N00129.AR.001256
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: August 2000

Prepared by:

IT Corporation
Prepared by:
Jonathan D. Aronson /For
Michele A. Alabiso
Environmental Scientist II

Reviewed By:

Foster Wheeler Environmental Corp.
Reviewed by:
Susan R. Leach
Susan R. Leach, P.E.
Environmental Site Technical Manager

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 August 10, and 30, 2000. The monitoring forms for the site visits conducted during the month of August 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 August 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 August 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 – The most recent round of water discharge sampling was conducted on June 5, 2000. All parameters of the discharge were adhered to. Results were submitted to the CTDEP and the Town of Groton under separate cover.

Monitoring Well Gauging – The most recent round of site monitoring, which included monitoring well gauging was conducted on August 30, 2000 during the quarterly groundwater monitoring event. On August 30, 2000 depth to groundwater at the site ranged from 2.00 feet in monitoring well OBG-8A to 8.98 feet in monitoring well WE-3. 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 August 30, 2000. The August 2000 Quarterly Groundwater Sampling Report will be issued under separate cover. The historical groundwater sampling results have been summarized in **Table 1** of **Attachment 5**.

Additional Activities – Commencing with the month of September 2000 the site will be visited on a quarterly frequency in conjunction with groundwater sampling events. Field personnel noted during the August 31, 2000 site visit that monitoring wells DM-4, HRP-10, MW-1, and WE-5's road boxes are damaged. Field personnel recommended re-tapping the bolt holes in order to allow for fastening the roadbox lid to the roadbox frame. This will be attempted during the November 2000 quarterly site visit.

NEX AIR SPARGE/SVE SYSTEM

System Status - The remediation system at the site is presently deactivated. At the conclusion of the site visit on July 31, 2000 and as directed by the United States Navy, both SVE and Air Sparge Systems were deactivated. The system previously operated from July 31, 1997 to July 31, 2000. A system mothball plan is presently being developed. Prior to deactivation, the soil vapor extraction system captured subsurface vapors through 17 individual vapor extraction points (VEA-12 through VEA-16, VEA-18 through VEA-20, VEB-4, and VEB-8 through VEB-15). The air sparge system injected air into the site's groundwater through19 individual air sparge points (SPA-30 through SPA-37, SPB-14, SPB-16, and SPB-19 through SPB-27). The air sparge system was previously deactivated on January 30, 1999. As of the deactivation date, July 31, 2000, approximately 275,085 gallons of water had been extracted, treated, and discharged by the NEX system. 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 2**. The site was visited on August 10 and 31, 2000. The monitoring forms for operation and maintenance (O&M) conducted during the month of August 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 July 31, 2000, was approximately 3,976.19 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 July 31, 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 August 31, 2000. Depth to groundwater at the site ranged from 2.72 feet in monitoring well VEA-14 to 7.92 feet in monitoring well FD-3.

Monitoring Well Sampling – The most recent round of site monitoring well sampling was conducted on August 31, 2000. The August 2000 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 - Commencing with the month of September 2000 the site will be visited on a quarterly frequency in conjunction with groundwater sampling events. During the August 2000 site visit a broken seal on SVE carbon unit Adsorber A was reported. As a result, carbon dust was released from the unit and distributed throughout the treatment building. Efforts were taken and the carbon dust was cleaned up. The system was not restarted due to the broken seal.

FIGURES

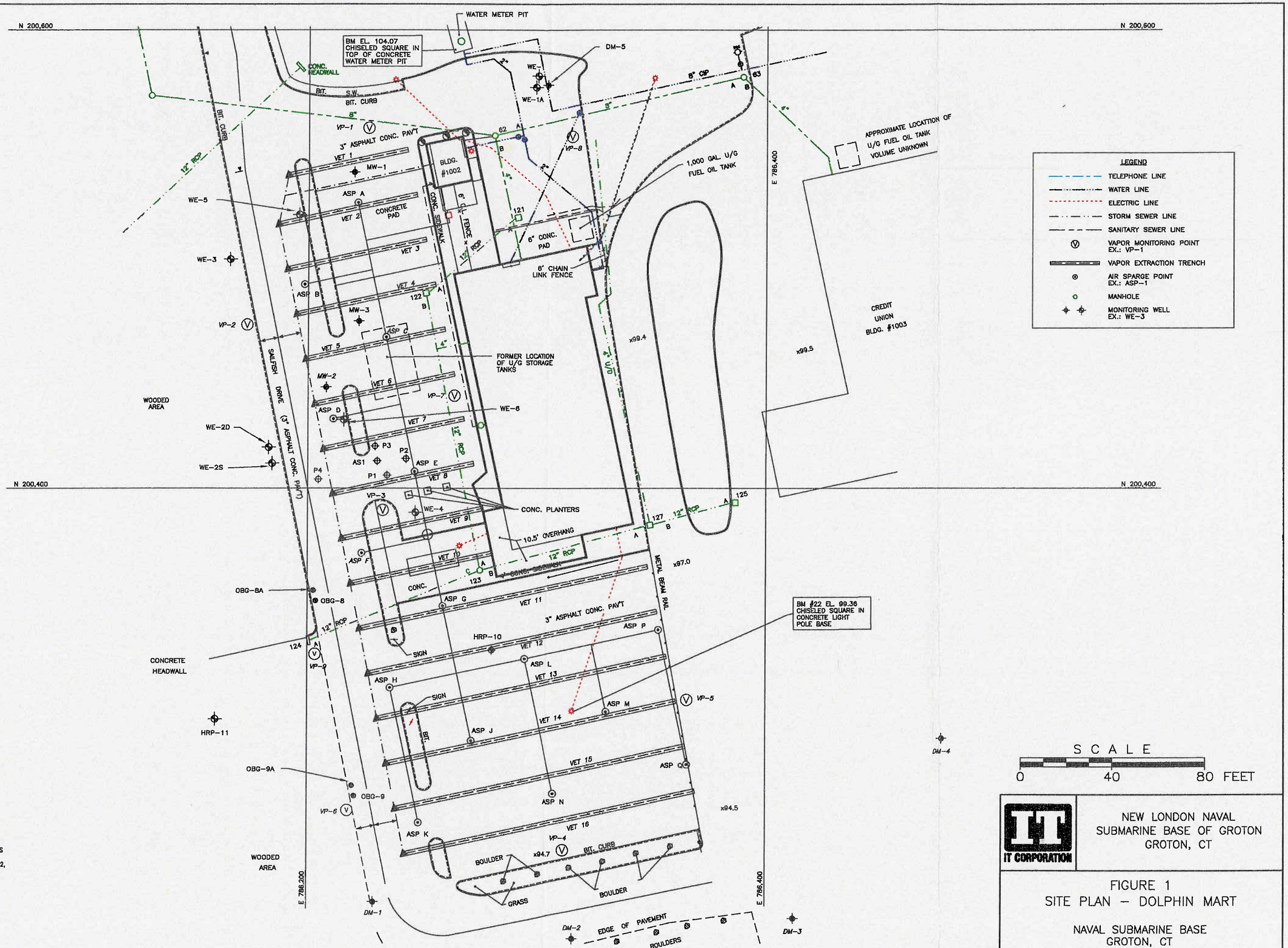


IMAGE	X-REF	OFFICE	DRAWN BY	CHECKED BY	APPROVED BY	DRAWING NUMBER
---	---	WIN	L. Avery	---	---	1405-17
			3/30/99	---	---	

THIS MAP WAS PREPARED FROM MAPS LISTED BELOW:

1. NAUTILUS PARK, GROTON, CONN. EXISTING UTILITIES MAPS PREPARED BY CULLINAN ENGINEERING CO., INC. SCALE 1"=40' DATE 3/25/83 NAVFAC DRAWING NO'S. 2,064,332, 2,064,353 AND 2,064,374.
2. MONITOR WELL LOCATION AND GROUND WATER CONTOUR MAP OF JANUARY 21, 1992 DOLPHIN MART SITE US SUBASE, GROTON, CT. PREPARED BY ERM-NORTHEAST SCALE 1"=20' APRIL, 1992.
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: 3/30/99
TIME: 2:02 PM
FORMAT REVISION 2/26/99

IT CORPORATION

NEW LONDON NAVAL
SUBMARINE BASE OF GROTON
GROTON, CT

FIGURE 1
SITE PLAN – DOLPHIN MART

NAVAL SUBMARINE BASE
GROTON, CT

THIS MAP WAS PREPARED FROM MAPS LISTED BELOW:

1. EXISTING TOPOGRAPHY FROM MAP BY JAMES S. MINGES & ASSOCIATES, CARLSON & SWEATT FARMINGTON, CT & NEW YORK, N.Y. 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 NEX STATION SITE US SUBBASE, GROTON, CT PREPARED FOR ERM-PMC.
4. ALL TOPOGRAPHIC FEATURES AND INVERTS 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

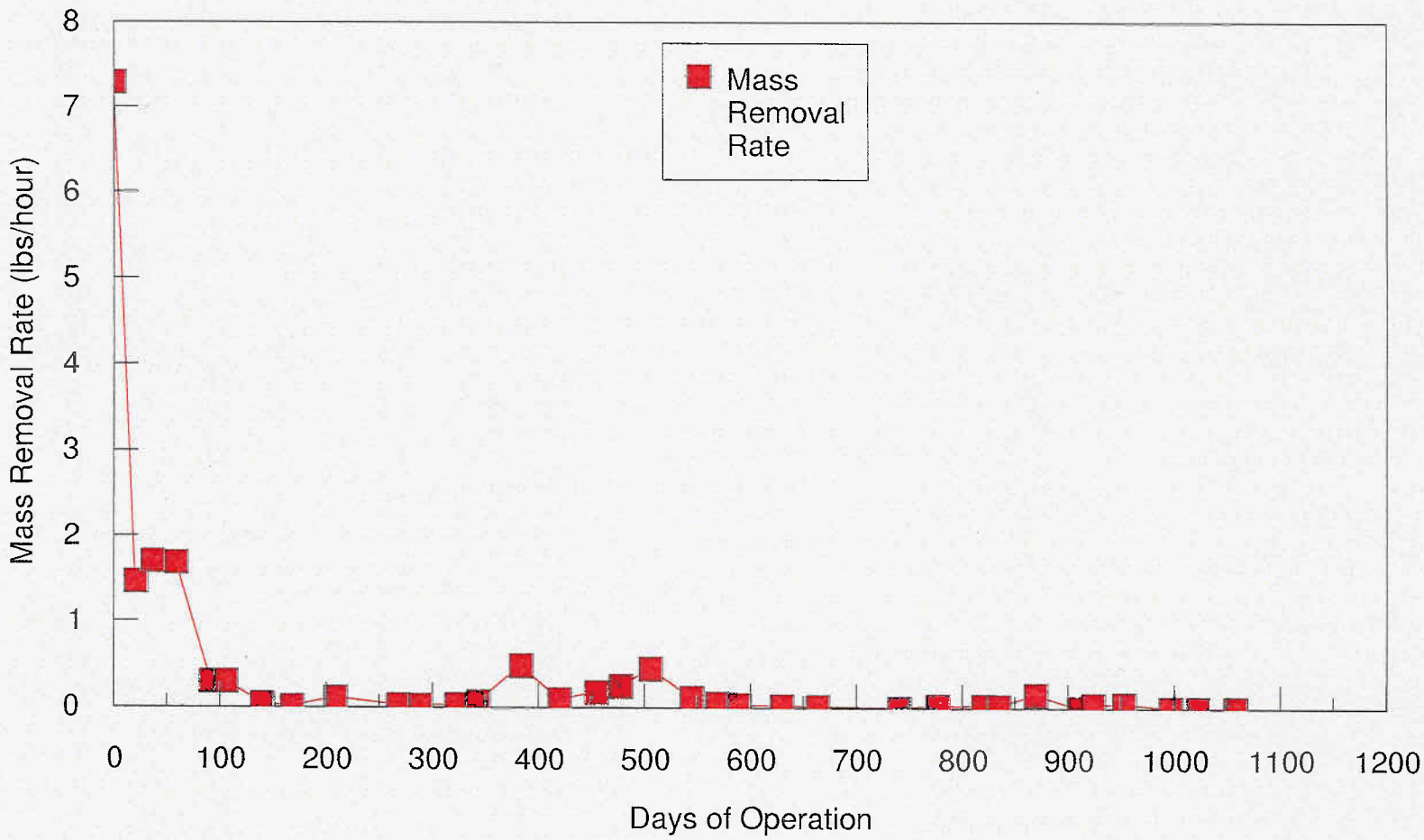
DRAWN BY	CHECKED BY	APPROVED BY	DRAWING NUMBER
L. Avery 3/30/99	--- ---	--- ---	1405-16

OFFICE	X-REF	IMAGE
WIN	---	---

DATE: 3/30/99
TIME: 2:07 PM
FORMAT REVISION 2/26/99

Figure 3A- Mass Removal Rate

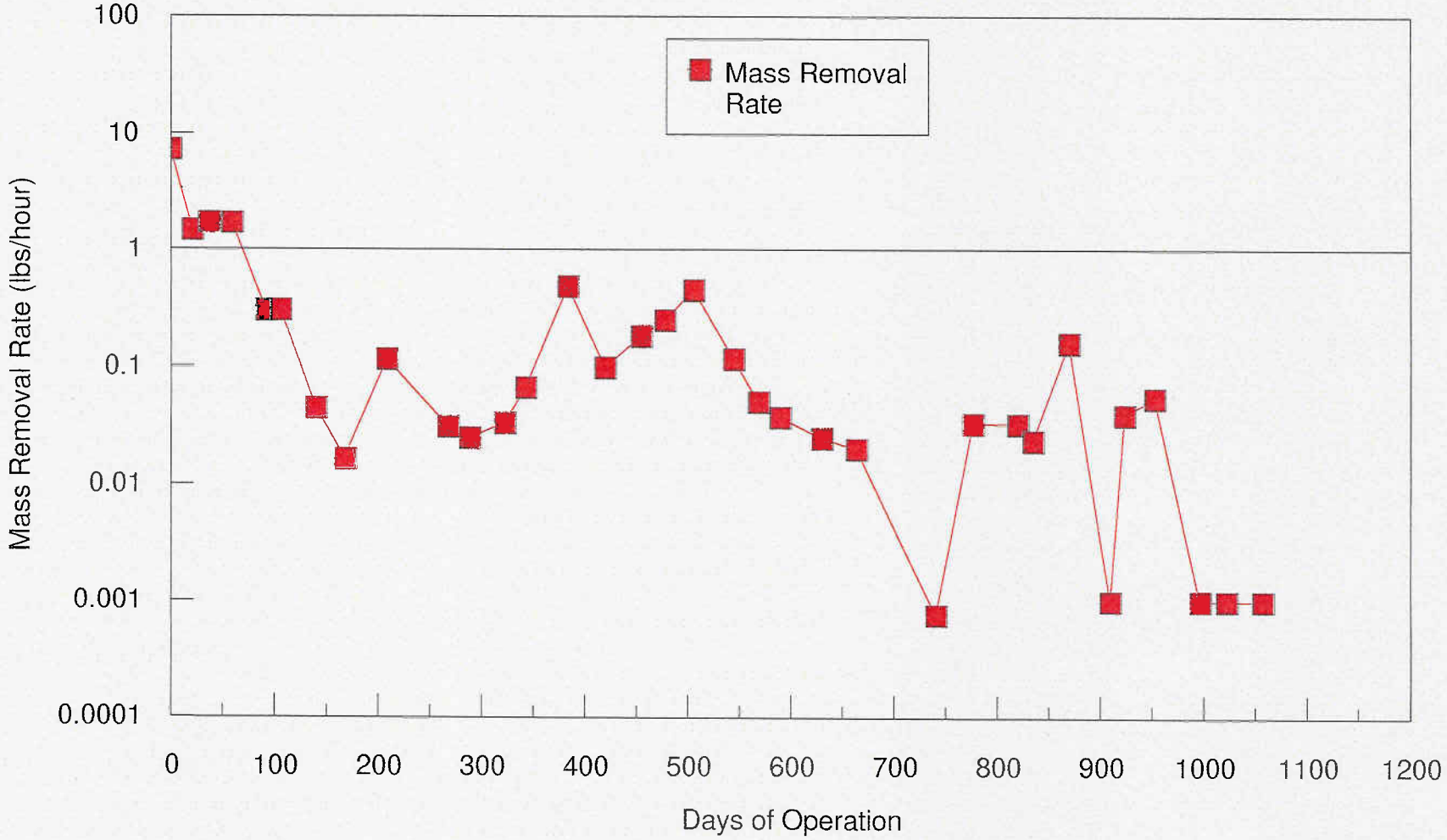
Dolphin Mart Site, New London Naval Submarine Base, Groton, CT



Aug00.WK4

Figure 3B- Mass Removal Rate

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



Aug00.WK4

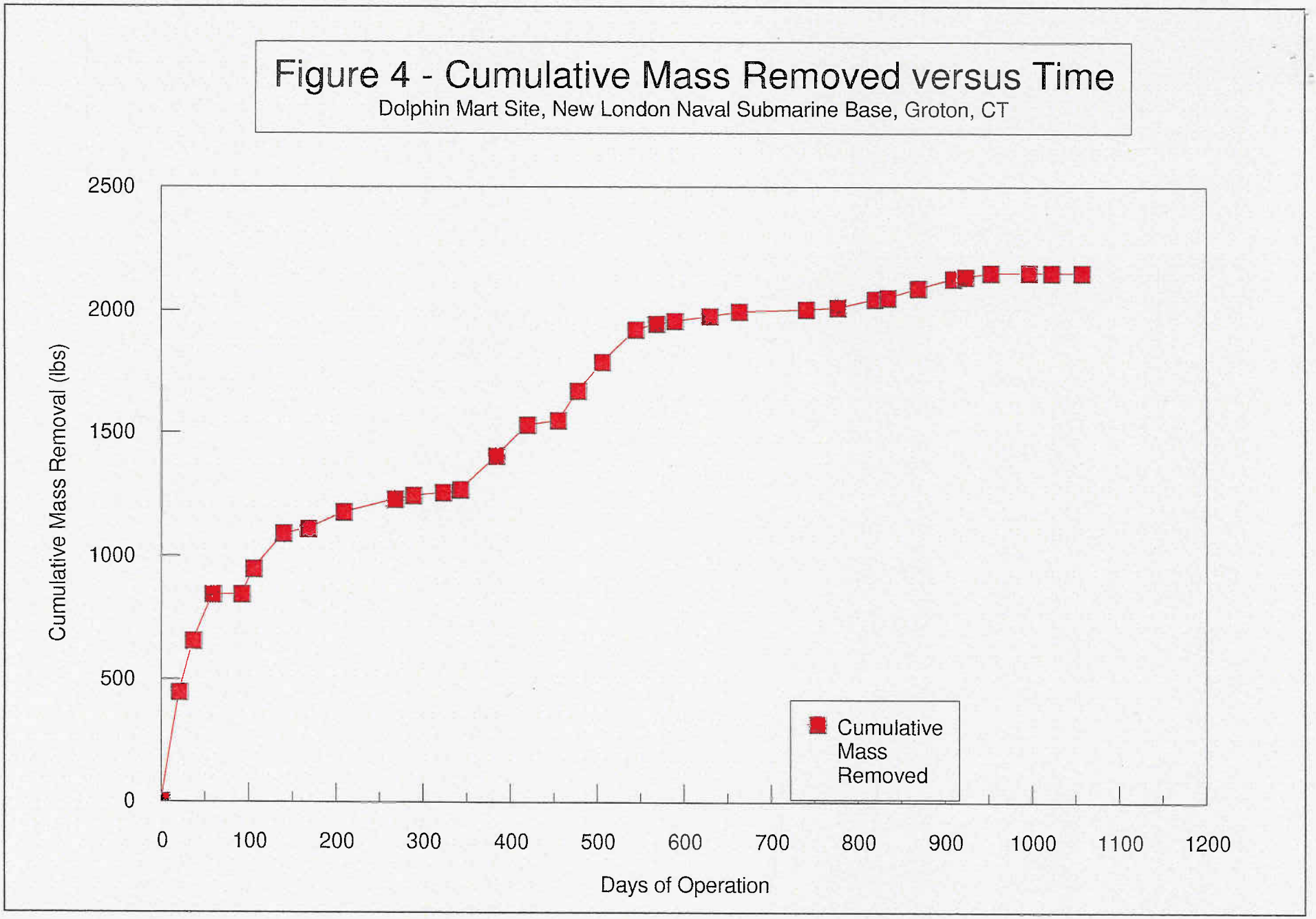
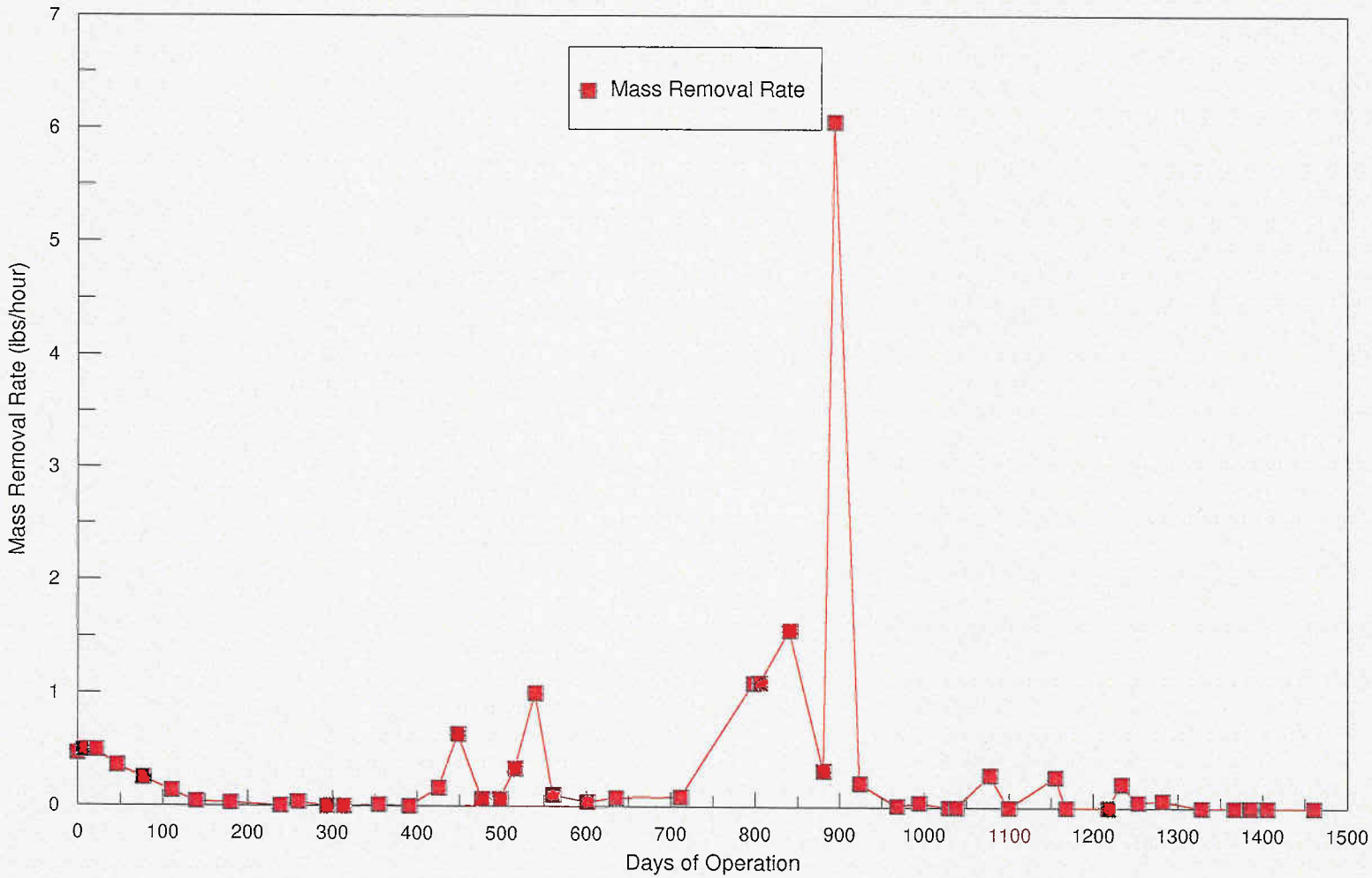


Figure 4 - Cumulative Mass Removed versus Time
Dolphin Mart Site, New London Naval Submarine Base, Groton, CT
Cumulative Mass Removal (lbs)
2500
2000
1500
1000
500
0
0
100
200
300
400
500
600
700
800
900
1000
1100
1200
Days of Operation
Cumulative Mass Removed

Aug00.WK4

Figure 5A - Mass Removal Rate

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



AUG00.WK4

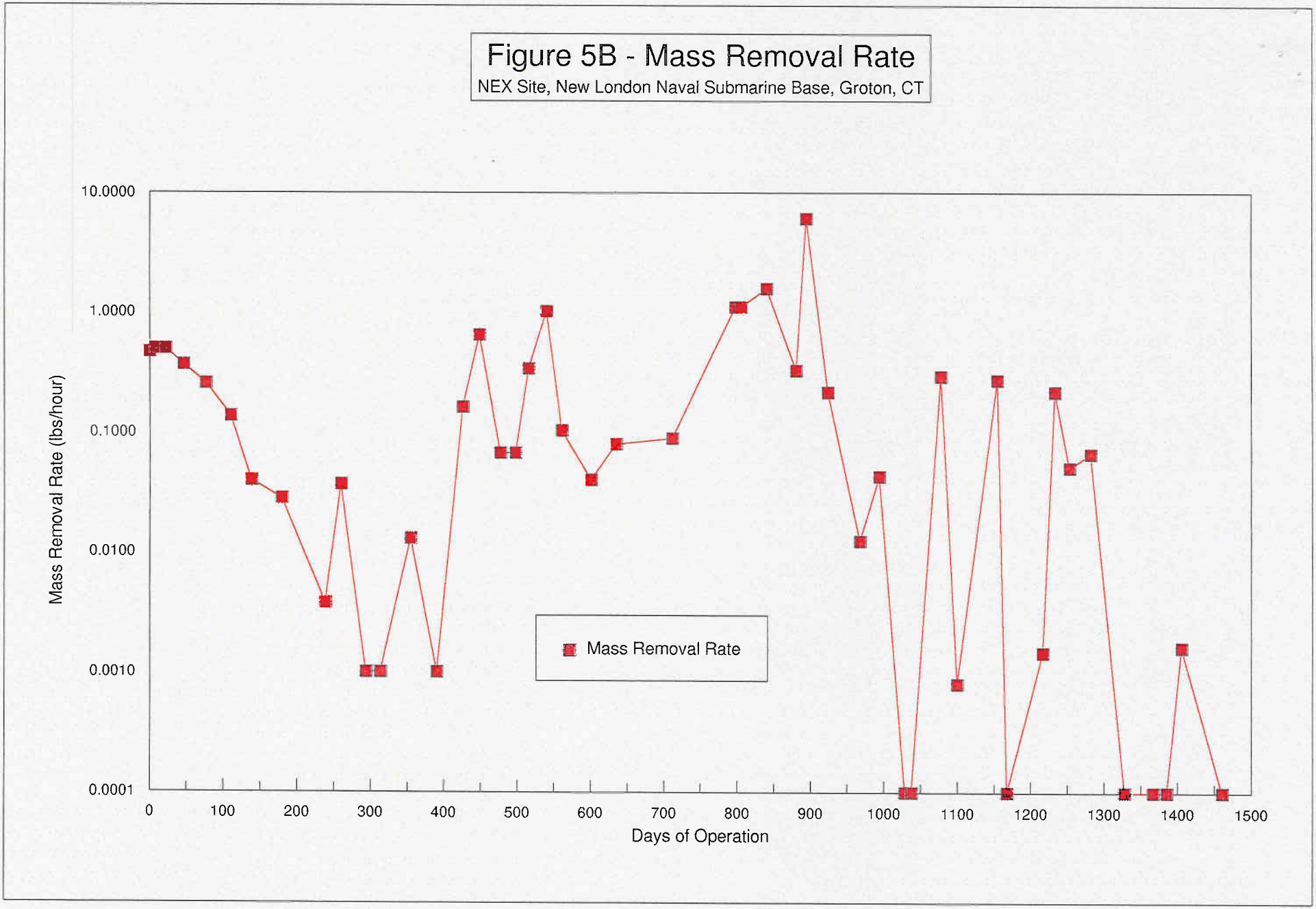
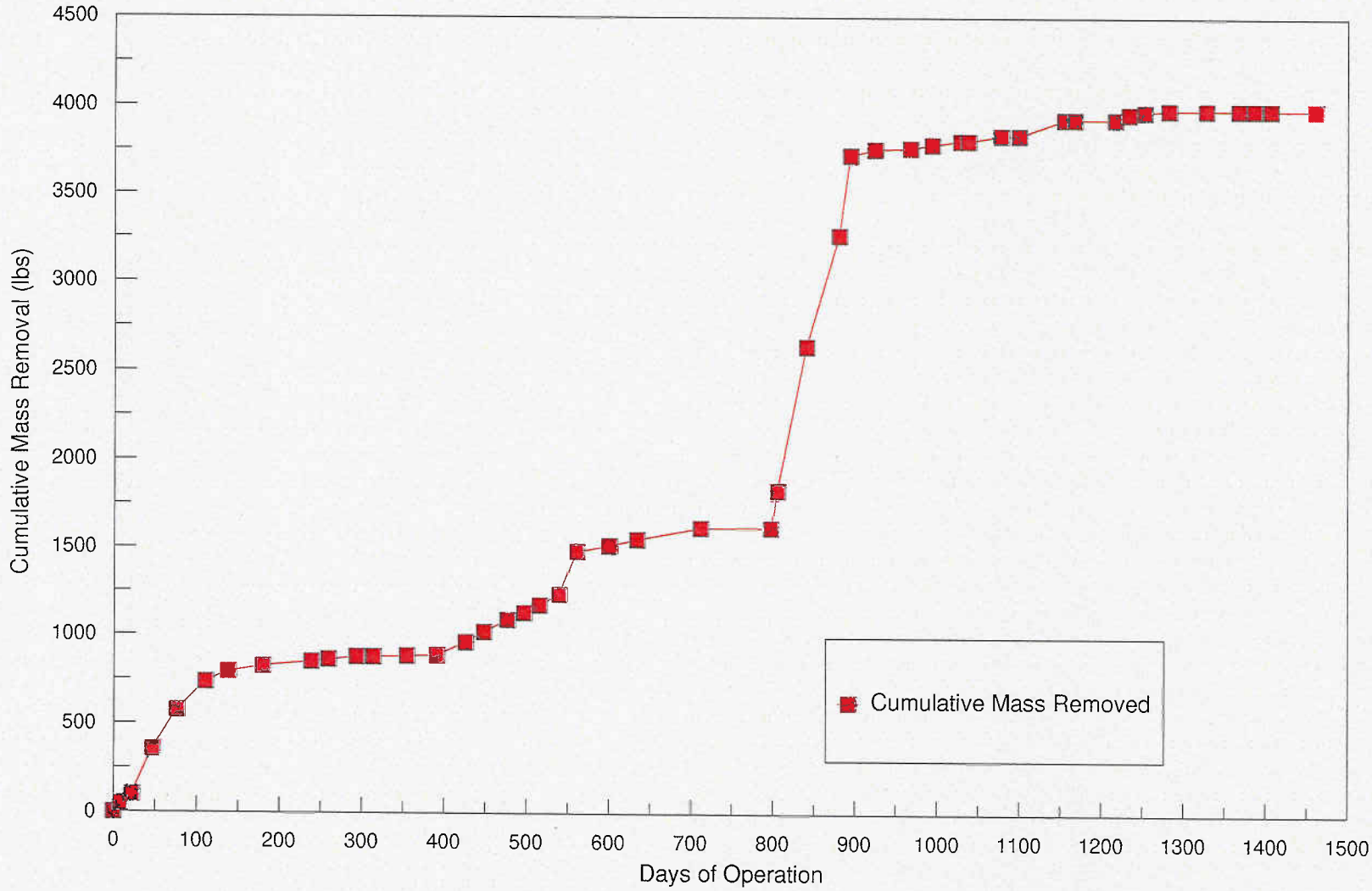


Figure 5B - Mass Removal Rate
NEX Site, New London Naval Submarine Base, Groton, CT
10.0000
1.0000
0.1000
0.0100
0.0010
0.0001
Mass Removal Rate (lbs/hour)
0
100
200
300
400
500
600
700
800
900
1000
1100
1200
1300
1400
1500
Days of Operation
Mass Removal Rate

AUG00.WK4

Figure 6 - Cumulative Mass Removed versus Time

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



AUG00.WK4

ATTACHMENT 1

SITE VISIT FORMS

Schedule Date
8/8/00

NAVAL SUBMARINE BASE
GROTON, CT.
87260014

Date: 8.10.00
Project Number: 87260014
DB/SCA Box Check: Yes / No
Site Arrival Time: 8:05
Total Hours on Site: 4.5

Staff: WCD
Task Number: ~~0707~~ 050
Bill Code Override:
Site Departure Time: 12:40
Total Hours Billed: 6.5

Please complete the following requested work scope and check off each task as it's completed:
R = Requested C = Completed

DOLPHIN MART:

R	C	
☐	☐	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 roadboxes

NEX:

R	C	
☒	☐	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
☐	☐	

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

grsubbas\wp\form1.02

Groton Sub base

8.10.00

WEN

805 - Arr on site @ Dolphin Mart.

- All loadboxes OK, shed secure.

8:20 - Arr @ NEX, system down due to V1 high level no air flow.

- V3 running upon arr, but blowing carbon dust of of absorbers A/B.
- Shut down system + took readings.
- checked for leak and found broken seal on absorbe (A).
- Carbon dust is everywhere.
- Called JDS to advise cleanup. He suggested sweeping up.
- NOT working, carbon needs to be mopped or vacuumed up.
- Material is very fine
- Restarted SVE1 + 3 to check system.
- V1 pump now blowing fuses due to backpressure in carbon (water).
- V3 Trap leaking badly.

To Restart system.

1) replace Trap V3
2) clean both V3 + V1 Traps and pump intakes.
3) repair or pull offline carbon absorbers.
4) cleanout water carbon units.

- Will leave system down due to fact that leaking water will cause black carbon dust to leak out of doorways.

* No DMR's taken due to pumps down due to carbon.

12:40 - Dep NEX

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

Date: 8.10.00
Time: 9:00
Technician: GP

AIR COMPRESSOR SYSTEM

Flow Rate	SCFM	Total Flow	SCFM
Air Compressor C-1		**Air Compressor C-2**	
Pressure	Down psi	Pressure	off psi
Temperature	°F	Temperature	°F
Flow Control Valve Setting		Flow Control Valve Setting	
Bleed Valve		Bleed Valve	
Radiator	ON / OFF	Radiator	ON / OFF

SOIL VAPOR EXTRACTION SYSTEM

Eastern Flow Rate	SCFM	Total Flow	20760179 6 SCFM
Western Flow Rate	SCFM	Total Flow	59233899 SCFM
Vacuum Pump V-1		**Vacuum Pump V-2**	
Vacuum	"Hg	Vacuum	"Hg
Temperature	°F	Temperature	°F
Particulate Filter	Down	Particulate Filter	off
Flow Control Valve Setting		Flow Control Valve Setting	
Bleed Air Valve Setting		Bleed Air Valve Setting	
Liquid Level		Liquid Level	
Vacuum Pump V-3		**Vacuum Pump V-4**	
Vacuum	"Hg	Vacuum	"Hg
Temperature	°F	Temperature	°F
Particulate Filter	Down	Particulate Filter	
Flow Control Valve Setting		Flow Control Valve Setting	off
Bleed Air Valve Setting		Bleed Air Valve Setting	
Liquid Level		Liquid Level	

ACTIVATED CARBON ADSORPTION SYSTEM

Carbon Adsorber A/B		**Carbon Adsorber C/D**	
Pressure	psi	Pressure	psi
Inf. VOC Level	ppm	Inf. VOC Level	ppm
Mid. VOC Level	Down ppm	Mid. VOC Level	Down ppm
Eff. VOC Level	ppm	Eff. VOC Level	ppm
Change out Date	NA	Change out Date	NA

WATER TREATMENT

Flowmeter Reading 275084.7 Gallons (arrival reading) Flowmeter Reading 275084.7 Gallons (departure reading)

COMMENTS

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

IT CORPORATION

PROJECT: Groton

PROJECT #: 87260014

DATE: 8-10-00

PROBE CORRECTION:

LOCATION: Groton CT.

OPERATOR: LCP

EQUIPMENT #: ART

COMMENTS:

WELL MONITORING FORM

WELL ID	WELL DEPTH	DEPTH TO WATER	DEPTH TO PETROLEUM	PETROLEUM THICKNESS	VACUUM OR PRESSURE	VOC CONCENTRATIO (PPM)
ERM-12	C.NL	.	.	—		
ERM-14	14.35	7.09	—	—		
ERM-16	16.15	9.11	—	—		
OBG-1	11.45	7.84	.	—		
OBG-9	12.85	6.51	.	4 sheen		
Dolphin Mart						
VP-1						
VP-2						
VP-3						
VP-4						
VP-5					NA	
VP-6						
VP-7						
VP-8						
VP-9						
NEX						
VP-1						
VP-2						
VP-3						
VP-4					NA	
VP-5						
VP-6					Syst Down	
VP-7						
VP-8						
VP-9						

:/wp/form3.31r

DATE:	SITE:
NAME:	JOB/TASK NUMBER:
INSTRUMENT MANUFACTURER:	
INSTRUMENT CALIBRATION: PH 4 OK?_____	PH 7 OK?_____

SAMPLE ID:	PH:	TEMP:
NEX INF.		
NEX EFF.		
DOLPHIN MART INF.		
DOLPHIN MART EFF.		

N/A

*** CT. REGS. REQUIRE THE USE OF A PH METER. DO NOT USE PH PAPER.**

*** CALL IN IF PH READINGS ARE NOT WITHIN 6.0 - 8.5**

C:\FSM\PROJECT\FORM1.00

MONITORING PROTOCOL

COMPONENT	FREQUENCY	RECORD DATA FOR:
Air Compressors C-1 and C-2	Monthly + Flybys	Flow Rate Pressure Temperature Flow Control Valve Setting Bypass Valve Setting Radiator Status
Vacuum Pumps V-1, V-2, V-3, and V-4	Monthly + Flybys	Flow Rate Inlet Vacuum Discharge Pressure Discharge Temperature Particulate Filter Condition Moisture Trap Condition Flow Control Valve Setting Bypass Valve Setting
Vapor Phase Carbon Units A/B and C/D	Monthly + Flybys	Pressure Influent VOC Concentration (FID) Midfluent VOC Concentration (FID) Effluent VOC Concentration (FID)
Air Sparge Wells SPA-1 through SPA-37 and SPB-1 through SPB-27	As Directed	Flow Rate Pressure Flow Control Valve Setting
SVE Wells VEA-1 through VEA-20 and VEB-1 through VEB-15	As Directed	Flow Rate Vacuum Flow Control Valve Setting VOC Concentration by FID
Vapor Monitoring Points VP-1 through VP-9	Monthly	Vacuum/Pressure VOC Concentration by FID
Air Discharge	Monthly	Vapor Phase GAC A/B Influent - Tedlar bag samples for: EPA Method T03 for BTEX + MTBE + Total Volatile Petroleum Hydrocarbons Vapor Phase GAC C/D Influent - Tedlar bag samples for: EPA Method T03 for BTEX + MTBE + Total Volatile Petroleum Hydrocarbons

Water Discharge	Monthly	Liquid Phase GAC A/B Influent - EPA Method 624 + MTBE + Xylenes Liquid Phase GAC A/B Midfluent - EPA Method 624 + MTBE + Xylenes Liquid Phase GAC C/D Influent - EPA Method 624 + MTBE + Xylenes Liquid Phase GAC C/D Midfluent - EPA Method 624 + MTBE + Xylenes Liquid Phase GAC Total Effluent - EPA Method 624 + MTBE + Xylenes EPA Method 418.1 (TPH) EPA Method 239.2 (Total Lead) pH
Water Discharge	April and October	Liquid Phase GAC Total Effluent - Aquatic Toxicity
Groundwater Gauging Monitoring Wells ERM-12, ERM-14, ERM-16, OBG-1, and OBG-9	Monthly	Depth to Groundwater Depth to Petroleum (if present)
Groundwater Gauging Monitoring Wells ERM-5, ERM-6, ERM-7, ERM-11, ERM-12, ERM-13, ERM-14, ERM-15, ERM-16, ERM-17, ERM-19, FD-1, FD-2, FD-3, MW-4, MW-6, NEX-1, OBG-1, OBG-2, OBG-4, OBG-7, OBG-9, VEA-4, VEA-7, VEA-21, and VEB-6	Feb, May, Aug, Nov	Depth to Groundwater Depth to Petroleum (if present)
Groundwater Sampling Monitoring Wells ERM-5, ERM-6, ERM-12, ERM-14, ERM-15, ERM-16, FD-1, FD-2, FD-3, MW-4, MW-6, OBG-1, OBG-2, OBG-9, OBG-4, VEA-4, VEA-7, VEA-21, and VEB-6	Feb, May, Nov	EPA Method 8021 (BTEX + MTBE) EPA Method 8100M (TPH)
Groundwater Sampling Monitoring Wells ERM-5, ERM-6, ERM-7, ERM-11, ERM-12, ERM-13, ERM-14, ERM-15, ERM-16, ERM-17, ERM-19, FD-1, FD-2, FD-3, MW-4, MW-6, NEX-1, OBG-1, OBG-2, OBG-4, OBG-7, OBG-9, VEA-4, VEA-7, VEA-21, and VEB-6	August	EPA Method 8021 (BTEX + MTBE) EPA Method 8100M (TPH)

MONITORING PROTOCOL

COMPONENT	FREQUENCY	RECORD DATA FOR:
Air Compressors C-1 and C-2	Monthly + Flybys	Flow Rate Pressure Temperature Flow Control Valve Setting Bypass Valve Setting Radiator Status
Vacuum Pumps V-1, V-2, V-3, and V-4	Monthly + Flybys	Flow Rate Inlet Vacuum Discharge Pressure Discharge Temperature Particulate Filter Condition Moisture Trap Condition Flow Control Valve Setting Bypass Valve Setting
Vapor Phase Carbon Units A/B and C/D	Monthly + Flybys	Pressure Influent VOC Concentration (FID) Midfluent VOC Concentration (FID) Effluent VOC Concentration (FID)
Air Sparge Wells ASP-A through ASPA-Q	As Directed	Flow Rate Pressure Flow Control Valve Setting
SVE Trenches VET-1 through VET-17	As Directed	Flow Rate Vacuum Flow Control Valve Setting VOC Concentration by FID
Vapor Monitoring Points VP-1 through VP-9	Monthly	Vacuum/Pressure VOC Concentration by FID
Air Discharge	Monthly	Vapor Phase GAC Influent - Tedlar bag samples for: EPA Method T03 for BTEX + MTBE + Total Volatile Petroleum Hydrocarbons
Water Discharge Only If System Operates	Monthly	Liquid Phase GAC Total Effluent - EPA Method 624 + MTBE + Xylenes EPA Method 418.1 (TPH) EPA Method 239.2 (Total Lead) pH
Water Discharge Only If System Operates	March, June, September, and August	Liquid Phase GAC Total Influent - EPA Method 624 + MTBE + Xylenes EPA Method 418.1 (TPH) EPA Method 239.2 (Total Lead) pH
Groundwater Gauging ing Wells DM-1, DM-2, DM-3, DM-	Feb, May, Aug, Nov	Depth to Groundwater Depth to Petroleum (if present)

4, DM-5, HRP-10, HRP-11, MW-1, MW-2, MW-3, OBG-8A, OBG-9A, WE-2D(B), WE-2S, WE-3, WE-4, WE-5, and WE-6		
Groundwater Sampling Monitoring Wells DM-1, DM-2, DM-3, DM-4, DM-5, HRP-10, HRP-11, MW-1, MW-2, MW-3, OBG-8A, OBG-9A, WE-2D(B), WE-2S, WE-3, WE-4, WE-5, and WE-6	Feb, May, Aug, Nov	EPA Method 8021 (BTEX + MTBE) EPA Method 8100M (TPH)

508-759-4141

NAVAL SUBMARINE BASE
GROTON, CT.
87260014

Date: August ~~29~~ 30/31, 2000 **Staff:** John Kowzan
Project Number: 87260014 **Task Number:** _____
DB/SCA Box Check: Yes / No **Bill Code Override:** _____
Site Arrival Time: _____ **Site Departure Time:** _____
Total Hours on Site: _____ **Total Hours Billed:** _____

Please complete the following requested work scope and check off each task as it's completed:
√ = Requested √ = 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 (If you discharge)
☑	☐	COMPLETE PH FORM
√	☐	COMPLETE QUARTERLY GROUNDWATER SAMPLING
√	☐	CHECK THE CONDITION OF ALL ROADBOXES AND SHED SECURITY
☑	☐	See Attached

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
☑	☐	COMPLETE PH FORM
√	☐	COMPLETE QUARTERLY GROUNDWATER SAMPLING
√	☐	CHECK THE CONDITION OF ALL ROADBOXES AND SHED SECURITY
✓		See Attached

EQUIPMENT NEEDED: HASP, PPE, FID, SAMPLE COOLERS AND CONTAINERS

TASK NUMBERS:

Monthly O&M	= 05000000	Unscheduled Maintenance	= 05700000
Quarterly Sampling	= 05500000	Sys. Modification/Roadbox Repair	= 08010000
Carbon Change-out	= 05600000		

grsubbas\wp\form1.02m

IT CORPORATION

NEW LONDON NAVAL SUBMARINE BASE, NEW LONDON, CT

DOLPHIN MART SITE

MONITORING PROTOCOL

COMPONENT	FREQUENCY	RECORD DATA FOR:
Air Compressors C-1 and C-2	Monthly + Flybys	Flow Rate Pressure Temperature Flow Control Valve Setting Bypass Valve Setting Radiator Status
Vacuum Pumps V-1, V-2, V-3, and V-4	Monthly + Flybys	Flow Rate Inlet Vacuum Discharge Pressure Discharge Temperature Particulate Filter Condition Moisture Trap Condition Flow Control Valve Setting Bypass Valve Setting
Vapor Phase Carbon Units A/B and C/D	Monthly + Flybys	Pressure Influent VOC Concentration (FID) Midfluent VOC Concentration (FID) Effluent VOC Concentration (FID)
Air Sparge Wells ASP-A through ASPA-Q	As Directed	Flow Rate Pressure Flow Control Valve Setting
SVE Trenches VET-1 through VET-17	As Directed	Flow Rate Vacuum Flow Control Valve Setting VOC Concentration by FID
Vapor Monitoring Points VP-1 through VP-9	Monthly	Vacuum/Pressure VOC Concentration by FID
Air Discharge	Monthly	Vapor Phase GAC Influent - Tedlar bag samples for: EPA Method T03 for BTEX + MTBE + Total Volatile Petroleum Hydrocarbons
Water Discharge	Monthly	Liquid Phase GAC Total Effluent - EPA Method 624 + MTBE + Xylenes EPA Method 418.1 (TPH) EPA Method 239.2 (Total Lead) pH
Water Discharge	March, June, September, and August	Liquid Phase GAC Total Influent - EPA Method 624 + MTBE + Xylenes EPA Method 418.1 (TPH) EPA Method 239.2 (Total Lead) pH
Groundwater Gauging Monitoring Wells DM-1, DM-2, DM-3, DM-	Feb, May, Aug, Nov	Depth to Groundwater Depth to Petroleum (if present)

)olsamp.doc

4, DM-5, HRP-10, HRP-11, MW-1, MW-2, MW-3, OBG-8A, OBG-9A, WE-2D(B), WE-2S, WE-3, WE-4, WE-5, and WE-6		
Groundwater Sampling Monitoring Wells DM-1, DM-2, DM-3, DM-4, DM-5, HRP-10, HRP-11, [redacted], MW-2, MW-3, OBG-8A, OBG-9A, [redacted]), WE-2S, WE-3, WE-4, WE-5, and WE-6 18	Feb, May, Aug, Nov	EPA Method 8021 (BTEX + MTBE) EPA Method 8100M (TPH)

MONITORING PROTOCOL

COMPONENT	FREQUENCY	RECORD DATA FOR:
Air Compressors C-1 and C-2	Monthly + Flybys	Flow Rate Pressure Temperature Flow Control Valve Setting Bypass Valve Setting Radiator Status
Vacuum Pumps V-1, V-2, V-3, and V-4	Monthly + Flybys	Flow Rate Inlet Vacuum Discharge Pressure Discharge Temperature Particulate Filter Condition Moisture Trap Condition Flow Control Valve Setting Bypass Valve Setting
Vapor Phase Carbon Units A/B and C/D	Monthly + Flybys	Pressure Influent VOC Concentration (FID) Midfluent VOC Concentration (FID) Effluent VOC Concentration (FID)
Air Sparge Wells SPA-1 through SPA-37 and SPB-1 through SPB-27	As Directed	Flow Rate Pressure Flow Control Valve Setting
SVE Wells VEA-1 through VEA-20 and VEB-1 through VEB-15	As Directed	Flow Rate Vacuum Flow Control Valve Setting VOC Concentration by FID
Vapor Monitoring Points VP-1 through VP-9	Monthly	Vacuum/Pressure VOC Concentration by FID
Air Discharge	Monthly	Vapor Phase GAC A/B Influent - Tedlar bag samples for: EPA Method T03 for BTEX + MTBE + Total Volatile Petroleum Hydrocarbons Vapor Phase GAC C/D Influent - Tedlar bag samples for: EPA Method T03 for BTEX + MTBE + Total Volatile Petroleum Hydrocarbons
Water Discharge	Monthly	Liquid Phase GAC A/B Influent - EPA Method 624 + MTBE + Xylenes Liquid Phase GAC A/B Midfluent - EPA Method 624 + MTBE + Xylenes Liquid Phase GAC C/D Influent - EPA Method 624 + MTBE + Xylenes

		Liquid Phase GAC C/D Midfluent - EPA Method 624 + MTBE + Xylenes Liquid Phase GAC Total Effluent - EPA Method 624 + MTBE + Xylenes EPA Method 418.1 (TPH) EPA Method 239.2 (Total Lead) pH
Water Discharge	April and October	Liquid Phase GAC Total Effluent - Aquatic Toxicity
Groundwater Gauging Monitoring Wells ERM-12, ERM-14, ERM-16, OBG-1, and OBG-9	Monthly	Depth to Groundwater Depth to Petroleum (if present)
Groundwater Gauging Monitoring Wells ERM-5, ERM-6, ERM-7, ERM-11, ERM-12, ERM-13, ERM-14, ERM-15, ERM-16, ERM-17, ERM-19, FD-1, FD-2, FD-3, MW-4, MW-6, NEX-1, OBG-1, OBG-2, OBG-4, OBG-7, OBG-9, VEA-4, VEA-7, VEA-21, and VEB-6	Feb, May, Aug, Nov	Depth to Groundwater Depth to Petroleum (if present)
Groundwater Sampling Monitoring Wells ERM-5, ERM-6, ~~ERM-11~~, ~~ERM-12~~, ERM-15, ~~ERM-16~~, FD-1, FD-2, FD-3, MW-4, MW-6, OBG-1, ~~OBG-2~~, ~~OBG-3~~, OBG-4, ~~VEA-4~~, VEA-7, VEA-~~21~~ 14, and VEB-6 19	Feb, May, Nov	EPA Method 8021 (BTEX + MTBE) ~~EPA Method 8100M (TPH)~~
Groundwater Sampling Monitoring Wells ERM-5, ERM-6, ERM-7, ERM-11, ERM-12, ERM-13, ERM-14, ERM-15, ERM-16, ERM-17, ERM-19, FD-1, FD-2, FD-3, MW-4, MW-6, NEX-1, OBG-1, OBG-2, OBG-4, OBG-7, OBG-9, VEA-4, VEA-7, VEA-21, and VEB-6 26	August	EPA Method 8021 (BTEX + MTBE) EPA Method 8100M (TPH)

Naval sub base - Dolphin mart site

87260014/05500000

8/30/00

John Kauzu

7:50 to 9:00 AM Depart IT corp and traveled to the site.

9:00 AM to 16:15pm Arrived on site, and began to gauge the wells. well DM4 had an odor to it that smelled like sewage. this well is also loose and is leaning inside the road box. I was able to push the well straight up to gauge it. Did not detect any product in any of the wells. After gauging was completed, I began to bail out the wells. Wells MW1 and WE & D (B) were not bailed or sampled according to Jonathan Sorrow's instructions. All of the wells bailed dry, except for well MW 2. let the wells recharge and then began to sample the wells. Samples were obtained from all wells for EPA 8021 BTex + MtBE and TPH 8100m. Secured all wells and departed site.

Returned to IT corp and placed the samples in the refrigerator to be picked up by Ground water Analytical on 8/31/00.

Naval Subbase - Dolphin mart site

5726 0014 / 0550000 8/30/00

Jonathan Sorrow John Kouzo

While doing the Yly sampling, I found two roadboxes that need to be replaced. the ones that need to be replaced are MW 1 and W E 5.

these roadboxes have stripped bolts in them. when it snows, the plows will knock the covers off and possible due damage to the wells. we should replace these two road boxes before winter.

the road box for well DM 4 ~~sho~~ should also be replaced. this well has stripped bolts to it and the cover could be knocked off. well HRP 10 is in the same condition for the road box.

wells HRP 10, DM 4 and WE 5 are two inch PVC wells. well MW 1 is a four inch PVC well.

Naval subbase - Nex site

87260014 / 05500000 8/31/00

Jonathan Sorrow John Rowan, J

7:50 to 8:30 Arrived at IT corp and loaded additional supplies on the truck. Went and spoke to Jonathan Sorrow about today's activities on site.

8:30 to 9:40 Depart IT and traveled to the site.

9:40 to 16:40 Arrived on site and proceeded to building # 166 to pick up some documentation that Jonathan Sorrow had requested. Then proceeded to the SVE shed and set up to begin gauging. Did not detect any product while gauging the wells. Wells ERM 11 and ERM 12 were destroyed during the reconstruction of the soccer field. Vapor point VEB 6 was also destroyed during construction. After gauging was completed, I began to bail out the wells. all of the monitoring wells bailed dry. While bailing out well FD3, the pvc bailer became stuck down in the bottom of the well, tried for a half hour to get the bailer out of the well and was unsuccessfull at it. Called and notified Jonathan Sorrow about what happened to the bailer in well FD3. Then went and continued to finish bailing out the wells. After the wells recharged, I began to sample them. Samples were obtained from the monitoring wells according to the modified sheet that

Jonathan Sorrow gave me. After sampling was completed, I packed up the truck, secured the shed and departed site.

I had missed the pick up time for the samples, and called groundwater analytical and rescheduled a pick up for sept. 1, 2000 at the office. Samples for Dolphin site and Nex site will be picked up on Sept. 1, 2000 at the windsor, ct office.

IT Corporation
A Member of The IT Group

GROUNDWATER GAUGING/SAMPLING FORM

JOB NAME: Naval Subbase / Dolphin mart Site
JOB NUMBER: 872600 14

DATE: 8/30/00
NAME: John Kolzun, JR

* Do not sample these wells

WELL ID NUMBER	DEPTH TO BOTTOM:	DEPTH TO WATER:	DEPTH TO PRODUCT:	SATURATED THICKNESS:	# GALLONS TO BAIL:	ACTUAL GALLONS BAILED:
OM #1	11.12	2.42	–	8.70	6.4	5.0 dry
OM 2	5.66	2.93	–	2.73 ~~7.75~~	~~5.6~~ 1.6	1.0 Dry
OM 3	11.01	2.69	–	8.32	6.4	3.0 dry
OM 4	11.43	3.68	–	7.75	5.6	3.5 dry
OM 5	21.34	6.61	–	14.73	11.2	15
HRP 10	14.00	4.85	–	9.15	7.2	9.00 dry
HRP 11	10.36	3.83	–	6.53	4.8	4.25 dry
* mw 1	10.49	5.10	–	5.39	17.5 ~~40~~	NA
mw 2	14.63	3.81	–	10.82	~~8.0~~ ?	55
mw 3	5.05	3.36	–	1.69	0.8	1.0 dry
obs 8A	6.48	2.00	–	4.48	3.2	1.0 dry
obs 9A	9.23	2.09	–	7.14	5.6	2.75 dry
* WE 20(B)	19.81	6.60	–	13.21	10.4	NA
WE 2S	12.90	6.26	–	6.64	4.8	1.75 dry
WE 3	13.23	8.98	–	4.25	3.2	2.0 dry
WE 4	12.91	4.44	–	8.47	6.4	3.5 dry
WE 5	12.64	5.45	–	7.19	5.6	1.75 dry
WE 6	11.12	3.63	–	7.49	5.6	6.25 dry

Saturated Thickness	Gallons to Bail 2"	Gallons to Bail 4"	Saturated Thickness	Gallons to Bail 2"	Gallons to Bail 4"	Saturated Thickness	Gallons to Bail 2"	Gallons to Bail 4"
1	0.8	3.5	8	6.4	28	15	12	52.5
2	1.6	7	9	7.2	31.5	16	12.8	56
3	2.4	10.5	10	8	35	17	13.6	59.5
4	3.2	14	11	8.8	38.5	18	14.4	63
5	4	17.5	12	9.6	42	19	15.2	66.5
6	4.8	21	13	10.4	45.5	20	16	70
7	5.6	24.5	14	11.2	49			

IT Corporation
A Member of The IT Group

GROUNDWATER GAUGING/SAMPLING FORM

JOB NAME: Naval Subbase - Nex Site
JOB NUMBER: 872600 14

DATE: 8/31/00
NAME: John Konzun JR

WELL ID NUMBER	DEPTH TO BOTTOM:	DEPTH TO WATER:	DEPTH TO PRODUCT:	SATURATED THICKNESS:	# GALLONS TO BAIL:	ACTUAL GALLONS BAILED:
ERM 5	12.84	3.96	—	8.88	7.2	5.0 dry
ERM 6	13.47	4.84	—	8.63	7.2	4.25 dry
* ERM 7	13.99	5.10	—			missing Road box cover
* ERM 11	NA	NA	—	—	—	Destroyed
* ERM 12	NA	NA	—	—	—	Destroyed
* ERM 13	14.53	6.70	—		—	—
* ERM 14	14.32	6.36	—		—	—
ERM 15	11.26	4.00	—	7.26	5.6	3.5 dry
* ERM 16	16.16	7.22	—		—	—
* ERM 17	12.26	5.08	—		—	—
* ERM 19	11.90	4.94	—		—	—
FD 1	15.02	6.28	—	8.74	7.2	3.5 dry
FD 2	14.44	6.93	—	7.51	5.6	3.0 dry
FD 3	14.15	7.92	—	6.23	4.8	1.0 dry
MW 4	7.57	5.84	—	1.73	0.8	.75 dry
MW 6	11.59	4.66	—	6.93	21	9.0 dry
* Nex 1	14.37	5.13	—		—	—
obg 1	11.36	6.56	—	4.80	3.2	2.5 dry
* obg 2	9.72	6.78	—		—	—
obg 4	8.70	6.51	—	2.19	1.6	2.0 dry
* obg 7	13.98	6.29	—		—	—
* obg 9	12.82	5.91	—		—	—
* VEA 4	3.24	3.13	—		—	—
VEA 7	3.48	2.72	—	0.78	.25	.25 dry
VEA 14	7.08	4.33	—	2.75	1.00	1.00
VEB 6	NA	NA	—	—	—	Destroyed

Saturated Thickness	Gallons to Bail 2"	Gallons to Bail 4"	Saturated Thickness	Gallons to Bail 2"	Gallons to Bail 4"	Saturated Thickness	Gallons to Bail 2"	Gallons to Bail 4"
1	0.8	3.5	8	6.4	28	15	12	52.5
2	1.6	7	9	7.2	31.5	16	12.8	56
3	2.4	10.5	10	8	35	17	13.6	59.5
4	3.2	14	11	8.8	38.5	18	14.4	63
5	4	17.5	12	9.6	42	19	15.2	66.5
6	4.8	21	13	10.4	45.5	20	16	70
7	5.6	24.5	14	11.2	49			

Groton Sub Base
NEX Site

Scheduled Date: August 31, 2000 | Assigned By: Jonathan Sorrow
Project Name: Groton Sub Base | Personnel: John Kowzun
Project Job# 87260014/0500 | Allotted Time: 1.0 .50
Location: Naval Submarine Base, Groton, CT

Arrival Time: Departure Time: Travel Time:

ASSIGNED TASKS:

1. Go to Building 166 (near the Suisse Chalet Hotel) and ask for Dave Carroll. He will be compiling a box of files that you will be returning to me at the office. Bring a file box with you to protect the files. While you are there.....

2. Drop off a 3212 key for Dick Conant. This key will fit locks that you will probably chop-off of a number of wells that have recently had their roadboxes replaced (ERM-10 and ERM-11).

Notes:

EQUIPMENT: File box, 3212 key and locks

fwrspc1.wk4

ATTACHMENT 2

MONTHLY FIELD ACTIVITY SUMMARY

Field Activity Summary
August 2000

New London Naval Submarine Base
Groton, Connecticut

Date of Visit	Site	Period	Field Activities	Comments
8/10/00	Dolphin Mart	Bi-Weekly Monitoring	Checked site security and condition of road boxes.	Site security and road boxes OK.
	NEX		V3 running upon arrival, V1 down upon arrival. Portion of system down due to blown seal on Carbon Drum. System was left down upon departure.	Water carbon units need to cleaned. DMR samples could not be collected.
8/30&31/00	Dolphin Mart	Quarterly Groundwater Monitoring	Collected quarterly groundwater samples and checked site security and condition of road boxes.	Site security and road boxes OK. Quarterly sampling completed with no problems.
	NEX		Collected quarterly groundwater samples and checked site security and condition of road boxes. System still inoperable	Site security and road boxes OK. Quarterly sampling completed with no problems.

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 oncentratic 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
07/02/1996	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	
07/23/1996	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
08/08/1996	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
08/30/1996	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
10/02/1996	92	30	448	509.98	2.30	0.019	0.00	0.000	---	0.000	---	0.000	NA	36.00	0.286	0.305	0.00	845.37	system not in operation from 8/30 to 10/2 due to flow meter problem
10/16/1996	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
11/19/1996	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	
12/17/1996	168	30	450	512.26	0.12	0.001	0.00	0.000	---	0.000	---	0.000	8.20	1.97	0.016	0.017	20.84	1112.12	
01/27/1997	209	30	450	512.26	1.35	0.011	0.00	0.000	---	0.000	---	0.000	55.00	13.23	0.106	0.117	65.56	1177.68	
03/27/1997	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
04/17/1997	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	
05/21/1997	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
06/10/1997	343	15	329	374.52	0.25	0.002	0.00	0.000	---	0.000	---	0.000	47.00	11.31	0.066	0.067	12.14	1268.17	assume 50% up-time, blowers shutting down due to influent water
07/21/1997	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
08/26/1997	420	15	482	548.69	0.73	0.007	0.00	0.000	---	0.000	---	0.000	45.00	10.82	0.092	0.099	126.91	1531.85	assume 50% up-time, blowers shutting down due to influent water
09/30/1997	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	1549.68	assume ~15% up-time, blowers shutting down due to influent water
10/23/1997	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	
11/20/1997	506	32	590	671.63	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
12/29/1997	545	28	590	671.63	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
01/22/1998	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
02/12/1998	590	23	295	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
03/24/1998	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
04/27/1998	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	
07/13/1998	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
08/18/1998	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
09/30/1998	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	2046.92	
10/15/1998	835	0	231	262.96	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
11/19/1998	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
12/29/1998	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
01/12/1999	924	0	255	290.57	0.07	0.0003	0.00	0.000	---	0.000	---	0.000	36.00	8.66	0.039	0.040	6.81	2136.72	
02/10/1999	953	0	346	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
03/26/1999	997	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	
04/21/1999	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	
05/26/1999	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 10/16/96 through 4/17/97, 6/10/97 and 7/21/97 is assumed. Air flow meter not in operation.
5) Analytical data for 10/2 is assumed based on data from 10/16/96.
6) Beginning 10/16/96 lab analysis was performed by Mitkem Laboratory. Prior to 10/16/96 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
07/31/1996	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	
08/08/1996	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
08/22/1996	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
09/16/1996	47	NA*	320	364.27	2.70	0.015	0.00	0.000	—	0.000	—	0.000	—	61.00	0.346	0.361	256.56	356.34	
10/16/1996	77	NA*	320	364.27	2.50	0.014	0.00	0.000	—	0.000	—	0.000	—	42.00	0.238	0.253	220.98	577.32	
11/19/1996	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	
12/17/1996	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	
01/27/1997	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	
03/27/1997	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	
04/17/1997	260	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	
05/21/1997	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	
06/10/1997	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	
07/21/1997	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	
08/26/1997	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.
09/30/1997	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.
10/23/1997	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.
11/20/1997	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.
12/11/1997	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	
12/29/1997	516	47	520	591.37	0.78	0.007	2.18	0.018	—	0.000	—	0.000	140.00	33.68	0.310	0.335	42.29	1170.07	
01/22/1998	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	
02/12/1998	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	
03/24/1998	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	
04/27/1998	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	
07/13/1998	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	
10/07/1998	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.
10/15/1998	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	
11/19/1998	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	
12/29/1998	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.
01/12/1999	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	
02/10/1999	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	
03/26/1999	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
04/21/1999	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	
05/26/1999	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	
06/04/1999	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
07/14/1999	1078	32	290	330.12	1.82	0.010	4.36	0.020	—	0.000	—	0.000	210.00	50.52	0.260	0.289	32.24	3831.79	System reactivated 7/8/99
08/05/1999	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	
09/29/1999	1155	36	352	400.70	0.84	0.005	0.00	0.000	—	0.000	—	0.000	176.00	42.34	0.264	0.269	91.40	3923.34	
10/12/1999	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.
11/30/1999	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.
12/16/1999	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	
01/05/2000	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	
02/03/2000	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	
03/20/2000	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
04/28/2000	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	
05/17/2000	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	
06/06/2000	1406	39	342	389.32	0.00	0.000	0.00	0.000	—	0.000	—	0.000	1.10	0.26	0.002	0.002	0.31	3976.19	
07/31/2000	1461	38	148	168.48	0.00	0.000	0.00	0.000	—	0.000	—	0.000	0.00	0.00	0.000	0.000	0.00	3976.19	
08/31/2000	1492	0	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	3976.19	System currently deactivated

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 hexane. (MW = 86.2)
2) Aromatics are weighted using a response factor of o-xylene. (MW=106.16)
3) Analytical data for 7/31/96 is assumed based on results of sampling conducted 8/8/96.
4) Analytical data for 8/22/96 is assumed based on results of sampling conducted 8/8/96.
5) Air flow rate from 10/16/96 assumed for 9/16/96, due to a broken flow meter
6) Beginning 9/16/96 lab analysis was performed by Mitkem Laboratory. Prior to 9/16/96 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) System modificatons 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 3/26/99 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

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

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	94.23	6.37	87.86	94.30	NG	NA	94.02	NG	NA	94.81	NG	NA
07/03/96	94.23	NG	NA	94.30	NG	NA	94.02	NG	NA	94.81	NG	NA
07/12/96	94.23	NG	NA	94.30	NG	NA	94.02	NG	NA	94.81	NG	NA
07/16/96	94.23	NG	NA	94.30	NG	NA	94.02	NG	NA	94.81	NG	NA
07/17/96	94.23	NG	NA	94.30	NG	NA	94.02	NG	NA	94.81	NG	NA
07/19/96	94.23	NG	NA	94.30	NG	NA	94.02	NG	NA	94.81	NG	NA
07/22/96	94.23	NG	NA	94.30	NG	NA	94.02	NG	NA	94.81	NG	NA
07/23/96	94.23	NG	NA	94.30	NG	NA	94.02	NG	NA	94.81	NG	NA
07/24/96	94.23	NG	NA	94.30	NG	NA	94.02	NG	NA	94.81	NG	NA
07/25/96	94.23	NG	NA	94.30	NG	NA	94.02	NG	NA	94.81	NG	NA
07/26/96	94.23	NG	NA	94.30	NG	NA	94.02	NG	NA	94.81	NG	NA
08/01/96	94.23	NG	NA	94.30	NG	NA	94.02	NG	NA	94.81	NG	NA
08/02/96	94.23	NG	NA	94.30	NG	NA	94.02	NG	NA	94.81	NG	NA
08/05/96	94.23	NG	NA	94.30	NG	NA	94.02	NG	NA	94.81	NG	NA
09/04/96	94.23	NG	NA	94.30	NG	NA	94.02	NG	NA	94.81	NG	NA
10/02/96	94.23	NG	NA	94.30	NG	NA	94.02	NG	NA	94.81	NG	NA
10/21/96	94.23	NG	NA	94.30	NG	NA	94.02	NG	NA	94.81	NG	NA
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	94.23	2.53	91.70	94.30	NG	NA	94.02	1.60	92.42	94.81	NG	NA
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	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	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	94.23	NG	NA	94.30	NG	NA	94.02	NG	NA	94.81	NG	NA
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	94.23	NG	NA	94.30	NG	NA	94.02	NG	NA	94.81	NG	NA
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	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	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	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	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	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	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	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	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	94.23	1.82	92.41	94.30	2.32	91.98	94.02	1.87	92.15	94.81	1.37	93.44
06/05/00	94.23	2.08	92.15	94.30	2.57	91.73	94.02	2.18	91.84	94.81	2.86	91.95
08/30/00	94.23	2.42	91.81	94.30	2.93	91.37	94.02	2.69	91.33	94.81	3.68	91.13

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

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

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	
06/05/00	101.06	5.09	95.97	97.05	4.25	92.80	96.79	3.63	93.16		3.69	
08/30/00	101.06	6.61	94.45	97.05	4.85	92.20	96.79	3.83	92.96		5.10	

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

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

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
06/05/00		3.02			2.52		95.20	0.80	94.40	94.67	1.90	92.77
08/30/00		3.81			3.36		95.20	2.00	93.20	94.67	2.09	92.58

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

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

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
06/05/00		NG			NG		100.84	5.98	94.86	100.86	6.71	94.15
08/30/00		NG			NG		100.84	6.60	94.24	100.86	6.26	94.60

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

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

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
06/05/00	103.14	8.57	94.57	97.52	3.84	93.68	99.72	4.31	95.41	97.32	2.93	94.39
08/30/00	103.14	8.98	94.16	97.52	4.44	93.08	99.72	5.45	94.27	97.32	3.63	93.69

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

Table 1
Historical Groundwater Gauging Results
NEX - March 1995 - August 2000
Naval Submarine Base, Groton, CT

Date	ERM-5			ERM-6			ERM-7		
	Well Casing Elevation	Depth to Groundwater	Groundwater Elevation	Well Casing Elevation	Depth to Groundwater	Groundwater Elevation	Well Casing Elevation	Depth to Groundwater	Groundwater Elevation
09/16/1996		3.82		22.09	5.14	16.95	21.98	5.27	16.71
10/16/1996		NG		22.09	4.82	17.27	21.98	4.75	17.23
11/18/1996		3.72		22.09	4.64	17.45	21.98	4.93	17.05
12/16/1996		3.10		22.09	4.08	18.01	21.98	4.21	17.77
02/17/1997		3.00		22.09	4.34	17.75	21.98	4.29	17.69
03/27/1997		2.89		22.09	4.28	17.81	21.98	4.19	17.79
04/15/1997		NG		22.09	NG	NA	21.98	NG	NA
04/17/1997		2.73		22.09	NG	NA	21.98	NG	NA
04/24/1997		NG		22.09	NG	NA	21.98	NG	NA
05/21/1997		NG		22.09	4.72	17.37	21.98	4.61	17.37
08/28/1997		NG		22.09	5.29	16.80	21.98	6.49	15.49
11/20/1997		4.35		22.09	5.24	16.85	21.98	5.35	16.63
02/12/1998		3.59		22.09	4.68	17.41	21.98	4.71	17.27
05/12/1998		2.09		22.09	2.69	19.40	21.98	3.32	18.66
08/19/1998		3.43		22.09	5.26	16.83	21.98	5.19	16.79
11/19/1998		4.58		22.09	5.80	16.29	21.98	5.80	16.18
02/18/1999		3.80		22.09	4.74	17.35	21.98	NG	NA
05/26/1999		3.52		22.09	5.16	16.93	21.98	5.02	16.96
08/30/1999		5.35		22.09	6.15	15.94	21.98	6.47	15.51
09/29/1999		NG		22.09	NG	NA	21.98	NG	NA
11/29/1999		5.36		22.09	6.01	16.08	21.98	NG	NA
03/14/1900		4.50		22.09	5.22	16.87	21.98	NG	NA
06/06/1900		3.98		22.09	5.36	16.73	21.98	5.15	16.83
08/31/1900		3.96		22.09	4.84	17.25	21.98	5.10	16.88

Notes: NG = Not Gauged
NA = Not Available
NI = Not Istalled

Table 1
Historical Groundwater Gauging Results
NEX - March 1995 - August 2000
Naval Submarine Base, Groton, CT

Date	ERM-8			ERM-9			ERM-10		
	Well Casing Elevation	Depth to Groundwater	Groundwater Elevation	Well Casing Elevation	Depth to Groundwater	Groundwater Elevation	Well Casing Elevation	Depth to Groundwater	Groundwater Elevation
09/16/1996		NG			NG			NG	
10/16/1996		NG			NG			NG	
11/18/1996		NG			NG			NG	
12/16/1996		NG			NG			NG	
02/17/1997		NG			NG			NG	
03/27/1997		NG			NG			NG	
04/15/1997		NG			NG			NG	
04/17/1997		NG			NG			NG	
04/24/1997		NG			NG			NG	
05/21/1997		NG			NG			NG	
08/28/1997		NG			NG			NG	
11/20/1997		NG			NG			NG	
02/12/1998		NG			NG			NG	
05/12/1998		NG			NG			NG	
08/19/1998		NG			NG			NG	
11/19/1998		NG			NG			NG	
02/18/1999		NG			NG			NG	
05/26/1999		NG			NG			NG	
08/30/1999		NG			NG			NG	
09/29/1999		NG			NG			NG	
11/29/1999		NG			NG			NG	
03/14/1900		NG			NG			NG	
06/06/1900		NG			NG			NG	
08/31/1900		NG			NG			NG	

Notes: NG = Not Gauged
NA = Not Available
NI = Not Istalled

Table 1
Historical Groundwater Gauging Results
NEX - March 1995 - August 2000
Naval Submarine Base, Groton, CT

Date	ERM-11			ERM-12			ERM-13		
	Well Casing Elevation	Depth to Groundwater	Groundwater Elevation	Well Casing Elevation	Depth to Groundwater	Groundwater Elevation	Well Casing Elevation	Depth to Groundwater	Groundwater Elevation
09/16/1996	23.19	NG	NA	23.16	8.38	14.78	26.01	7.01	19.00
10/16/1996	23.19	6.40	16.79	23.16	8.13	15.03	26.01	7.15	18.86
11/18/1996	23.19	6.36	16.83	23.16	8.09	15.07	26.01	7.13	18.88
12/16/1996	23.19	5.02	18.17	23.16	7.83	15.33	26.01	6.55	19.46
02/17/1997	23.19	4.89	18.30	23.16	7.65	15.51	26.01	6.03	19.98
03/27/1997	23.19	5.19	18.00	23.16	7.63	15.53	26.01	5.98	20.03
04/15/1997	23.19	NG	NA	23.16	NG	NA	26.01	5.86	20.15
04/17/1997	23.19	NG	NA	23.16	NG	NA	26.01	NG	NA
04/24/1997	23.19	NG	NA	23.16	NG	NA	26.01	NG	NA
05/21/1997	23.19	6.27	16.92	23.16	7.81/7.80	15.35	26.01	6.15	19.86
08/28/1997	23.19	7.65	15.54	23.16	NG	NA	26.01	7.24	18.77
11/20/1997	23.19	6.89	16.30	23.16	8.23	14.93	26.01	7.84	18.17
02/12/1998	23.19	5.04	18.15	23.16	7.99	15.17	26.01	6.71	19.30
05/12/1998	23.19	4.39	18.80	23.16	7.90	15.26	26.01	5.23	20.78
08/19/1998	23.19	7.56	15.63	23.16	8.34/sheen	14.82	26.01	6.51	19.50
11/19/1998	23.19	7.65	15.54	23.16	8.22	14.94	26.01	8.06	17.95
02/18/1999	23.19	NG	NA	23.16	8.37	14.79	26.01	NG	NG
05/26/1999	23.19	6.92	16.27	23.16	9.02/sheen	14.14	26.01	6.88	19.13
08/30/1999	23.19	8.30	14.89	23.16	8.54	14.62	26.01	8.10	17.91
09/29/1999	23.19	NG	NA	23.16	8.16/sheen	15.00	26.01	NG	NA
11/29/1999	23.19	NG	NA	23.16	8.10	15.06	26.01	NG	NA
03/14/1900	23.19	NG	NA	23.16	NG	NA	26.01	NG	NA
06/06/1900	23.19	NG	NA	23.16	NG	NA	26.01	6.44	19.57
08/31/1900	23.19	NG	NA	23.16	NG	NA	26.01	6.70	19.31

Notes: NG = Not Gauged
NA = Not Available
NI = Not Istalled

Table 1
Historical Groundwater Gauging Results
NEX - March 1995 - August 2000
Naval Submarine Base, Groton, CT

Date	ERM-14			ERM-15			ERM-16		
	Well Casing Elevation	Depth to Groundwater	Groundwater Elevation	Well Casing Elevation	Depth to Groundwater	Groundwater Elevation	Well Casing Elevation	Depth to Groundwater	Groundwater Elevation
09/16/1996	25.56	6.89	18.67		4.30			8.51	
10/16/1996	25.56	6.92	18.64		3.94			8.49	
11/18/1996	25.56	7.10/6.91	18.61		4.03			8.43	
12/16/1996	25.56	6.35	19.21		NG			7.80	
02/17/1997	25.56	5.89	19.67		NG			7.85	
03/27/1997	25.56	5.82	19.74		NG			7.79	
04/15/1997	25.56	5.70	19.86		3.39			7.84	
04/17/1997	25.56	5.66	19.90		3.31			NG	
04/24/1997	25.56	NG	NA		NG			NG	
05/21/1997	25.56	6.04/5.99	19.56		NG			8.16	
08/28/1997	25.56	7.24/7.01	18.49		NG			8.63/sheen	
11/20/1997	25.56	7.63	17.93		4.46			8.77	
02/12/1998	25.56	6.59	18.97		3.54			8.18	
05/12/1998	25.56	5.09	20.47		2.63			7.32	
08/19/1998	25.56	6.37/sheen	19.19		4.02			8.79/8.75	
11/19/1998	25.56	7.80	17.76		4.59			9.03/9.00	
02/18/1999	25.56	7.47	18.09		4.29			8.00	
05/26/1999	25.56	6.62	18.94		3.47			8.58/sheen	
08/30/1999	25.56	7.73	17.83		5.26			1.00	
09/29/1999	25.56	7.69	17.87		NG			8.86/sheen	
11/29/1999	25.56	7.82	17.74		5.29			8.89/sheen	
03/14/1900	25.56	6.81	18.75		4.18			8.04	
06/06/1900	25.56	6.16	19.40		3.84			8.20	
08/31/1900	25.56	6.36	19.20		4.00			7.22	

Notes: NG = Not Gauged
NA = Not Available
NI = Not Istalled

Table 1
Historical Groundwater Gauging Results
NEX - March 1995 - August 2000
Naval Submarine Base, Groton, CT

Date	ERM-17			ERM-18			ERM-19		
	Well Casing Elevation	Depth to Groundwater	Groundwater Elevation	Well Casing Elevation	Depth to Groundwater	Groundwater Elevation	Well Casing Elevation	Depth to Groundwater	Groundwater Elevation
09/16/1996		5.62			3.65		22.42	5.28	17.14
10/16/1996		5.56			3.96		22.42	5.17	17.25
11/18/1996		5.53			NG		22.42	5.19	17.23
12/16/1996		3.73			NG		22.42	4.23	18.19
02/17/1997		4.53			NG		22.42	4.18	18.24
03/27/1997		4.87			NG		22.42	4.06	18.36
04/15/1997		4.84			NG		22.42	NG	NA
04/17/1997		4.67			NG		22.42	3.91	18.51
04/24/1997		NG			NG		22.42	NG	NA
05/21/1997		5.26			NG		22.42	4.46	17.96
08/28/1997		5.77			NG		22.42	5.41	17.01
11/20/1997		5.77			NG		22.42	5.79	16.63
02/12/1998		5.14			NG		22.42	4.44	17.98
05/12/1998		2.98			NG		22.42	3.43	18.99
08/19/1998		5.83			NG		22.42	5.11	17.31
11/19/1998		6.05			NG		22.42	6.29	16.13
02/18/1999		NG			NG		22.42	NG	NA
05/26/1999		5.20			NG		22.42	5.06	17.36
08/30/1999		6.21			NG		22.42	6.21	16.21
09/29/1999		NG			NG		22.42	NG	NA
11/29/1999		NG			NG		22.42	NG	NA
03/14/1900		NG			NG		22.42	NG	NA
06/06/1900		5.33			NG		22.42	4.90	17.52
08/31/1900		5.08			NG		22.42	4.94	17.48

Notes: NG = Not Gauged
NA = Not Available
NI = Not Istalled

Table 1
Historical Groundwater Gauging Results
NEX - March 1995 - August 2000
Naval Submarine Base, Groton, CT

Date	FD-1			FD-2			FD-3		
	Well Casing Elevation	Depth to Groundwater	Groundwater Elevation	Well Casing Elevation	Depth to Groundwater	Groundwater Elevation	Well Casing Elevation	Depth to Groundwater	Groundwater Elevation
09/16/1996	NI	NI	NI	NI	NI	NI	NI	NI	NI
10/16/1996	NI	NI	NI	NI	NI	NI	NI	NI	NI
11/18/1996	NI	NI	NI	NI	NI	NI	NI	NI	NI
12/16/1996	NI	NI	NI	NI	NI	NI	NI	NI	NI
02/17/1997	NI	NI	NI	NI	NI	NI	NI	NI	NI
03/27/1997	NI	NI	NI	NI	NI	NI	NI	NI	NI
04/15/1997	NI	NI	NI	NI	NI	NI	NI	NI	NI
04/17/1997	NI	NI	NI	NI	NI	NI	NI	NI	NI
04/24/1997	NI	NI	NI	NI	NI	NI	NI	NI	NI
05/21/1997	NI	NI	NI	NI	NI	NI	NI	NI	NI
08/28/1997	NI	NI	NI	NI	NI	NI	NI	NI	NI
11/20/1997	NI	NI	NI	NI	NI	NI	NI	NI	NI
02/12/1998	NI	NI	NI	NI	NI	NI	NI	NI	NI
05/12/1998	NI	NI	NI	NI	NI	NI	NI	NI	NI
08/19/1998	NI	NI	NI	NI	NI	NI	NI	NI	NI
11/19/1998	NI	NI	NI	NI	NI	NI	NI	NI	NI
02/18/1999	NI	NI	NI	NI	NI	NI	NI	NI	NI
05/26/1999	14.80	8.05	6.75	14.76	8.26	6.50	14.20	8.43	5.77
08/30/1999	14.80	8.52	6.28	14.76	8.74	6.02	14.20	8.58	5.62
09/29/1999	14.80	NG	NA	14.76	NG	NA	14.20	NG	NA
11/29/1999	14.80	8.38	6.42	14.76	8.63	6.13	14.20	8.82	5.38
03/14/1900	14.80	7.73	7.07	14.76	7.88	6.88	14.20	8.71	5.49
06/06/1900	14.80	6.83	7.97	14.76	7.12	7.64	14.20	7.78	6.42
08/31/1900	14.80	6.28	8.52	14.76	6.93	7.83	14.20	7.92	6.28

Notes: NG = Not Gauged
NA = Not Available
NI = Not Istalled

Table 1
Historical Groundwater Gauging Results
NEX - March 1995 - August 2000
Naval Submarine Base, Groton, CT

Date	MW-4			MW-6			NEX-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
09/16/1996		NG			NG		24.16	NG	NA
10/16/1996		NG			NG		24.16	NG	NA
11/18/1996		NG			NG		24.16	NG	NA
12/16/1996		NG			NG		24.16	NG	NA
02/17/1997		NG			NG		24.16	NG	NA
03/27/1997		4.91			4.49		24.16	5.81	18.35
04/15/1997		NG			NG		24.16	5.74	18.42
04/17/1997		NG			NG		24.16	NG	NA
04/24/1997		NG			NG		24.16	NG	NA
05/21/1997		NG			4.85		24.16	5.80	18.36
08/28/1997		NG			5.34		24.16	6.15	18.01
11/20/1997		NG			5.33		24.16	6.45	17.71
02/12/1998		NG			4.92		24.16	5.28	18.88
05/12/1998		4.16			3.74		24.16	5.20	18.96
08/19/1998		NG			5.41		24.16	5.99	18.17
11/19/1998		6.99			5.64		24.16	6.31	17.85
02/18/1999		6.12			4.72		24.16	NG	NA
05/26/1999		6.02			4.83		24.16	6.42	17.74
08/30/1999		7.21			5.80		24.16	6.64	17.52
09/29/1999		NG			NG		24.16	NG	NA
11/29/1999		7.20			5.48		24.16	NG	NA
03/14/1900		6.28			5.22		24.16	NG	NA
06/06/1900		5.40			4.80		24.16	NG	NA
08/31/1900		5.84			4.66		24.16	5.13	19.03

Notes: NG = Not Gauged
NA = Not Available
NI = Not Istalled

Table 1
Historical Groundwater Gauging Results
NEX - March 1995 - August 2000
Naval Submarine Base, Groton, CT

Date	OBG-1			OBG-2			OBG-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
09/16/1996		NG		25.36	NG	NA	25.22	NG	NA
10/16/1996		NG		25.36	NG	NA	25.22	NG	NA
11/18/1996		NG		25.36	NG	NA	25.22	NG	NA
12/16/1996		NG		25.36	NG	NA	25.22	NG	NA
02/17/1997		NG		25.36	NG	NA	25.22	NG	NA
03/27/1997		8.12		25.36	7.95	17.41	25.22	7.75	17.47
04/15/1997		NG		25.36	7.92	17.44	25.22	7.75	17.47
04/17/1997		NG		25.36	7.91	17.45	25.22	7.78	17.44
04/24/1997		NG		25.36	NG	NA	25.22	7.74	17.48
05/21/1997		7.98		25.36	7.81	17.55	25.22	7.64	17.58
08/28/1997		8.22		25.36	8.03	17.33	25.22	7.90	17.32
11/20/1997		8.43		25.36	8.23	17.13	25.22	8.07	17.15
02/12/1998		8.19		25.36	8.01	17.35	25.22	7.84	17.38
05/12/1998		7.88/7.87		25.36	7.71	17.65	25.22	7.51	17.71
08/19/1998		8.13		25.36	7.94	17.42	25.22	7.76	17.46
11/19/1998		8.21		25.36	8.03	17.33	25.22	7.91	17.31
02/18/1999		7.97		25.36	7.78	17.58	25.22	7.26	17.96
05/26/1999		8.35		25.36	8.17	17.19	25.22	8.05	17.17
08/30/1999		8.58		25.36	8.74	16.62	25.22	8.48	16.74
09/29/1999		6.48		25.36	NG	NA	25.22	NG	NA
11/29/1999		8.61		25.36	8.81	16.55	25.22	8.51	16.71
03/14/1900		7.72		25.36	7.94	17.42	25.22	7.63	17.59
06/06/1900		6.95		25.36	7.19	18.17	25.22	NG	NA
08/31/1900		6.56		25.36	6.78	18.58	25.22	6.51	18.71

Notes: NG = Not Gauged
NA = Not Available
NI = Not Istalled

Table 1
Historical Groundwater Gauging Results
NEX - March 1995 - August 2000
Naval Submarine Base, Groton, CT

Date	OBG-6			OBG-7			OBG-8		
	Well Casing Elevation	Depth to Groundwater	Groundwater Elevation	Well Casing Elevation	Depth to Groundwater	Groundwater Elevation	Well Casing Elevation	Depth to Groundwater	Groundwater Elevation
09/16/1996	24.76	NG	NA	25.47	NG	NA	24.87	NG	NA
10/16/1996	24.76	NG	NA	25.47	NG	NA	24.87	NG	NA
11/18/1996	24.76	NG	NA	25.47	NG	NA	24.87	NG	NA
12/16/1996	24.76	NG	NA	25.47	NG	NA	24.87	NG	NA
02/17/1997	24.76	NG	NA	25.47	NG	NA	24.87	NG	NA
03/27/1997	24.76	7.95	16.81	25.47	5.61	19.86	24.87	NG	NA
04/15/1997	24.76	NG	NA	25.47	NG	NA	24.87	NG	NA
04/17/1997	24.76	NG	NA	25.47	NG	NA	24.87	NG	NA
04/24/1997	24.76	NG	NA	25.47	NG	NA	24.87	NG	NA
05/21/1997	24.76	NG	NA	25.47	5.79	19.68	24.87	NG	19.27
08/28/1997	24.76	NG	NA	25.47	6.49	18.98	24.87	NG	NA
11/20/1997	24.76	NG	NA	25.47	7.09	18.38	24.87	NG	NA
02/12/1998	24.76	NG	NA	25.47	5.84	19.63	24.87	NG	NA
05/12/1998	24.76	NG	NA	25.47	4.56	20.91	24.87	NG	NA
08/19/1998	24.76	NG	NA	25.47	5.83	19.64	24.87	NG	NA
11/19/1998	24.76	NG	NA	25.47	7.22	18.25	24.87	NG	NA
02/18/1999	24.76	NG	NA	25.47	NG	NA	24.87	NG	NA
05/26/1999	24.76	NG	NA	25.47	6.04	19.43	24.87	NG	NA
08/30/1999	24.76	NG	NA	25.47	7.66	17.81	24.87	NG	NA
09/29/1999	24.76	NG	NA	25.47	NG	NA	24.87	NG	NA
11/29/1999	24.76	NG	NA	25.47	NG	NA	24.87	NG	NA
03/14/1900	24.76	NG	NA	25.47	NG	NA	24.87	NG	NA
06/06/1900	24.76	NG	NA	25.47	6.01	19.46	24.87	5.45	19.42
08/31/1900	24.76	NG	NA	25.47	6.29	19.18	24.87	NG	NA

Notes: NG = Not Gauged
NA = Not Available
NI = Not Istalled

Table 1
Historical Groundwater Gauging Results
NEX - March 1995 - August 2000
Naval Submarine Base, Groton, CT

Date	OBG-9			VEA-4			VEA-7		
	Well Casing Elevation	Depth to Groundwater	Groundwater Elevation	Well Casing Elevation	Depth to Groundwater	Groundwater Elevation	Well Casing Elevation	Depth to Groundwater	Groundwater Elevation
09/16/1996	24.93	NG	NA		NG			NG	
10/16/1996	24.93	NG	NA		NG			NG	
11/18/1996	24.93	NG	NA		NG			NG	
12/16/1996	24.93	NG	NA		NG			NG	
02/17/1997	24.93	NG	NA		NG			NG	
03/27/1997	24.93	5.54	19.39		NG			NG	
04/15/1997	24.93	5.54	19.39		NG			NG	
04/17/1997	24.93	5.58	19.35		NG			NG	
04/24/1997	24.93	NG	NA		NG			NG	
05/21/1997	24.93	5.84/5.31	19.49		NG			NG	
08/28/1997	24.93	6.56/6.45	18.45		NG			NG	
11/20/1997	24.93	7.06	17.87		NG			NG	
02/12/1998	24.93	NG	NA		NG			NG	
05/12/1998	24.93	4.60/4.58	20.35		NG			NG	
08/19/1998	24.93	5.81	19.12		NG			NG	
11/19/1998	24.93	7.34	17.59		NG			NG	
02/18/1999	24.93	6.36	18.57		NG			NG	
05/26/1999	24.93	6.05	18.88	3.25	2.73	0.52		NG	
08/30/1999	24.93	7.28	17.65	3.25	DRY	NA		DRY	
09/29/1999	24.93	7.19	17.74	3.25	NG	NA		NG	
11/29/1999	24.93	7.40	17.53	3.25	3.20	0.05		NG	
03/14/1900	24.93	6.36	18.57	3.25	2.56	0.69		2.81	
06/06/1900	24.93	5.45	19.48	3.25	NG	NA		NG	
08/31/1900	24.93	5.91	19.02	3.25	3.13	0.12		2.72	

Notes: NG = Not Gauged
NA = Not Available
NI = Not Istalled

Table 1
Historical Groundwater Gauging Results
NEX - March 1995 - August 2000
Naval Submarine Base, Groton, CT

Date	VEA-14			VEB-6		
	Well Casing Elevation	Depth to Groundwater	Groundwater Elevation	Well Casing Elevation	Depth to Groundwater	Groundwater Elevation
09/16/1996		NG			NG	
10/16/1996		NG			NG	
11/18/1996		NG			NG	
12/16/1996		NG			NG	
02/17/1997		NG			NG	
03/27/1997		NG			NG	
04/15/1997		NG			NG	
04/17/1997		NG			NG	
04/24/1997		NG			NG	
05/21/1997		NG			NG	
08/28/1997		NG			NG	
11/20/1997		NG			NG	
02/12/1998		NG			NG	
05/12/1998		NG			NG	
08/19/1998		NG			NG	
11/19/1998		NG			NG	
02/18/1999		NG			NG	
05/26/1999	7.07	4.46	2.61		DRY	
08/30/1999	7.07	5.65	1.42		DRY	
09/29/1999	7.07	NG	7.07		NG	
11/29/1999	7.07	5.77	1.30		DRY	
03/14/1900	7.07	4.45	2.62		NG	
06/06/1900	7.07	4.09	2.98		NG	
08/31/1900	7.07	4.33	2.74		NG	

Notes: NG = Not Gauged
NA = Not Available
NI = Not Istalled

ATTACHMENT 5

HISTORICAL GROUNDWATER SAMPLING RESULTS

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

Compound		BTEX				MTBE	TPH[1] (By EPA Method 418.1)	Total Volatiles[2] (by EPA Method 8010/8020)	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	10	<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
	6/00	<1.0	<1.0	<1.0	<1.0	<5.0	<200	<5.0	NS	NS
	8/00	<1.0	<1.0	<1.0	<1.0	<5.0	<200	<5.0	NS	NS

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

Compound		BTEX				MTBE	TPH[1] (By EPA Method 418.1)	Total Volatiles[2] (by EPA Method 8010/8020)	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
	6/00	<1.0	<1.0	<1.0	<1.0	<5.0	<200	<5.0	NS	NS
	8/00	<1.0	<1.0	<1.0	<1.0	<5.0	**600**	<5.0	NS	NS

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

Compound		BTEX				MTBE	TPH[1] (By EPA Method 418.1)	Total Volatiles[2] (by EPA Method 8010/8020)	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**	<1.0	<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	10	<400	1.0	NS	NS
	3/00	<1.0	<1.0	<1.0	<1.0	<5.0	400	<5.0	NS	NS
	6/00	<1.0	<1.0	<1.0	<1.0	<5.0	<200	<5.0	NS	NS
	8/00	<1.0	<1.0	<1.0	<1.0	<5.0	**500**	<5.0	NS	NS

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

Compound		BTEX				MTBE	TPH[1] (By EPA Method 418.1)	Total Volatiles[2] (by EPA Method 8010/8020)	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	20	<1.0	80	<1.0	**800**	10	NS	NS
	3/00	<1.0	<1.0	<1.0	<1.0	90	**1,700**	9.0	NS	NS
	6/00	<1.0	<1.0	<1.0	<1.0	<5.0	<200	<5.0	NS	NS
	8/00	<1.0	<1.0	<1.0	<1.0	<5.0	**1,200**	<5.0	NS	NS

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

Compound		BTEX				MTBE	TPH[1] (By EPA Method 418.1)	Total Volatiles[2] (by EPA Method 8010/8020)	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	20	90	<1.0	<400	11	NS	NS
	3/00	<1.0	<1.0	<1.0	<1.0	<5.0	<200	<5.0	NS	NS
	6/00	<1.0	<1.0	<1.0	<1.0	<5.0	<200	<5.0	NS	NS
	8/00	<1.0	<1.0	<1.0	<1.0	<5.0	<200	<5.0	NS	NS

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

Compound		BTEX				MTBE	TPH[1] (By EPA Method 418.1)	Total Volatiles[2] (by EPA Method 8010/8020)	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	**1,140**	<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	20	<400	2.0	NS	NS
	3/00	<1.0	<1.0	<1.0	<1.0	<5.0	<200	<5.0	NS	NS
	6/00	<1.0	<1.0	<1.0	<1.0	<5.0	<200	<5.0	NS	NS
	8/00	<1.0	<1.0	<1.0	<1.0	<5.0	**500**	<5.0	NS	NS

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

Compound		BTEX				MTBE	TPH[1] (By EPA Method 418.1)	Total Volatiles[2] (by EPA Method 8010/8020)	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
	6/00	<1.0	<1.0	<1.0	<1.0	9.0	<200	9.0	NS	NS
	8/00	<1.0	<1.0	<1.0	<1.0	<5.0	<200	<5.0	NS	NS

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

Compound		BTEX				MTBE	TPH[1] (By EPA Method 418.1)	Total Volatiles[2] (by EPA Method 8010/8020)	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
	6/00	<1.0	<1.0	<1.0	<1.0	<5.0	**500**	<5.0	NS	NS
	8/00	NS	NS	NS	NS	NS	NS	NS	NS	NS

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

Compound		BTEX				MTBE	TPH[1] (By EPA Method 418.1)	Total Volatiles[2] (by EPA Method 8010/8020)	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**	22	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
	6/00	<1.0	<1.0	<1.0	<1.0	<5.0	400	<5.0	NS	NS
	8/00	<1.0	<1.0	<1.0	<1.0	<5.0	400	<5.0	NS	NS

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

Compound		BTEX				MTBE	TPH[1] (By EPA Method 418.1)	Total Volatiles[2] (by EPA Method 8010/8020)	DRO	GRO
		Benzene	Toluene	Ethylbenzene	Xylenes					
Remediation Standard		1.0	1,000	700	530	100	500	NA	NA	NA
Well	Date									
MW-3	2/97	**36**	23	72	500	5.0	**2,000**	645 B	3,300	1,600
	5/97	**60**	38	69	**730D**	<1.0	**5,000**	897D	7,900	<500
	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
	6/00	**26**	5.0	61	135	<5.0	**3,400**	227	NS	NS
	8/00	**38**	6.0	97	147	<25	**5,300**	288	NS	NS

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

Compound		BTEX				MTBE	TPH[1] (By EPA Method 418.1)	Total Volatiles[2] (by EPA Method 8010/8020)	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**	<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
	6/00	**3.0**	<1.0	<1.0	<1.0	<5.0	**2,400**	3.0	NS	NS
	8/00	**9.0**	<1.0	14	18	<5.0	**6,200**	41	NS	NS

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

Compound		BTEX				MTBE	TPH[1] (By EPA Method 418.1)	Total Volatiles[2] (by EPA Method 8010/8020)	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
	6/00	<1.0	<1.0	<1.0	<1.0	<5.0	**1,400**	<5.0	NS	NS
	8/00	<1.0	<1.0	<1.0	<1.0	<5.0	**2,200**	<5.0	NS	NS

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

Compound		BTEX				MTBE	TPH[1] (By EPA Method 418.1)	Total Volatiles[2] (by EPA Method 8010/8020)	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**	1.0	<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	**1,500**	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	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	20	<400	2.0	NS	NS
	3/00	<1.0	<1.0	<1.0	<1.0	<5.0	400	<5.0	NS	NS
	6/00	<1.0	<1.0	<1.0	<1.0	<5.0	**600**	<5.0	NS	NS
	8/00	NS	NS	NS	NS	NS	NS	NS	NS	NS

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

Compound		BTEX				MTBE	TPH[1] (By EPA Method 418.1)	Total Volatiles[2] (by EPA Method 8010/8020)	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	60	<1.0	60	<400	12	NS	NS
	3/00	**20**	<1.0	15	16	<5.0	**700**	33	NS	NS
	6/00	**20**	<1.0	12	19	<5.0	**900**	33	NS	NS
	8/00	<1.0	<1.0	<1.0	<1.0	<5.0	**500**	<5.0	NS	NS

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

Compound		BTEX				MTBE	TPH[1] (By EPA Method 418.1)	Total Volatiles[2] (by EPA Method 8010/8020)	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	8.7	<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
	6/00	<1.0	<1.0	<1.0	<1.0	29	<200	29	NS	NS
	8/00	<2.0	<2.0	<2.0	<2.0	54	<200	54	NS	NS

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

Compound		BTEX				MTBE	TPH[1] (By EPA Method 418.1)	Total Volatiles[2] (by EPA Method 8010/8020)	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**	163	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
	6/00	<1.0	<1.0	<1.0	<1.0	7.0	**600**	7.0	NS	NS
	8/00	<1.0	<1.0	<1.0	<1.0	6.0	400	6.0	NS	NS

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

Compound		BTEX				MTBE	TPH[1] (By EPA Method 418.1)	Total Volatiles[2] (by EPA Method 8010/8020)	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**	**4,300**	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**	10	60	27	29	**2,600**	161	NS	NS
	3/00	**12**	10	20	67	<5.0	**1,700**	100	NS	NS
	6/00	**59**	50	40	232	<5.0	**3,200**	336	NS	NS
	8/00	**49**	<2.0	7.0	16	21	**4,900**	93	NS	NS

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

Compound		BTEX				MTBE	TPH[1] (By EPA Method 418.1)	Total Volatiles[2] (by EPA Method 8010/8020)	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
	6/00	<1.0	<1.0	<1.0	10	<5.0	**900**	<5.0	NS	NS
	8/00	<1.0	<1.0	<1.0	4.0	<5.0	**500**	4.0	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
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

DRO=Diesel Range Organics
GRO=Gasoline Range Organics
B = Analyte detected in method blank
E = Analyte concentration exceeded the calibration range
D = Analyte concentration was obtained from a diluted analysis

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

Compound		BTEX				MTBE	TPH[1] (By EPA Method 418.1)	Total Volatiles[2] (by EPA Method 8010/8020)	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	3,128	430	8,250
	5/96	112	6.0	34	28	<10	NS	180	159	554
	11/96	**370 D**	14	33	61 D	<1.0	3,000	478	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
	6/00	210	34	180	436	<10	5,400	860	NS	NS
	8/00	200	26	83	136	<50	NS	445	NS	NS

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

Compound		BTEX				MTBE	TPH[1] (By EPA Method 418.1)	Total Volatiles[2] (by EPA Method 8010/8020)	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
	6/00	<1.0	<1.0	<1.0	<1.0	<5.0	<200	<5.0	NS	NS
	8/00	<1.0	<1.0	<1.0	<1.0	<5.0	NS	<5.0	NS	NS

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

Compound		BTEX				MTBE	TPH[1] (By EPA Method 418.1)	Total Volatiles[2] (by EPA Method 8010/8020)	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
	6/00	NS	NS	NS	NS	NS	NS	NS	NS	NS
	8/00	NS	NS	NS	NS	NS	NS	NS	NS	NS

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

Compound		BTEX				MTBE	TPH[1] (By EPA Method 418.1)	Total Volatiles[2] (by EPA Method 8010/8020)	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
	6/00	NS	NS	NS	NS	NS	NS	NS	NS	NS
	8/00	NS	NS	NS	NS	NS	NS	NS	NS	NS

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

Compound		BTEX				MTBE	TPH[1] (By EPA Method 418.1)	Total Volatiles[2] (by EPA Method 8010/8020)	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
	6/00	NS	NS	NS	NS	NS	NS	NS	NS	NS
	8/00	NS	NS	NS	NS	NS	NS	NS	NS	NS

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

Compound		BTEX				MTBE	TPH[1] (By EPA Method 418.1)	Total Volatiles[2] (by EPA Method 8010/8020)	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
	6/00	NS	NS	NS	NS	NS	NS	NS	NS	NS
	8/00	NS	NS	NS	NS	NS	NS	NS	NS	NS

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

Compound		BTEX				MTBE	TPH[1] (By EPA Method 418.1)	Total Volatiles[2] (by EPA Method 8010/8020)	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
	6/00	NS	NS	NS	NS	NS	NS	NS	NS	NS
	8/00	NS	NS	NS	NS	NS	NS	NS	NS	NS

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

Compound		BTEX				MTBE	TPH[1] (By EPA Method 418.1)	Total Volatiles[2] (by EPA Method 8010/8020)	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	<400	40	NS	NS
	11/99	NS	NS	NS	NS	NS	NS	NS	NS	NS
	3/00	NS	NS	NS	NS	NS	NS	NS	NS	NS
	6/00	NS	NS	NS	NS	NS	NS	NS	NS	NS
	8/00	NS	NS	NS	NS	NS	NS	NS	NS	NS

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

Compound		BTEX				MTBE	TPH[1] (By EPA Method 418.1)	Total Volatiles[2] (by EPA Method 8010/8020)	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**	8,300 D	1,700 D	11,000 D	<25	7,000	21,270	12,000	30,000
	2/97	140	4,500 D	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	2,300 D	700 D	2,500 D	<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	230 D	<1.0	9,600 D	<1.0	12,000	9,830 D	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
	6/00	<10	120	260	2,260	<50	1,800	2,640	NS	NS
	8/00	NS	NS	NS	NS	NS	NS	NS	NS	NS

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

Compound		BTEX				MTBE	TPH[1] (By EPA Method 418.1)	Total Volatiles[2] (by EPA Method 8010/8020)	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	16	150 D	<1.0	130 D	1,000	375 D	NS	NS
	11/99	19	<1.0	17	<1.0	<1.0	700	36	NS	NS
	3/00	<1.0	<1.0	<1.0	<1.0	<5.0	<200	<5.0	NS	NS
	6/00	2.0	<1.0	2.0	1.0	<5.0	600	5.0	NS	NS
	8/00	2.0	3.0	7.0	14	<5.0	NS	26	NS	NS

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

Compound		BTEX				MTBE	TPH[1] (By EPA Method 418.1)	Total Volatiles[2] (by EPA Method 8010/8020)	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	56 D	<1.0	16	34	NA	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
	6/00	<1.0	<1.0	<1.0	<1.0	<5.0	<200	<5.0	NS	NS
	8/00	NS	NS	NS	NS	NS	NS	NS	NS	NS

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

Compound		BTEX				MTBE	TPH[1] (By EPA Method 418.1)	Total Volatiles[2] (by EPA Method 8010/8020)	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	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	12	<1.0	1,000	24	NS	NS
	11/99	NS	NS	NS	NS	NS	NS	NS	NS	NS
	3/00	NS	NS	NS	NS	NS	NS	NS	NS	NS
	6/00	NS	NS	NS	NS	NS	NS	NS	NS	NS
	8/00	NS	NS	NS	NS	NS	NS	NS	NS	NS

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

Compound		BTEX				MTBE	TPH[1] (By EPA Method 418.1)	Total Volatiles[2] (by EPA Method 8010/8020)	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
	6/00	NS	NS	NS	NS	NS	NS	NS	NS	NS
	8/00	NS	NS	NS	NS	NS	NS	NS	NS	NS

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

Compound		BTEX				MTBE	TPH[1] (By EPA Method 418.1)	Total Volatiles[2] (by EPA Method 8010/8020)	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	100 D	<1.0	5.0	<1.0	220 D	3,400	325 D	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
	6/00	<100	<100	<100	<100	10,000	6,100	10,000	NS	NS
	8/00	<200	<200	<200	<200	10,000	NS	10,000	NS	NS

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

Compound		BTEX				MTBE	TPH[1] (By EPA Method 418.1)	Total Volatiles[2] (by EPA Method 8010/8020)	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
	6/00	4.0	<1.0	<1.0	1.0	18	7,900	23	NS	NS
	8/00	200	<10	17	71	470	NS	562	NS	NS

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

Compound		BTEX				MTBE	TPH[1] (By EPA Method 418.1)	Total Volatiles[2] (by EPA Method 8010/8020)	DRO	GRO
		Benzene	Toluene	Ethylbenzene	Xylenes					
Remediation Standard		215	23,500	50,000	21,300	50,000	NARS	NARS	NARS	NARS
Well	Date									
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
	6/00	<1.0	<1.0	<1.0	<1.0	<5.0	<200	<5.0	NS	NS
	8/00	<1.0	<1.0	<1.0	<1.0	<5.0	NS	<5.0	NS	NS

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

Compound		BTEX				MTBE	TPH[1] (By EPA Method 418.1)	Total Volatiles[2] (by EPA Method 8010/8020)	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
	6/00	11	3.0	8.0	41	<5.0	5,900	63	NS	NS
	8/00	130	140	160	690	<50	NS	1120	NS	NS

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

Compound		BTEX				MTBE	TPH[1] (By EPA Method 418.1)	Total Volatiles[2] (by EPA Method 8010/8020)	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	35 D	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
	6/00	<1.0	<1.0	<1.0	2.0	<5.0	41,000	<5.0	NS	NS
	8/00	<1.0	<1.0	<1.0	<1.0	<5.0	NS	<5.0	NS	NS

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

Compound		BTEX				MTBE	TPH[1] (By EPA Method 418.1)	Total Volatiles[2] (by EPA Method 8010/8020)	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
	6/00	NS	NS	NS	NS	NS	NS	NS	NS	NS
	8/00	NS	NS	NS	NS	NS	NS	NS	NS	NS

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

Compound		BTEX				MTBE	TPH[1] (By EPA Method 418.1)	Total Volatiles[2] (by EPA Method 8010/8020)	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	1,100 D	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
	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
	6/00	72	170	12	380	97	15,000	731	NS	NS
	8/00	24	<20	66	78	890	NS	1,058	NS	NS

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

Compound		BTEX				MTBE	TPH[1] (By EPA Method 418.1)	Total Volatiles[2] (by EPA Method 8010/8020)	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)
	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
	6/00	<10	<10	32	2,033	410	16,000	2,475	NS	NS
	8/00	NS	NS	NS	NS	NS	NS	NS	NS	NS

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

Compound		BTEX				MTBE	TPH[1] (By EPA Method 418.1)	Total Volatiles[2] (by EPA Method 8010/8020)	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
	6/00	<5.0	<5.0	<5.0	<5.0	500	<200	500	NS	NS
	8/00	<5.0	<5.0	<5.0	<5.0	150	NS	150	NS	NS

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

Compound		BTEX				MTBE	TPH[1] (By EPA Method 418.1)	Total Volatiles[2] (by EPA Method 8010/8020)	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
	6/00	NS	NS	NS	NS	NS	NS	NS	NS	NS
	8/00	NS	NS	NS	NS	NS	NS	NS	NS	NS

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

Compound		BTEX				MTBE	TPH[1] (By EPA Method 418.1)	Total Volatiles[2] (by EPA Method 8010/8020)	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
	6/00	NS	NS	NS	NS	NS	NS	NS	NS	NS
	8/00	NS	NS	NS	NS	NS	NS	NS	NS	NS

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

Compound		BTEX				MTBE	TPH[1] (By EPA Method 418.1)	Total Volatiles[2] (by EPA Method 8010/8020)	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	660 D	2,500 D	12,000 D	<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
	6/00	4.0	110	65	380	<5.0	23,000	559	NS	NS
	8/00	NS	NS	NS	NS	NS	NS	NS	NS	NS

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

Compound		BTEX				MTBE	TPH[1] (By EPA Method 418.1)	Total Volatiles[2] (by EPA Method 8010/8020)	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
	6/00	<1.0	<1.0	<1.0	<1.0	<5.0	<200	<5.0	NS	NS
	8/00	NS	NS	NS	NS	NS	NS	NS	NS	NS

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

Compound		BTEX				MTBE	TPH[1] (By EPA Method 418.1)	Total Volatiles[2] (by EPA Method 8010/8020)	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 (dr[illegible]	[illegible]	NS (dry)	NS (dry)	NS (dry)	NS (dry)	NS (dry)
	3/00	<1.0	<1.0	<1.0	[illegible]	<5.0	800	<5.0	NS	NS
	6/00	<1.0	<1.0	<1.0	[illegible]	<5.0	<200	<5.0	NS	NS
	8/00	<1.0	<1.0	<1.0	<1.[illegible]	<5.0	NS	<5.0	NS	NS

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

Compound		BTEX				MTBE	TPH[1] (By EPA Method 418.1)	Total Volatiles[2] (by EPA Method 8010/8020)	DRO	GRO
		Benzene	Toluene	Ethylbenzene	Xylenes					
Remediation Standard		215	23,500	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
	6/00	<1.0	<1.0	18	4.0	<5.0	8,300	22	NS	NS
	8/00	<1.0	<1.0	17	2.0	<5.0	NS	19	NS	NS

Notes:
NARS = No Applicable Remediation Standard
NS = Not sampled (NS results have been shaded)
Bold numbers indicate an exceedance of State criteria
D = Analyte concentration was obtained from a diluted analysis
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

E = Analyte concentration exceeded the calibration range
B = Analyte detected in method blank
N = Not Analyzed
GRO=Gasoline Range Organics
DRO=Diesel Range Organics

n:\projects\grsubbas\excel\ stgwnex