	25.47	5.79	19.68	24.87	5.60	19.27
08/28/97	24.76	NG	NA	25.47	6.49	18.98	24.87	NG	NA
11/20/97	24.76	NG	NA	25.47	7.09	18.38	24.87	NG	NA
02/12/98	24.76	NG	NA	25.47	5.84	19.63	24.87	NG	NA
05/12/98	24.76	NG	NA	25.47	4.56	20.91	24.87	NG	NA
08/19/98	24.76	NG	NA	25.47	5.83	19.64	24.87	NG	NA
11/19/98	24.76	NG	NA	25.47	7.22	18.25	24.87	NG	NA
02/18/99	24.76	NG	NG	25.47	NG	NG	24.87	NG	NG
05/26/99	24.76	NG	NG	25.47	6.04	19.43	24.87	NG	NG
08/30/99	24.76	NG	NG	25.47	7.66	17.81	24.87	NG	NG
09/29/99	24.76	NG	NG	25.47	NG	NG	24.87	NG	NG
11/29/99	24.76	NG	NG	25.47	NG	NG	24.87	NG	NG
03/14/00	24.76	NG	NG	25.47	NG	NG	24.87	NG	NG

Date	OBG-9			VEA-4			VEA-7		
	Well Casing Elevation	Depth to Groundwater/Product	Groundwater Elevation	Well Casing Elevation	Depth to Groundwater/Product	Groundwater Elevation	Well Casing Elevation	Depth to Groundwater/Product	Groundwater Elevation
09/16/96	24.93	NG	NA		NG			NG	
10/16/96	24.93	NG	NA		NG			NG	
11/18/96	24.93	NG	NA		NG			NG	
12/16/96	24.93	NG	NA		NG			NG	
02/17/97	24.93	NG	NA		NG			NG	
03/27/97	24.93	5.54	19.39		NG			NG	
04/15/97	24.93	5.54	19.39		NG			NG	
04/17/97	24.93	5.58	19.35		NG			NG	
04/24/97	24.93	NG	NA		NG			NG	
05/21/97	24.93	5.84/5.31	19.49		NG			NG	
08/28/97	24.93	6.56/6.45	18.45		NG			NG	
11/20/97	24.93	7.06	17.87		NG			NG	
02/12/98	24.93	NG	NA		NG			NG	
05/12/98	24.93	4.60/4.58	20.35		NG			NG	
08/19/98	24.93	5.81	19.12		NG			NG	
11/19/98	24.93	7.34	17.59		NG			NG	
02/18/99	24.93	6.36	18.57		NG			NG	
05/26/99	24.93	6.05	18.88	3.25	2.73	0.52		NG	
08/30/99	24.93	7.28	17.65	3.25	DRY	NA		DRY	
09/29/99	24.93	7.19	17.74	3.25	NG			NG	
11/29/99	24.93	7.40	17.53	3.25	3.20	0.05		NG	
03/14/00	24.93	6.36	18.57	3.25	2.56	0.69		2.81	

Date	VEA-14			VEB-6		
	Well Casing Elevation	Depth to Groundwater/Product	Groundwater Elevation	Well Casing Elevation	Depth to Groundwater/Product	Groundwater Elevation
09/16/96		NG			NG	
10/16/96		NG			NG	
11/18/96		NG			NG	
12/16/96		NG			NG	
02/17/97		NG			NG	
03/27/97		NG			NG	
04/15/97		NG			NG	
04/17/97		NG			NG	
04/24/97		NG			NG	
05/21/97		NG			NG	
08/28/97		NG			NG	
11/20/97		NG			NG	
02/12/98		NG			NG	
05/12/98		NG			NG	
08/19/98		NG			NG	
11/19/98		NG			NG	
02/18/99		NG			NG	
05/26/99	7.07	4.46	2.61		DRY	
08/30/99	7.07	5.65	1.42		DRY	
09/29/99	7.07	NG	7.07		NG	
11/29/99	7.07	5.77	1.30		DRY	
03/14/00	7.07	4.45	2.62		NG	

ATTACHMENT 5
HISTORICAL GROUNDWATER SAMPLING RESULTS

Table 1
Historical Groundwater Sampling Results
Dolphin Mart - March 1995 - March 2000
Naval Submarine Base, Groton, CT

(analytical results in µg/l)
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Compound		BTEX				MTBE	TPH (By EPA Method 418.1) ¹	Total Volatiles (by EPA Method 8010/8020) ²	DRO	GRO
		Benzene	Toluene	Ethylbenzene	Xylenes					
Remediation Standard		1.0	1,000	700	530	100	500	NA	NA	NA
Well	Date									
DM-1	3/95	<1.0	<1.0	<1.0	<1.0	<2.0	<473	NS	NS	NS
	5/96	<1.0	<1.0	<1.0	<1.0	4.0	<473	NS	NS	NS
	11/96	<1.0	<1.0	<1.0	<1.0	<1.0	<1,000	<1.0	1,000	<500
	2/97	NS	NS	NS	NS	NS	NS	NS	NS	NS
	5/97	<1.0	<1.0	<1.0	<1.0	<1.0	<500	<1.0	<500	<500
	8/97	NS	NS	NS	NS	NS	NS	NS	NS	NS
	11/97	<1.0	<1.0	<1.0	<1.0	<1.0	<500	<1.0	NS	NS
	2/98	<1.0	<1.0	<1.0	<1.0	<1.0	<500	<1.0	NS	NS
	5/98	<1.0	3.0	<1.0	3.0	<1.0	<500	6.0	NS	NS
	8/98	<1.0	<1.0	<1.0	<1.0	3.0	<500	3.0	NS	NS
	11/98	<1.0	<1.0	<1.0	2.0	3.0	<400	5.0	NS	NS
	2/99	<1.0	<1.0	<1.0	<1.0	1.0	<400	1.0	NS	NS
	5/99	<1.0	<1.0	<1.0	<1.0	1.0	<400	1.0	NS	NS
	8/99	<1.0	<1.0	<1.0	<1.0	<1.0	<400	<1.0	NS	NS
	11/99	<1.0	<1.0	<1.0	4.0	4.0	<400	8.0	NS	NS
3/00	<1.0	<1.0	<1.0	<1.0	<5.0	<200	<5.0	NS	NS	

Notes: NA = Not Analyzed
NS = Not sampled (NS results have been shaded)
Bold numbers indicate an exceedance of State of CT Clean-up Standards
B = Analyte detected in method blank, D = Analyte concentration was obtained from a diluted analysis, E = Analyte concentration exceeded the calibration range
DRO=Diesel Range Organics, GRO=Gasoline Range Organics
¹ = Beginning 5/98, TPH was analyzed using EPA Method 8100M
² = Beginning 5/98, Total Volatiles (BTEX and MTBE only) were analyzed using EPA Method 8021B

Table 1
Historical Groundwater Sampling Results
Dolphin Mart - March 1995 - March 2000
Naval Submarine Base, Groton, CT

(analytical results in µg/l)
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Compound	BTEX				MTBE	TPH (By EPA Method 418.1) ¹	Total Volatiles (by EPA Method 8010/8020) ²	DRO	GRO	
	Benzene	Toluene	Ethylbenzene	Xylenes						
Remediation Standard	1.0	1,000	700	530	100	500	NA	NA	NA	
Well	Date									
DM-2	3/95	<1.0	<1.0	<1.0	<1.0	<2.0	<473	NS	NS	NS
	5/96	<1.0	<1.0	<1.0	<1.0	4.0	<473	NS	NS	NS
	11/96	NS	NS	NS	NS	NS	NS	NS	NS	NS
	2/97	NS	NS	NS	NS	NS	NS	NS	NS	NS
	5/97	<1.0	<1.0	<1.0	<1.0	<1.0	<500	<1.0	<500	<500
	8/97	NS	NS	NS	NS	NS	NS	NS	NS	NS
	11/97	<1.0	<1.0	<1.0	<1.0	8.0	<500	8.0	NS	NS
	2/98	<1.0	<1.0	<1.0	<1.0	5.0	<500	5.0	NS	NS
	5/98	<1.0	<1.0	<1.0	<1.0	2.0	1,500	2.0	NS	NS
	8/98	<1.0	<1.0	<1.0	<1.0	19	<500	19	NS	NS
	11/98	<1.0	<1.0	<1.0	<1.0	9.0	<400	9.0	NS	NS
	2/99	<1.0	<1.0	<1.0	<1.0	4.0	<400	4.0	NS	NS
	5/99	<1.0	<1.0	<1.0	<1.0	3.0	<400	3.0	NS	NS
	8/99	<1.0	<1.0	<1.0	<1.0	6.0	<400	6.0	NS	NS
	11/99	<1.0	<1.0	<1.0	<1.0	4.0	<400	4.0	NS	NS
3/00	<1.0	<1.0	<1.0	<1.0	<5.0	400	<5.0	NS	NS	

Notes: NA = Not Analyzed
NS = Not sampled (NS results have been shaded)
Bold numbers indicate an exceedance of State of CT Clean-up Standards
B = Analyte detected in method blank, D = Analyte concentration was obtained from a diluted analysis, E = Analyte concentration exceeded the calibration range
DRO=Diesel Range Organics, GRO=Gasoline Range Organics
¹ = Beginning 5/98, TPH was analyzed using EPA Method 8100M
² = Beginning 5/98, Total Volatiles (BTEX and MTBE only) were analyzed using EPA Method 8021B

Table 1
Historical Groundwater Sampling Results
Dolphin Mart - March 1995 - March 2000
Naval Submarine Base, Groton, CT

(analytical results in µg/l)
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Compound	BTEX				MTBE	TPH (By EPA Method 418.1) ¹	Total Volatiles (by EPA Method 8010/8020) ²	DRO	GRO	
	Benzene	Toluene	Ethylbenzene	Xylenes						
Remediation Standard	1.0	1,000	700	530	100	500	NA	NA	NA	
Well	Date									
DM-3	3/95	<1.0	<1.0	<1.0	<1.0	7.9	<473	NS	NS	NS
	5/96	<1.0	<1.0	<1.0	<1.0	<2.0	<473	NS	NS	NS
	11/96	<1.0	<1.0	<1.0	<1.0	<1.0	<1,000	7.0	<500	<500
	2/97	NS	NS	NS	NS	NS	NS	NS	NS	NS
	5/97	<1.0	<1.0	<1.0	<1.0	<1.0	<500	<1.0	<500	<500
	8/97	NS	NS	NS	NS	NS	NS	NS	NS	NS
	11/97	<1.0	<1.0	<1.0	<1.0	<1.0	<500	<1.0	NS	NS
	2/98	<1.0	<1.0	<1.0	<1.0	<1.0	<500	<1.0	NS	NS
	5/98	<1.0	<1.0	<1.0	<1.0	<1.0	<500	<1.0	NS	NS
	8/98	<1.0	<1.0	<1.0	<1.0	1.0	<500	1.0	NS	NS
	11/98	<1.0	<1.0	<1.0	<1.0	2.0	<400	2.0	NS	NS
	2/99	<1.0	<1.0	<1.0	<1.0	<1.0	<400	<1.0	NS	NS
	5/99	<1.0	<1.0	<1.0	<1.0	<1.0	<400	<1.0	NS	NS
	8/99	<1.0	<1.0	<1.0	<1.0	<1.0	NA	<1.0	NS	NS
	11/99	<1.0	<1.0	<1.0	<1.0	1.0	<400	1.0	NS	NS
3/00	<1.0	<1.0	<1.0	<1.0	<5.0	400	<5.0	NS	NS	

Notes: NA = Not Analyzed

NS = Not sampled (NS results have been shaded)

Bold numbers indicate an exceedance of State of CT Clean-up Standards

B = Analyte detected in method blank, D = Analyte concentration was obtained from a diluted analysis, E = Analyte concentration exceeded the calibration range

DRO=Diesel Range Organics, GRO=Gasoline Range Organics

¹ = Beginning 5/98, TPH was analyzed using EPA Method 8100M

² = Beginning 5/98, Total Volatiles (BTEX and MTBE only) were analyzed using EPA Method 8021B

Table 1
Historical Groundwater Sampling Results
Dolphin Mart - March 1995 - March 2000
Naval Submarine Base, Groton, CT

(analytical results in µg/l)
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Compound	BTEX				MTBE	TPH (By EPA Method 418.1) ¹	Total Volatiles (by EPA Method 8010/8020) ²	DRO	GRO	
	Benzene	Toluene	Ethylbenzene	Xylenes						
Remediation Standard	1.0	1,000	700	530	100	500	NA	NA	NA	
Well	Date									
DM-4	3/95	<1.0	<1.0	<1.0	<1.0	<2.0	<473	NS	NS	NS
	5/96	<1.0	<1.0	<1.0	<1.0	<2.0	<473	NS	NS	NS
	11/96	<1.0	<1.0	<1.0	<1.0	<1.0	<1,000	5.0	600	<500
	2/97	NS	NS	NS	NS	NS	NS	NS	NS	NS
	5/97	<1.0	<1.0	<1.0	<1.0	<1.0	<500	<1.0	<500	<500
	8/97	NS	NS	NS	NS	NS	NS	NS	NS	NS
	11/97	2.0	<1.0	<1.0	<1.0	3.0	<500	5.0	NS	NS
	2/98	<1.0	<1.0	<1.0	<1.0	<1.0	800	<1.0	NS	NS
	5/98	<1.0	<1.0	<1.0	<1.0	<1.0	700	<1.0	NS	NS
	8/98	<1.0	<1.0	<1.0	<1.0	<1.0	<500	<1.0	NS	NS
	11/98	<1.0	4.0	1.0	5.0	<1.0	600	10	NS	NS
	2/99	<1.0	3.0	<1.0	<1.0	1.0	<400	4.0	NS	NS
	5/99	<1.0	<1.0	<1.0	<1.0	<1.0	500	<1.0	NS	NS
	8/99	<1.0	<1.0	<1.0	<1.0	<1.0	400	<1.0	NS	NS
	11/99	<1.0	2.0	<1.0	8.0	<1.0	800	10.0	NS	NS
3/00	<1.0	<1.0	<1.0	<1.0	9.0	1,700	9.0	NS	NS	

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Table 1
Historical Groundwater Sampling Results
Dolphin Mart - March 1995 - March 2000
Naval Submarine Base, Groton, CT

(analytical results in µg/l)
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Compound		BTEX				MTBE	TPH (By EPA Method 418.1) ¹	Total Volatiles (by EPA Method 8010/8020) ²	DRO	GRO
		Benzene	Toluene	Ethylbenzene	Xylenes					
Remediation Standard		1.0	1,000	700	530	100	500	NA	NA	NA
Well	Date									
DM-5	3/95	<1.0	<1.0	<1.0	<1.0	<2.0	<473	NS	NS	NS
	5/96	<1.0	<1.0	<1.0	<1.0	<2.0	<473	NS	NS	NS
	11/96	<1.0	<1.0	<1.0	<1.0	<1.0	<1,000	6.0	<500	<500
	2/97	NS	NS	NS	NS	NS	NS	NS	NS	NS
	5/97	<1.0	<1.0	<1.0	<1.0	<1.0	<500	<1.0	<500	<500
	8/97	NS	NS	NS	NS	NS	NS	NS	NS	NS
	11/97	<1.0	<1.0	<1.0	<1.0	<1.0	<500	<1.0	NS	NS
	2/98	<1.0	<1.0	<1.0	<1.0	<1.0	700	<1.0	NS	NS
	5/98	<1.0	<1.0	<1.0	<1.0	<1.0	1,200	<1.0	NS	NS
	8/98	<1.0	<1.0	<1.0	<1.0	<1.0	<500	<1.0	NS	NS
	11/98	<1.0	1.0	<1.0	<1.0	2.0	<400	3.0	NS	NS
	2/99	<1.0	3.0	<1.0	<1.0	<1.0	<400	3.0	NS	NS
	5/99	<1.0	<1.0	<1.0	<1.0	<1.0	<400	<1.0	NS	NS
	8/99	<1.0	<1.0	<1.0	<1.0	<1.0	<400	<1.0	NS	NS
	11/99	<1.0	<1.0	2.0	9.0	<1.0	<400	11.0	NS	NS
3/00	<1.0	<1.0	<1.0	<1.0	<5.0	<200	<5.0	NS	NS	

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Table 1
Historical Groundwater Sampling Results
Dolphin Mart - March 1995 - March 2000
Naval Submarine Base, Groton, CT

(analytical results in µg/l)
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Compound		BTEX				MTBE	TPH (By EPA Method 418.1) ¹	Total Volatiles (by EPA Method 8010/8020) ²	DRO	GRO
		Benzene	Toluene	Ethylbenzene	Xylenes					
Remediation Standard		1.0	1,000	700	530	100	500	NA	NA	NA
Well	Date									
HRP-10	3/95	304	35.2	257	1140	<50	6,080	NS	NS	NS
	5/96	125	21	54	329	<20	1,740	NS	NS	NS
	11/96	9.0	<1.0	65	<1.0	7.0	<1,000	81	600	<500
	2/97	<1.0	<1.0	<1.0	<1.0	3.0	<500	3.0	<500	<500
	5/97	<1.0	<1.0	<1.0	<1.0	<1.0	<500	<1.0	<500	<500
	8/97	<1.0	<1.0	<1.0	<1.0	3.0	800	3.0	<500	<500
	11/97	<1.0	<1.0	<1.0	<1.0	<1.0	<500	<1.0	NS	NS
	2/98	<1.0	<1.0	<1.0	<1.0	<1.0	700	<1.0	NS	NS
	5/98	<1.0	<1.0	<1.0	<1.0	<1.0	<500	<1.0	NS	NS
	8/98	<1.0	<1.0	<1.0	<1.0	1.0	<500	1.0	NS	NS
	11/98	<1.0	<1.0	<1.0	<1.0	2.0	<400	2.0	NS	NS
	2/99	<1.0	3.0	<1.0	<1.0	2.0	<400	5.0	NS	NS
	5/99	<1.0	<1.0	<1.0	<1.0	<1.0	<400	<1.0	NS	NS
	8/99	<1.0	<1.0	<1.0	<1.0	<1.0	<400	<1.0	NS	NS
	11/99	<1.0	<1.0	<1.0	<1.0	2.0	<400	2.0	NS	NS
3/00	<1.0	<1.0	<1.0	<1.0	<5.0	<200	<5.0	NS	NS	

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Table 1
Historical Groundwater Sampling Results
Dolphin Mart - March 1995 - March 2000
Naval Submarine Base, Groton, CT

(analytical results in µg/l)
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Compound		BTEX				MTBE	TPH (By EPA Method 418.1) ¹	Total Volatiles (by EPA Method 8010/8020) ²	DRO	GRO
		Benzene	Toluene	Ethylbenzene	Xylenes					
Remediation Standard		1.0	1,000	700	530	100	500	NA	NA	NA
Well	Date									
HRP-11	3/95	<1.0	<1.0	<1.0	<1.0	<2.0	<473	NS	NS	NS
	5/96	1.0	<1.0	<1.0	3.0	<2.0	<473	NS	NS	NS
	11/96	NS	NS	NS	NS	NS	NS	NS	NS	NS
	2/97	NS	NS	NS	NS	NS	NS	NS	NS	NS
	5/97	<1.0	<1.0	<1.0	<1.0	<1.0	<500	<1.0	<500	<500
	8/97	<1.0	<1.0	<1.0	<1.0	<1.0	<500	<1.0	<500	<500
	11/97	<1.0	<1.0	<1.0	<1.0	<1.0	<500	<1.0	NS	NS
	2/98	<1.0	<1.0	<1.0	<1.0	<1.0	500	<1.0	NS	NS
	5/98	<1.0	<1.0	<1.0	<1.0	<1.0	<500	<1.0	NS	NS
	8/98	<1.0	<1.0	<1.0	<1.0	<1.0	<500	<1.0	NS	NS
	11/98	<1.0	<1.0	<1.0	<1.0	<1.0	<400	<1.0	NS	NS
	2/99	<1.0	3.0	<1.0	<1.0	<1.0	<400	3.0	NS	NS
	5/99	<1.0	<1.0	<1.0	<1.0	1.0	<400	1.0	NS	NS
	8/99	<1.0	<1.0	<1.0	<1.0	<1.0	<400	<1.0	NS	NS
	11/99	<1.0	<1.0	<1.0	<1.0	<1.0	<400	<1.0	NS	NS
3/00	<1.0	<1.0	<1.0	<1.0	<5.0	<200	<5.0	NS	NS	

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**Table 1
Historical Groundwater Sampling Results
Dolphin Mart - March 1995 - March 2000
Naval Submarine Base, Groton, CT**

(analytical results in µg/l)
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Compound		BTEX				MTBE	TPH (By EPA Method 418.1) ¹	Total Volatiles (by EPA Method 8010/8020) ²	DRO	GRO
		Benzene	Toluene	Ethylbenzene	Xylenes					
Remediation Standard		1.0	1,000	700	530	100	500	NA	NA	NA
Well	Date									
MW-1	11/96	3.0	<1.0	5.0	<1.0	<1.0	<1,000	11	1,000	<500
	2/97	<1.0	<1.0	4.0	<1.0	<1.0	<500	4.0	<500	600
	5/97	<1.0	<1.0	4.0	<1.0	<1.0	<500	6.0	700	760
	8/97	<1.0	<1.0	16	2B	<1.0	1,000	18	800	600
	11/97	2.0	<1.0	9.0	<1.0	<1.0	<500	11	NS	NS
	2/98	<1.0	1.0	4.0	<1.0	<1.0	800	5.0	NS	NS
	5/98	<1.0	<1.0	<1.0	<1.0	<1.0	<500	<1.0	NS	NS
	8/98	3.0	<1.0	1.0	<1.0	<1.0	<500	4.0	NS	NS
	11/98	4.0	1.0	1.0	1.0	<1.0	600	7.0	NS	NS
	2/99	<1.0	<1.0	<1.0	<1.0	<1.0	<400	<1.0	NS	NS
	5/99	<1.0	<1.0	<1.0	<1.0	<1.0	<400	<1.0	NS	NS
	8/99	<1.0	<1.0	<1.0	<1.0	<1.0	800	<1.0	NS	NS
	11/99	<1.0	<1.0	<1.0	<1.0	<1.0	<400	<1.0	NS	NS
	3/00	<1.0	<1.0	<1.0	<1.0	<5.0	300	<5.0	NS	NS

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Table 1
Historical Groundwater Sampling Results
Dolphin Mart - March 1995 - March 2000
Naval Submarine Base, Groton, CT

(analytical results in µg/l)
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Compound		BTEX				MTBE	TPH (By EPA Method 418.1) ¹	Total Volatiles (by EPA Method 8010/8020) ²	DRO	GRO
		Benzene	Toluene	Ethylbenzene	Xylenes					
Remediation Standard		1.0	1,000	700	530	100	500	NA	NA	NA
Well	Date									
MW-2	11/96	4.0	<1.0	14	<1.0	4.0	<1,000	28	1,200	<500
	2/97	<1.0	<1.0	<1.0	<1.0	<1.0	1,000	1.0 B	1,200	1,200
	5/97	<1.0	<1.0	3.0	<1.0	<1.0	<500	3.0	500	580
	8/97	<1.0	<1.0	<1.0	<1.0	<1.0	<500	<1.0	<500	<500
	11/97	2.0	<1.0	3.0	1.0	3.0	<500	9.0	NS	NS
	2/98	2.0	1.0	6.0	<1.0	<1.0	700	9.0	NS	NS
	5/98	<1.0	<1.0	<1.0	<1.0	3.0	500	3.0	NS	NS
	8/98	<1.0	<1.0	<1.0	2.0	1.0	<500	3.0	NS	NS
	11/98	2.0	2.0	<1.0	2.0	4.0	<400	10	NS	NS
	2/99	<1.0	<1.0	2.0	1.0	4.0	700	7.0	NS	NS
	5/99	<1.0	<1.0	<1.0	<1.0	<1.0	500	<1.0	NS	NS
	8/99	<1.0	<1.0	3.0	7.0	<1.0	500	10	NS	NS
	11/99	1.0	<1.0	<1.0	2.0	4.0	700	7.0	NS	NS
3/00	<1.0	<1.0	1.0	1.0	<5.0	400	2.0	NS	NS	

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Table 1
Historical Groundwater Sampling Results
Dolphin Mart - March 1995 - March 2000
Naval Submarine Base, Groton, CT

(analytical results in µg/l)
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Compound	BTEX				MTBE	TPH (By EPA Method 418.1) ¹	Total Volatiles (by EPA Method 8010/8020) ²	DRO	GRO	
	Benzene	Toluene	Ethylbenzene	Xylenes						
Remediation Standard	1.0	1,000	700	530	100	500	NA	NA	NA	
Well	Date									
MW-3							645 B	3,300	1,600	
	2/97	36	23	72	500	5.0	2,000	897D	7,900	<500
	5/97	60	38	69	730D	<1.0	5,000	NS	NS	NS
	8/97	NS	NS	NS	NS	NS	NS	NS	NS	NS
	11/97	<1.0	2.0	3.0	56	<1.0	<500	61	NS	NS
	2/98	<1.0	<1.0	<1.0	1.0	<1.0	21,000	1.0	NS	NS
	5/98	<1.0	<1.0	<1.0	<1.0	<1.0	<500	<1.0	NS	NS
	8/98	NS (dry)	NS (dry)	NS (dry)	NS (dry)	NS (dry)	NS (dry)	NS (dry)	NS (dry)	NS (dry)
	11/98	<1.0	<1.0	<1.0	<1.0	<1.0	NS	<1.0	NS	NS
	2/99	4.0	5.0	39	75	2.0	800	125	NS	NS
	5/99	6.0	15	<1.0	2.0	16	900	39	NS	NS
	8/99	NS	NS	NS	NS	NS	NS	NS	NS	NS
	11/99	26	5.0	81	100	1.0	5,400	213	NS	NS
3/00	2.0	1.0	6.0	3.0	<5.0	1,700	12	NS	NS	

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Table 1
Historical Groundwater Sampling Results
Dolphin Mart - March 1995 - March 2000
Naval Submarine Base, Groton, CT

(analytical results in µg/l)
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Compound		BTEX				MTBE	TPH (By EPA Method 418.1) ¹	Total Volatiles (by EPA Method 8010/8020) ²	DRO	GRO
		Benzene	Toluene	Ethylbenzene	Xylenes					
Remediation Standard		1.0	1,000	700	530	100	500	NA	NA	NA
Well	Date									
OBG-8A	3/95	72	24.6	25.9	62.4	9.29	<473	NS	NS	NS
	5/96	12.0	<1.0	9.0	4.0	<2.0	<473	NS	NS	NS
	11/96	NS	NS	NS	NS	NS	NS	NS	NS	NS
	2/97	NS	NS	NS	NS	NS	NS	NS	NS	NS
	5/97	NS	NS	NS	NS	NS	NS	NS	NS	NS
	8/97	NS	NS	NS	NS	NS	NS	NS	NS	NS
	11/97	3.0	25	5.0	5.0	<1.0	<500	38	NS	NS
	2/98	<1.0	<1.0	<1.0	<1.0	<1.0	9,300	<1.0	NS	NS
	5/98	<1.0	2.0	<1.0	2.0	<1.0	3,800	4.0	NS	NS
	8/98	2.0	<1.0	3.0	<1.0	1.0	2,400	6.0	NS	NS
	11/98	1.0	<1.0	<1.0	1.0	2.0	2,300	4.0	NS	NS
	2/99	<1.0	<1.0	<1.0	<1.0	2.0	4,400	2.0	NS	NS
	5/99	6.0	<1.0	8.0	<1.0	5.0	800	19	NS	NS
	8/99	7.0	<1.0	9.0	8.0	<1.0	3,300	24	NS	NS
	11/99	1.0	<1.0	2.0	2.0	6.0	1,900	11	NS	NS
3/00	3.0	<1.0	6.0	<1.0	<5.0	1,300	9.0	NS	NS	

Notes: NA = Not Analyzed
NS = Not sampled (NS results have been shaded)
Bold numbers indicate an exceedance of State of CT Clean-up Standards
B = Analyte detected in method blank, D = Analyte concentration was obtained from a diluted analysis, E = Analyte concentration exceeded the calibration range
DRO=Diesel Range Organics, GRO=Gasoline Range Organics
¹ = Beginning 5/98, TPH was analyzed using EPA Method 8100M
² = Beginning 5/98, Total Volatiles (BTEX and MTBE only) were analyzed using EPA Method 8021B

Table 1
Historical Groundwater Sampling Results
Dolphin Mart - March 1995 - March 2000
Naval Submarine Base, Groton, CT

(analytical results in µg/l)
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Compound		BTEX				MTBE	TPH (By EPA Method 418.1) ¹	Total Volatiles (by EPA Method 8010/8020) ²	DRO	GRO
		Benzene	Toluene	Ethylbenzene	Xylenes					
Remediation Standard		1.0	1,000	700	530	100	500	NA	NA	NA
Well	Date									
OBG-9A	3/95	<1.0	<1.0	<1.0	<1.0	<2.0	<473	NS	NS	NS
	5/96	<1.0	<1.0	<1.0	<1.0	<2.0	<473	NS	NS	NS
	11/96	NS	NS	NS	NS	NS	NS	NS	NS	NS
	2/97	NS	NS	NS	NS	NS	NS	NS	NS	NS
	5/97	<1.0	<1.0	<1.0	<1.0	<1.0	3,000	<1.0	<500	<500
	8/97	<1.0	<1.0	<1.0	<1.0	3.0	11,000	3.0	2,200	<500
	11/97	<1.0	<1.0	<1.0	<1.0	<1.0	<500	<1.0	NS	NS
	2/98	<1.0	<1.0	<1.0	<1.0	<1.0	3,100	<1.0	NS	NS
	5/98	<1.0	<1.0	<1.0	<1.0	<1.0	2,100	<1.0	NS	NS
	8/98	<1.0	<1.0	<1.0	<1.0	3.0	1,000	3.0	NS	NS
	11/98	<1.0	<1.0	<1.0	<1.0	3.0	800	3.0	NS	NS
	2/99	<1.0	<1.0	<1.0	<1.0	<1.0	1,300	<1.0	NS	NS
	5/99	<1.0	<1.0	<1.0	<1.0	1.0	800	1.0	NS	NS
	8/99	<1.0	<1.0	<1.0	<1.0	<1.0	700	<1.0	NS	NS
	11/99	<1.0	<1.0	<1.0	<1.0	<1.0	1,000	<1.0	NS	NS
3/00	<1.0	<1.0	<1.0	<1.0	<5.0	4,000	<5.0	NS	NS	

Notes: NA = Not Analyzed
NS = Not sampled (NS results have been shaded)
Bold numbers indicate an exceedance of State of CT Clean-up Standards
B = Analyte detected in method blank, D = Analyte concentration was obtained from a diluted analysis, E = Analyte concentration exceeded the calibration range
DRO=Diesel Range Organics, GRO=Gasoline Range Organics
¹ = Beginning 5/98, TPH was analyzed using EPA Method 8100M
² = Beginning 5/98, Total Volatiles (BTEX and MTBE only) were analyzed using EPA Method 8021B

Table 1
Historical Groundwater Sampling Results
Dolphin Mart - March 1995 - March 2000
Naval Submarine Base, Groton, CT

(analytical results in µg/l)
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Compound	BTEX				MTBE	TPH (By EPA Method 418.1) ¹	Total Volatiles (by EPA Method 8010/8020) ²	DRO	GRO	
	Benzene	Toluene	Ethylbenzene	Xylenes						
Remediation Standard	1.0	1,000	700	530	100	500	NA	NA	NA	
Well	Date									
WE-2D(B)	11/96	1.0	<1.0	<1.0	<1.0	<1.0	<1,000	3.0	<500	<500
	2/97	2.0	<1.0	<1.0	<1.0	3.0	<500	5.0	<500	<500
	5/97	<1.0	<1.0	<1.0	<1.0	<1.0	<500	<1.0	<500	<500
	8/97	<1.0	<1.0	<1.0	<1.0	4.0	11,000	4.0	<500	<500
	11/97	<1.0	<1.0	<1.0	<1.0	<1.0	<500	<1.0	NS	NS
	2/98	<1.0	<1.0	<1.0	<1.0	<1.0	1,000	<1.0	NS	NS
	5/98	<1.0	<1.0	<1.0	<1.0	3.0	1500.0	3.0	NS	NS
	8/98	2.0	<1.0	<1.0	<1.0	5.0	<500	7.0	NS	NS
	11/98	2.0	<1.0	<1.0	1.0	3.0	400.0	6.0	NS	NS
	2/99	<1.0	<1.0	<1.0	<1.0	2.0	<400	2.0	NS	NS
	5/99	<1.0	<1.0	<1.0	<1.0	<1.0	<400	<1.0	NS	NS
	8/99	<1.0	<1.0	<1.0	<1.0	<1.0	<400	<1.0	NS	NS
	11/99	<1.0	<1.0	<1.0	<1.0	2.0	<400	2.0	NS	NS
	3/00	<1.0	<1.0	<1.0	<1.0	<5.0	400	<5.0	NS	NS

Notes: NA = Not Analyzed
NS = Not sampled (NS results have been shaded)
Bold numbers indicate an exceedance of State of CT Clean-up Standards
B = Analyte detected in method blank, D = Analyte concentration was obtained from a diluted analysis, E = Analyte concentration exceeded the calibration range
DRO=Diesel Range Organics, GRO=Gasoline Range Organics
¹ = Beginning 5/98, TPH was analyzed using EPA Method 8100M
² = Beginning 5/98, Total Volatiles (BTEX and MTBE only) were analyzed using EPA Method 8021B

**Table 1
Historical Groundwater Sampling Results
Dolphin Mart - March 1995 - March 2000
Naval Submarine Base, Groton, CT**

(analytical results in µg/l)
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Compound	BTEX				MTBE	TPH (By EPA Method 418.1) ¹	Total Volatiles (by EPA Method 8010/8020) ²	DRO	GRO	
	Benzene	Toluene	Ethylbenzene	Xylenes						
Remediation Standard	1.0	1,000	700	530	100	500	NA	NA	NA	
Well	Date									
WE-2S	3/95	37.9	24.2	60.3	126.4	21.3	725	NS	NS	NS
	5/96	50	22	101	144	<10	1,570	NS	NS	NS
	11/96	7.0	<1.0	9.0	4.0	14	<1,000	34	<500	<500
	2/97	5.0	<1.0	14	3.0	10	<500	32	500	600
	5/97	NS	NS	NS	NS	NS	NS	NS	NS	NS
	8/97	NS	NS	NS	NS	NS	NS	NS	NS	NS
	11/97	<1.0	<1.0	<1.0	<1.0	<1.0	<500	<1.0	NS	NS
	2/98	4.0	<1.0	<1.0	15	7.0	<500	26	NS	NS
	5/98	2.0	<1.0	10	<1.0	7.0	1,200	19	NS	NS
	8/98	2.0	<1.0	3.0	<1.0	6.0	<500	11	NS	NS
	11/98	<1.0	1.0	<1.0	<1.0	4.0	<400	5.0	NS	NS
	2/99	2.0	<1.0	11	5.0	8.0	<400	26	NS	NS
	5/99	2.0	2.0	13	1.0	<1.0	<400	18	NS	NS
	8/99	<1.0	<1.0	<1.0	<1.0	<1.0	<400	<1.0	NS	NS
	11/99	<1.0	<1.0	6.0	<1.0	6.0	<400	12	NS	NS
3/00	2.0	<1.0	15	16	<5.0	700	33	NS	NS	

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 NS = Not sampled (NS results have been shaded)
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 B = Analyte detected in method blank, D = Analyte concentration was obtained from a diluted analysis, E = Analyte concentration exceeded the calibration range
 DRO=Diesel Range Organics, GRO=Gasoline Range Organics
¹ = Beginning 5/98, TPH was analyzed using EPA Method 8100M
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Table 1
Historical Groundwater Sampling Results
Dolphin Mart - March 1995 - March 2000
Naval Submarine Base, Groton, CT

(analytical results in µg/l)
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Compound		BTEX				MTBE	TPH (By EPA Method 418.1) ¹	Total Volatiles (by EPA Method 8010/8020) ²	DRO	GRO
		Benzene	Toluene	Ethylbenzene	Xylenes					
Remediation Standard		1.0	1,000	700	530	100	500	NA	NA	NA
Well	Date									
WE-3	3/95	<1.0	<1.0	<1.0	<1.0	8.70	<473	NS	NS	NS
	5/96	2.0	<1.0	<1.0	<1.0	14	<473	NS	NS	NS
	11/96	NS	NS	NS	NS	NS	NS	NS	NS	NS
	2/97	<1.0	<1.0	<1.0	<1.0	6.0	<500	6.0	<500	<500
	5/97	<1.0	<1.0	<1.0	<1.0	<1.0	<500	<1.0	<500	<500
	8/97	<1.0	<1.0	<1.0	<1.0	220	3,000	220	<500	<500
	11/97	<1.0	<1.0	<1.0	<1.0	38	<500	38	NS	NS
	2/98	2.0	<1.0	<1.0	<1.0	160D	<500	162	NS	NS
	5/98	<1.0	<1.0	<1.0	<1.0	2.0	<500	2.0	NS	NS
	8/98	<1.0	<1.0	<1.0	<1.0	94D	<500	94	NS	NS
	11/98	<1.0	<1.0	<1.0	<1.0	36	500	36	NS	NS
	2/99	<1.0	<1.0	<1.0	<1.0	9.0	<400	9.0	NS	NS
	5/99	<1.0	<1.0	<1.0	<1.0	<1.0	<400	<1.0	NS	NS
	8/99	<1.0	<1.0	<1.0	<1.0	69	<400	69	NS	NS
	11/99	<1.0	<1.0	<1.0	<1.0	20	<400	20	NS	NS
3/00	<1.0	<1.0	<1.0	<1.0	9.0	<200	9.0	NS	NS	

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Table 1
Historical Groundwater Sampling Results
Dolphin Mart - March 1995 - March 2000
Naval Submarine Base, Groton, CT

(analytical results in µg/l)
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Compound		BTEX				MTBE	TPH (By EPA Method 418.1) ¹	Total Volatiles (by EPA Method 8010/8020) ²	DRO	GRO
		Benzene	Toluene	Ethylbenzene	Xylenes					
Remediation Standard		1.0	1,000	700	530	100	500	NA	NA	NA
Well	Date									
WE-4	3/95	267	29.8	392	712	<40	5,180	NS	NS	NS
	5/96	160	16	301	617	<40	3,680	NS	NS	NS
	11/96	41	1.0	100	2.0	19	<1,000	166	1,100	500
	2/97	21	<1.0	27	1.0	17	<500	66	500	700
	5/97	13	<1.0	13	<1.0	19	<500	45	700	540
	8/97	7.0	<1.0	19	3B	3B	700	44	<500	<500
	11/97	<1.0	<1.0	<1.0	<1.0	<1.0	<500	<1.0	NS	NS
	2/98	<1.0	<1.0	<1.0	<1.0	<1.0	1,300	<1.0	NS	NS
	5/98	<1.0	<1.0	<1.0	<1.0	<1.0	600	<1.0	NS	NS
	8/98	<1.0	<1.0	<1.0	<1.0	1.0	<500	1.0	NS	NS
	11/98	5.0	<1.0	7.0	<1.0	4.0	400	16	NS	NS
	2/99	<1.0	<1.0	<1.0	1.0	<1.0	<400	1.0	NS	NS
	5/99	<1.0	<1.0	<1.0	<1.0	<1.0	<400	<1.0	NS	NS
	8/99	<1.0	<1.0	<1.0	<1.0	8.0	<400	8.0	NS	NS
	11/99	<1.0	<1.0	<1.0	2.0	7.0	<400	9.0	NS	NS
3/00	<1.0	<1.0	<1.0	<1.0	5.0	400	5.0	NS	NS	

Notes: NA = Not Analyzed
NS = Not sampled (NS results have been shaded)
Bold numbers indicate an exceedance of State of CT Clean-up Standards
B = Analyte detected in method blank, D = Analyte concentration was obtained from a diluted analysis, E = Analyte concentration exceeded the calibration range
DRO=Diesel Range Organics, GRO=Gasoline Range Organics
¹ = Beginning 5/98, TPH was analyzed using EPA Method 8100M
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Table 1
Historical Groundwater Sampling Results
Dolphin Mart - March 1995 - March 2000
Naval Submarine Base, Groton, CT

(analytical results in µg/l)
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Compound		BTEX				MTBE	TPH (By EPA Method 418.1) ¹	Total Volatiles (by EPA Method 8010/8020) ²	DRO	GRO
		Benzene	Toluene	Ethylbenzene	Xylenes					
Remediation Standard		1.0	1,000	700	530	100	500	NA	NA	NA
Well	Date									
WE-5	11/96	240D	410D	720D	4,300E	27	9,000	5,697	12,000	8,900
	2/97	42D	10	89D	490D	6.0	2,000	637	2,000	1,200
	5/97	370	190	840	3,900D	<1.0	4,000	5,300	11,000	16,000
	8/97	210D	<1.0	210D	470DB	63D	5,000	953	3,900	2,500
	11/97	11	<1.0	2.0	6.0	27	1,100	46	NS	NS
	2/98	11	<1.0	10	14	3.0	1,800	38	NS	NS
	5/98	<1.0	<1.0	<1.0	<1.0	<1.0	1,400	<1.0	NS	NS
	8/98	94	1.0	30	28	31	2,400	184	NS	NS
	11/98	4.0	<1.0	<1.0	1.0	37	1,500	42	NS	NS
	2/99	12	1.0	6.0	78	5.0	1,000	102	NS	NS
	5/99	99	2.0	8.0	49	<1.0	1,700	158	NS	NS
	8/99	<1.0	<1.0	<1.0	<1.0	44	1,200	44	NS	NS
	11/99	98	1.0	6.0	27	29	2,600	161	NS	NS
3/00	12	1.0	20	67	<5.0	1,700	100	NS	NS	

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NS = Not sampled (NS results have been shaded)
Bold numbers indicate an exceedance of State of CT Clean-up Standards
B = Analyte detected in method blank, D = Analyte concentration was obtained from a diluted analysis, E = Analyte concentration exceeded the calibration range
DRO=Diesel Range Organics, GRO=Gasoline Range Organics
¹ = Beginning 5/98, TPH was analyzed using EPA Method 8100M
² = Beginning 5/98, Total Volatiles (BTEX and MTBE only) were analyzed using EPA Method 8021B

Table 1
Historical Groundwater Sampling Results
Dolphin Mart - March 1995 - March 2000
Naval Submarine Base, Groton, CT

(analytical results in µg/l)
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Compound	BTEX				MTBE	TPH (By EPA Method 418.1) ¹	Total Volatiles (by EPA Method 8010/8020) ²	DRO	GRO	
	Benzene	Toluene	Ethylbenzene	Xylenes						
Remediation Standard	1.0	1,000	700	530	100	500	NA	NA	NA	
Well	Date									
WE-6	11/96	5.0	210 D	71 D	630 D	<1.0	<1,000	916	2,000	1,400
	2/97	3.0	4.0	8.0	12	2.0	<500	29	800	700
	5/97	3.0	1.0	12	<1.0	<1.0	<500	15	1,200	1,200
	8/97	<1.0	1.0	<1.0	28	<1.0	1,000	29	<500	<500
	11/97	2.0	<1.0	3.0	2.0	4.0	<500	11	NS	NS
	2/98	2.0	<1.0	5.0	3.0	4.0	500	14	NS	NS
	5/98	<1.0	<1.0	<1.0	<1.0	<1.0	1,000	<1.0	NS	NS
	8/98	3.0	4.0	9.0	44	<1.0	<500	60	NS	NS
	11/98	2.0	<1.0	<1.0	2.0	5.0	<400	9.0	NS	NS
	2/99	<1.0	1.0	3.0	12	2.0	400	18	NS	NS
	5/99	<1.0	<1.0	<1.0	<1.0	<1.0	<400	<1.0	NS	NS
	8/99	<1.0	<1.0	<1.0	<1.0	<1.0	1,200	<1.0	NS	NS
	11/99	1.0	<1.0	<1.0	<1.0	4.0	1,000	5.0	NS	NS
3/00	<1.0	<1.0	<1.0	1.0	<5.0	800	1.0	NS	NS	

Notes: NA = Not Analyzed
NS = Not sampled (NS results have been shaded)
Bold numbers indicate an exceedance of State of CT Clean-up Standards
B = Analyte detected in method blank, D = Analyte concentration was obtained from a diluted analysis, E = Analyte concentration exceeded the calibration range
DRO=Diesel Range Organics, GRO=Gasoline Range Organics
¹ = Beginning 5/98, TPH was analyzed using EPA Method 8100M
² = Beginning 5/98, Total Volatiles (BTEX and MTBE only) were analyzed using EPA Method 8021B

Table 2
Historical Groundwater Sampling Results
NEX - March 1995 - March 2000
Naval Submarine Base, Groton, CT

(analytical results in µg/l)
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Compound		BTEX				MTBE	TPH (By EPA Method 418.1) ¹	Total Volatiles (by EPA Method 8010/8020) ²	DRO	GRO
		Benzene	Toluene	Ethylbenzene	Xylenes					
Remediation Standard		215	23,500	50,000	21,300	50,000	NARS	NARS	NARS	NARS
Well	Date									
ERM-5	3/95	967	431	390	1,340	<100	NS	3,295.1	430	8,250
	5/96	112	6.0	34	28	<10	NS	196	159	554
	11/96	370D	14	33	61 D	<1.0	3,000	480	1,100	1,600
	2/97	1,100	1,100	580	1,600	<50	3,000	4,440 B	3,900	9,100
	5/97	NS	NS	NS	NS	NS	NS	NS	NS	NS
	8/97	NS	NS	NS	NS	NS	NS	NS	NS	NS
	11/97	730	250	870	620	<10	2,300	2,470	NS	NS
	2/98	310	460	300	710	<10	5,400	1,780	NS	NS
	5/98	790	280	1,200	4,900	<100	9,200	7,170	NS	NS
	8/98	130	16	330	1,100	<10	2,200	1,576	NS	NS
	11/98	140	8.0	32	75	<1.0	4,200	255	NS	NS
	2/99	56	2.0	2.0	3.0	2.0	1,900	65	NS	NS
	5/99	590	74	560	2,000	<20	1,900	3,224	NS	NS
	8/99	120 D	7.0	<1.0	900 D	<1.0	1,600	1,027	NS	NS
	11/99	24	2.0	5.0	73	<1.0	1,300	104	NS	NS
3/00	450	130	260	385	<25	3,900	1,225	NS	NS	

Notes: NA = Not Analyzed
NARS = No Applicable Remediation Standard
NS = Not sampled (NS results have been shaded)
Bold numbers indicate an exceedance of State of CT Clean-up Standards
D = Analyte concentration was obtained from a diluted analysis, B = Analyte detected in method blank, E = Analyte concentration exceeded the calibration range
DRO=Diesel Range Organics, GRO=Gasoline Range Organics
L P = Liquid-phase petroleum present; well could not be sampled
¹ = Beginning 5/98, TPH was analyzed using EPA Method 8100M
² = Beginning 5/98, Total Volatiles (BTEX and MTBE only) were analyzed using EPA Method 8021B

Table 2
Historical Groundwater Sampling Results
NEX - March 1995 - March 2000
Naval Submarine Base, Groton, CT

(analytical results in µg/l)
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Compound	BTEX				MTBE	TPH (By EPA Method 418.1) ¹	Total Volatiles (by EPA Method 8010/8020) ²	DRO	GRO	
	Benzene	Toluene	Ethylbenzene	Xylenes						
Remediation Standard	215	23,500	50,000	21,300	50,000	NARS	NARS	NARS	NARS	
Well	Date									
ERM-6	5/96	15	<1.0	<1.0	<1.0	<2.0	NS	35	63	<473
	11/96	610	230	770	2,400 E	<40	5,000	4,054	500	7,800
	2/97	430 D	21	300	1,000 D	<10	2,000	1,763 B	2,200	4,800
	5/97	430 D	21	640 D	2,300 D	<1.0	1,000	3,391 D	1,500	6,700
	8/97	470	90	650	2,000	<1.0	2,000	3,210	3,500	6,200
	11/97	250 D	23	260 D	530 D	<1.0	<500	1,063	NS	NS
	2/98	97 D	13	110 D	240 D	<1.0	<500	460	NS	NS
	5/98	21	4.0	28	78	<1.0	<500	131	NS	NS
	8/98	63	8.0	170D	<190 D	<1.0	800	431	NS	NS
	11/98	1.0	<1.0	3.0	<1.0	<1.0	<400	4.0	NS	NS
	2/99	<1.0	<1.0	<1.0	<1.0	2.0	<400	2.0	NS	NS
	5/99	<1.0	<1.0	<1.0	<1.0	5.0	<400	5.0	NS	NS
	8/99	<1.0	<1.0	<1.0	2.0	<1.0	<400	2.0	NS	NS
	11/99	<1.0	<1.0	<1.0	<1.0	<1.0	<400	<1.0	NS	NS
3/00	<1.0	<1.0	<1.0	<1.0	<5.0	<200	<5.0	NS	NS	

Notes: NA = Not Analyzed
NARS = No Applicable Remediation Standard
NS = Not sampled (NS results have been shaded)
Bold numbers indicate an exceedance of State of CT Clean-up Standards
D = Analyte concentration was obtained from a diluted analysis, B = Analyte detected in method blank, E = Analyte concentration exceeded the calibration range
DRO=Diesel Range Organics, GRO=Gasoline Range Organics
LP = Liquid-phase petroleum present; well could not be sampled
¹ = Beginning 5/98, TPH was analyzed using EPA Method 8100M
² = Beginning 5/98, Total Volatiles (BTEX and MTBE only) were analyzed using EPA Method 8021B

Table 2
Historical Groundwater Sampling Results
NEX - March 1995 - March 2000
Naval Submarine Base, Groton, CT

(analytical results in µg/l)
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Compound		BTEX				MTBE	TPH (By EPA Method 418.1) ¹	Total Volatiles (by EPA Method 8010/8020) ²	DRO	GRO
		Benzene	Toluene	Ethylbenzene	Xylenes					
Remediation Standard		215	23,500	50,000	21,300	50,000	NARS	NARS	NARS	NARS
Well	Date									
ERM-7	5/96	5.0	<1.0	<1.0	<1.0	<2.0	NS	8.0	38	<473
	11/96	<1.0	<1.0	<1.0	<1.0	<1.0	<1,000	4.0	<500	<500
	2/97	<1.0	<1.0	<1.0	<1.0	<1.0	<500	1.0	<500	<500
	5/97	<1.0	<1.0	<1.0	<1.0	<1.0	<500	<1.0	<500	<500
	8/97	<1.0	<1.0	<1.0	<1.0	<1.0	<500	<1.0	<500	<500
	11/97	<1.0	<1.0	<1.0	<1.0	<1.0	<500	<1.0	NS	NS
	2/98	<1.0	<1.0	<1.0	<1.0	<1.0	<500	<1.0	NS	NS
	5/98	<1.0	<1.0	<1.0	<1.0	<1.0	<500	<1.0	NS	NS
	8/98	<1.0	<1.0	<1.0	<1.0	<1.0	<500	<1.0	NS	NS
	11/98	NS	NS	NS	NS	NS	NS	NS	NS	NS
	2/99	NS	NS	NS	NS	NS	NS	NS	NS	NS
	5/99	NS	NS	NS	NS	NS	NS	NS	NS	NS
	8/99	<1.0	<1.0	<1.0	<1.0	<1.0	<400	<1.0	NS	NS
	11/99	NS	NS	NS	NS	NS	NS	NS	NS	NS
3/00	NS	NS	NS	NS	NS	NS	NS	NS	NS	

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DRO=Diesel Range Organics, GRO=Gasoline Range Organics
L P = Liquid-phase petroleum present; well could not be sampled
¹ = Beginning 5/98, TPH was analyzed using EPA Method 8100M
² = Beginning 5/98, Total Volatiles (BTEX and MTBE only) were analyzed using EPA Method 8021B

Table 2
Historical Groundwater Sampling Results
NEX - March 1995 - March 2000
Naval Submarine Base, Groton, CT

(analytical results in µg/l)
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Compound	BTEX				MTBE	TPH (By EPA Method 418.1) ¹	Total Volatiles (by EPA Method 8010/8020) ²	DRO	GRO	
	Benzene	Toluene	Ethylbenzene	Xylenes						
Remediation Standard	215	23,500	50,000	21,300	50,000	NARS	NARS	NARS	NARS	
Well	Date									
ERM-8 (destroyed)	3/95	109	11.5	272	157	<50	NS	665.4	464	2,350
	5/96	NS	NS	NS	NS	NS	NS	NS	NS	NS
	11/96	NS	NS	NS	NS	NS	NS	NS	NS	NS
	2/97	NS	NS	NS	NS	NS	NS	NS	NS	NS
	5/97	NS	NS	NS	NS	NS	NS	NS	NS	NS
	8/97	NS	NS	NS	NS	NS	NS	NS	NS	NS
	11/97	NS	NS	NS	NS	NS	NS	NS	NS	NS
	2/98	NS	NS	NS	NS	NS	NS	NS	NS	NS
	5/98	NS	NS	NS	NS	NS	NS	NS	NS	NS
	8/98	NS	NS	NS	NS	NS	NS	NS	NS	NS
	11/98	NS	NS	NS	NS	NS	NS	NS	NS	NS
	2/99	NS	NS	NS	NS	NS	NS	NS	NS	NS
	5/99	NS	NS	NS	NS	NS	NS	NS	NS	NS
	8/99	NS	NS	NS	NS	NS	NS	NS	NS	NS
11/99	NS	NS	NS	NS	NS	NS	NS	NS	NS	
3/00	NS	NS	NS	NS	NS	NS	NS	NS	NS	

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DRO=Diesel Range Organics, GRO=Gasoline Range Organics
LP = Liquid-phase petroleum present; well could not be sampled
¹ = Beginning 5/98, TPH was analyzed using EPA Method 8100M
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Table 2
Historical Groundwater Sampling Results
NEX - March 1995 - March 2000
Naval Submarine Base, Groton, CT

(analytical results in µg/l)
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Compound		BTEX				MTBE	TPH (By EPA Method 418.1) ¹	Total Volatiles (by EPA Method 8010/8020) ²	DRO	GRO
		Benzene	Toluene	Ethylbenzene	Xylenes					
Remediation Standard		215	23,500	50,000	21,300	50,000	NARS	NARS	NARS	NARS
Well	Date									
ERM-9 (destroyed)	5/96	<1.0	<1.0	<1.0	<1.0	2.0	NS	4.0	3,310	<473
	11/96	NS	NS	NS	NS	NS	NS	NS	NS	NS
	2/97	NS	NS	NS	NS	NS	NS	NS	NS	NS
	5/97	NS	NS	NS	NS	NS	NS	NS	NS	NS
	8/97	NS	NS	NS	NS	NS	NS	NS	NS	NS
	11/97	NS	NS	NS	NS	NS	NS	NS	NS	NS
	2/98	NS	NS	NS	NS	NS	NS	NS	NS	NS
	5/98	NS	NS	NS	NS	NS	NS	NS	NS	NS
	8/98	NS	NS	NS	NS	NS	NS	NS	NS	NS
	11/98	NS	NS	NS	NS	NS	NS	NS	NS	NS
	2/99	NS	NS	NS	NS	NS	NS	NS	NS	NS
	5/99	NS	NS	NS	NS	NS	NS	NS	NS	NS
	8/99	NS	NS	NS	NS	NS	NS	NS	NS	NS
	11/99	NS	NS	NS	NS	NS	NS	NS	NS	NS
3/00	NS	NS	NS	NS	NS	NS	NS	NS	NS	

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Table 2
Historical Groundwater Sampling Results
NEX - March 1995 - March 2000
Naval Submarine Base, Groton, CT

(analytical results in µg/l)
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Compound		BTEX				MTBE	TPH (By EPA Method 418.1) ¹	Total Volatiles (by EPA Method 8010/8020) ²	DRO	GRO
		Benzene	Toluene	Ethylbenzene	Xylenes					
Remediation Standard		215	23,500	50,000	21,300	50,000	NARS	NARS	NARS	NARS
Well	Date									
ERM-11	11/96	<1.0	<1.0	<1.0	<1.0	<1.0	<1,000	3.0	<500	<500
	2/97	<1.0	<1.0	<1.0	<1.0	<1.0	<500	2.0	<500	<500
	5/97	<1.0	<1.0	<1.0	<1.0	<1.0	<500	<1.0	<500	<500
	8/97	<1.0	<1.0	<1.0	<1.0	<1.0	<500	<1.0	<500	<500
	11/97	<1.0	<1.0	<1.0	<1.0	<1.0	<500	<1.0	NS	NS
	2/98	<1.0	<1.0	<1.0	<1.0	<1.0	<500	<1.0	NS	NS
	5/98	<1.0	<1.0	<1.0	<1.0	<1.0	<500	<1.0	NS	NS
	8/98	<1.0	<1.0	<1.0	<1.0	<1.0	<500	<1.0	NS	NS
	11/98	NS	NS	NS	NS	NS	NS	NS	NS	NS
	2/99	NS	NS	NS	NS	NS	NS	NS	NS	NS
	5/99	NS	NS	NS	NS	NS	NS	NS	NS	NS
	8/99	<1.0	<1.0	<1.0	<1.0	<1.0	800	<1.0	NS	NS
	11/99	NS	NS	NS	NS	NS	NS	NS	NS	NS
3/00	NS	NS	NS	NS	NS	NS	NS	NS	NS	

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Table 2
Historical Groundwater Sampling Results
NEX - March 1995 - March 2000
Naval Submarine Base, Groton, CT

(analytical results in µg/l)
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Compound		BTEX				MTBE	TPH (By EPA Method 418.1) ¹	Total Volatiles (by EPA Method 8010/8020) ²	DRO	GRO
		Benzene	Toluene	Ethylbenzene	Xylenes					
Remediation Standard		215	23,500	50,000	21,300	50,000	NARS	NARS	NARS	NARS
Well	Date									
ERM-12	3/95	<1.0	<1.0	<1.0	<1.0	<2.0	NS	1.0	27	<473
	5/96	1.0	2.0	7.0	14	<2.0	NS	61	4,300	1,390
	11/96	<1.0	2.0	<1.0	9.0	<1.0	3,000	16	7,300	6,700
	2/97	<1.0	1.0	2.0	9.0	<1.0	15,000	13	4,800	1,300
	5/97	LP	LP	LP	LP	LP	LP	LP	LP	LP
	8/97	NS	NS	NS	NS	NS	NS	NS	NS	NS
	11/97	<1.0	<1.0	<1.0	4.0	<1.0	7,100	4.0	NS	NS
	2/98	<1.0	<1.0	<1.0	1.0	<1.0	23,000	1.0	NS	NS
	5/98	<1.0	<1.0	2.0	2.0	<1.0	5,400	4.0	NS	NS
	8/98	<5.0	<5.0	<5.0	<5.0	<5.0	5,200	<5.0	NS	NS
	11/98	<1.0	<1.0	<1.0	2.0	<1.0	5,100	2.0	NS	NS
	2/99	<1.0	<1.0	<1.0	<1.0	<1.0	1,000	<1.0	NS	NS
	5/99	<1.0	<1.0	<1.0	<1.0	<1.0	1,000	<1.0	NS	NS
	8/99	<1.0	<1.0	<1.0	<1.0	<1.0	<400	<1.0	NS	NS
	11/99	<1.0	<1.0	<1.0	4.0	<1.0	900	4.0	NS	NS
3/00	NS	NS	NS	NS	NS	NS	NS	NS	NS	

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LP = Liquid-phase petroleum present; well could not be sampled
¹ = Beginning 5/98, TPH was analyzed using EPA Method 8100M
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Table 2
Historical Groundwater Sampling Results
NEX - March 1995 - March 2000
Naval Submarine Base, Groton, CT

(analytical results in µg/l)
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Compound	BTEX				MTBE	TPH (By EPA Method 418.1) ¹	Total Volatiles (by EPA Method 8010/8021) ²	DRO	GRO	
	Benzene	Toluene	Ethylbenzene	Xylenes						
Remediation Standard	215	23,500	50,000	21,300	50,000	NARS	NARS	NARS	NARS	
Well	Date									
ERM-13	3/95	<1.0	<1.0	<1.0	<1.0	<2.0	NS	534	50	<473
	5/96	<1.0	<1.0	<1.0	<1.0	<2.0	NS	9.0	<100	<473
	11/96	<1.0	<1.0	<1.0	<1.0	<1.0	<1,000	2.0	<500	<500
	2/97	<1.0	<1.0	<1.0	<1.0	<1.0	<500	<1.0	<500	<500
	5/97	<1.0	<1.0	<1.0	<1.0	<1.0	<500	<1.0	<500	<500
	8/97	<1.0	<1.0	<1.0	<1.0	<1.0	<500	<1.0	<500	<500
	11/97	<1.0	<1.0	<1.0	<1.0	<1.0	<500	<1.0	NS	NS
	2/98	<1.0	<1.0	<1.0	<1.0	<1.0	<500	<1.0	NS	NS
	5/98	<1.0	<1.0	<1.0	<1.0	<1.0	<500	<1.0	NS	NS
	8/98	<1.0	<1.0	<1.0	1.0	<1.0	<500	1.0	NS	NS
	11/98	NS	NS	NS	NS	NS	NS	NS	NS	NS
	2/99	NS	NS	NS	NS	NS	NS	NS	NS	NS
	5/99	NS	NS	NS	NS	NS	NS	NS	NS	NS
	8/99	<1.0	<1.0	<1.0	3.0	37.0	<400	40.0	NS	NS
	11/99	NS	NS	NS	NS	NS	NS	NS	NS	NS
3/00	NS	NS	NS	NS	NS	NS	NS	NS	NS	

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Table 2
Historical Groundwater Sampling Results
NEX - March 1995 - March 2000
Naval Submarine Base, Groton, CT

(analytical results in µg/l)
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Compound		BTEX				MTBE	TPH (By EPA Method 418.1) ¹	Total Volatiles (by EPA Method 8010/8020) ²	DRO	GRO
		Benzene	Toluene	Ethylbenzene	Xylenes					
Remediation Standard		215	23,500	50,000	21,300	50,000	NARS	NARS	NARS	NARS
Well	Date									
ERM-14	3/95	292	4,880	8,190	6,020	<2.0	NS	19,995	4,840	3,670
	5/96	305	5,670	1,250	8,350	<2.0	NS	22,543	7,290	3,890
	11/96	270	8,300D	1,700D	11,000D	<25	7,000	21,270	12,000	30,000
	2/97	140	4,500D	980	7,100	<100	60,000	12,840	20,000	20,000
	5/97	LP	LP	LP	LP	LP	LP	LP	LP	LP
	8/97	LP	LP	LP	LP	LP	LP	LP	LP	LP
	11/97	40	2,300D	700D	2,500D	<1.0	4,600	5,540	NS	NS
	2/98	<1.0	930	210	2,800	<1.0	28,000	3,940	NS	NS
	5/98	80	2,200	690	5,400	<1.0	11,000	8,370	NS	NS
	8/98	270	5,900	1,600	16,000	<100	24,000	23,770	NS	NS
	11/98	<50	1,000	730	7,300	<50	16,000	9,030	NS	NS
	2/99	<100	420	160	5,300	<100	20,000	5,880	NS	NS
	5/99	<50	590	500	4,200	<50	15,000	5,290	NS	NS
	8/99	5.0	230D	<1.0	9,600D	<1.0	12,000	9,830D	NS	NS
	11/99	<1.0	94	210	2,000	5.0	3,900	2,309	NS	NS
3/00	<10	140	270	2,700	<50	5,900	3,110	NS	NS	

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LP = Liquid-phase petroleum present; well could not be sampled
¹ = Beginning 5/98, TPH was analyzed using EPA Method 8100M
² = Beginning 5/98, Total Volatiles (BTEX and MTBE only) were analyzed using EPA Method 8021B

Table 2
Historical Groundwater Sampling Results
NEX - March 1995 - March 2000
Naval Submarine Base, Groton, CT

(analytical results in µg/l)
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Compound	BTEX				MTBE	TPH (By EPA Method 418.1) ¹	Total Volatiles (by EPA Method 8010/8020) ²	DRO	GRO	
	Benzene	Toluene	Ethylbenzene	Xylenes						
Remediation Standard	215	23,500	50,000	21,300	50,000	NARS	NARS	NARS	NARS	
Well	Date									
ERM-15	11/96	280	760	330	1,100	<40	1,000	2,517	2,300	4,500
	2/97	NS	NS	NS	NS	NS	NS	NS	NS	NS
	5/97	NS	NS	NS	NS	NS	NS	NS	NS	NS
	8/97	NS	NS	NS	NS	NS	NS	NS	NS	NS
	11/97	210	630	240	120	<10	<500	1,200	NS	NS
	2/98	8.0	9.0	4.0	25	<1.0	600	46	NS	NS
	5/98	1,100	2,700	810	3,200	<50	11,000	7,810	NS	NS
	8/98	1,000	2,200	1,100	3,600	<100	5,900	7,900	NS	NS
	11/98	150 D	270 D	280 D	1,300 D	<1.0	3,100	2,000	NS	NS
	2/99	38	64	48	170	1.0	600	321	NS	NS
	5/99	<1.0	<1.0	<1.0	<1.0	<1.0	<400	<1.0	NS	NS
	8/99	79.0	16.0	150D	<1.0	130D	1,000	375D	NS	NS
	11/99	19.0	<1.0	17	<1.0	<1.0	700	36.0	NS	NS
3/00	<1.0	<1.0	<1.0	<1.0	<5.0	<200	<5.0	NS	NS	

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Table 2
Historical Groundwater Sampling Results
NEX - March 1995 - March 2000
Naval Submarine Base, Groton, CT

(analytical results in µg/l)
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Compound		BTEX				MTBE	TPH (By EPA Method 418.1) ¹	Total Volatiles (by EPA Method 8010/8026) ²	DRO	GRO
		Benzene	Toluene	Ethylbenzene	Xylenes					
Remediation Standard		215	23,500	50,000	21,300	50,000	NARS	NARS	NARS	NARS
Well	Date									
ERM-16	11/96	37	<2.0	13	16	30	<1,000	68	4,400	2,000
	2/97	56D	<1.0	16	34		6,000	136	11,000	1,400
	5/97	34	<1.0	20	42	11	26,000	107	60,000	2,000
	8/97	LP	LP	LP	LP	LP	LP	LP	LP	LP
	11/97	5.0	<1.0	7.0	30	<1.0	15,000	42	NS	NS
	2/98	8.0	<1.0	3.0	15	6.0	25,000	32	NS	NS
	5/98	25	<1.0	9.0	18	13	4,800	65	NS	NS
	8/98	LP	LP	LP	LP	LP	LP	LP	LP	LP
	11/98	LP	LP	LP	LP	LP	LP	LP	LP	LP
	2/99	12	<1.0	7.0	29	9.0	57,000	57	NS	NS
	5/99	8.0	<1.0	2.0	3.0	14	1,900	27	NS	NS
	8/99	NS (dry)	NS (dry)	NS (dry)	NS (dry)	NS (dry)	NS (dry)	NS (dry)	NS (dry)	NS (dry)
	11/99	<1.0	<1.0	<1.0	<1.0	1.0	14,000	1.0	NS	NS
3/00	<1.0	<1.0	<1.0	<1.0	<5.0	7,400	<5.0	NS	NS	

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D = Analyte concentration was obtained from a diluted analysis, B = Analyte detected in method blank, E = Analyte concentration exceeded the calibration range
DRO=Diesel Range Organics, GRO=Gasoline Range Organics
LP = Liquid-phase petroleum present; well could not be sampled
¹ = Beginning 5/98, TPH was analyzed using EPA Method 8100M
² = Beginning 5/98, Total Volatiles (BTEX and MTBE only) were analyzed using EPA Method 8021B

Table 2
Historical Groundwater Sampling Results
NEX - March 1995 - March 2000
Naval Submarine Base, Groton, CT

(analytical results in µg/l)
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Compound		BTEX				MTBE	TPH (By EPA Method 418.1) ¹	Total Volatiles (by EPA Method 8010/8026) ²	DRO	GRO	
		Benzene	Toluene	Ethylbenzene	Xylenes						
Remediation Standard		215	23,500	50,000	21,300	50,000	NARS	NARS	NARS	NARS	
Well	Date										
ERM-17	11/96	10	<1.0	<1.0	<1.0	9.0	<1,000	11	600	600	
	2/97	<1.0	<1.0	<1.0	<1.0	<1.0	1,000	<1.0	500	<500	
	5/97	<1.0	<1.0	<1.0	<1.0	<1.0	<500	<1.0	1,500	<500	
	8/97	12	<1.0	<1.0	<1.0	<1.0	1,000	12	1,000	500	
	11/97	2.0	<1.0	<1.0	<1.0	<1.0	<500	2.0	NS	NS	
	2/98	3.0	<1.0	<1.0	<1.0	<1.0	<500	3.0	NS	NS	
	5/98	<1.0	<1.0	<1.0	<1.0	<1.0	<500	<1.0	NS	NS	
	8/98	13	<1.0	<1.0	<1.0	<1.0	3.0	900	16	NS	NS
	11/98	NS	NS	NS	NS	NS	NS	NS	NS	NS	
	2/99	NS	NS	NS	NS	NS	NS	NS	NS	NS	
	5/99	NS	NS	NS	NS	NS	NS	NS	NS	NS	
	8/99	<1.0	<1.0	12.0	12.0	<1.0	1,000	24.0	NS	NS	
	11/99	NS	NS	NS	NS	NS	NS	NS	NS	NS	
3/00	NS	NS	NS	NS	NS	NS	NS	NS	NS		

Notes: NA = Not Analyzed
NARS = No Applicable Remediation Standard
NS = Not sampled (NS results have been shaded)
Bold numbers indicate an exceedance of State of CT Clean-up Standards
D = Analyte concentration was obtained from a diluted analysis, B = Analyte detected in method blank, E = Analyte concentration exceeded the calibration range
DRO=Diesel Range Organics, GRO=Gasoline Range Organics
L P = Liquid-phase petroleum present; well could not be sampled
¹ = Beginning 5/98, TPH was analyzed using EPA Method 8100M
² = Beginning 5/98, Total Volatiles (BTEX and MTBE only) were analyzed using EPA Method 8021B

Table 2
Historical Groundwater Sampling Results
NEX - March 1995 - March 2000
Naval Submarine Base, Groton, CT

(analytical results in µg/l)
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Compound		BTEX				MTBE	TPH (By EPA Method 418.1) ¹	Total Volatiles (by EPA Method 8010/8020) ²	DRO	GRO
		Benzene	Toluene	Ethylbenzene	Xylenes					
Remediation Standard		215	23,500	50,000	21,300	50,000	NARS	NARS	NARS	NARS
Well	Date									
ERM-19	11/96	<1.0	<1.0	<1.0	<1.0	<1.0	<1,000	1.0	<500	<500
	2/97	<1.0	<1.0	<1.0	<1.0	<1.0	<500	<1.0	<500	<500
	5/97	<1.0	<1.0	<1.0	<1.0	<1.0	<500	<1.0	<500	<500
	8/97	<1.0	<1.0	<1.0	<1.0	<1.0	<500	<1.0	<500	<500
	11/97	<1.0	<1.0	<1.0	<1.0	<1.0	<500	<1.0	NS	NS
	2/98	<1.0	<1.0	<1.0	<1.0	<1.0	<500	<1.0	NS	NS
	5/98	<1.0	<1.0	<1.0	<1.0	<1.0	<500	<1.0	NS	NS
	8/98	<10	<10	<10	13	<10	<500	13	NS	NS
	11/98	NS	NS	NS	NS	NS	NS	NS	NS	NS
	2/99	NS	NS	NS	NS	NS	NS	NS	NS	NS
	5/99	NS	NS	NS	NS	NS	NS	NS	NS	NS
	8/99	<1.0	<1.0	<1.0	<1.0	<1.0	<400	<1.0	NS	NS
	11/99	NS	NS	NS	NS	NS	NS	NS	NS	NS
3/00	NS	NS	NS	NS	NS	NS	NS	NS	NS	

Notes: NA = Not Analyzed
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D = Analyte concentration was obtained from a diluted analysis, B = Analyte detected in method blank, E = Analyte concentration exceeded the calibration range
DRO=Diesel Range Organics, GRO=Gasoline Range Organics
L P = Liquid-phase petroleum present; well could not be sampled
¹ = Beginning 5/98, TPH was analyzed using EPA Method 8100M
² = Beginning 5/98, Total Volatiles (BTEX and MTBE only) were analyzed using EPA Method 8021B

Table 2
Historical Groundwater Sampling Results
NEX - March 1995 - March 2000
Naval Submarine Base, Groton, CT

(analytical results in µg/l)
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Compound		BTEX				MTBE	TPH (By EPA Method 418.1) ¹	Total Volatiles (by EPA Method 8010/8020) ²	DRO	GRO
		Benzene	Toluene	Ethylbenzene	Xylenes					
Remediation Standard		215	23,500	50,000	21,300	50,000	NARS	NARS	NARS	NARS
Well	Date									
FD-1	5/98	210	3.0	140	29	66	48,000	448	NS	NS
	8/98	160	<10	55	<10	140	3,300	355	NS	NS
	11/98	42	<5.0	5.0	<5.0	220	9,000	267	NS	NS
	2/99	<50	<50	<50	<50	780	38,000	780	NS	NS
	5/99	160	6.0	55	11	410	11,000	642	NS	NS
	8/99	100D	<1.0	5.0	<1.0	220D	3,400	325D	NS	NS
	11/99	68	<5.0	17	<5.0	180	6,000	265	NS	NS
	3/00	220	<5.0	73	<5.0	44	14,000	337	NS	NS

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DRO=Diesel Range Organics, GRO=Gasoline Range Organics
LP = Liquid-phase petroleum present; well could not be sampled
¹ = Beginning 5/98, TPH was analyzed using EPA Method 8100M
² = Beginning 5/98, Total Volatiles (BTEX and MTBE only) were analyzed using EPA Method 8021B

Table 2
Historical Groundwater Sampling Results
NEX - March 1995 - March 2000
Naval Submarine Base, Groton, CT

(analytical results in µg/l)
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Compound		BTEX				MTBE	TPH (By EPA Method 418.1) ¹	Total Volatiles (by EPA Method 8018/8020) ²	DRO	GRO
		Benzene	Toluene	Ethylbenzene	Xylenes					
Remediation Standard		215	23,500	50,000	21,300	50,000	NARS	NARS	NARS	NARS
Well	Date									
FD-2	5/98	63	<1.0	<1.0	3.0	31	14,000	97	NS	NS
	8/98	62	1.0	3.0	<1.0	36	3,300	102	NS	NS
	11/98	<1.0	<1.0	<1.0	<1.0	4.0	4,000	4.0	NS	NS
	2/99	<1.0	<1.0	<1.0	<1.0	25	5,000	25	NS	NS
	5/99	58	<1.0	1.0	<1.0	30	2,500	89	NS	NS
	8/99	52	<1.0	<1.0	<1.0	46	2,400	52	NS	NS
	11/99	83	<1.0	2.0	<1.0	34	5,200	119	NS	NS
	3/00	74	<1.0	5.0	3.0	13	16,000	95	NS	NS
FD-3	5/98	<1.0	<1.0	<1.0	<1.0	9.0	<500	9.0	NS	NS
	8/98	<1.0	<1.0	<1.0	<1.0	4.0	<600	4.0	NS	NS
	11/98	<1.0	<1.0	<1.0	<1.0	3.0	<1,300	4.0	NS	NS
	2/99	<1.0	<1.0	<1.0	<1.0	10	<400	10	NS	NS
	5/99	<1.0	<1.0	<1.0	<1.0	4.0	<400	4.0	NS	NS
	8/99	<1.0	<1.0	<1.0	<1.0	<1.0	<400	<1.0	NS	NS
	11/99	<1.0	<1.0	<1.0	<1.0	2.0	<400	2.0	NS	NS
	3/00	<5.0	<5.0	<5.0	790	<25	1,300	790	NS	NS

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DRO=Diesel Range Organics, GRO=Gasoline Range Organics
LP = Liquid-phase petroleum present; well could not be sampled
¹ = Beginning 5/98, TPH was analyzed using EPA Method 8100M
² = Beginning 5/98, Total Volatiles (BTEX and MTBE only) were analyzed using EPA Method 8021B

Table 2
Historical Groundwater Sampling Results
NEX - March 1995 - March 2000
Naval Submarine Base, Groton, CT

(analytical results in µg/l)
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Compound	BTEX				MTBE	TPH (By EPA Method 418.1) ¹	Total Volatiles (by EPA Method 8010/8020) ²	DRO	GRO	
	Benzene	Toluene	Ethylbenzene	Xylenes						
Remediation Standard	215	23,500	50,000	21,300	50,000	NARS	NARS	NARS	NARS	
Well	Date									
MW-4	2/97	29	1.0	<1.0	3.0	<1.0	NS	33	NS	NS
	5/97	NS	NS	NS	NS	NS	NS	NS	NS	NS
	8/97	NS	NS	NS	NS	NS	NS	NS	NS	NS
	11/97	NS	NS	NS	NS	NS	NS	NS	NS	NS
	2/98	NS	NS	NS	NS	NS	NS	NS	NS	NS
	5/98	15	2.0	<1.0	<1.0	<1.0	1,000	17	NS	NS
	8/98	NS	NS	NS	NS	NS	NS	NS	NS	NS
	11/98	490	3,000	280	3,100	<50	NS	6,870	NS	NS
	2/99	<250	6,500	470	6,500	<250	8,800	13,470	NS	NS
	5/99	230	1,000	410	3,700	<20	NA	5,340	NS	NS
	8/99	NS (dry)	NS (dry)	NS (dry)	NS (dry)	NS (dry)	NS (dry)	NS (dry)	NS (dry)	NS (dry)
	11/99	NS	NS	NS	NS	NS	NS	NS	NS	NS
3/00	160	540	130	1430	<50	21,000	2,260	NS	NS	

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D = Analyte concentration was obtained from a diluted analysis, B = Analyte detected in method blank, E = Analyte concentration exceeded the calibration range
DRO=Diesel Range Organics, GRO=Gasoline Range Organics
LP = Liquid-phase petroleum present; well could not be sampled
¹ = Beginning 5/98, TPH was analyzed using EPA Method 8100M
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Table 2
Historical Groundwater Sampling Results
NEX - March 1995 - March 2000
Naval Submarine Base, Groton, CT

(analytical results in µg/l)
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Compound		BTEX				MTBE	TPH (By EPA Method 418.1) ¹	Total Volatiles (by EPA Method 8010/8020) ²	DRO	GRO
		Benzene	Toluene	Ethylbenzene	Xylenes					
Remediation Standard		215	23,500	50,000	21,300	50,000	NARS	NARS	NARS	NARS
Well	Date									
MW-6	2/97	<1.0	9.0	<1.0	<1.0	<1.0	NS	9.0	NS	NS
	5/97	18	<1.0	2.0	8.0	<1.0	<500	28	<500	<500
	8/97	35D	1.0	<1.0	8.0	<1.0	<500	46	<500	<500
	11/97	6.0	<1.0	<1.0	3.0	<1.0	<500	9.0	NS	NS
	2/98	8.0	<1.0	<1.0	3.0	<1.0	<500	11	NS	NS
	5/98	1.0	<1.0	<1.0	<1.0	<1.0	<500	1.0	NS	NS
	8/98	170	8.0	13	62	<2.0	<500	253	NS	NS
	11/98	5.0	<1.0	<1.0	2.0	<1.0	<400	7.0	NS	NS
	2/99	71	<1.0	<1.0	3.0	3.0	<400	77	NS	NS
	5/99	<1.0	<1.0	<1.0	<1.0	<1.0	<400	<1.0	NS	NS
	8/99	<1.0	<1.0	<1.0	3.0	<1.0	<400	3.0	NS	NS
	11/99	<1.0	<1.0	<1.0	<1.0	3.0	<400	3.0	NS	NS
	3/00	<1.0	<1.0	<1.0	<1.0	<5.0	500	<5.0	NS	NS

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DRO=Diesel Range Organics, GRO=Gasoline Range Organics
L P = Liquid-phase petroleum present; well could not be sampled
¹ = Beginning 5/98, TPH was analyzed using EPA Method 8100M
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Table 2
Historical Groundwater Sampling Results
NEX - March 1995 - March 2000
Naval Submarine Base, Groton, CT

(analytical results in µg/l)
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Compound		BTEX				MTBE	TPH (By EPA Method 418.4) ¹	Total Volatiles (by EPA Method 8010/8020) ²	DRO	GRO
		Benzene	Toluene	Ethylbenzene	Xylenes					
Remediation Standard		215	23,500	50,000	21,300	50,000	NARS	NARS	NARS	NARS
Well	Date									
NEX-1	3/95	<1.0	<1.0	<1.0	<1.0	<2.0	NS	7.0	35	<143
	5/96	<1.0	<1.0	<1.0	<1.0	<2.0	NS	8.0	<122	<143
	11/96	NS	NS	NS	NS	NS	NS	NS	NS	NS
	2/97	NS	NS	NS	NS	NS	NS	NS	NS	NS
	5/97	2.0	11	4.0	34	<1.0	<500	57	<500	<500
	8/97	<1.0	<1.0	<1.0	<1.0	<1.0	<500	3.0	<500	<500
	11/97	<1.0	<1.0	<1.0	<1.0	<1.0	<500	<1.0	NS	NS
	2/98	<1.0	<1.0	<1.0	<1.0	<1.0	<500	<1.0	NS	NS
	5/98	<1.0	<1.0	<1.0	<1.0	<1.0	<500	<1.0	NS	NS
	8/98	<1.0	<1.0	<1.0	<1.0	<1.0	<500	<1.0	NS	NS
	11/98	NS	NS	NS	NS	NS	NS	NS	NS	NS
	2/99	NS	NS	NS	NS	NS	NS	NS	NS	NS
	5/99	<1.0	<1.0	<1.0	<1.0	<1.0	<400	<1.0	NS	NS
	8/99	<1.0	<1.0	<1.0	<1.0	<1.0	<400	<1.0	NS	NS
	11/99	NS	NS	NS	NS	NS	NS	NS	NS	NS
3/00	NS	NS	NS	NS	NS	NS	NS	NS	NS	

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Bold numbers indicate an exceedance of State of CT Clean-up Standards
D = Analyte concentration was obtained from a diluted analysis, B = Analyte detected in method blank, E = Analyte concentration exceeded the calibration range
DRO=Diesel Range Organics, GRO=Gasoline Range Organics
L P = Liquid-phase petroleum present; well could not be sampled
¹ = Beginning 5/98, TPH was analyzed using EPA Method 8100M
² = Beginning 5/98, Total Volatiles (BTEX and MTBE only) were analyzed using EPA Method 8021B

Table 2
Historical Groundwater Sampling Results
NEX - March 1995 - March 2000
Naval Submarine Base, Groton, CT

(analytical results in µg/l)
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Compound		BTEX				MTBE	TPH (By EPA Method 418.1) ¹	Total Volatiles (by EPA Method 8010/8020) ²	DRO	GRO	
		Benzene	Toluene	Ethylbenzene	Xylenes						
Remediation Standard		215	23,500	50,000	21,300	50,000	NARS	NARS	NARS	NARS	
Well	Date										
OBG-1	5/97	480	3,300 D	1,100D	10,000 D	540	110,000	15,420	260,000	49,000	
	8/97	1,600	6,200	1,700	12,000	810	220,000	22,310	580,000	56,000	
	11/97	1,600	8,800	2,300	16,000	38,000	21,000	66,700	NS	NS	
	2/98	1,400	7,100 D	2,200	15,000 D	24,000 D	160,000	49,700	NS	NS	
	5/98	LP	LP	LP	LP	LP	LP	LP	LP	LP	LP
	8/98	340	1,400	790	5,000	1,600	25,000	9,130	NS	NS	
	11/98	13,000	51,000	15,000	110,000	1,000	86,000	190,000	NS	NS	
	2/99	2,500	16,000	1,600	15,000	4,600	40,000	39,700	NS	NS	
	5/99	130	840	270	7,000	720	27,000	8,960	NS	NS	
	8/99	100	400	<1.0	5,400	3,000	25,000	8,900	NS	NS	
	11/99	160	970	320	2,700	930	36,000	5,080	NS	NS	
	3/00	92	500	270	1,690	1,200	14,000	3,752	NS	NS	

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DRO=Diesel Range Organics, GRO=Gasoline Range Organics
LP = Liquid-phase petroleum present; well could not be sampled
¹ = Beginning 5/98, TPH was analyzed using EPA Method 8100M
² = Beginning 5/98, Total Volatiles (BTEX and MTBE only) were analyzed using EPA Method 8021B

Table 2
Historical Groundwater Sampling Results
NEX - March 1995 - March 2000
Naval Submarine Base, Groton, CT

(analytical results in µg/l)
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Compound		BTEX				MTBE	TPH (By EPA Method 418.1) ¹	Total Volatiles (by EPA Method 8016/8020) ²	DRO	GRO	
		Benzene	Toluene	Ethylbenzene	Xylenes						
Remediation Standard		215	23,500	50,000	21,300	50,000	NARS	NARS	NARS	NARS	
Well	Date										
OBG-2	5/97	77	280	530	9,800 D	290	87,000	10,977	120,000	44,000	
	8/97	470	410	1,100	11,000	830	180,000	13,990	99,000	75,000	
	11/97	370	380	960	9,200	40,000	23,000	50,910	NS	NS	
	2/98	410	340	680	7,900	26,000 D	120,000	35,330	NS	NS	
	5/98	570	<1.0	650	6,300	15,000	33,000	22,520	NS	NS	
	8/98	330	620	760	5,300	27,000 D	25,000	34,010	NS	NS	
	11/98	<250	300	480	5,600	2,000	25,000	8,380	NS	NS	
	2/99	<100	500	220	4,100	1,600	39,000	6,420	NS	NS	
	5/99	<50	58	290	3,700	2,000	29,000	6,048	NS	NS	
	8/99	NS (dry)	NS (dry)	NS (dry)	NS (dry)	NS (dry)	NS (dry)	NS (dry)	NS (dry)	NS (dry)	NS (dry)
	11/99	71	260 D	410 D	3,800 D	2,200 D	39,000	6,741	NS	NS	
3/00	45	11	140	1,310	270	37,000	1,776	NS	NS		

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Table 2
Historical Groundwater Sampling Results
NEX - March 1995 - March 2000
Naval Submarine Base, Groton, CT

(analytical results in µg/l)
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Compound	BTEX				MTBE	TPH (By EPA Method 418.1) ¹	Total Volatiles (By EPA Method 8010/8020) ²	DRO	GRO	
	Benzene	Toluene	Ethylbenzene	Xylenes						
Remediation Standard	215	23,500	50,000	21,300	50,000	NARS	NARS	NARS	NARS	
Well	Date									
OBG-4	2/97	<1.0	<1.0	<1.0	<1.0	<1.0	NS	<1.0	NS	NS
	5/97	<1.0	<1.0	<1.0	2.0	<1.0	6,000	2.0	3,100	<500
	8/97	<1.0	<1.0	<1.0	<1.0	4.0	1,000	4.0	3,500	<500
	11/97	<1.0	3.0	<1.0	7.0	8.0	NS	18	NS	NS
	2/98	NS	NS	NS	NS	NS	NS	NS	NS	NS
	5/98	<1.0	<1.0	<1.0	<1.0	5.0	4,100	5.0	NS	NS
	8/98	<1.0	<1.0	<1.0	<1.0	5.0	6,100	5.0	NS	NS
	11/98	NS	NS	NS	NS	NS	NS	NS	NS	NS
	2/99	<250	3,100	1,200	11,000	<250	160,000	15,300	NS	NS
	5/99	<100	<100	<100	1,400	<100	NA	1,400	NS	NS
	8/99	NS (dry)	NS (dry)	NS (dry)	NS (dry)	NS (dry)	NS (dry)	NS (dry)	NS (dry)	NS (dry)
	11/99	NS	NS	NS	NS	NS	NS	NS	NS	NS
3/00	<150	<500	<500	<500	24,000	2,400	24,000	NS	NS	

Notes: NA = Not Analyzed
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Table 2
Historical Groundwater Sampling Results
NEX - March 1995 - March 2000
Naval Submarine Base, Groton, CT

(analytical results in µg/l)
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Compound		BTEX				MTBE	TPH (By EPA Method 418.1) ¹	Total Volatiles (by EPA Method 8010.0020) ²	DRO	GRO
		Benzene	Toluene	Ethylbenzene	Xylenes					
Remediation Standard		215	23,500	50,000	21,300	50,000	NARS	NARS	NARS	NARS
Well	Date									
OBG-7	5/97	<1.0	<1.0	<1.0	<1.0	<1.0	<500	<1.0	<500	<500
	8/97	<1.0	<1.0	<1.0	<1.0	<1.0	<500	<1.0	<500	<500
	11/97	<1.0	<1.0	<1.0	<1.0	<1.0	<500	<1.0	NS	NS
	2/98	<1.0	<1.0	<1.0	<1.0	<1.0	<500	<1.0	NS	NS
	5/98	<1.0	<1.0	<1.0	<1.0	<1.0	900	<1.0	NS	NS
	8/98	<1.0	<1.0	<1.0	<1.0	<1.0	<500	<1.0	NS	NS
	11/98	NS	NS	NS	NS	NS	NS	NS	NS	NS
	2/99	NS	NS	NS	NS	NS	NS	NS	NS	NS
	5/99	NS	NS	NS	NS	NS	NS	NS	NS	NS
	8/99	<1.0	<1.0	<1.0	2.0	<1.0	<400	2.0	NS	NS
	11/99	NS	NS	NS	NS	NS	NS	NS	NS	NS
	3/00	NS	NS	NS	NS	NS	NS	NS	NS	NS

Notes: NA = Not Analyzed
NARS = No Applicable Remediation Standard
NS = Not sampled (NS results have been shaded)
Bold numbers indicate an exceedance of State of CT Clean-up Standards
D = Analyte concentration was obtained from a diluted analysis, B = Analyte detected in method blank, E = Analyte concentration exceeded the calibration range
DRO=Diesel Range Organics, GRO=Gasoline Range Organics
L P = Liquid-phase petroleum present; well could not be sampled
¹ = Beginning 5/98, TPH was analyzed using EPA Method 8100M
² = Beginning 5/98, Total Volatiles (BTEX and MTBE only) were analyzed using EPA Method 8021B

Table 2
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NEX - March 1995 - March 2000
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Compound		BTEX				MTBE	TPH (By EPA Method 418.1) ¹	Total Volatiles (by EPA Method 8010/8020) ²	DRO	GRO
		Benzene	Toluene	Ethylbenzene	Xylenes					
Remediation Standard		215	23,500	50,000	21,300	50,000	NARS	NARS	NARS	NARS
Well	Date									
OBG-8 (destroyed)	5/97	<1.0	<1.0	<1.0	<1.0	<1.0	<500	<1.0	<500	<500
	8/97	NS	NS	NS	NS	NS	NS	NS	NS	NS
	11/97	NS	NS	NS	NS	NS	NS	NS	NS	NS
	2/98	NS	NS	NS	NS	NS	NS	NS	NS	NS
	5/98	NS	NS	NS	NS	NS	NS	NS	NS	NS
	8/98	NS	NS	NS	NS	NS	NS	NS	NS	NS
	11/98	NS	NS	NS	NS	NS	NS	NS	NS	NS
	2/99	NS	NS	NS	NS	NS	NS	NS	NS	NS
	5/99	NS	NS	NS	NS	NS	NS	NS	NS	NS
	8/99	NS	NS	NS	NS	NS	NS	NS	NS	NS
	11/99	NS	NS	NS	NS	NS	NS	NS	NS	NS
3/00	NS	NS	NS	NS	NS	NS	NS	NS	NS	

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Compound		BTEX				MTBE	TPH (By EPA Method 418.1) ¹	Total Volatiles (by EPA Method 8010/8020) ²	DRO	GRO
		Benzene	Toluene	Ethylbenzene	Xylenes					
Remediation Standard		215	23,500	50,000	21,300	50,000	NARS	NARS	NARS	NARS
Well	Date									
OBG-9	5/97	LP	LP	LP	LP	LP	LP	LP	LP	LP
	8/97	LP	LP	LP	LP	LP	LP	LP	LP	LP
	11/97	490	4,800	2,100	16,000	<200	24,000	23,390	NS	NS
	2/98	NS	NS	NS	NS	NS	NS	NS	NS	NS
	5/98	LP	LP	LP	LP	LP	LP	LP	LP	LP
	8/98	56	280	250	2,300	23	NS	2,909	NS	NS
	11/98	31	97	120	1,200	<5.0	5,800	1,448	NS	NS
	2/99	77	190 D	32	340 D	1.0	2,900	640	NS	NS
	5/99	140	4,700	2,500	12,000	<100	1,800	19,340	NS	NS
	8/99	38	660D	2,500D	12,000D	<1.0	16,000	15,198	NS	NS
	11/99	14	290 D	1,100 D	4,700 D	150 D	13,000	6,254	NS	NS
3/00	<50	1,200	2,200	13,500	<250	13,000	16,900	NS	NS	

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DRO=Diesel Range Organics, GRO=Gasoline Range Organics
LP = Liquid-phase petroleum present; well could not be sampled
¹ = Beginning 5/98, TPH was analyzed using EPA Method 8100M
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(analytical results in µg/l)
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Compound		BTEX				MTBE	TPH (By EPA Method 418.1) ¹	Total Volatiles (by EPA Method 8010/8020) ²	DRO	GRO
		Benzene	Toluene	Ethylbenzene	Xylenes					
Remediation Standard		215	23,500	50,000	21,300	50,000	NARS	NARS	NARS	NARS
Well	Date									
VEA-4	8/98	<1.0	<1.0	<1.0	<1.0	<1.0	<600	<1.0	NS	NS
	11/98	NS (dry)	NS (dry)	NS (dry)	NS (dry)	NS (dry)	NS (dry)	NS (dry)	NS (dry)	NS (dry)
	2/99	<1.0	<1.0	<1.0	<1.0	<1.0	<400	<1.0	NS	NS
	5/99	NS (dry)	NS (dry)	NS (dry)	NS (dry)	NS (dry)	NS (dry)	NS (dry)	NS (dry)	NS (dry)
	6/99	NS (dry)	NS (dry)	NS (dry)	NS (dry)	NS (dry)	NS (dry)	NS (dry)	NS	NS
	8/99	NS (dry)	NS (dry)	NS (dry)	NS (dry)	NS (dry)	NS (dry)	NS (dry)	NS (dry)	NS (dry)
	11/99	NS (dry)	NS (dry)	NS (dry)	NS (dry)	NS (dry)	NS (dry)	NS (dry)	NS (dry)	NS (dry)
	3/00	<1.0	<1.0	<1.0	<1.0	<5.0	600	<5.0	NS	NS

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Historical Groundwater Sampling Results
NEX - March 1995 - March 2000
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(analytical results in µg/l)
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Compound	BTEX				MTBE	TPH (By EPA Method 418.1) ¹	Total Volatiles (by EPA Method 8010/8020) ²	DRO	GRO	
	Benzene	Toluene	Ethylbenzene	Xylenes						
Remediation Standard	215	23,500	50,000	21,300	50,000	NARS	NARS	NARS	NARS	
Well	Date									
VEA-7	8/98	<1.0	<1.0	<1.0	<1.0	<1.0	<500	<1.0	NS	NS
	11/98	NS (dry)	NS (dry)	NS (dry)	NS (dry)	NS (dry)	NS (dry)	NS (dry)	NS (dry)	NS (dry)
	2/99	<1.0	<1.0	<1.0	<1.0	1.0	<400	1.0	NS	NS
	5/99	NS (dry)	NS (dry)	NS (dry)	NS (dry)	NS (dry)	NS (dry)	NS (dry)	NS (dry)	NS (dry)
	6/99	<1.0	<1.0	<1.0	<1.0	<1.0	NA	<1.0	NS	NS
	8/99	NS (dry)	NS (dry)	NS (dry)	NS (dry)	NS (dry)	NS (dry)	NS (dry)	NS (dry)	NS (dry)
	11/99	NS (dry)	NS (dry)	NS (dry)	NS (dry)	NS (dry)	NS (dry)	NS (dry)	NS (dry)	NS (dry)
	3/00	<1.0	<1.0	<1.0	<1.0	<5.0	800	<5.0	NS	NS

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		Benzene	Toluene	Ethylbenzene	Xylenes					
Remediation Standard		215	21,500	50,000	21,300	50,000	NARS	NARS	NARS	NARS
Well	Date									
VEA-14	8/98	<10	<10	410	1,000	<10	<500	1,410	NS	NS
	11/98	<1.0	<1.0	16	44	<1.0	1,800	60	NS	NS
	2/99	<1.0	<1.0	21	23	<1.0	5,000	44	NS	NS
	5/99	<1.0	<1.0	48	<1.0	1.0	3,800	49	NS	NS
	8/99	<1.0	<1.0	<1.0	2.0	<1.0	15,000	2.0	NS	NS
	11/99	<1.0	<1.0	12	12	6.0	NS (dry)	30	NS	NS
	3/00	<1.0	<1.0	16	4.0	<5.0	8,600	20	NS	NS

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