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NSB NEW LONDON
5090.3a

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

NEW LONDON NAVAL SUBMARINE BASE
GROTON, CONNECTICUT

Month: July 2000

Prepared by:

IT Corporation
Prepared by:

Jonathan D. Sam /For
Stephen R. Daly
Associate Environmental Scientist

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 July 7 and 31, 2000. The monitoring forms for the site visits conducted during the month of July 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 July 2000 site visits. Therefore, no hydrocarbon mass removal rate was calculated. The total hydrocarbon mass extracted by the remediation system, as of April 1999, was approximately 2,153 lbs. The system database has been included in **Attachment 3**. Mass removal graphs have been included as **Figures 3A, 3B and 4**. Based on the hydrocarbon mass removal rate, no exceedance of the Connecticut Department of Environmental Protection (CTDEP) air quality guidelines were reported.

Carbon Usage - No carbon change-out occurred during the month of July 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 June 5, 2000 during the quarterly groundwater monitoring event. On June 5, 2000 depth to groundwater at the site ranged from 0.80 feet in OBG-8A to 8.57 feet in 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 June 5, 2000. Monitoring well DM-4 was sampled on June 12, 2000 as a result of a parked vehicle on the well on June 5. The June 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 – Drive-by site visits were conducted on July 7 and 31, 2000 to check the site security and the integrity of the road boxes. The remediation shed and road boxes were found to be in satisfactory condition during each visit. Also, an inventory of the equipment present was created to assess the viability of restarting the air sparge / SVE and water treatment systems. See **Attachment 1**.

NEX AIR SPARGE/SVE SYSTEM

System Status - The remediation system at the site had been operating since July 31, 1997. As of May 26, 1999, 17 vapor extraction points (VEA-12 through VEA-16, VEA-18 through VEA-20, VEB-4, and VEB-8 through VEB-15) and 19 air sparge points (SPA-30 through SPA-37, SPB-14, SPB-16, and SPB-19 through SPB-27) were operating. Approximately 275,089 gallons of water had been extracted, treated, and discharged by the NEX system as of July 31, 2000.

A site map has been included as **Figure 2**. The site was visited on July 7 and 31, 2000. The monitoring forms for operation and maintenance (O&M) conducted during the month of July 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 June 6, 2000. Monitoring wells OBG-4, VEA-4 and VEA-7 were unable to be gauged on June 6 due to flooding and were therefore gauged on June 12, 2000. Depth to groundwater at the site ranged from 3.84 feet in ERM-15 to 8.20 feet in ERM-16.

Monitoring Well Sampling – The most recent round of site monitoring well sampling was conducted on June 6, 2000. Monitoring wells OBG-4, VEA-4, and VEA-7 were sampled on June 12, 2000. The June 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 – A list of operable and non-operable equipment was created on July 7, 2000 to generate an accurate inventory of the equipment that is present on site. See **Attachment 1**.

FIGURES

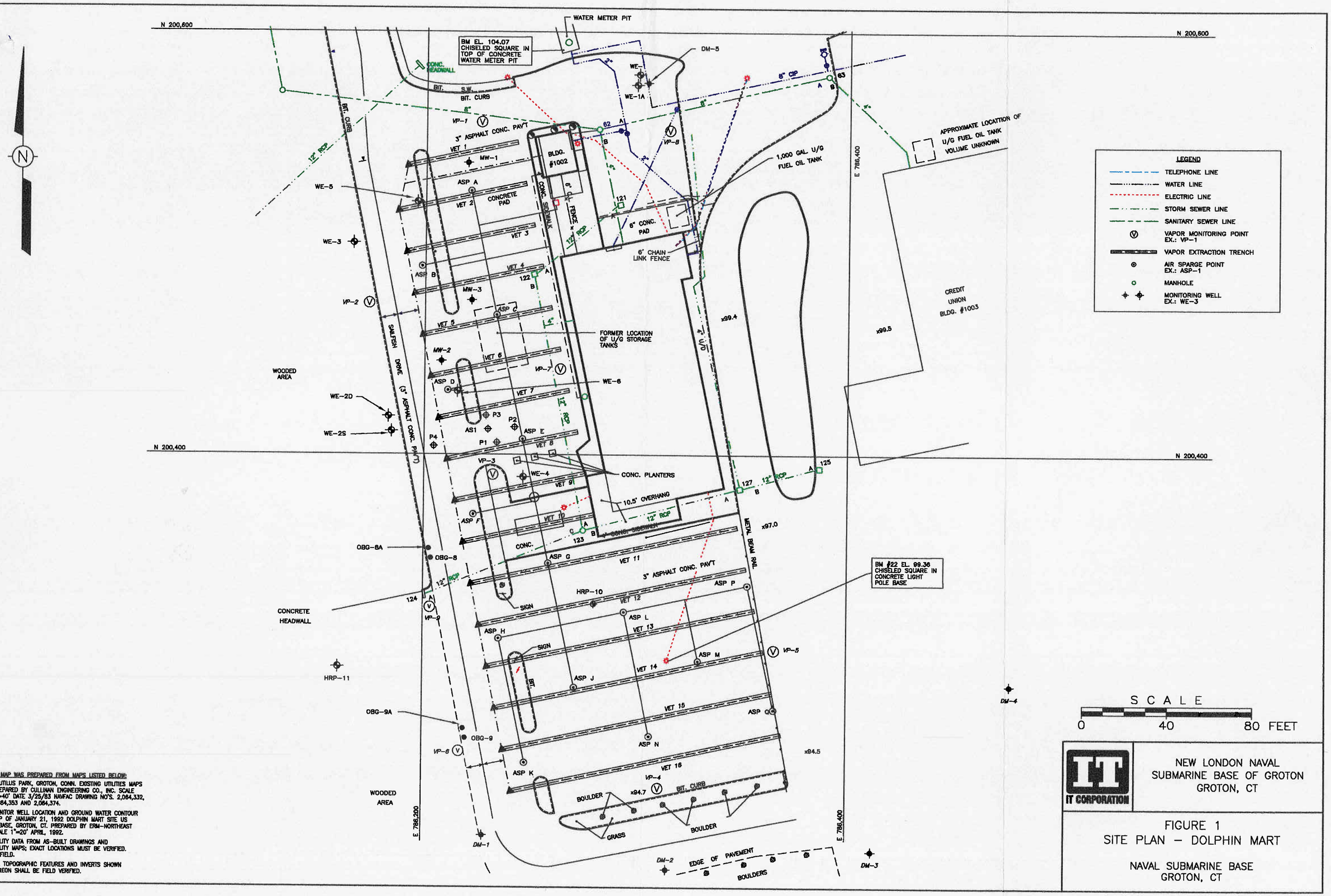


IMAGE	X-REF	OFFICE	DRAWN BY	CHECKED BY	APPROVED BY	DRAWING NUMBER
---	---	WIN	L. Avery 3/30/99	---	---	1405-17

DATE: 3/30/99
TIME: 2:02 PM
FORMAT REVISION 2/26/99

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 3/25/93 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.

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

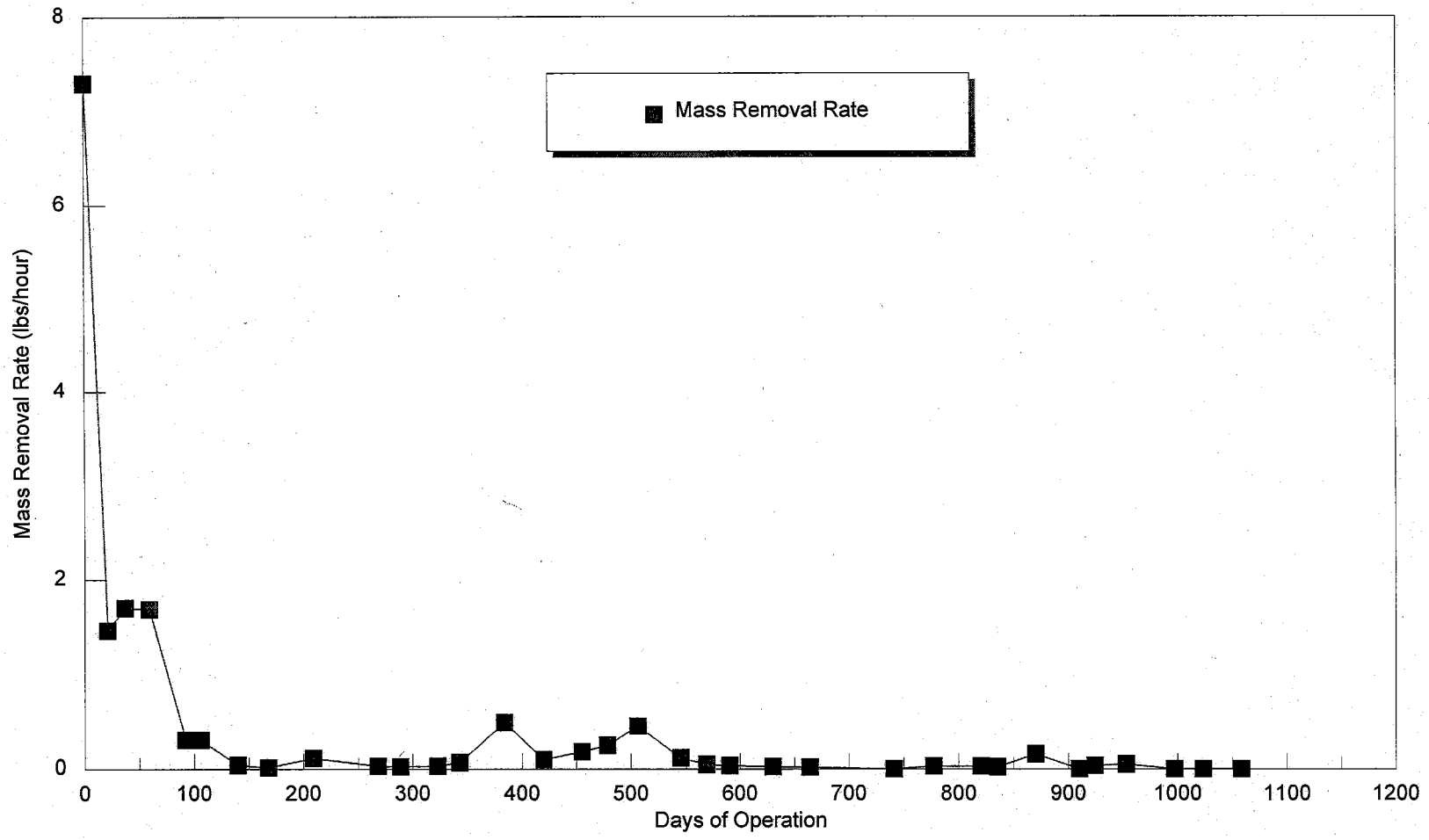
NAVAL SUBMARINE BASE
GROTON, CT

DRAWING NUMBER	APPROVED BY	CHECKED BY	DRAWN BY	OFFICE	X-REF	IMAGE
1405-16	---	---	L. Avery 3/30/99	WIN	---	---

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

Figure 3A- Mass Removal Rate

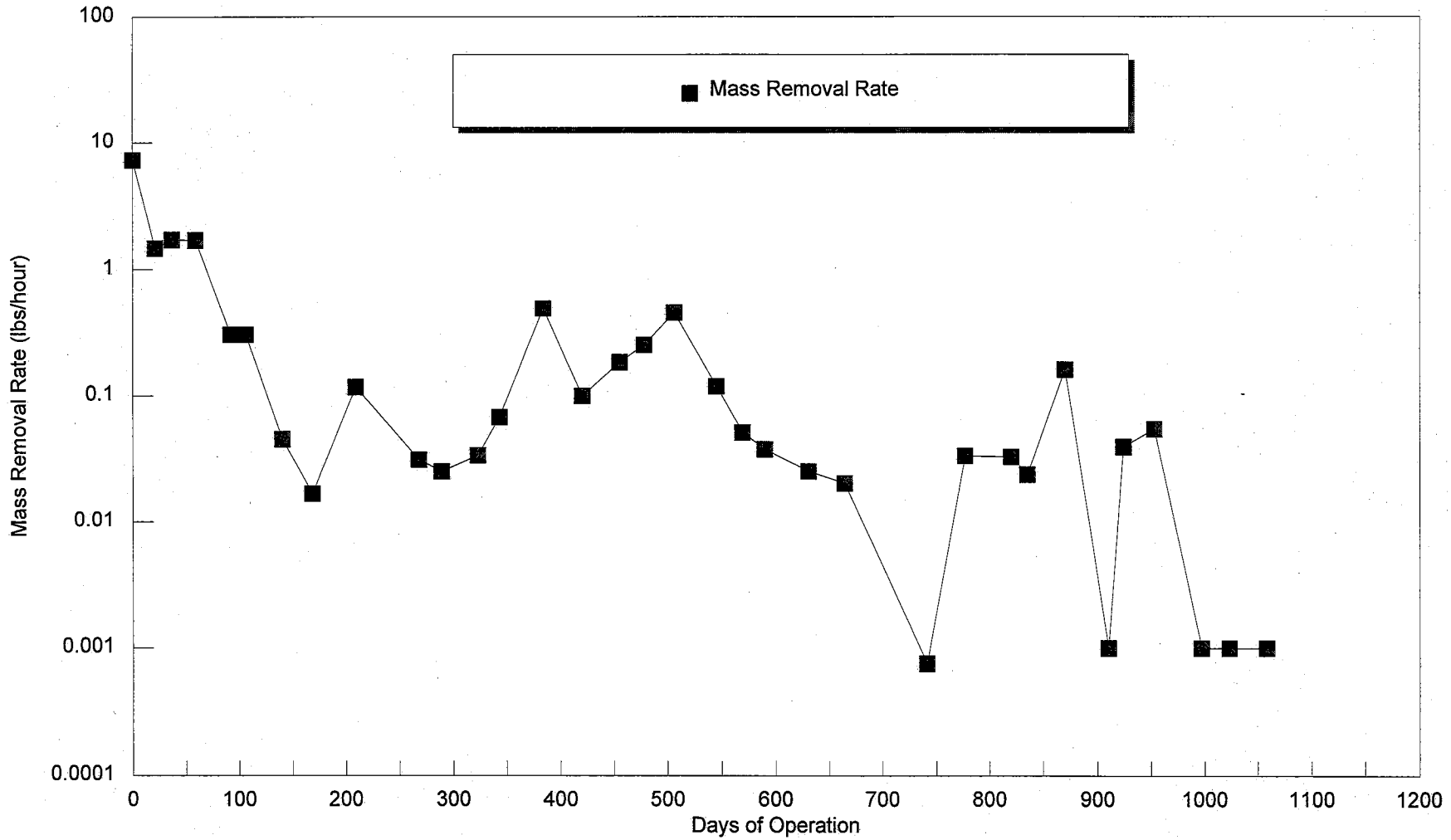
Dolphin Mart Site, New London Naval Submarine Base, Groton, CT



JUL00.WK4

Figure 3B- Mass Removal Rate

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



JUL00.WK4

Figure 4 - Cumulative Mass Removed versus Time

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

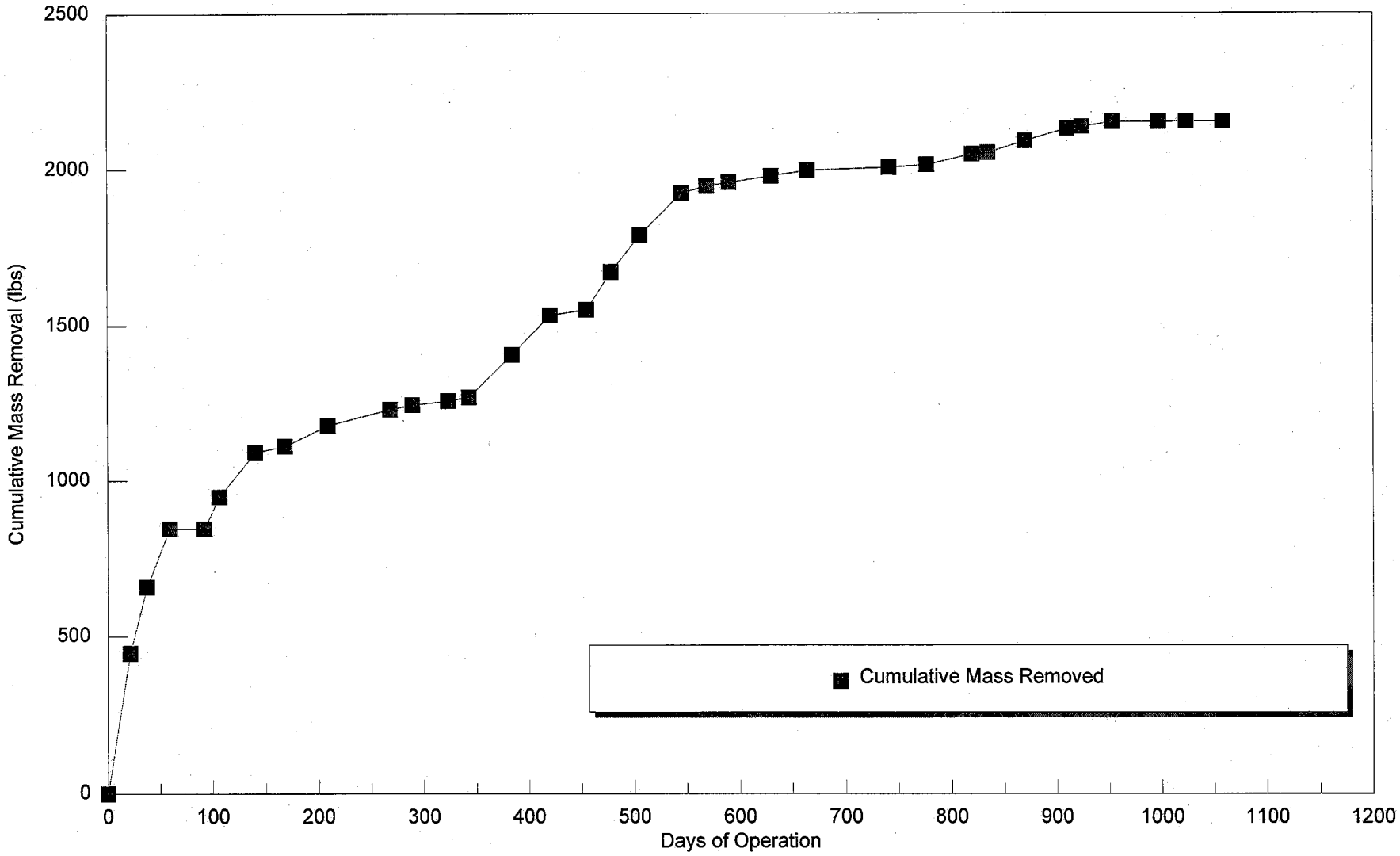


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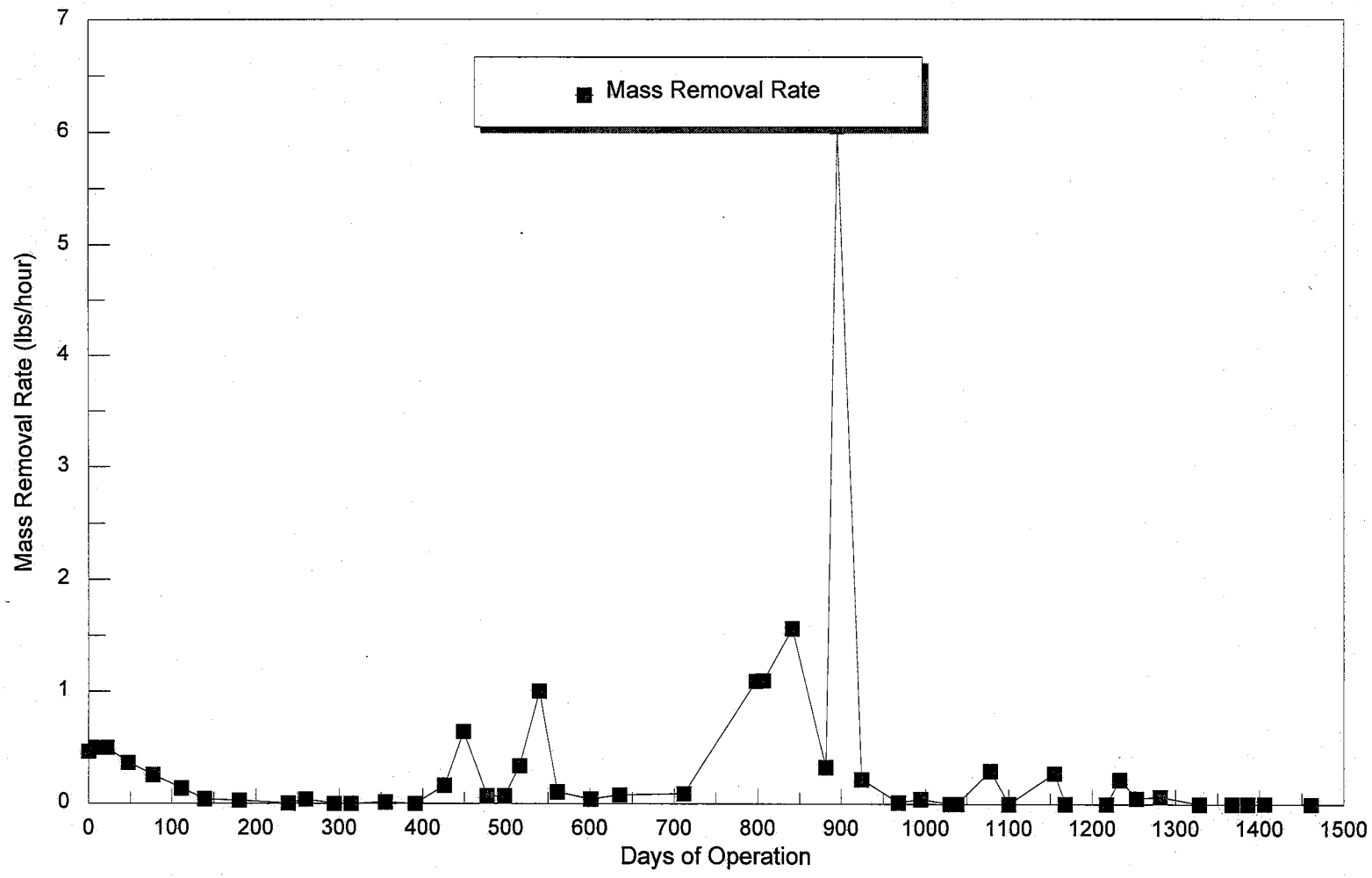
Figure 5A - Mass Removal Rate

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



JUL00.WK4

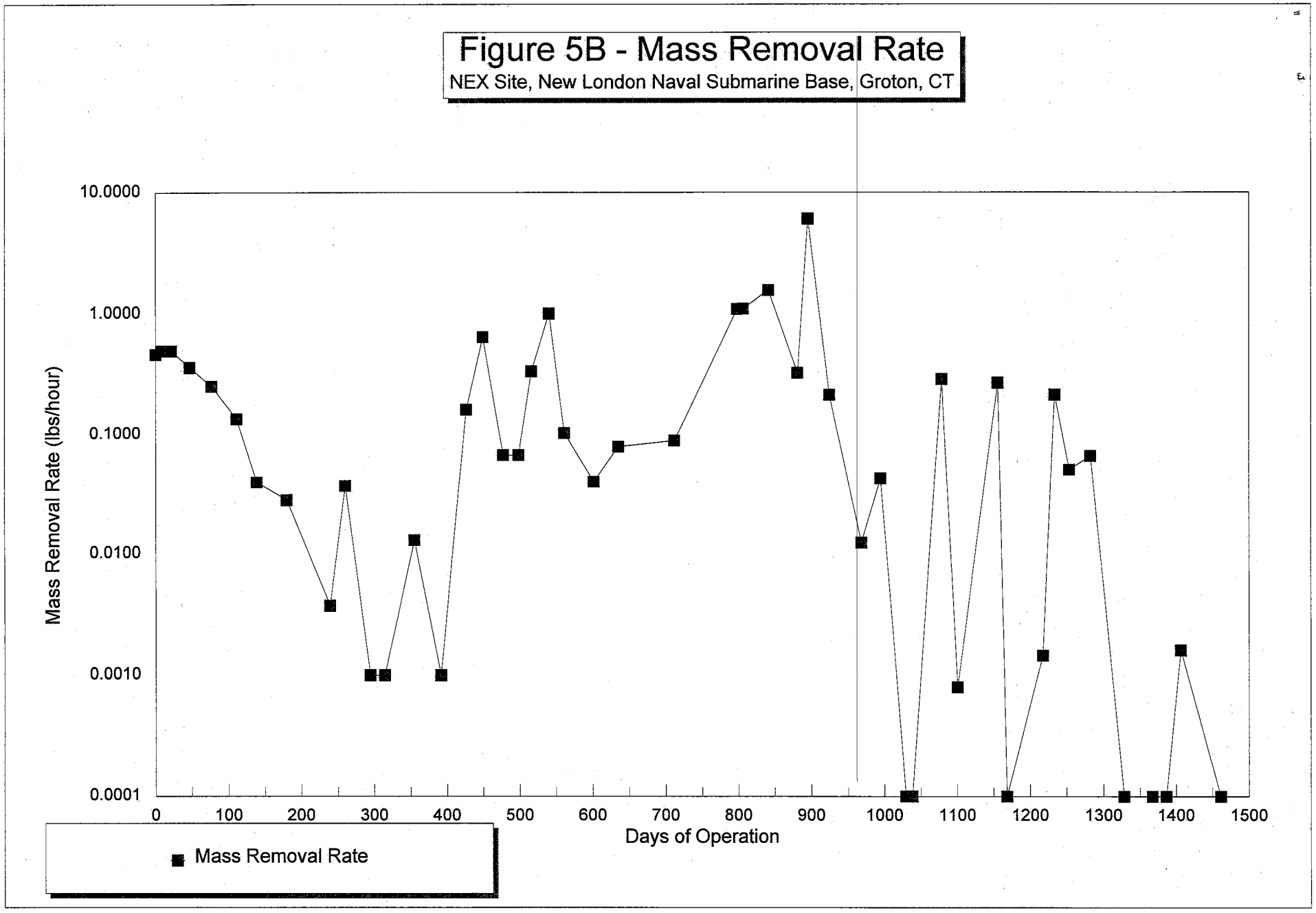
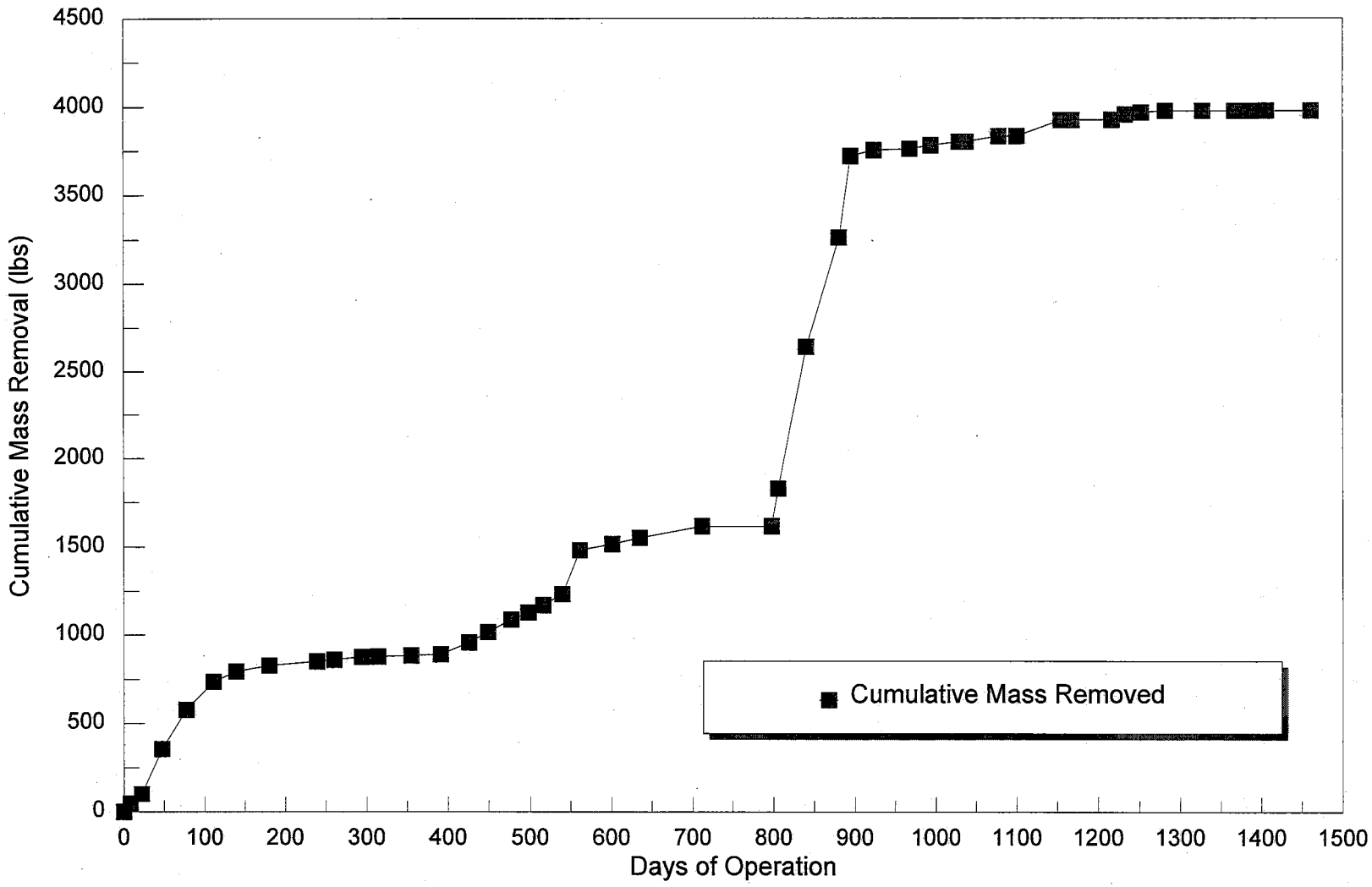


Figure 5B - Mass Removal Rate
NEX Site, New London Naval Submarine Base, Groton, CT
10.0000
1.0000
0.1000
0.0100
0.0010
0.0001
Mass Removal Rate (lbs/hour)
0
100
200
300
400
500
600
700
800
900
1000
1100
1200
1300
1400
1500
Days of Operation
Mass Removal Rate

JUL00.WK4

Figure 6 - Cumulative Mass Removed versus Time

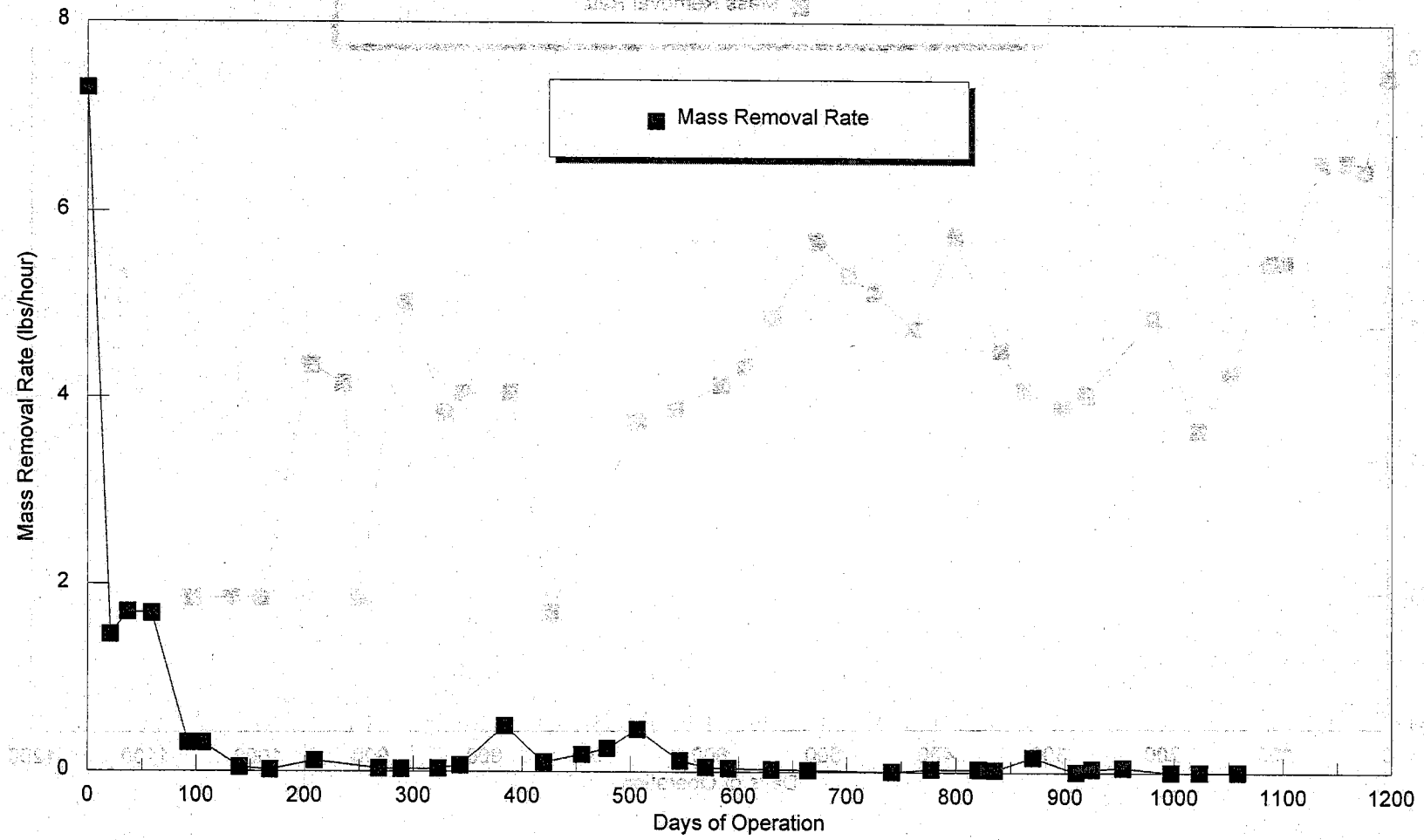
NEX Site, New London Naval Submarine Base, Groton, CT



JUL00.WK4

Figure 3A- Mass Removal Rate

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



JUL00.WK4

Figure 3B- Mass Removal Rate

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

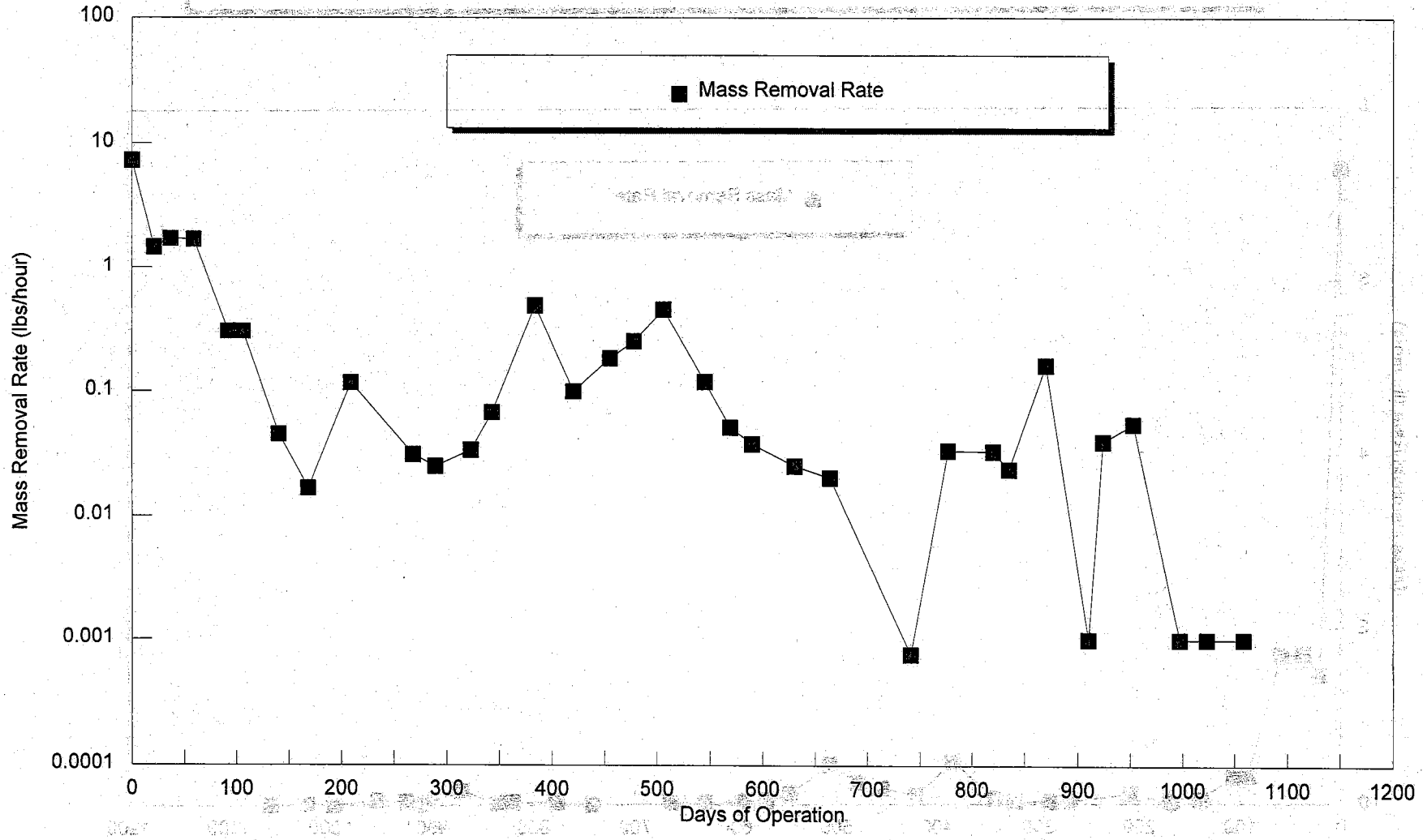


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Figure 4 - Cumulative Mass Removed versus Time

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

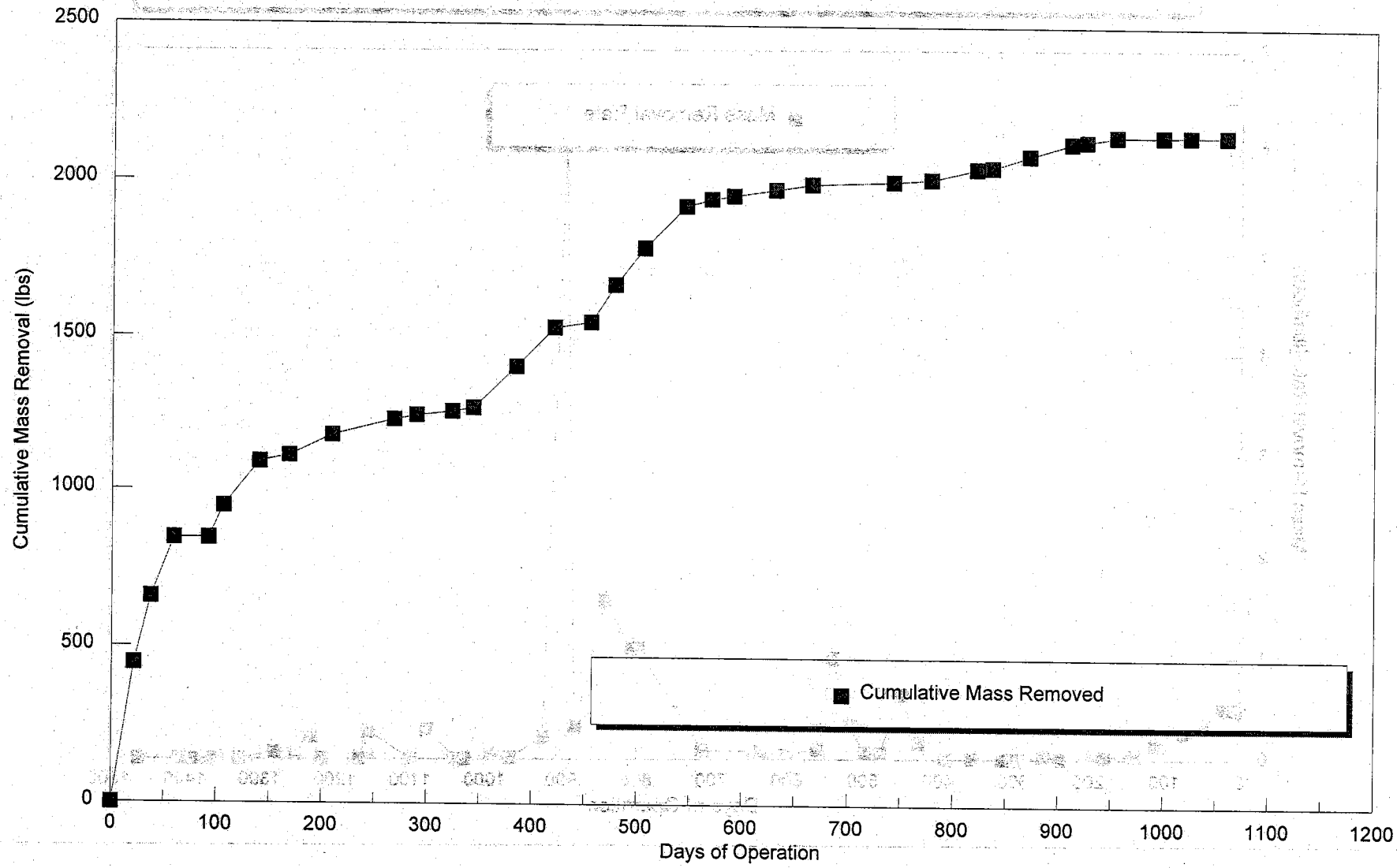

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Figure 5A - Mass Removal Rate

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

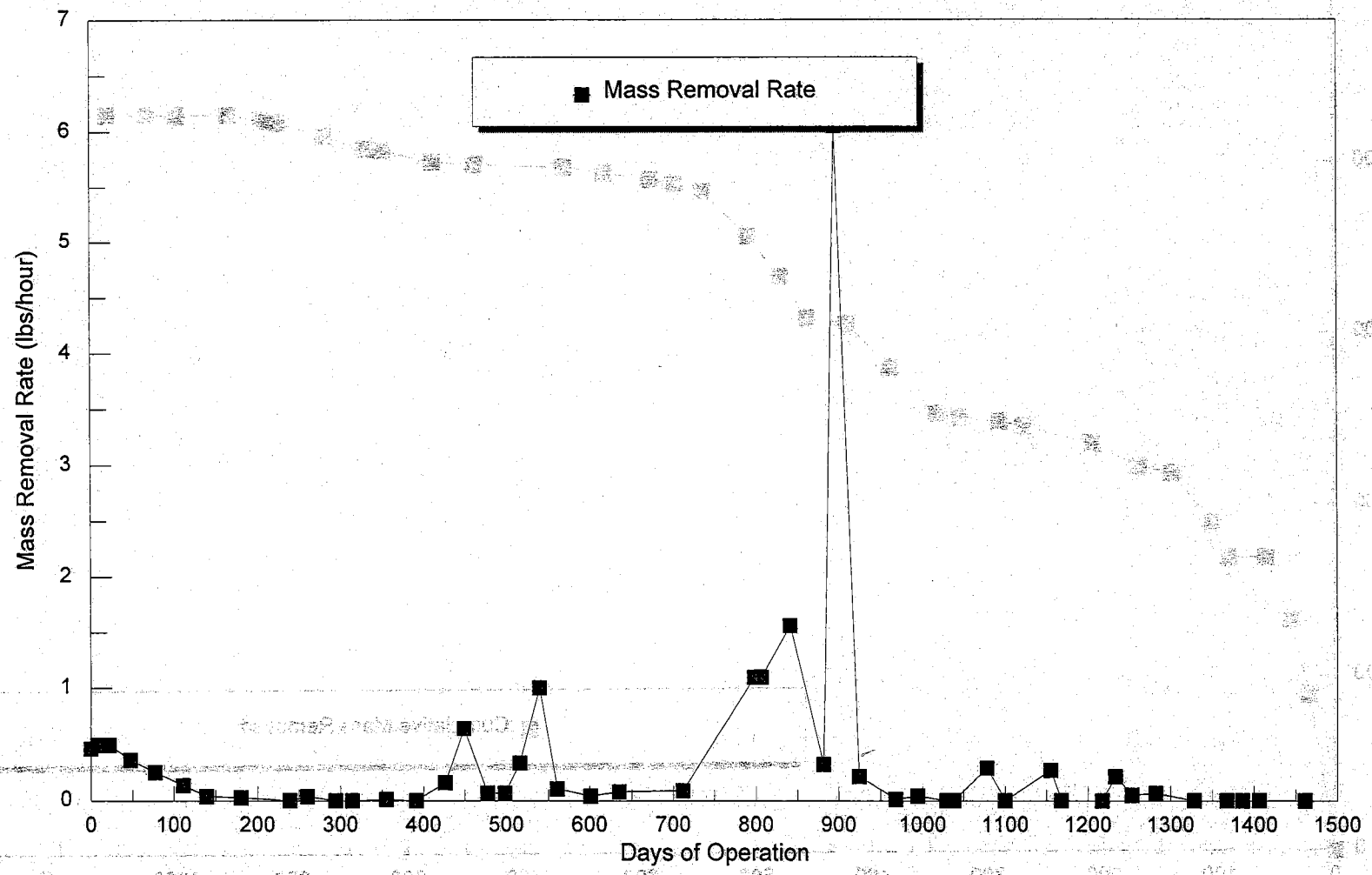

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Figure 5B - Mass Removal Rate

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

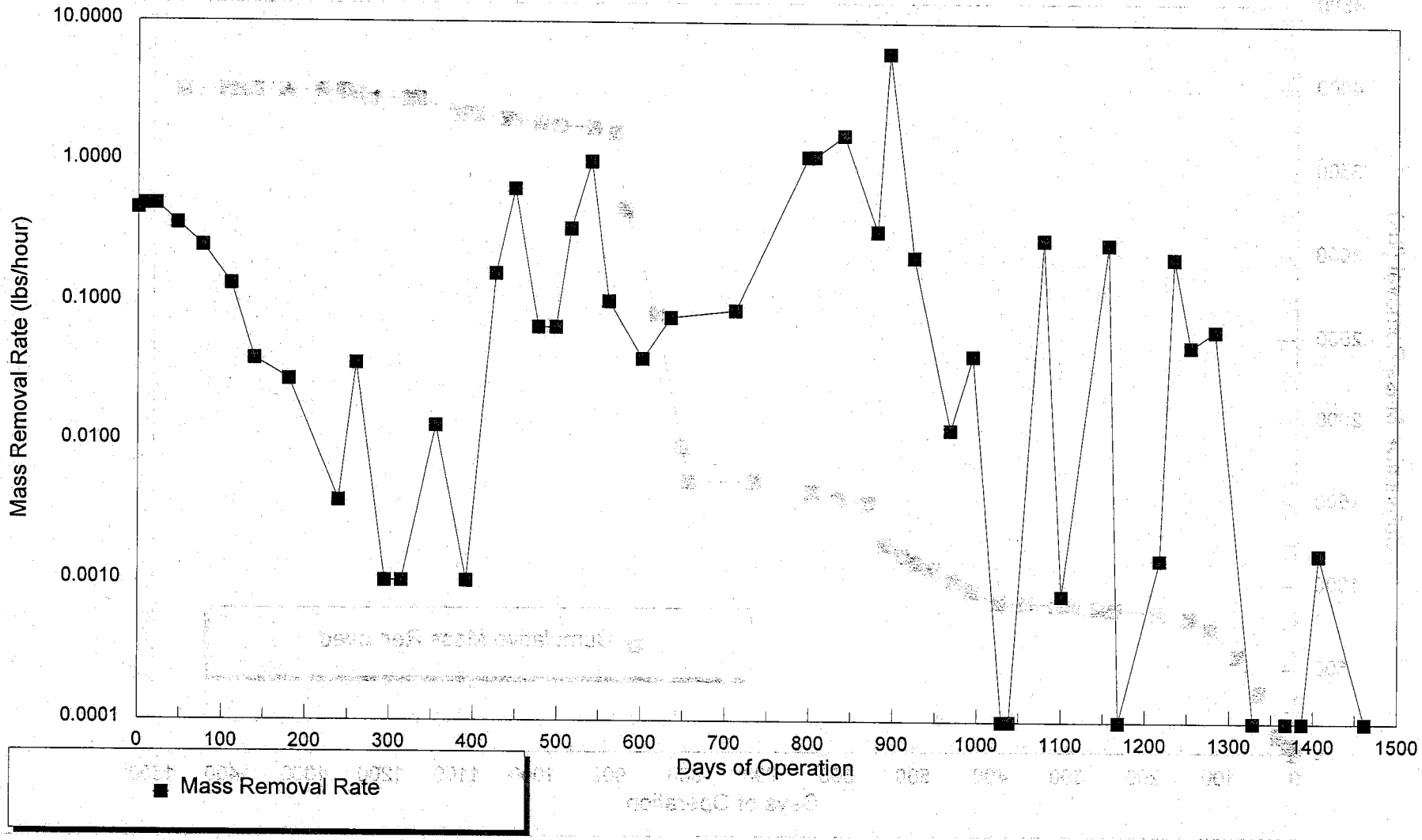

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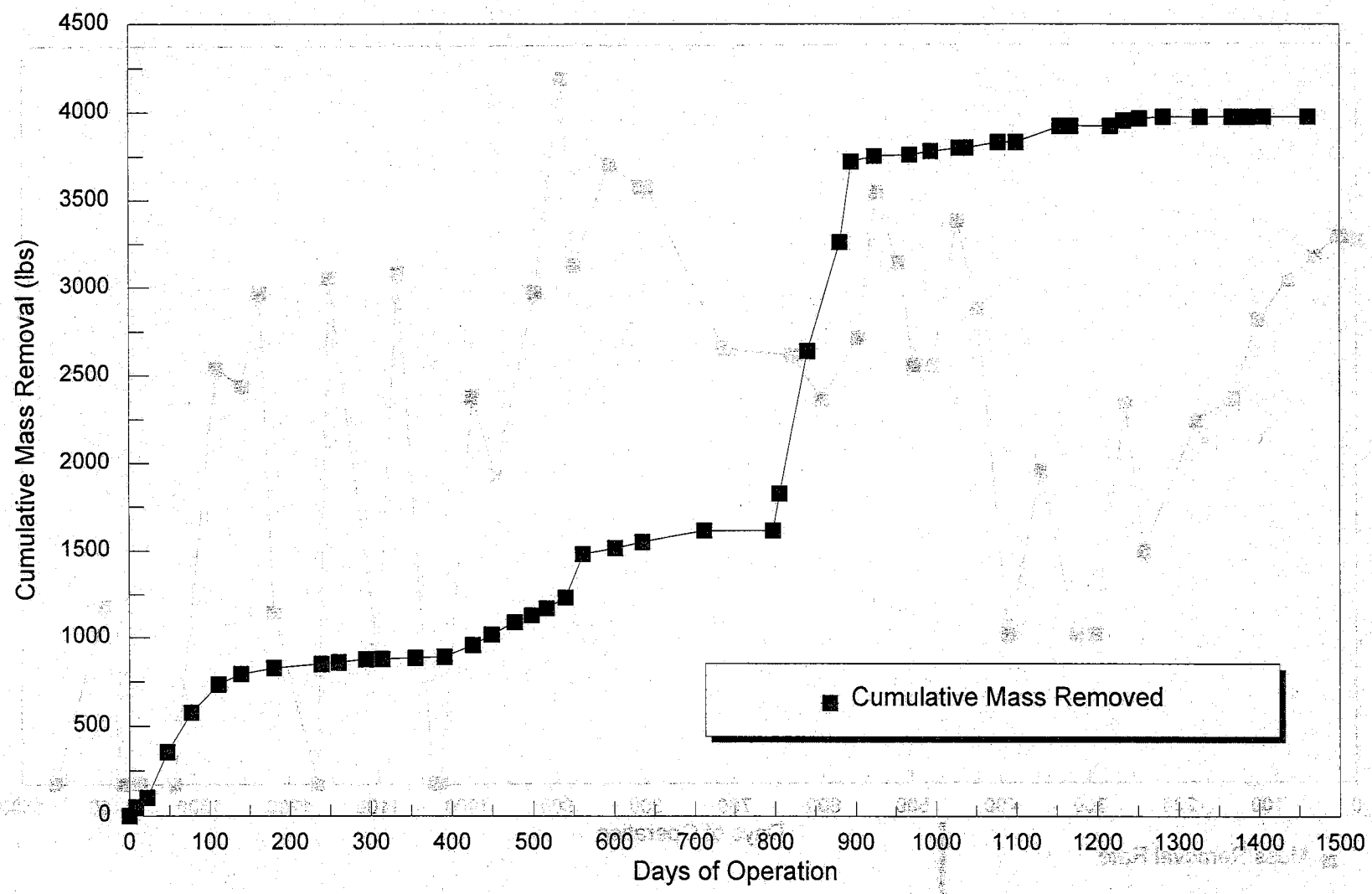
Figure 6 - Cumulative Mass Removed versus Time

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



JUL00.WK4

ATTACHMENT 1

SITE VISIT FORMS

Sched. Date
7/3/00

NAVAL SUBMARINE BASE
GROTON, CT.
87260014

Date: 7.7.00
Project Number: 87260014
DB/SCA Box Check: Yes / No
Site Arrival Time: 9:00
Total Hours on Site: 5.50

Staff: MCD
Task Number: ~~[illegible]~~ 050/000
Bill Code Override:
Site Departure Time: 2:30
Total Hours Billed: 8.0

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

DOLPHIN MART:

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

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
☐	☐	

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

TASK NUMBERS:

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

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

Date: 7.7.00
Time: 9:00
Technician: WCD

AIR COMPRESSOR SYSTEM

Flow Rate	34	SCFM	Total Flow	41788665	SCFM

Air Compressor C-1			Air Compressor C-2		
Pressure	5.5	psi	Pressure	Off	psi
Temperature	165	°F	Temperature		°F
Flow Control Valve Setting	100		Flow Control Valve Setting		
Bleed Valve	100%		Bleed Valve		
Radiator	ON / OFF		Radiator	ON / OFF	

SOIL VAPOR EXTRACTION SYSTEM

West ~~Eastern~~ Flow Rate	39	SCFM	Total Flow	57521016	SCFM
East ~~Western~~ Flow Rate	288	SCFM	Total Flow	196444934	SCFM

Vacuum Pump V-1			Vacuum Pump V-2		
Vacuum	4.5	"Hg	Vacuum		"Hg
Temperature	148	°F	Temperature		°F
Particulate Filter	OK		Particulate Filter		
Flow Control Valve Setting	190%		Flow Control Valve Setting	NA	
Bleed Air Valve Setting	10%		Bleed Air Valve Setting		
Liquid Level	0		Liquid Level		

Vacuum Pump V-3			Vacuum Pump V-4		
Vacuum	5.0	"Hg	Vacuum		"Hg
Temperature	160 ~~170~~	°F	Temperature		°F
Particulate Filter	OK		Particulate Filter	NA	
Flow Control Valve Setting	100%		Flow Control Valve Setting		
Bleed Air Valve Setting	10%		Bleed Air Valve Setting		
Liquid Level	0		Liquid Level		

ACTIVATED CARBON ADSORPTION SYSTEM

Carbon Adsorber A/B			Carbon Adsorber C/D		
Pressure	0.0	psi	Pressure	0.0	psi
Inf. VOC Level	1.9	ppm	Inf. VOC Level	—	ppm
Mid. VOC Level	0.6	ppm	Mid. VOC Level	—	ppm
Eff. VOC Level	0.2	ppm	Eff. VOC Level	3.6	ppm
Change out Date	NA		Change out Date	NA	

WATER TREATMENT

Flowmeter Reading 274679.2 Gallons (arrival reading) Flowmeter Reading 274680.0 Gallons (departure reading)

COMMENTS

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

IT CORPORATION

PROJECT: Groton 87260014

PROJECT #: 87260014

DATE: 7.7.00

PROBE CORRECTION:

LOCATION: Groton CT

OPERATOR: GCD

EQUIPMENT #: ART

COMMENTS:

WELL MONITORING FORM

WELL ID	WELL DEPTH	DEPTH TO WATER	DEPTH TO PETROLEUM	PETROLEUM THICKNESS	VACUUM OR PRESSURE	VOC CONCENTRATION (PPM)
ERM-12		CNL	.			
ERM-14	14.37	6.18	—	—		
ERM-16	16.15	8.22	. —	—		
OBG-1	11.45	7.00	. —	—		
OBG-9	12.85	5.47	. —	—		
Dolphin Mart						
VP-1						
VP-2						
VP-3						
VP-4						
VP-5					NA	
VP-6						
VP-7						
VP-8						
VP-9						
NEX						
VP-1					CNF	
VP-2					0.0	0.0
VP-3					CNF	
VP-4					0.0	0.0
VP-5					0.0	0.0
VP-6					0.0	0.0
VP-7					0.0	0.0
VP-8					0.0	0.0
VP-9					0.0	0.0

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Groton Sub Base

7.7.00

- Arr. on site, system down. System was shut off back on 6.12
- Restarted system and upon restart blower 3 was binding and finally tripped. It appears after closer inspection that the bearing is shot.
- Switched blower 3 with 2 and restarted system.
- Running good but cannot take DMR's due to down time and no water flow.
- took inventory of equipment and dip site.
- Checked Dolphin Mart. All roadboxes ok and shed secure

Copy / Copy

Groton Sub base

Inventory

NEX - operable

1) V1 System
2) V3 system up and running on 7.8 switch #2 blower
3) both sump pumps (from dolphin)
4) C1 + C2 only 1 runs at a time
5) water carbon A+B
6) Air carbon but could probably be removed.

NEX Trash

1) 3 blowers original which 2 are from dolphin + 1 from NEX #2
2) water carbon C+D need change out (Sand in them)
3) 2 old water pumps NEX originals
4) V3 Trap rusted out (needs replacement)
5) old carbon units outside 4 Air + 2 water. (steel cans)

Dolphin Mart operable

1) C1 system
2) C2 system
3) V2 system
4) 10 steel regenerated carbon vessels outside

Cecelon

Dolphin (Scavenged)

1) both sump pumps
2) trap #3
3) blowers from 3+4
4) Blower 1 blown
5) probe 3 @ NEX

Schd. Date
7/31/00

NAVAL SUBMARINE BASE
GROTON, CT.
87260014

Date: 7/31/00
Project Number: 87260014
DB/SCA Box Check: Yes / No
Site Arrival Time: 9:10 Am
Total Hours on Site: 3.50

Staff: J.K. JR.
Task Number: ~~0101~~ 050
Bill Code Override:
Site Departure Time: 12:30
Total Hours Billed: 6.00

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, 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

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Naval Subbase, Groton, CT

87260014-05000000 7/31/00

Jonathan Sorrow J.K. JR.

8:00 to 9:10 AM Depart IT Corp and traveled to the site.

9:10 to Arrived on site, Found SVE and and sparge systems operational. Culibrated Fid and obtained readings From the system. Then checked on the wts system and Found the pump in V1 moisture trap was not working. took the cover off of the moisture trap and cleaned the ~~prob~~. probe. then went and changed the Fuse for the pump. then reactivated the wts system. with the wts system operational, i was only able to obtain influent water samples to the carbon units. then obtained Influent air samples. Called and informed Jonathan Sorrow about the samples. then secured the shed and departed site. the SVE and sparge systems were operational.

went to Dolphin mart and checked on the shed, it is OK. the road boxes are also OK.

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

Date: 7/3/00
Time: 9:40
Technician: J.K. JR.

AIR COMPRESSOR SYSTEM

Flow Rate 36 to 40 SCFM | Total Flow 4295 7422 SCFM

Air Compressor C-1
Pressure 6.5 psi
Temperature 160 °F
Flow Control Valve Setting 100 %
Bleed Valve 100 %
Radiator (ON) / OFF

Air Compressor C-2
Pressure ___ psi
Temperature ___ °F
Flow Control Valve Setting N/A
Bleed Valve
Radiator (ON) / OFF

SOIL VAPOR EXTRACTION SYSTEM

Eastern Flow Rate 24 to 182 SCFM | Total Flow 20 3686 075 SCFM

Western Flow Rate 21 to 69 SCFM | Total Flow 58850 770 SCFM

Vacuum Pump V-1
Vacuum 2.5 "Hg
Temperature 140 °F
Particulate Filter OK
Flow Control Valve Setting 100
Bleed Air Valve Setting 0
Liquid Level OK

Vacuum Pump V-2
Vacuum ___ "Hg
Temperature ___ °F
Particulate Filter N/A
Flow Control Valve Setting
Bleed Air Valve Setting
Liquid Level

Vacuum Pump V-3
Vacuum 2.0 "Hg
Temperature 166 °F
Particulate Filter OK
Flow Control Valve Setting 100 %
Bleed Air Valve Setting 0
Liquid Level OK

Vacuum Pump V-4
Vacuum ___ "Hg
Temperature ___ °F
Particulate Filter N/A
Flow Control Valve Setting
Bleed Air Valve Setting
Liquid Level

ACTIVATED CARBON ADSORPTION SYSTEM

Carbon Adsorber A/B
Pressure 10 psi
Inf. VOC Level 0 ppm
Mid. VOC Level 0 ppm
Eff. VOC Level 0 ppm
Change out Date N/A

Carbon Adsorber C/D
Pressure 10 psi
Inf. VOC Level 0 ppm
Mid. VOC Level ___ ppm
Eff. VOC Level 0 ppm
Change out Date 8/22/96

WATER TREATMENT

Flowmeter Reading 275089 Gallons (arrival reading) | Flowmeter Reading 275089 Gallons (departure reading)

COMMENTS

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

ATTACHMENT 2

MONTHLY FIELD ACTIVITY SUMMARY

Field Activity Summary
July 2000

New London Naval Submarine Base
Groton, Connecticut

Date of Visit	Site	Period	Field Activities	Comments
7/7/00	Dolphin Mart	Bi-Weekly Monitoring	Checked site security and condition of road boxes. Inventoried equipment on site.	Site security and road boxes OK.
	NEX		Completed Operations and Maintenance on the SVE / WTS system. Completed inventory of onsite equipment.	Bearing in Blower 3 needs replacement. DMR samples could not be collected.
7/31/00	Dolphin Mart	Bi-Weekly Monitoring	Checked site security and condition of road boxes.	Site security and road boxes OK.
	NEX		Completed Operations and Maintenance on the SVE / WTS system.	Pump in moisture trap was found to be not working, but was then repaired. Only the influent water and air samples were able to be collected.

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 oncentrati TVPH (mg/m3)	Influent Concentration TVPH (ppmv)	Removal Rate TVPH (lb/hr)	Total Mass Removal Rate (lbs/hr)	Period Mass Removed (lbs)	Cumulative Mass Removed (lbs)	Comments
07/02/96	0	25	450	512.26	24.00	0.187	33.00	0.232	1000.00	6.876	0.00	0.000	—	—	0.000	7.295	0.00	0.00	
07/23/96	21	20	449	511.12	11.40	0.091	0.00	0.000	200.00	1.372	0.00	0.000	—	—	0.000	1.463	446.70	446.70	system operated approx. 102 hrs between 7/2 and 7/23
08/08/96	37	32	454	516.81	18.00	0.143	—	0.000	210.00	1.457	12.00	0.103	—	—	0.000	1.702	210.53	657.23	system operated approx. 133 hrs between 7/23 and 8/8
08/30/96	59	0	450	512.26	18.00	0.142	—	0.000	210.00	1.444	12.00	0.102	—	—	0.000	1.687	188.14	845.37	system operated approx. 111 hrs between 8/8 and 8/30
10/02/96	92	30	448	509.98	2.30	0.019	0.00	0.000	—	0.000	—	0.000	NA	36.00	0.286	0.305	0.00	845.37	system not in operation from 8/30 to 10/2 due to flow meter problem
10/16/96	106	30	450	512.26	2.30	0.019	0.00	0.000	—	0.000	—	0.000	NA	36.00	0.287	0.306	102.58	947.95	system reactivated 10/2/96
11/19/96	140	30	450	512.26	0.38	0.003	0.00	0.000	—	0.000	—	0.000	22.00	5.29	0.042	0.045	143.33	1091.28	
12/17/96	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	
01/27/97	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	
03/27/97	268	30	450	512.26	0.00	0.000	0.00	0.000	—	0.000	—	0.000	0.00	3.90	0.031	0.031	104.53	1229.95	assume 50% up-time, blowers shutting down due to influent water
04/17/97	289	30	450	512.26	0.00	0.000	0.00	0.000	—	0.000	—	0.000	13.00	3.13	0.025	0.025	14.13	1244.08	
05/21/97	323	15	329	374.52	0.00	0.000	0.00	0.000	—	0.000	—	0.000	24.00	5.77	0.034	0.034	11.96	1256.03	assume 50% up-time, blowers shutting down due to influent water
06/10/97	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
07/21/97	384	15	329	374.52	1.89	0.011	0.00	0.000	—	0.000	—	0.000	340.00	81.79	0.477	0.488	136.76	1404.93	assume 50% up-time, blowers shutting down due to influent water
08/26/97	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
09/30/97	455	15	482	548.69	0.34	0.003	0.00	0.000	—	0.000	—	0.000	88.00	21.17	0.181	0.184	17.84	1549.68	assume ~15% up-time, blowers shutting down due to influent water
10/23/97	478	14	589	670.49	0.00	0.000	0.00	0.000	—	0.000	—	0.000	100.00	24.06	0.251	0.251	120.10	1669.78	
11/20/97	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
12/29/97	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
01/22/98	569	27	471	536.16	0.32	0.003	0.00	0.000	—	0.000	—	0.000	24.00	5.77	0.048	0.051	24.38	1946.09	assume 50% up-time, blowers shutting down due to influent water
02/12/98	590	23	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
03/24/98	630	30	245	278.90	0.45	0.002	0.00	0.000	—	0.000	—	0.000	22.00	5.29	0.023	0.025	19.91	1977.19	system down for approximately one week due to influent water
04/27/98	664	30	215	244.75	0.00	0.000	0.00	0.000	—	0.000	—	0.000	22.00	5.29	0.020	0.020	18.47	1995.65	
07/13/98	741	13	294	334.68	0.14	0.001	0.00	0.000	—	0.000	—	0.000	0.00	0.00	0.000	0.001	9.67	2005.32	assume 50% up-time, blowers shutting down due to influent water
08/18/98	777	10	294	334.68	0.14	0.001	0.00	0.000	—	0.000	—	0.000	26.00	6.25	0.033	0.033	7.37	2012.69	assume 50% up-time, AS blower shut down due to high pressure
09/30/98	820	14	294	334.68	0.07	0.0004	0.00	0.000	—	0.000	—	0.000	26.00	6.25	0.033	0.033	34.22	2046.92	
10/15/98	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
11/19/98	870	14	223	253.69	0.00	0.0000	0.00	0.000	—	0.000	—	0.000	170.00	40.89	0.162	0.162	38.89	2090.90	assume 50% up-time, AS blower shut down due to high pressure
12/29/98	910	0	442	502.91	0.00	0.0000	0.00	0.000	—	0.000	—	0.000	0.00	0.00	0.000	0.001	39.01	2129.91	assume 50% up-time, AS blower shut down due to high pressure
01/12/99	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	
02/10/99	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
03/26/99	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	
04/21/99	1023	0	160	182.14	0.00	0.0000	0.00	0.000	—	0.000	—	0.000	0.00	0.00	0.000	0.001	0.38	2153.85	
05/26/99	1058	0	0	0.00	0.00	0.0000	0.00	0.000	—	0.000	—	0.000	0.00	0.00	0.000	0.001	0.00	2153.85	system deactivated May 1999

Notes:

1) Aliphatics are weighted using a response factor of hexane. (MW = 86.2)
2) Aromatics are weighted using a response factor of o-xylene. (MW=106.16)
3) Analytical data for 8/30/96 is assumed based on results of sampling conducted 8/8/96. System was deactivated 8/30/96 due to flow meter failure.
4) Flow rate of 10/16/96 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
07/31/96	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	
08/08/96	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
08/22/96	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
09/16/96	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	
10/16/96	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	
11/19/96	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	
12/17/96	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	
01/27/97	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	
03/27/97	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	
04/17/97	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	
05/21/97	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	
06/10/97	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	
07/21/97	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	
08/26/97	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.
09/30/97	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.
10/23/97	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.
11/20/97	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.
12/11/97	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	
12/29/97	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	
01/22/98	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	
02/12/98	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	
03/24/98	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	
04/27/98	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	
07/13/98	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	
10/07/98	796	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.
10/15/98	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	
11/19/98	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	
12/29/98	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.
01/12/99	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	
02/10/99	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	
03/26/99	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
04/21/99	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	
05/26/99	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	
06/04/99	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
07/14/99	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
08/05/99	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	
09/29/99	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	
10/12/99	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.
11/30/99	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.
12/16/99	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	
01/05/00	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	
02/03/00	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	
03/20/00	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
04/28/00	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	
05/17/00	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	
06/06/00	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	
07/31/00	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	

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

Date	Date	DM-1			DM-2			DM-3			DM-4		
		Well Casing Elevation	Depth to Groundwater	Groundwater Elevation	Well Casing Elevation	Depth to Groundwater	Groundwater Elevation	Well Casing Elevation	Depth to Groundwater	Groundwater Elevation	Well Casing Elevation	Depth to Groundwater	Groundwater Elevation
07/02/96	07/02/96	94.23	6.37	87.86	94.30	NG	NA	94.02	NG	NA	94.81	NG	NA
07/03/96	07/03/96	94.23	NG	NA	94.30	NG	NA	94.02	NG	NA	94.81	NG	NA
07/12/96	07/12/96	94.23	NG	NA	94.30	NG	NA	94.02	NG	NA	94.81	NG	NA
07/16/96	07/16/96	94.23	NG	NA	94.30	NG	NA	94.02	NG	NA	94.81	NG	NA
07/17/96	07/17/96	94.23	NG	NA	94.30	NG	NA	94.02	NG	NA	94.81	NG	NA
07/19/96	07/19/96	94.23	NG	NA	94.30	NG	NA	94.02	NG	NA	94.81	NG	NA
07/22/96	07/22/96	94.23	NG	NA	94.30	NG	NA	94.02	NG	NA	94.81	NG	NA
07/23/96	07/23/96	94.23	NG	NA	94.30	NG	NA	94.02	NG	NA	94.81	NG	NA
07/24/96	07/24/96	94.23	NG	NA	94.30	NG	NA	94.02	NG	NA	94.81	NG	NA
07/25/96	07/25/96	94.23	NG	NA	94.30	NG	NA	94.02	NG	NA	94.81	NG	NA
07/26/96	07/26/96	94.23	NG	NA	94.30	NG	NA	94.02	NG	NA	94.81	NG	NA
08/01/96	08/01/96	94.23	NG	NA	94.30	NG	NA	94.02	NG	NA	94.81	NG	NA
08/02/96	08/02/96	94.23	NG	NA	94.30	NG	NA	94.02	NG	NA	94.81	NG	NA
08/05/96	08/05/96	94.23	NG	NA	94.30	NG	NA	94.02	NG	NA	94.81	NG	NA
09/04/96	09/04/96	94.23	NG	NA	94.30	NG	NA	94.02	NG	NA	94.81	NG	NA
10/02/96	10/02/96	94.23	NG	NA	94.30	NG	NA	94.02	NG	NA	94.81	NG	NA
10/21/96	10/21/96	94.23	NG	NA	94.30	NG	NA	94.02	NG	NA	94.81	NG	NA
11/19/96	11/19/96	94.23	1.90	92.33	94.30	NG	NA	94.02	2.06	91.96	94.81	2.68	92.13
12/17/96	12/17/96	94.23	2.53	91.70	94.30	NG	NA	94.02	1.60	92.42	94.81	NG	NA
01/27/97	01/27/97	94.23	1.91	92.32	94.30	NG	NA	94.02	1.89	92.13	94.81	NG	NA
02/18/97	02/18/97	94.23	1.93	92.30	94.30	NG	NA	94.02	1.90	92.12	94.81	2.04	92.77
03/27/97	03/27/97	94.23	1.89	92.34	94.30	2.27	92.03	94.02	1.86	92.16	94.81	2.41	92.40
04/17/97	04/17/97	94.23	NG	NA	94.30	NG	NA	94.02	NG	NA	94.81	NG	NA
05/21/97	05/21/97	94.23	2.04	92.19	94.30	2.39	91.91	94.02	2.08	91.94	94.81	3.08	91.73
08/27/97	08/27/97	94.23	NG	NA	94.30	NG	NA	94.02	NG	NA	94.81	NG	NA
11/21/97	11/21/97	94.23	2.26	91.97	94.30	3.20	91.10	94.02	2.56	91.46	94.81	3.33	91.48
02/11/98	02/11/98	94.23	1.79	92.44	94.30	2.63	91.67	94.02	1.61	92.41	94.81	1.84	92.97
05/11/98	05/11/98	94.23	1.80	92.43	94.30	1.85	92.45	94.02	1.50	92.52	94.81	2.34	92.47
08/17/98	08/17/98	94.23	2.70	91.53	94.30	3.75	90.55	94.02	3.30	90.72	94.81	1.25	93.56
11/18/98	11/18/98	94.23	2.32	91.91	94.30	2.88	91.42	94.02	2.60	91.42	94.81	3.35	91.46
02/19/99	02/19/99	94.23	2.06	92.17	94.30	2.61	91.69	94.02	1.88	92.14	94.81	2.03	92.78
05/21/99	05/21/99	94.23	2.04	92.19	94.30	2.57	91.73	94.02	2.26	91.76	94.81	3.83	90.98
08/26/99	08/26/99	94.23	4.51	89.72	94.30	5.32	88.98	94.02	5.16	88.86	94.81	5.86	88.95
11/30/99	11/30/99	94.23	2.06	92.17	94.30	2.40	91.90	94.02	2.28	91.74	94.81	2.92	91.89
03/20/00	03/20/00	94.23	1.82	92.41	94.30	2.32	91.98	94.02	1.87	92.15	94.81	1.37	93.44
06/05/00	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

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

Date		DM-5			HRP-10			HRP-11			MW-1	
	Well Casing Elevation	Depth to Groundwater	Groundwater Elevation	Well Casing Elevation	Depth to Groundwater	Groundwater Elevation	Well Casing Elevation	Depth to Groundwater	Groundwater Elevation	Well Casing Elevation	Depth to Groundwater	Groundwater Elevation
07/02/96	101.06	NG	NA	97.05	4.65	92.40	96.79	NG	NA		4.65	
07/03/96	101.06	NG	NA	97.05	5.19	91.86	96.79	NG	NA		4.63	
07/12/96	101.06	NG	NA	97.05	5.81	91.24	96.79	NG	NA		5.01	
07/16/96	101.06	NG	NA	97.05	4.33	92.72	96.79	NG	NA		4.55	
07/17/96	101.06	NG	NA	97.05	2.73	94.32	96.79	NG	NA		4.94	
07/19/96	101.06	NG	NA	97.05	4.38	92.67	96.79	NG	NA		5.21	
07/22/96	101.06	NG	NA	97.05	4.54	92.51	96.79	NG	NA		4.82	
07/23/96	101.06	NG	NA	97.05	4.55	92.50	96.79	NG	NA		4.75	
07/24/96	101.06	NG	NA	97.05	4.33	92.72	96.79	NG	NA		5.22	
07/25/96	101.06	NG	NA	97.05	4.46	92.59	96.79	NG	NA		5.31	
07/26/96	101.06	NG	NA	97.05	4.43	92.62	96.79	NG	NA		4.79	
08/01/96	101.06	NG	NA	97.05	3.93	93.12	96.79	NG	NA		4.96	
08/02/96	101.06	NG	NA	97.05	4.08	92.97	96.79	NG	NA		5.24	
08/05/96	101.06	NG	NA	97.05	4.35	92.70	96.79	NG	NA		5.08	
09/04/96	101.06	NG	NA	97.05	5.43	91.62	96.79	NG	NA		6.07	
10/02/96	101.06	NG	NA	97.05	3.53	93.52	96.79	NG	NA		5.43	
10/21/96	101.06	NG	NA	97.05	3.98	93.07	96.79	NG	NA		NG	
11/19/96	101.06	5.37	95.69	97.05	4.15	92.90	96.79	NG	NA		3.85	
12/17/96	101.06	3.67	97.39	97.05	NG	NA	96.79	NG	NA		3.85	
01/27/97	101.06	4.26	96.80	97.05	3.29	93.76	96.79	NG	NA		2.53	
02/18/97	101.06	NG	NA	97.05	4.04	93.01	96.79	NG	NA		2.98	
03/27/97	101.06	4.60	96.46	97.05	4.04	93.01	96.79	3.21	93.58		2.91	
04/17/97	101.06	NG	NA	97.05	5.25	91.80	96.79	NG	NA		3.48	
05/21/97	101.06	5.19	95.87	97.05	4.11	92.94	96.79	3.43	93.36		3.14	
08/27/97	101.06	NG	NA	97.05	5.01	92.04	96.79	4.10	92.69		3.60	
11/21/97	101.06	6.83	94.23	97.05	4.43	92.62	96.79	3.77	93.02		5.33	
02/11/98	101.06	3.87	97.19	97.05	3.64	93.41	96.79	3.08	93.71		3.23	
05/11/98	101.06	2.41	98.65	97.05	3.65	93.40	96.79	3.16	93.63		1.81	
08/17/98	101.06	7.69	93.37	97.05	5.11	91.94	96.79	3.99	92.80		6.32	
11/18/98	101.06	7.46	93.60	97.05	5.13	91.92	96.79	3.85	92.94		5.74	
02/19/99	101.06	4.38	96.68	97.05	4.15	92.90	96.79	3.33	93.46		2.95	
05/21/99	101.06	5.63	95.43	97.05	4.36	92.69	96.79	3.55	93.24		3.96	
08/26/99	101.06	10.59	90.47	97.05	7.34	89.71	96.79	6.62	90.17		8.99	
11/30/99	101.06	5.50	95.56	97.05	4.20	92.85	96.79	3.50	93.29		4.13	
03/20/00	101.06	3.28	97.78	97.05	4.10	92.95	96.79	3.32	93.47		1.28	
06/05/00	101.06	5.09	95.97	97.05	4.25	92.80	96.79	3.63	93.16		3.69	

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

Date	MW-2			MW-3			OBG8A			OBG9A		
	Well Casing Elevation	Depth to Groundwater	Groundwater Elevation	Well Casing Elevation	Depth to Groundwater	Groundwater Elevation	Well Casing Elevation	Depth to Groundwater	Groundwater Elevation	Well Casing Elevation	Depth to Groundwater	Groundwater Elevation
07/02/96		3.55			3.12		95.20	NG	NA	94.67	0.82	93.85
07/03/96		2.86			0.00		95.20	NG	NA	94.67	0.89	93.78
07/12/96		3.82			1.95		95.20	NG	NA	94.67	1.85	92.82
07/16/96		2.89			0.74		95.20	NG	NA	94.67	0.69	93.98
07/17/96		1.63			2.79		95.20	NG	NA	94.67	0.00	94.67
07/19/96		0.61			0.00		95.20	NG	NA	94.67	0.00	94.67
07/22/96		1.95			1.17		95.20	NG	NA	94.67	0.00	94.67
07/23/96		3.33			0.00		95.20	NG	NA	94.67	0.20	94.47
07/24/96		1.18			0.00		95.20	NG	NA	94.67	0.00	94.67
07/25/96		NG			NG		95.20	NG	NA	94.67	0.16	94.51
07/26/96		NG			NG		95.20	NG	NA	94.67	0.00	94.67
08/01/96		2.20			1.28		95.20	NG	NA	94.67	NG	NA
08/02/96		1.82			1.31		95.20	NG	NA	94.67	0.00	94.67
08/05/96		NG			1.08		95.20	NG	NA	94.67	0.00	94.67
09/04/96		4.59			DRY		95.20	NG	NA	94.67	NG	NA
10/02/96		NG			3.86		95.20	NG	NA	94.67	NG	NA
10/21/96		NG			NG		95.20	NG	NA	94.67	NG	NA
11/19/96		3.00			DRY		95.20	NG	NA	94.67	NG	NA
12/17/96		2.17			NG		95.20	NG	NA	94.67	NG	NA
01/27/97		2.13			NG		95.20	NG	NA	94.67	NG	NA
02/18/97		2.56			2.28		95.20	NG	NA	94.67	NG	NA
03/27/97		1.86			1.27		95.20	NG	NA	94.67	NG	NA
04/17/97		1.94			1.39		95.20	NG	NA	94.67	NG	NA
05/21/97		2.93			2.44		95.20	NG	NA	94.67	NG	NA
08/27/97		4.28			DRY		95.20	NG	NA	94.67	2.46	92.21
11/21/97		3.84			3.06		95.20	2.26	92.94	94.67	0.95	93.72
02/11/98		1.34			1.88		95.20	1.47	93.73	94.67	1.31	93.36
05/11/98		1.99			4.08		95.20	0.31	94.89	94.67	0.98	93.69
08/17/98		4.95			4.96		95.20	2.35	92.85	94.67	2.58	92.09
11/18/98		5.27			3.27		95.20	2.30	92.90	94.67	1.91	92.76
02/19/99		2.59			1.92		95.20	0.50	94.70	94.67	1.77	92.90
05/21/99		3.23			2.20		95.20	1.71	93.49	94.67	2.42	92.25
08/26/99		7.20			6.93		95.20	4.48	90.72	94.67	4.85	89.82
11/30/99		3.20			2.80		95.20	0.81	94.39	94.67	2.38	92.29
03/20/00		2.30			1.73		95.20	1.53	93.67	94.67	2.17	92.50
06/05/00		3.02			2.52		95.20	0.80	94.40	94.67	1.90	92.77

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

Date		WE-1			WE-1A			WE-2D			WE-2S	
	Well Casing Elevation	Depth to Groundwater	Groundwater Elevation	Well Casing Elevation	Depth to Groundwater	Groundwater Elevation	Well Casing Elevation	Depth to Groundwater	Groundwater Elevation	Well Casing Elevation	Depth to Groundwater	Groundwater Elevation
07/02/96		DRY			DRY		100.84	6.56	94.28	100.86	6.78	94.08
07/03/96		NG			NG		100.84	6.35	94.49	100.86	6.58	94.28
07/12/96		NG			NG		100.84	6.83	94.01	100.86	6.96	93.90
07/16/96		NG			NG		100.84	6.24	94.60	100.86	6.47	94.39
07/17/96		NG			NG		100.84	5.88	94.96	100.86	6.30	94.56
07/19/96		NG			NG		100.84	5.53	95.31	100.86	6.18	94.68
07/22/96		NG			NG		100.84	6.42	94.42	100.86	6.45	94.41
07/23/96		NG			NG		100.84	6.33	94.51	100.86	6.70	94.16
07/24/96		NG			NG		100.84	5.67	95.17	100.86	6.31	94.55
07/25/96		NG			NG		100.84	NG	NA	100.86	NG	NA
07/26/96		NG			NG		100.84	NG	NA	100.86	NG	NA
08/01/96		NG			NG		100.84	6.09	94.75	100.86	6.39	94.47
08/02/96		NG			NG		100.84	5.73	95.11	100.86	6.30	94.56
08/05/96		NG			NG		100.84	NG	NA	100.86	NG	NA
09/04/96		NG			NG		100.84	7.51	93.33	100.86	7.39	93.47
10/02/96		NG			NG		100.84	5.82	95.02	100.86	6.41	94.45
10/21/96		NG			NG		100.84	NG	NA	100.86	NG	NA
11/19/96		NG			NG		100.84	5.89	94.95	100.86	6.46	94.40
12/17/96		NG			NG		100.84	NG	NA	100.86	6.10	94.76
01/27/97		NG			NG		100.84	5.73	95.11	100.86	6.24	94.62
02/18/97		NG			NG		100.84	5.84	95.00	100.86	6.32	94.54
03/27/97		5.03			DRY		100.84	5.45	95.39	100.86	6.21	94.65
04/17/97		NG			NG		100.84	NG	NA	100.86	NG	NA
05/21/97		DRY			DRY		100.84	6.11	94.73	100.86	NG	NA
08/27/97		NG			NG		100.84	7.03	93.81	100.86	NG	NA
11/21/97		DRY			DRY		100.84	6.66	94.18	100.86	6.97	93.89
02/11/98		NG			NG		100.84	5.49	95.35	100.86	6.29	94.57
05/11/98		NG			NG		100.84	5.16	95.68	100.86	6.18	94.68
08/17/98		NG			NG		100.84	7.50	93.34	100.86	7.53	93.33
11/18/98		DRY			DRY		100.84	7.23	93.61	100.86	7.62	93.24
02/19/99		NG			NG		100.84	5.72	95.12	100.86	6.44	94.42
05/21/99		NG			NG		100.84	6.26	94.58	100.86	6.69	94.17
08/26/99		NG			NG		100.84	9.84	91.00	100.86	10.12	90.74
11/30/99		NG			NG		100.84	6.09	94.75	100.86	6.67	94.19
03/20/00		NG			NG		100.84	8.47	92.37	100.86	6.54	94.32
06/05/00		NG			NG		100.84	5.98	94.86	100.86	6.71	94.15

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

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

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

Date	ERM-5			ERM-6			ERM-7		
	Well Casing Elevation	Depth to Groundwater/ Product	Groundwater Elevation	Well Casing Elevation	Depth to Groundwater/ Product	Groundwater Elevation	Well Casing Elevation	Depth to Groundwater/ Product	Groundwater Elevation
09/16/96		3.82		22.09	5.14	16.95	21.98	5.27	16.71
10/16/96		NG		22.09	4.82	17.27	21.98	4.75	17.23
11/18/96		3.72		22.09	4.64	17.45	21.98	4.93	17.05
12/16/96		3.10		22.09	4.08	18.01	21.98	4.21	17.77
02/17/97		3.00		22.09	4.34	17.75	21.98	4.29	17.69
03/27/97		2.89		22.09	4.28	17.81	21.98	4.19	17.79
04/15/97		NG		22.09	NG	NA	21.98	NG	NA
04/17/97		2.73		22.09	NG	NA	21.98	NG	NA
04/24/97		NG		22.09	NG	NA	21.98	NG	NA
05/21/97		NG		22.09	4.72	17.37	21.98	4.61	17.37
08/28/97		NG		22.09	5.29	16.80	21.98	6.49	15.49
11/20/97		4.35		22.09	5.24	16.85	21.98	5.35	16.63
02/12/98		3.59		22.09	4.68	17.41	21.98	4.71	17.27
05/12/98		2.09		22.09	2.69	19.40	21.98	3.32	18.66
08/19/98		3.43		22.09	5.26	16.83	21.98	5.19	16.79
11/19/98		4.58		22.09	5.80	16.29	21.98	5.80	16.18
02/18/99		3.80		22.09	4.74	17.35	21.98	NG	NA
05/26/99		3.52		22.09	5.16	16.93	21.98	5.02	16.96
08/30/99		5.35		22.09	6.15	15.94	21.98	6.47	15.51
09/29/99		NG		22.09	NG	NA	21.98	NG	NA
11/29/99		5.36		22.09	6.01	16.08	21.98	NG	NA
03/14/00		4.50		22.09	5.22	16.87	21.98	NG	NA
06/06/00		3.98		22.09	5.36	16.73	21.98	5.15	16.83

NG = Not Gauged; NI = Not Installed

Date	ERM-8			ERM-9			ERM-10		
	Well Casing Elevation	Depth to Groundwater/ Product	Groundwater Elevation	Well Casing Elevation	Depth to Groundwater/ Product	Groundwater Elevation	Well Casing Elevation	Depth to Groundwater/ Product	Groundwater Elevation
09/16/96		NG			NG			NG	
10/16/96		NG			NG			NG	
11/18/96		NG			NG			NG	
12/16/96		NG			NG			NG	
02/17/97		NG			NG			NG	
03/27/97		NG			NG			NG	
04/15/97		NG			NG			NG	
04/17/97		NG			NG			NG	
04/24/97		NG			NG			NG	
05/21/97		NG			NG			NG	
08/28/97		NG			NG			NG	
11/20/97		NG			NG			NG	
02/12/98		NG			NG			NG	
05/12/98		NG			NG			NG	
08/19/98		NG			NG			NG	
11/19/98		NG			NG			NG	
02/18/99		NG			NG			NG	
05/26/99		NG			NG			NG	
08/30/99		NG			NG			NG	
09/29/99		NG			NG			NG	
11/29/99		NG			NG			NG	
03/14/00		NG			NG			NG	
06/06/00		NG			NG			NG	

NG = Not Gauged; NI = Not Installed

Date	ERM-11 Well Casing Elevation	ERM-11 Depth to Groundwater/ Product	ERM-11 Groundwater Elevation	ERM-12 Well Casing Elevation	ERM-12 Depth to Groundwater/ Product	ERM-12 Groundwater Elevation	ERM-13 Well Casing Elevation	ERM-13 Depth to Groundwater/ Product	ERM-13 Groundwater Elevation
09/16/96	23.19	NG	NA	23.16	8.38	14.78	26.01	7.01	19.00
10/16/96	23.19	6.4	16.79	23.16	8.13	15.03	26.01	7.15	18.86
11/18/96	23.19	6.36	16.83	23.16	8.09	15.07	26.01	7.13	18.88
12/16/96	23.19	5.02	18.17	23.16	7.83	15.33	26.01	6.55	19.46
02/17/97	23.19	4.89	18.30	23.16	7.65	15.51	26.01	6.03	19.98
03/27/97	23.19	5.19	18.00	23.16	7.63	15.53	26.01	5.98	20.03
04/15/97	23.19	NG	NA	23.16	NG	NA	26.01	5.86	20.15
04/17/97	23.19	NG	NA	23.16	NG	NA	26.01	NG	NA
04/24/97	23.19	NG	NA	23.16	NG	NA	26.01	NG	NA
05/21/97	23.19	6.27	16.92	23.16	7.81/7.80	15.35	26.01	6.15	19.86
08/28/97	23.19	7.65	15.54	23.16	NG	NA	26.01	7.24	18.77
11/20/97	23.19	6.89	16.30	23.16	8.23	14.93	26.01	7.84	18.17
02/12/98	23.19	5.04	18.15	23.16	7.99	15.17	26.01	6.71	19.30
05/12/98	23.19	4.39	18.80	23.16	7.90	15.26	26.01	5.23	20.78
08/19/98	23.19	7.56	15.63	23.16	8.34/sheen	14.82	26.01	6.51	19.50
11/19/98	23.19	7.65	15.54	23.16	8.22	14.94	26.01	8.06	17.95
02/18/99	23.19	NG	NG	23.16	8.37	14.79	26.01	NG	NG
05/26/99	23.19	6.92	16.27	23.16	9.02/sheen	14.14	26.01	6.88	19.13
08/30/99	23.19	8.30	14.89	23.16	8.54	14.62	26.01	8.10	17.91
09/29/99	23.19	NG	NA	23.16	8.16/sheen	15.00	26.01	NG	NA
11/29/99	23.19	NG	NA	23.16	8.10	15.06	26.01	NG	NA
03/14/00	23.19	NG	NA	23.16	NG	NA	26.01	NG	NA
06/06/00	23.19	NG	NA	23.16	NG	NA	26.01	6.44	19.57

Date	ERM-14			ERM-15			ERM-16		
	Well Casing Elevation	Depth to Groundwater/ Product	Groundwater Elevation	Well Casing Elevation	Depth to Groundwater/ Product	Groundwater Elevation	Well Casing Elevation	Depth to Groundwater/ Product	Groundwater Elevation
09/16/96	25.56	6.89	18.67		4.30			8.51	
10/16/96	25.56	6.92	18.64		3.94			8.49	
11/18/96	25.56	7.10/6.91	18.61		4.03			8.43	
12/16/96	25.56	6.35	19.21		NG			7.8	
02/17/97	25.56	5.89	19.67		NG			7.85	
03/27/97	25.56	5.82	19.74		NG			7.79	
04/15/97	25.56	5.7	19.86		3.39			7.84	
04/17/97	25.56	5.66	19.90		3.31			NG	
04/24/97	25.56	NG	NA		NG			NG	
05/21/97	25.56	6.04/5.99	19.56		NG			8.16	
08/28/97	25.56	7.24/7.01	18.49		NG			8.63/sheen	
11/20/97	25.56	7.63	17.93		4.46			8.77	
02/12/98	25.56	6.59	18.97		3.54			8.18	
05/12/98	25.56	5.09	20.47		2.63			7.32	
08/19/98	25.56	6.37/sheen	19.19		4.02			8.79/8.75	
11/19/98	25.56	7.80	17.76		4.59			9.03/9.00	
02/18/99	25.56	7.47	18.09		4.29			8.00	
05/26/99	25.56	6.62	18.94		3.47			8.58/sheen	
08/30/99	25.56	7.73	17.83		5.26			9.31/9.28	
09/29/99	25.56	7.69	17.87		NG			8.86/sheen	
11/29/99	25.56	7.82	17.74		5.29			8.89/sheen	
03/14/00	25.56	6.81	18.75		4.18			8.04	
06/06/00	25.56	6.16	19.40		3.84			8.20	

NG = Not Gauged; NI = Not Installed

Date	ERM-17			ERM-18			ERM-19		
	Well Casing Elevation	Depth to Groundwater/ Product	Groundwater Elevation	Well Casing Elevation	Depth to Groundwater/ Product	Groundwater Elevation	Well Casing Elevation	Depth to Groundwater/ Product	Groundwater Elevation
09/16/96		5.62			3.65		22.42	5.28	17.14
10/16/96		5.56			3.96		22.42	5.17	17.25
11/18/96		5.53			NG		22.42	5.19	17.23
12/16/96		3.73			NG		22.42	4.23	18.19
02/17/97		4.53			NG		22.42	4.18	18.24
03/27/97		4.87			NG		22.42	4.06	18.36
04/15/97		4.84			NG		22.42	NG	NA
04/17/97		4.67			NG		22.42	3.91	18.51
04/24/97		NG			NG		22.42	NG	NA
05/21/97		5.26			NG		22.42	4.46	17.96
08/28/97		5.77			NG		22.42	5.41	17.01
11/20/97		5.77			NG		22.42	5.79	16.63
02/12/98		5.14			NG		22.42	4.44	17.98
05/12/98		2.98			NG		22.42	3.43	18.99
08/19/98		5.83			NG		22.42	5.11	17.31
11/19/98		6.05			NG		22.42	6.29	16.13
02/18/99		NG			NG		22.42	NG	NA
05/26/99		5.20			NG		22.42	5.06	17.36
08/30/99		6.21			NG		22.42	6.21	16.21
09/29/99		NG			NG		22.42	NG	NA
11/29/99		NG			NG		22.42	NG	NA
03/14/00		NG			NG		22.42	NG	NA
06/06/00		5.33			NG		22.42	4.90	17.52

NG = Not Gauged; NI = Not Installed

Date	FD-1			FD-2			FD-3		
	Well Casing Elevation	Depth to Groundwater/ Product	Groundwater Elevation	Well Casing Elevation	Depth to Groundwater/ Product	Groundwater Elevation	Well Casing Elevation	Depth to Groundwater/ Product	Groundwater Elevation
09/16/96	NI	NI	NI	NI	NI	NI	NI	NI	NI
10/16/96	NI	NI	NI	NI	NI	NI	NI	NI	NI
11/18/96	NI	NI	NI	NI	NI	NI	NI	NI	NI
12/16/96	NI	NI	NI	NI	NI	NI	NI	NI	NI
02/17/97	NI	NI	NI	NI	NI	NI	NI	NI	NI
03/27/97	NI	NI	NI	NI	NI	NI	NI	NI	NI
04/15/97	NI	NI	NI	NI	NI	NI	NI	NI	NI
04/17/97	NI	NI	NI	NI	NI	NI	NI	NI	NI
04/24/97	NI	NI	NI	NI	NI	NI	NI	NI	NI
05/21/97	NI	NI	NI	NI	NI	NI	NI	NI	NI
08/28/97	NI	NI	NI	NI	NI	NI	NI	NI	NI
11/20/97	NI	NI	NI	NI	NI	NI	NI	NI	NI
02/12/98	NI	NI	NI	NI	NI	NI	NI	NI	NI
05/12/98	NI	NI	NI	NI	NI	NI	NI	NI	NI
08/19/98	NI	NI	NI	NI	NI	NI	NI	NI	NI
11/19/98	NI	NI	NI	NI	NI	NI	NI	NI	NI
02/18/99	NI	NI	NI	NI	NI	NI	NI	NI	NI
05/26/99	14.80	8.05	6.75	14.76	8.26	6.50	14.20	8.43	5.77
08/30/99	14.80	8.52	6.28	14.76	8.74	6.02	14.20	8.58	5.62
09/30/99	14.80	NG	NA	14.76	NG	NA	14.20	NG	NA
11/29/99	14.80	8.38	6.42	14.76	8.63	6.13	14.20	8.82	5.38
03/14/00	14.80	7.73	7.07	14.76	7.88	6.88	14.20	8.71	5.49
06/06/00	14.80	6.83	7.97	14.76	7.12	7.64	14.20	7.78	6.42

NG = Not Gauged; NI = Not Installed

Date	MW-4			MW-6			NEX-1		
	Well Casing Elevation	Depth to Groundwater/ Product	Groundwater Elevation	Well Casing Elevation	Depth to Groundwater/ Product	Groundwater Elevation	Well Casing Elevation	Depth to Groundwater/ Product	Groundwater Elevation
09/16/96		NG			NG		24.16	NG	NA
10/16/96		NG			NG		24.16	NG	NA
11/18/96		NG			NG		24.16	NG	NA
12/16/96		NG			NG		24.16	NG	NA
02/17/97		NG			NG		24.16	NG	NA
03/27/97		4.91			4.49		24.16	5.81	18.35
04/15/97		NG			NG		24.16	5.74	18.42
04/17/97		NG			NG		24.16	NG	NA
04/24/97		NG			NG		24.16	NG	NA
05/21/97		NG			4.85		24.16	5.80	18.36
08/28/97		NG			5.34		24.16	6.15	18.01
11/20/97		NG			5.33		24.16	6.45	17.71
02/12/98		NG			4.92		24.16	5.28	18.88
05/12/98		4.16			3.74		24.16	5.20	18.96
08/19/98		NG			5.41		24.16	5.99	18.17
11/19/98		6.99			5.64		24.16	6.31	17.85
02/18/99		6.12			4.72		24.16	NG	NA
05/26/99		6.02			4.83		24.16	6.42	17.74
08/30/99		7.21			5.80		24.16	6.64	17.52
09/29/99		NG			NG		24.16	NG	NA
11/29/99		7.20			5.48		24.16	NG	NA
03/14/00		6.28			5.22		24.16	NG	NA
06/06/00		5.40			4.80		24.16	NG	NA

NG = Not Gauged; NI = Not Installed

Date	OBG-1			OBG-2			OBG-4		
	Well Casing Elevation	Depth to Groundwater/ Product	Groundwater Elevation	Well Casing Elevation	Depth to Groundwater/ Product	Groundwater Elevation	Well Casing Elevation	Depth to Groundwater/ Product	Groundwater Elevation
09/16/96		NG		25.36	NG	NA	25.22	NG	NA
10/16/96		NG		25.36	NG	NA	25.22	NG	NA
11/18/96		NG		25.36	NG	NA	25.22	NG	NA
12/16/96		NG		25.36	NG	NA	25.22	NG	NA
02/17/97		NG		25.36	NG	NA	25.22	NG	NA
03/27/97		8.12		25.36	7.95	17.41	25.22	7.75	17.47
04/15/97		NG		25.36	7.92	17.44	25.22	7.75	17.47
04/17/97		NG		25.36	7.91	17.45	25.22	7.78	17.44
04/24/97		NG		25.36	NG	NA	25.22	7.74	17.48
05/21/97		7.98		25.36	7.81	17.55	25.22	7.64	17.58
08/28/97		8.22		25.36	8.03	17.33	25.22	7.9	17.32
11/20/97		8.43		25.36	8.23	17.13	25.22	8.07	17.15
02/12/98		8.19		25.36	8.01	17.35	25.22	7.84	17.38
05/12/98		7.88/7.87		25.36	7.71	17.65	25.22	7.51	17.71
08/19/98		8.13		25.36	7.94	17.42	25.22	7.76	17.46
11/19/98		8.21		25.36	8.03	17.33	25.22	7.91	17.31
02/18/99		7.97		25.36	7.78	17.58	25.22	7.26	17.96
05/26/99		8.35		25.36	8.17	17.19	25.22	8.05	17.17
08/30/99		8.58		25.36	8.74	16.62	25.22	8.48	16.74
09/29/99		6.48		25.36	NG	NA	25.22	NG	NA
11/29/99		8.61		25.36	8.81	16.55	25.22	8.51	16.71
03/14/00		7.72		25.36	7.94	17.42	25.22	7.63	17.59
06/06/00		6.95		25.36	7.19	18.17	25.22	NG	NA

NG = Not Gauged; NI = Not Installed

Date	OBG-6			OBG-7			OBG-8		
	Well Casing Elevation	Depth to Groundwater/ Product	Groundwater Elevation	Well Casing Elevation	Depth to Groundwater/ Product	Groundwater Elevation	Well Casing Elevation	Depth to Groundwater/ Product	Groundwater Elevation
09/16/96	24.76	NG	NA	25.47	NG	NA	24.87	NG	NA
10/16/96	24.76	NG	NA	25.47	NG	NA	24.87	NG	NA
11/18/96	24.76	NG	NA	25.47	NG	NA	24.87	NG	NA
12/16/96	24.76	NG	NA	25.47	NG	NA	24.87	NG	NA
02/17/97	24.76	NG	NA	25.47	NG	NA	24.87	NG	NA
03/27/97	24.76	7.95	16.81	25.47	5.61	19.86	24.87	NG	NA
04/15/97	24.76	NG	NA	25.47	NG	NA	24.87	NG	NA
04/17/97	24.76	NG	NA	25.47	NG	NA	24.87	NG	NA
04/24/97	24.76	NG	NA	25.47	NG	NA	24.87	NG	NA
05/21/97	24.76	NG	NA	25.47	5.79	19.68	24.87	5.60	19.27
08/28/97	24.76	NG	NA	25.47	6.49	18.98	24.87	NG	NA
11/20/97	24.76	NG	NA	25.47	7.09	18.38	24.87	NG	NA
02/12/98	24.76	NG	NA	25.47	5.84	19.63	24.87	NG	NA
05/12/98	24.76	NG	NA	25.47	4.56	20.91	24.87	NG	NA
08/19/98	24.76	NG	NA	25.47	5.83	19.64	24.87	NG	NA
11/19/98	24.76	NG	NA	25.47	7.22	18.25	24.87	NG	NA
02/18/99	24.76	NG	NG	25.47	NG	NG	24.87	NG	NG
05/26/99	24.76	NG	NG	25.47	6.04	19.43	24.87	NG	NG
08/30/99	24.76	NG	NG	25.47	7.66	17.81	24.87	NG	NG
09/29/99	24.76	NG	NG	25.47	NG	NG	24.87	NG	NG
11/29/99	24.76	NG	NG	25.47	NG	NG	24.87	NG	NG
03/14/00	24.76	NG	NG	25.47	NG	NG	24.87	NG	NG
06/06/00	24.76	NG	NG	25.47	6.01	19.46	24.87	5.45	19.42

Date	OBG-9			VEA-4			VEA-7		
	Well Casing Elevation	Depth to Groundwater/ Product	Groundwater Elevation	Well Casing Elevation	Depth to Groundwater/ Product	Groundwater Elevation	Well Casing Elevation	Depth to Groundwater/ Product	Groundwater Elevation
09/16/96	24.93	NG	NA		NG			NG	
10/16/96	24.93	NG	NA		NG			NG	
11/18/96	24.93	NG	NA		NG			NG	
12/16/96	24.93	NG	NA		NG			NG	
02/17/97	24.93	NG	NA		NG			NG	
03/27/97	24.93	5.54	19.39		NG			NG	
04/15/97	24.93	5.54	19.39		NG			NG	
04/17/97	24.93	5.58	19.35		NG			NG	
04/24/97	24.93	NG	NA		NG			NG	
05/21/97	24.93	5.84/5.31	19.49		NG			NG	
08/28/97	24.93	6.56/6.45	18.45		NG			NG	
11/20/97	24.93	7.06	17.87		NG			NG	
02/12/98	24.93	NG	NA		NG			NG	
05/12/98	24.93	4.60/4.58	20.35		NG			NG	
08/19/98	24.93	5.81	19.12		NG			NG	
11/19/98	24.93	7.34	17.59		NG			NG	
02/18/99	24.93	6.36	18.57		NG			NG	
05/26/99	24.93	6.05	18.88	3.25	2.73	0.52		NG	
08/30/99	24.93	7.28	17.65	3.25	DRY	NA		DRY	
09/29/99	24.93	7.19	17.74	3.25	NG			NG	
11/29/99	24.93	7.40	17.53	3.25	3.20	0.05		NG	
03/14/00	24.93	6.36	18.57	3.25	2.56	0.69		2.81	
06/06/00	24.93	5.45	19.48	3.25	NG	NA		NG	

NG = Not Gauged; NI = Not Installed

Date	VEA-14			VEB-6		
	Well Casing Elevation	Depth to Groundwater/ Product	Groundwater Elevation	Well Casing Elevation	Depth to Groundwater/ Product	Groundwater Elevation
09/16/96		NG			NG	
10/16/96		NG			NG	
11/18/96		NG			NG	
12/16/96		NG			NG	
02/17/97		NG			NG	
03/27/97		NG			NG	
04/15/97		NG			NG	
04/17/97		NG			NG	
04/24/97		NG			NG	
05/21/97		NG			NG	
08/28/97		NG			NG	
11/20/97		NG			NG	
02/12/98		NG			NG	
05/12/98		NG			NG	
08/19/98		NG			NG	
11/19/98		NG			NG	
02/18/99		NG			NG	
05/26/99	7.07	4.46	2.61		DRY	
08/30/99	7.07	5.65	1.42		DRY	
09/29/99	7.07	NG	7.07		NG	
11/29/99	7.07	5.77	1.30		DRY	
03/14/00	7.07	4.45	2.62		NG	
06/06/00	7.07	4.09	2.98		NG	

ATTACHMENT 5

HISTORICAL GROUNDWATER SAMPLING RESULTS

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

(analytical results in µg/l)

Compound		BTEX				MTBE	TPH (By EPA Method 418.1)[1]	Total Volatiles (by EPA Method 8010/8020)[2]	DRO	GRO
		Benzene	Toluene	Ethylbenzene	Xylenes					
Remediation Standard		1.0	1,000	700	530	100	500	NA	NA	NA
Well	Date									
DM-1	3/95	<1.0	<1.0	<1.0	<1.0	<2.0	<473	NS	NS	NS
	5/96	<1.0	<1.0	<1.0	<1.0	4.0	<473	NS	NS	NS
	11/96	<1.0	<1.0	<1.0	<1.0	<1.0	<1,000	<1.0	1,000	<500
	2/97	NS	NS	NS	NS	NS	NS	NS	NS	NS
	5/97	<1.0	<1.0	<1.0	<1.0	<1.0	<500	<1.0	<500	<500
	8/97	NS	NS	NS	NS	NS	NS	NS	NS	NS
	11/97	<1.0	<1.0	<1.0	<1.0	<1.0	<500	<1.0	NS	NS
	2/98	<1.0	<1.0	<1.0	<1.0	<1.0	<500	<1.0	NS	NS
	5/98	<1.0	3.0	<1.0	3.0	<1.0	<500	6.0	NS	NS
	8/98	<1.0	<1.0	<1.0	<1.0	3.0	<500	3.0	NS	NS
	11/98	<1.0	<1.0	<1.0	2.0	3.0	<400	5.0	NS	NS
	2/99	<1.0	<1.0	<1.0	<1.0	1.0	<400	1.0	NS	NS
	5/99	<1.0	<1.0	<1.0	<1.0	1.0	<400	1.0	NS	NS
	8/99	<1.0	<1.0	<1.0	<1.0	<1.0	<400	<1.0	NS	NS
	11/99	<1.0	<1.0	<1.0	4.0	4.0	<400	8.0	NS	NS
	3/00	<1.0	<1.0	<1.0	<1.0	<5.0	<200	<5.0	NS	NS
	6/00	<1.0	<1.0	<1.0	<1.0	<5.0	<200	<5.0	NS	NS

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

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

(analytical results in µg/l)

Compound		BTEX				MTBE	TPH (By EPA Method 418.1)[1]	Total Volatiles (by EPA Method 8010/8020)[2]	DRO	GRO
		Benzene	Toluene	Ethylbenzene	Xylenes					
Remediation Standard		1.0	1,000	700	530	100	500	NA	NA	NA
Well	Date									
DM-2	3/95	<1.0	<1.0	<1.0	<1.0	<2.0	<473	NS	NS	NS
	5/96	<1.0	<1.0	<1.0	<1.0	4.0	<473	NS	NS	NS
	11/96	NS	NS	NS	NS	NS	NS	NS	NS	NS
	2/97	NS	NS	NS	NS	NS	NS	NS	NS	NS
	5/97	<1.0	<1.0	<1.0	<1.0	<1.0	<500	<1.0	<500	<500
	8/97	NS	NS	NS	NS	NS	NS	NS	NS	NS
	11/97	<1.0	<1.0	<1.0	<1.0	8.0	<500	8.0	NS	NS
	2/98	<1.0	<1.0	<1.0	<1.0	5.0	<500	5.0	NS	NS
	5/98	<1.0	<1.0	<1.0	<1.0	2.0	**1,500**	2.0	NS	NS
	8/98	<1.0	<1.0	<1.0	<1.0	19	<500	19	NS	NS
	11/98	<1.0	<1.0	<1.0	<1.0	9.0	<400	9.0	NS	NS
	2/99	<1.0	<1.0	<1.0	<1.0	4.0	<400	4.0	NS	NS
	5/99	<1.0	<1.0	<1.0	<1.0	3.0	<400	3.0	NS	NS
	8/99	<1.0	<1.0	<1.0	<1.0	6.0	<400	6.0	NS	NS
	11/99	<1.0	<1.0	<1.0	<1.0	4.0	<400	4.0	NS	NS
	3/00	<1.0	<1.0	<1.0	<1.0	<5.0	400	<5.0	NS	NS
	6/00	<1.0	<1.0	<1.0	<1.0	<5.0	<200	<5.0	NS	NS

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

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

(analytical results in µg/l)

Compound		BTEX				MTBE	TPH (By EPA Method 418.1)[1]	Total Volatiles (by EPA Method 8010/8020)[2]	DRO	GRO
		Benzene	Toluene	Ethylbenzene	Xylenes					
Remediation Standard		1.0	1,000	700	530	100	500	NA	NA	NA
Well	Date									
DM-3	3/95	<1.0	<1.0	<1.0	<1.0	7.9	<473	NS	NS	NS
	5/96	<1.0	<1.0	<1.0	<1.0	<2.0	<473	NS	NS	NS
	11/96	<1.0	<1.0	<1.0	<1.0	<1.0	<1,000	7.0	<500	<500
	2/97	NS	NS	NS	NS	NS	NS	NS	NS	NS
	5/97	<1.0	<1.0	<1.0	<1.0	<1.0	<500	<1.0	<500	<500
	8/97	NS	NS	NS	NS	NS	NS	NS	NS	NS
	11/97	<1.0	<1.0	<1.0	<1.0	<1.0	<500	<1.0	NS	NS
	2/98	<1.0	<1.0	<1.0	<1.0	<1.0	<500	<1.0	NS	NS
	5/98	<1.0	<1.0	<1.0	<1.0	<1.0	<500	<1.0	NS	NS
	8/98	<1.0	<1.0	<1.0	<1.0	1.0	<500	1.0	NS	NS
	11/98	<1.0	<1.0	<1.0	<1.0	2.0	<400	2.0	NS	NS
	2/99	<1.0	<1.0	<1.0	<1.0	<1.0	<400	<1.0	NS	NS
	5/99	<1.0	<1.0	<1.0	<1.0	<1.0	<400	<1.0	NS	NS
	8/99	<1.0	<1.0	<1.0	<1.0	<1.0	NA	<1.0	NS	NS
	11/99	<1.0	<1.0	<1.0	<1.0	1.0	<400	1.0	NS	NS
	3/00	<1.0	<1.0	<1.0	<1.0	<5.0	400	<5.0	NS	NS
	6/00	<1.0	<1.0	<1.0	<1.0	<5.0	<200	<5.0	NS	NS

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

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

(analytical results in µg/l)

Compound		BTEX				MTBE	TPH (By EPA Method 418.1)[1]	Total Volatiles (by EPA Method 8010/8020)[2]	DRO	GRO
		Benzene	Toluene	Ethylbenzene	Xylenes					
Remediation Standard		1.0	1,000	700	530	100	500	NA	NA	NA
Well	Date									
DM-4	3/95	<1.0	<1.0	<1.0	<1.0	<2.0	<473	NS	NS	NS
	5/96	<1.0	<1.0	<1.0	<1.0	<2.0	<473	NS	NS	NS
	11/96	<1.0	<1.0	<1.0	<1.0	<1.0	<1,000	5.0	600	<500
	2/97	NS	NS	NS	NS	NS	NS	NS	NS	NS
	5/97	<1.0	<1.0	<1.0	<1.0	<1.0	<500	<1.0	<500	<500
	8/97	NS	NS	NS	NS	NS	NS	NS	NS	NS
	11/97	**2.0**	<1.0	<1.0	<1.0	3.0	<500	5.0	NS	NS
	2/98	<1.0	<1.0	<1.0	<1.0	<1.0	**800**	<1.0	NS	NS
	5/98	<1.0	<1.0	<1.0	<1.0	<1.0	**700**	<1.0	NS	NS
	8/98	<1.0	<1.0	<1.0	<1.0	<1.0	<500	<1.0	NS	NS
	11/98	<1.0	4.0	1.0	5.0	<1.0	**600**	10	NS	NS
	2/99	<1.0	3.0	<1.0	<1.0	1.0	<400	4.0	NS	NS
	5/99	<1.0	<1.0	<1.0	<1.0	<1.0	**500**	<1.0	NS	NS
	8/99	<1.0	<1.0	<1.0	<1.0	<1.0	400	<1.0	NS	NS
	11/99	<1.0	2.0	<1.0	8.0	<1.0	**800**	10.0	NS	NS
	3/00	<1.0	<1.0	<1.0	<1.0	9.0	**1,700**	9.0	NS	NS
	6/00	<1.0	<1.0	<1.0	<1.0	<5.0	<200	<5.0	NS	NS

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

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

(analytical results in µg/l)

Compound		BTEX				MTBE	TPH (By EPA Method 418.1)[1]	Total Volatiles (by EPA Method 8010/8020)[2]	DRO	GRO
		Benzene	Toluene	Ethylbenzene	Xylenes					
Remediation Standard		1.0	1,000	700	530	100	500	NA	NA	NA
Well	Date									
DM-5	3/95	<1.0	<1.0	<1.0	<1.0	<2.0	<473	NS	NS	NS
	5/96	<1.0	<1.0	<1.0	<1.0	<2.0	<473	NS	NS	NS
	11/96	<1.0	<1.0	<1.0	<1.0	<1.0	<1,000	6.0	<500	<500
	2/97	NS	NS	NS	NS	NS	NS	NS	NS	NS
	5/97	<1.0	<1.0	<1.0	<1.0	<1.0	<500	<1.0	<500	<500
	8/97	NS	NS	NS	NS	NS	NS	NS	NS	NS
	11/97	<1.0	<1.0	<1.0	<1.0	<1.0	<500	<1.0	NS	NS
	2/98	<1.0	<1.0	<1.0	<1.0	<1.0	**700**	<1.0	NS	NS
	5/98	<1.0	<1.0	<1.0	<1.0	<1.0	**1,200**	<1.0	NS	NS
	8/98	<1.0	<1.0	<1.0	<1.0	<1.0	<500	<1.0	NS	NS
	11/98	<1.0	1.0	<1.0	<1.0	2.0	<400	3.0	NS	NS
	2/99	<1.0	3.0	<1.0	<1.0	<1.0	<400	3.0	NS	NS
	5/99	<1.0	<1.0	<1.0	<1.0	<1.0	<400	<1.0	NS	NS
	8/99	<1.0	<1.0	<1.0	<1.0	<1.0	<400	<1.0	NS	NS
	11/99	<1.0	<1.0	2.0	9.0	<1.0	<400	11.0	NS	NS
	3/00	<1.0	<1.0	<1.0	<1.0	<5.0	<200	<5.0	NS	NS
	6/00	<1.0	<1.0	<1.0	<1.0	<5.0	<200	9.0	NS	NS

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NS = Not sampled (NS results have been shaded)
Bold numbers indicate an exceedance of State of CT Clean-up Standards
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DRO=Diesel Range Organics, **GRO**=Gasoline Range Organics
[1] = Beginning 5/98, TPH was analyzed using EPA Method 8100M
[2] = Beginning 5/98, Total Volatiles (BTEX and MTBE only) were analyzed using EPA Method 8021B

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

(analytical results in µg/l)

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

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

(analytical results in µg/l)

Compound		BTEX				MTBE	TPH (By EPA Method 418.1)[1]	Total Volatiles (by EPA Method 8010/8020)[2]	DRO	GRO
		Benzene	Toluene	Ethylbenzene	Xylenes					
Remediation Standard		1.0	1,000	700	530	100	500	NA	NA	NA
Well	Date									
HRP-11	3/95	<1.0	<1.0	<1.0	<1.0	<2.0	<473	NS	NS	NS
	5/96	1.0	<1.0	<1.0	3.0	<2.0	<473	NS	NS	NS
	11/96	NS	NS	NS	NS	NS	NS	NS	NS	NS
	2/97	NS	NS	NS	NS	NS	NS	NS	NS	NS
	5/97	<1.0	<1.0	<1.0	<1.0	<1.0	<500	<1.0	<500	<500
	8/97	<1.0	<1.0	<1.0	<1.0	<1.0	<500	<1.0	<500	<500
	11/97	<1.0	<1.0	<1.0	<1.0	<1.0	<500	<1.0	NS	NS
	2/98	<1.0	<1.0	<1.0	<1.0	<1.0	500	<1.0	NS	NS
	5/98	<1.0	<1.0	<1.0	<1.0	<1.0	<500	<1.0	NS	NS
	8/98	<1.0	<1.0	<1.0	<1.0	<1.0	<500	<1.0	NS	NS
	11/98	<1.0	<1.0	<1.0	<1.0	<1.0	<400	<1.0	NS	NS
	2/99	<1.0	3.0	<1.0	<1.0	<1.0	<400	3.0	NS	NS
	5/99	<1.0	<1.0	<1.0	<1.0	1.0	<400	1.0	NS	NS
	8/99	<1.0	<1.0	<1.0	<1.0	<1.0	<400	<1.0	NS	NS
	11/99	<1.0	<1.0	<1.0	<1.0	<1.0	<400	<1.0	NS	NS
	3/00	<1.0	<1.0	<1.0	<1.0	<5.0	<200	<5.0	NS	NS
	6/00	<1.0	<1.0	<1.0	<1.0	9.0	<200	9.0	NS	NS

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

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

(analytical results in µg/l)

Compound		BTEX				MTBE	TPH (By EPA Method 418.1)[1]	Total Volatiles (by EPA Method 8010/8020)[2]	DRO	GRO
		Benzene	Toluene	Ethylbenzene	Xylenes					
Remediation Standard		1.0	1,000	700	530	100	500	NA	NA	NA
Well	Date									
MW-1	11/96	**3.0**	<1.0	5.0	<1.0	<1.0	<1,000	11	1,000	<500
	2/97	<1.0	<1.0	4.0	<1.0	<1.0	<500	4.0	<500	600
	5/97	<1.0	<1.0	4.0	<1.0	<1.0	<500	6.0	700	760
	8/97	<1.0	<1.0	16	2B	<1.0	**1,000**	18	800	600
	11/97	**2.0**	<1.0	9.0	<1.0	<1.0	<500	11	NS	NS
	2/98	<1.0	1.0	4.0	<1.0	<1.0	**800**	5.0	NS	NS
	5/98	<1.0	<1.0	<1.0	<1.0	<1.0	<500	<1.0	NS	NS
	8/98	**3.0**	<1.0	1.0	<1.0	<1.0	<500	4.0	NS	NS
	11/98	**4.0**	1.0	1.0	1.0	<1.0	**600**	7.0	NS	NS
	2/99	<1.0	<1.0	<1.0	<1.0	<1.0	<400	<1.0	NS	NS
	5/99	<1.0	<1.0	<1.0	<1.0	<1.0	<400	<1.0	NS	NS
	8/99	<1.0	<1.0	<1.0	<1.0	<1.0	**800**	<1.0	NS	NS
	11/99	<1.0	<1.0	<1.0	<1.0	<1.0	<400	<1.0	NS	NS
	3/00	<1.0	<1.0	<1.0	<1.0	<5.0	300	<5.0	NS	NS
	6/00	<1.0	<1.0	<1.0	<1.0	<5.0	**500**	9.0	NS	NS

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

(analytical results in µg/l)

Compound		BTEX				MTBE	TPH (By EPA Method 418.1)[1]	Total Volatiles (by EPA Method 8010/8020)[2]	DRO	GRO
		Benzene	Toluene	Ethylbenzene	Xylenes					
Remediation Standard		1.0	1,000	700	530	100	500	NA	NA	NA
Well	Date									
MW-2	11/96	**4.0**	<1.0	14	<1.0	4.0	<1,000	28	1,200	<500
	2/97	<1.0	<1.0	<1.0	<1.0	<1.0	**1,000**	1.0 B	1,200	1,200
	5/97	<1.0	<1.0	3.0	<1.0	<1.0	<500	3.0	500	580
	8/97	<1.0	<1.0	<1.0	<1.0	<1.0	<500	<1.0	<500	<500
	11/97	**2.0**	<1.0	3.0	1.0	3.0	<500	9.0	NS	NS
	2/98	**2.0**	1.0	6.0	<1.0	<1.0	**700**	9.0	NS	NS
	5/98	<1.0	<1.0	<1.0	<1.0	3.0	**500**	3.0	NS	NS
	8/98	<1.0	<1.0	<1.0	2.0	1.0	<500	3.0	NS	NS
	11/98	**2.0**	2.0	<1.0	2.0	4.0	<400	10	NS	NS
	2/99	<1.0	<1.0	2.0	1.0	4.0	**700**	7.0	NS	NS
	5/99	<1.0	<1.0	<1.0	<1.0	<1.0	**500**	<1.0	NS	NS
	8/99	<1.0	<1.0	3.0	7.0	<1.0	**500**	10	NS	NS
	11/99	**1.0**	<1.0	<1.0	2.0	4.0	**700**	7.0	NS	NS
	3/00	<1.0	<1.0	1.0	1.0	<5.0	400	2.0	NS	NS
	6/00	<1.0	<1.0	<1.0	<1.0	<5.0	400	9.0	NS	NS

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

(analytical results in µg/l)

Compound		BTEX				MTBE	TPH (By EPA Method 418.1)[1]	Total Volatiles (by EPA Method 8010/8020)[2]	DRO	GRO
		Benzene	Toluene	Ethylbenzene	Xylenes					
Remediation Standard		1.0	1,000	700	530	100	500	NA	NA	NA
Well	Date									
MW-3	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

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Naval Submarine Base, Groton, CT

(analytical results in µg/l)

Compound		BTEX				MTBE	TPH (By EPA Method 418.1)[1]	Total Volatiles (by EPA Method 8010/8020)[2]	DRO	GRO
		Benzene	Toluene	Ethylbenzene	Xylenes					
Remediation Standard		1.0	1,000	700	530	100	500	NA	NA	NA
Well	Date									
OBG-8A	3/95	**72**	24.6	25.9	62.4	9.29	<473	NS	NS	NS
	5/96	**12.0**	<1.0	9.0	4.0	<2.0	<473	NS	NS	NS
	11/96	NS	NS	NS	NS	NS	NS	NS	NS	NS
	2/97	NS	NS	NS	NS	NS	NS	NS	NS	NS
	5/97	NS	NS	NS	NS	NS	NS	NS	NS	NS
	8/97	NS	NS	NS	NS	NS	NS	NS	NS	NS
	11/97	**3.0**	25	5.0	5.0	<1.0	<500	38	NS	NS
	2/98	<1.0	<1.0	<1.0	<1.0	<1.0	**9,300**	<1.0	NS	NS
	5/98	<1.0	2.0	<1.0	2.0	<1.0	**3,800**	4.0	NS	NS
	8/98	**2.0**	<1.0	3.0	<1.0	1.0	**2,400**	6.0	NS	NS
	11/98	1.0	<1.0	<1.0	1.0	2.0	**2,300**	4.0	NS	NS
	2/99	<1.0	<1.0	<1.0	<1.0	2.0	**4,400**	2.0	NS	NS
	5/99	**6.0**	<1.0	8.0	<1.0	5.0	**800**	19	NS	NS
	8/99	**7.0**	<1.0	9.0	8.0	<1.0	**3,300**	24	NS	NS
	11/99	**1.0**	<1.0	2.0	2.0	6.0	**1,900**	11	NS	NS
	3/00	**3.0**	<1.0	6.0	<1.0	<5.0	**1,300**	9.0	NS	NS
	6/00	**3.0**	<1.0	<1.0	<1.0	<5.0	**2,400**	9.0	NS	NS

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

(analytical results in µg/l)

Compound		BTEX				MTBE	TPH (By EPA Method 418.1)[1]	Total Volatiles (by EPA Method 8010/8020)[2]	DRO	GRO
		Benzene	Toluene	Ethylbenzene	Xylenes					
Remediation Standard		1.0	1,000	700	530	100	500	NA	NA	NA
Well	Date									
OBG-9A	3/95	<1.0	<1.0	<1.0	<1.0	<2.0	<473	NS	NS	NS
	5/96	<1.0	<1.0	<1.0	<1.0	<2.0	<473	NS	NS	NS
	11/96	NS	NS	NS	NS	NS	NS	NS	NS	NS
	2/97	NS	NS	NS	NS	NS	NS	NS	NS	NS
	5/97	<1.0	<1.0	<1.0	<1.0	<1.0	**3,000**	<1.0	<500	<500
	8/97	<1.0	<1.0	<1.0	<1.0	3.0	**11,000**	3.0	2,200	<500
	11/97	<1.0	<1.0	<1.0	<1.0	<1.0	<500	<1.0	NS	NS
	2/98	<1.0	<1.0	<1.0	<1.0	<1.0	**3,100**	<1.0	NS	NS
	5/98	<1.0	<1.0	<1.0	<1.0	<1.0	**2,100**	<1.0	NS	NS
	8/98	<1.0	<1.0	<1.0	<1.0	3.0	**1,000**	3.0	NS	NS
	11/98	<1.0	<1.0	<1.0	<1.0	3.0	**800**	3.0	NS	NS
	2/99	<1.0	<1.0	<1.0	<1.0	<1.0	**1,300**	<1.0	NS	NS
	5/99	<1.0	<1.0	<1.0	<1.0	1.0	**800**	1.0	NS	NS
	8/99	<1.0	<1.0	<1.0	<1.0	<1.0	**700**	<1.0	NS	NS
	11/99	<1.0	<1.0	<1.0	<1.0	<1.0	**1,000**	<1.0	NS	NS
	3/00	<1.0	<1.0	<1.0	<1.0	<5.0	**4,000**	<5.0	NS	NS
	6/00	<1.0	<1.0	<1.0	<1.0	<5.0	**1,400**	9.0	NS	NS

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[1] = Beginning 5/98, TPH was analyzed using EPA Method 8100M
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Table 1
Historical Groundwater Sampling Results
Dolphin Mart - March 1995 - June 2000
Naval Submarine Base, Groton, CT

(analytical results in µg/l)

Compound		BTEX				MTBE	TPH (By EPA Method 418.1)[1]	Total Volatiles (by EPA Method 8010/8020)[2]	DRO	GRO
		Benzene	Toluene	Ethylbenzene	Xylenes					
Remediation Standard		1.0	1,000	700	530	100	500	NA	NA	NA
Well	Date									
WE-2D(B)	11/96	1.0	<1.0	<1.0	<1.0	<1.0	<1,000	3.0	<500	<500
	2/97	**2.0**	<1.0	<1.0	<1.0	3.0	<500	5.0	<500	<500
	5/97	<1.0	<1.0	<1.0	<1.0	<1.0	<500	<1.0	<500	<500
	8/97	<1.0	<1.0	<1.0	<1.0	4.0	**11,000**	4.0	<500	<500
	11/97	<1.0	<1.0	<1.0	<1.0	<1.0	<500	<1.0	NS	NS
	2/98	<1.0	<1.0	<1.0	<1.0	<1.0	**1,000**	<1.0	NS	NS
	5/98	<1.0	<1.0	<1.0	<1.0	3.0	**1500.0**	3.0	NS	NS
	8/98	**2.0**	<1.0	<1.0	<1.0	5.0	<500	7.0	NS	NS
	11/98	**2.0**	<1.0	<1.0	1.0	3.0	400.0	6.0	NS	NS
	2/99	<1.0	<1.0	<1.0	<1.0	2.0	<400	2.0	NS	NS
	5/99	<1.0	<1.0	<1.0	<1.0	<1.0	<400	<1.0	NS	NS
	8/99	<1.0	<1.0	<1.0	<1.0	<1.0	<400	<1.0	NS	NS
	11/99	<1.0	<1.0	<1.0	<1.0	2.0	<400	2.0	NS	NS
	3/00	<1.0	<1.0	<1.0	<1.0	<5.0	400	<5.0	NS	NS
	6/00	<1.0	<1.0	<1.0	<1.0	<5.0	**600**	<5.0	NS	NS

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

(analytical results in µg/l)

Compound		BTEX				MTBE	TPH (By EPA Method 418.1)[1]	Total Volatiles (by EPA Method 8010/8020)[2]	DRO	GRO
		Benzene	Toluene	Ethylbenzene	Xylenes					
Remediation Standard		1.0	1,000	700	530	100	500	NA	NA	NA
Well	Date									
WE-2S	3/95	**37.9**	24.2	60.3	126.4	21.3	**725**	NS	NS	NS
	5/96	**50**	22	101	144	<10	**1,570**	NS	NS	NS
	11/96	**7.0**	<1.0	9.0	4.0	14	<1,000	34	<500	<500
	2/97	**5.0**	<1.0	14	3.0	10	<500	32	500	600
	5/97	NS	NS	NS	NS	NS	NS	NS	NS	NS
	8/97	NS	NS	NS	NS	NS	NS	NS	NS	NS
	11/97	<1.0	<1.0	<1.0	<1.0	<1.0	<500	<1.0	NS	NS
	2/98	**4.0**	<1.0	<1.0	15	7.0	<500	26	NS	NS
	5/98	**2.0**	<1.0	10	<1.0	7.0	**1,200**	19	NS	NS
	8/98	**2.0**	<1.0	3.0	<1.0	6.0	<500	11	NS	NS
	11/98	<1.0	1.0	<1.0	<1.0	4.0	<400	5.0	NS	NS
	2/99	**2.0**	<1.0	11	5.0	8.0	<400	26	NS	NS
	5/99	**2.0**	2.0	13	1.0	<1.0	<400	18	NS	NS
	8/99	<1.0	<1.0	<1.0	<1.0	<1.0	<400	<1.0	NS	NS
	11/99	<1.0	<1.0	6.0	<1.0	6.0	<400	12	NS	NS
	3/00	**2.0**	<1.0	15	16	<5.0	**700**	33	NS	NS
	6/00	**2.0**	<1.0	12	19	<5.0	**900**	33	NS	NS

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Table 1
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Naval Submarine Base, Groton, CT

(analytical results in µg/l)

Compound		BTEX				MTBE	TPH (By EPA Method 418.1)[1]	Total Volatiles (by EPA Method 8010/8020)[2]	DRO	GRO
		Benzene	Toluene	Ethylbenzene	Xylenes					
Remediation Standard		1.0	1,000	700	530	100	500	NA	NA	NA
Well	Date									
WE-3	3/95	<1.0	<1.0	<1.0	<1.0	8.70	<473	NS	NS	NS
	5/96	**2.0**	<1.0	<1.0	<1.0	14	<473	NS	NS	NS
	11/96	NS	NS	NS	NS	NS	NS	NS	NS	NS
	2/97	<1.0	<1.0	<1.0	<1.0	6.0	<500	6.0	<500	<500
	5/97	<1.0	<1.0	<1.0	<1.0	<1.0	<500	<1.0	<500	<500
	8/97	<1.0	<1.0	<1.0	<1.0	**220**	**3,000**	220	<500	<500
	11/97	<1.0	<1.0	<1.0	<1.0	38	<500	38	NS	NS
	2/98	**2.0**	<1.0	<1.0	<1.0	**160D**	<500	162	NS	NS
	5/98	<1.0	<1.0	<1.0	<1.0	2.0	<500	2.0	NS	NS
	8/98	<1.0	<1.0	<1.0	<1.0	94D	<500	94	NS	NS
	11/98	<1.0	<1.0	<1.0	<1.0	36	500	36	NS	NS
	2/99	<1.0	<1.0	<1.0	<1.0	9.0	<400	9.0	NS	NS
	5/99	<1.0	<1.0	<1.0	<1.0	<1.0	<400	<1.0	NS	NS
	8/99	<1.0	<1.0	<1.0	<1.0	69	<400	69	NS	NS
	11/99	<1.0	<1.0	<1.0	<1.0	20	<400	20	NS	NS
	3/00	<1.0	<1.0	<1.0	<1.0	9.0	<200	9.0	NS	NS
	6/00	<1.0	<1.0	<1.0	<1.0	29	<200	29	NS	NS

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Dolphin Mart - March 1995 - June 2000
Naval Submarine Base, Groton, CT

(analytical results in µg/l)

Compound		BTEX				MTBE	TPH (By EPA Method 418.1)[1]	Total Volatiles (by EPA Method 8010/8020)[2]	DRO	GRO
		Benzene	Toluene	Ethylbenzene	Xylenes					
Remediation Standard		1.0	1,000	700	530	100	500	NA	NA	NA
Well	Date									
WE-4	3/95	**267**	29.8	392	**712**	<40	**5,180**	NS	NS	NS
	5/96	**160**	16	301	**617**	<40	**3,680**	NS	NS	NS
	11/96	**41**	1.0	100	2.0	19	<1,000	166	1,100	500
	2/97	**21**	<1.0	27	1.0	17	<500	66	500	700
	5/97	**13**	<1.0	13	<1.0	19	<500	45	700	540
	8/97	**7.0**	<1.0	19	3B	3B	**700**	44	<500	<500
	11/97	<1.0	<1.0	<1.0	<1.0	<1.0	<500	<1.0	NS	NS
	2/98	<1.0	<1.0	<1.0	<1.0	<1.0	**1,300**	<1.0	NS	NS
	5/98	<1.0	<1.0	<1.0	<1.0	<1.0	**600**	<1.0	NS	NS
	8/98	<1.0	<1.0	<1.0	<1.0	1.0	<500	1.0	NS	NS
	11/98	**5.0**	<1.0	7.0	<1.0	4.0	400	16	NS	NS
	2/99	<1.0	<1.0	<1.0	1.0	<1.0	<400	1.0	NS	NS
	5/99	<1.0	<1.0	<1.0	<1.0	<1.0	<400	<1.0	NS	NS
	8/99	<1.0	<1.0	<1.0	<1.0	8.0	<400	8.0	NS	NS
	11/99	<1.0	<1.0	<1.0	2.0	7.0	<400	9.0	NS	NS
	3/00	<1.0	<1.0	<1.0	<1.0	5.0	400	5.0	NS	NS
	6/00	<1.0	<1.0	<1.0	<1.0	7.0	**600**	7	NS	NS

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DRO=Diesel Range Organics, **GRO**=Gasoline Range Organics
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[2] = Beginning 5/98, Total Volatiles (BTEX and MTBE only) were analyzed using EPA Method 8021B

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

(analytical results in µg/l)

Compound		BTEX				MTBE	TPH (By EPA Method 418.1)[1]	Total Volatiles (by EPA Method 8010/8020)[2]	DRO	GRO
		Benzene	Toluene	Ethylbenzene	Xylenes					
Remediation Standard		1.0	1,000	700	530	100	500	NA	NA	NA
Well	Date									
WE-5	11/96	**240D**	410D	**720D**	**4,300E**	27	**9,000**	5,697	12,000	8,900
	2/97	**42D**	10	89D	490D	6.0	**2,000**	637	2,000	1,200
	5/97	**370**	190	**840**	**3,900D**	<1.0	**4,000**	5,300	11,000	16,000
	8/97	**210D**	<1.0	210D	470DB	63D	**5,000**	953	3,900	2,500
	11/97	**11**	<1.0	2.0	6.0	27	**1,100**	46	NS	NS
	2/98	**11**	<1.0	10	14	3.0	**1,800**	38	NS	NS
	5/98	<1.0	<1.0	<1.0	<1.0	<1.0	**1,400**	<1.0	NS	NS
	8/98	**94**	1.0	30	28	31	**2,400**	184	NS	NS
	11/98	**4.0**	<1.0	<1.0	1.0	37	**1,500**	42	NS	NS
	2/99	**12**	1.0	6.0	78	5.0	**1,000**	102	NS	NS
	5/99	**99**	2.0	8.0	49	<1.0	**1,700**	158	NS	NS
	8/99	<1.0	<1.0	<1.0	<1.0	44	**1,200**	44	NS	NS
	11/99	**98**	1.0	6.0	27	29	**2,600**	161	NS	NS
	3/00	**12**	1.0	20	67	<5.0	**1,700**	100	NS	NS
	6/00	**59**	5.0	40	232	<5.0	**3,200**	336	NS	NS

Notes: NA = Not Analyzed
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B = Analyte detected in method blank, **D** = Analyte concentration was obtained from a diluted analysis, **E** = Analyte concentration exceeded the calibration range
DRO=Diesel Range Organics, **GRO**=Gasoline Range Organics
[1] = Beginning 5/98, TPH was analyzed using EPA Method 8100M
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Historical Groundwater Sampling Results
Dolphin Mart - March 1995 - June 2000
Naval Submarine Base, Groton, CT

(analytical results in µg/l)

Compound		BTEX				MTBE	TPH (By EPA Method 418.1)[1]	Total Volatiles (by EPA Method 8010/8020)[2]	DRO	GRO
		Benzene	Toluene	Ethylbenzene	Xylenes					
Remediation Standard		1.0	1,000	700	530	100	500	NA	NA	NA
Well	Date									
WE-6	11/96	**5.0**	210 D	71 D	**630 D**	<1.0	<1,000	916	2,000	1,400
	2/97	**3.0**	4.0	8.0	12	2.0	<500	29	800	700
	5/97	**3.0**	1.0	12	<1.0	<1.0	<500	15	1,200	1,200
	8/97	<1.0	1.0	<1.0	28	<1.0	**1,000**	29	<500	<500
	11/97	**2.0**	<1.0	3.0	2.0	4.0	<500	11	NS	NS
	2/98	**2.0**	<1.0	5.0	3.0	4.0	500	14	NS	NS
	5/98	<1.0	<1.0	<1.0	<1.0	<1.0	**1,000**	<1.0	NS	NS
	8/98	**3.0**	4.0	9.0	44	<1.0	<500	60	NS	NS
	11/98	**2.0**	<1.0	<1.0	2.0	5.0	<400	9.0	NS	NS
	2/99	<1.0	1.0	3.0	12	2.0	400	18	NS	NS
	5/99	<1.0	<1.0	<1.0	<1.0	<1.0	<400	<1.0	NS	NS
	8/99	<1.0	<1.0	<1.0	<1.0	<1.0	**1,200**	<1.0	NS	NS
	11/99	**1.0**	<1.0	<1.0	<1.0	4.0	**1,000**	5.0	NS	NS
	3/00	<1.0	<1.0	<1.0	1.0	<5.0	**800**	1.0	NS	NS
	6/00	<1.0	<1.0	<1.0	1.0	<5.0	**900**	<5.0	NS	NS

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

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

(analytical results in µg/l)

Compound		BTEX				MTBE	TPH (By EPA Method 418.1)[1]	Total Volatiles (by EPA Method 8010/8020)[2]	DRO	GRO
		Benzene	Toluene	Ethylbenzene	Xylenes					
Remediation Standard		215	23,500	50,000	21,300	50,000	NARS	NARS	NARS	NARS
Well	Date									
ERM-5	3/95	**967**	431	390	1,340	<100	NS	3,295.1	430	8,250
	5/96	112	6.0	34	28	<10	NS	196	159	554
	11/96	**370D**	14	33	61 D	<1.0	3,000	480	1,100	1,600
	2/97	**1,100**	1,100	580	1,600	<50	3,000	4,440 B	3,900	9,100
	5/97	NS	NS	NS	NS	NS	NS	NS	NS	NS
	8/97	NS	NS	NS	NS	NS	NS	NS	NS	NS
	11/97	**730**	250	870	620	<10	2,300	2,470	NS	NS
	2/98	**310**	460	300	710	<10	5,400	1,780	NS	NS
	5/98	**790**	280	1,200	4,900	<100	9,200	7,170	NS	NS
	8/98	130	16	330	1,100	<10	2,200	1,576	NS	NS
	11/98	140	8.0	32	75	<1.0	4,200	255	NS	NS
	2/99	56	2.0	2.0	3.0	2.0	1,900	65	NS	NS
	5/99	**590**	74	560	2,000	<20	1,900	3,224	NS	NS
	8/99	120 D	7.0	<1.0	900 D	<1.0	1,600	1,027	NS	NS
	11/99	24	2.0	5.0	73	<1.0	1,300	104	NS	NS
	3/00	**450**	130	260	385	<25	3,900	1,225	NS	NS
	6/00	210	34	180	436	<10	5,400	860	NS	NS

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

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

(analytical results in µg/l)

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

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

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

(analytical results in µg/l)

Compound		BTEX				MTBE	TPH (By EPA Method 418.1)[1]	Total Volatiles (by EPA Method 8010/8020)[2]	DRO	GRO
		Benzene	Toluene	Ethylbenzene	Xylenes					
Remediation Standard		215	23,500	50,000	21,300	50,000	NARS	NARS	NARS	NARS
Well	Date									
ERM-7	5/96	5.0	<1.0	<1.0	<1.0	<2.0	NS	8.0	38	<473
	11/96	<1.0	<1.0	<1.0	<1.0	<1.0	<1,000	4.0	<500	<500
	2/97	<1.0	<1.0	<1.0	<1.0	<1.0	<500	1.0	<500	<500
	5/97	<1.0	<1.0	<1.0	<1.0	<1.0	<500	<1.0	<500	<500
	8/97	<1.0	<1.0	<1.0	<1.0	<1.0	<500	<1.0	<500	<500
	11/97	<1.0	<1.0	<1.0	<1.0	<1.0	<500	<1.0	NS	NS
	2/98	<1.0	<1.0	<1.0	<1.0	<1.0	<500	<1.0	NS	NS
	5/98	<1.0	<1.0	<1.0	<1.0	<1.0	<500	<1.0	NS	NS
	8/98	<1.0	<1.0	<1.0	<1.0	<1.0	<500	<1.0	NS	NS
	11/98	NS	NS	NS	NS	NS	NS	NS	NS	NS
	2/99	NS	NS	NS	NS	NS	NS	NS	NS	NS
	5/99	NS	NS	NS	NS	NS	NS	NS	NS	NS
	8/99	<1.0	<1.0	<1.0	<1.0	<1.0	<400	<1.0	NS	NS
	11/99	NS	NS	NS	NS	NS	NS	NS	NS	NS
	3/00	NS	NS	NS	NS	NS	NS	NS	NS	NS
	6/00	NS	NS	NS	NS	NS	NS	NS	NS	NS

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Table 2
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NEX - March 1995 - June 2000
Naval Submarine Base, Groton, CT

(analytical results in µg/l)

Compound		BTEX				MTBE	TPH (By EPA Method 418.1)[1]	Total Volatiles (by EPA Method 8010/8020)[2]	DRO	GRO
		Benzene	Toluene	Ethylbenzene	Xylenes					
Remediation Standard		215	23,500	50,000	21,300	50,000	NARS	NARS	NARS	NARS
Well	Date									
ERM-8 (destroyed)	3/95	109	11.5	272	157	<50	NS	665.4	464	2,350
	5/96	NS	NS	NS	NS	NS	NS	NS	NS	NS
	11/96	NS	NS	NS	NS	NS	NS	NS	NS	NS
	2/97	NS	NS	NS	NS	NS	NS	NS	NS	NS
	5/97	NS	NS	NS	NS	NS	NS	NS	NS	NS
	8/97	NS	NS	NS	NS	NS	NS	NS	NS	NS
	11/97	NS	NS	NS	NS	NS	NS	NS	NS	NS
	2/98	NS	NS	NS	NS	NS	NS	NS	NS	NS
	5/98	NS	NS	NS	NS	NS	NS	NS	NS	NS
	8/98	NS	NS	NS	NS	NS	NS	NS	NS	NS
	11/98	NS	NS	NS	NS	NS	NS	NS	NS	NS
	2/99	NS	NS	NS	NS	NS	NS	NS	NS	NS
	5/99	NS	NS	NS	NS	NS	NS	NS	NS	NS
	8/99	NS	NS	NS	NS	NS	NS	NS	NS	NS
	11/99	NS	NS	NS	NS	NS	NS	NS	NS	NS
	3/00	NS	NS	NS	NS	NS	NS	NS	NS	NS
	6/00	NS	NS	NS	NS	NS	NS	NS	NS	NS

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

(analytical results in µg/l)

Compound		BTEX				MTBE	TPH (By EPA Method 418.1)[1]	Total Volatiles (by EPA Method 8010/8020)[2]	DRO	GRO
		Benzene	Toluene	Ethylbenzene	Xylenes					
Remediation Standard		215	23,500	50,000	21,300	50,000	NARS	NARS	NARS	NARS
Well	Date									
ERM-9 (destroyed)	5/96	<1.0	<1.0	<1.0	<1.0	2.0	NS	4.0	3,310	<473
	11/96	NS	NS	NS	NS	NS	NS	NS	NS	NS
	2/97	NS	NS	NS	NS	NS	NS	NS	NS	NS
	5/97	NS	NS	NS	NS	NS	NS	NS	NS	NS
	8/97	NS	NS	NS	NS	NS	NS	NS	NS	NS
	11/97	NS	NS	NS	NS	NS	NS	NS	NS	NS
	2/98	NS	NS	NS	NS	NS	NS	NS	NS	NS
	5/98	NS	NS	NS	NS	NS	NS	NS	NS	NS
	8/98	NS	NS	NS	NS	NS	NS	NS	NS	NS
	11/98	NS	NS	NS	NS	NS	NS	NS	NS	NS
	2/99	NS	NS	NS	NS	NS	NS	NS	NS	NS
	5/99	NS	NS	NS	NS	NS	NS	NS	NS	NS
	8/99	NS	NS	NS	NS	NS	NS	NS	NS	NS
	11/99	NS	NS	NS	NS	NS	NS	NS	NS	NS
	3/00	NS	NS	NS	NS	NS	NS	NS	NS	NS
	6/00	NS	NS	NS	NS	NS	NS	NS	NS	NS

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

(analytical results in µg/l)

Compound		BTEX				MTBE	TPH (By EPA Method 418.1)[1]	Total Volatiles (by EPA Method 8010/8020)[2]	DRO	GRO
		Benzene	Toluene	Ethylbenzene	Xylenes					
Remediation Standard		215	23,500	50,000	21,300	50,000	NARS	NARS	NARS	NARS
Well	Date									
ERM-11	11/96	<1.0	<1.0	<1.0	<1.0	<1.0	<1,000	3.0	<500	<500
	2/97	<1.0	<1.0	<1.0	<1.0	<1.0	<500	2.0	<500	<500
	5/97	<1.0	<1.0	<1.0	<1.0	<1.0	<500	<1.0	<500	<500
	8/97	<1.0	<1.0	<1.0	<1.0	<1.0	<500	<1.0	<500	<500
	11/97	<1.0	<1.0	<1.0	<1.0	<1.0	<500	<1.0	NS	NS
	2/98	<1.0	<1.0	<1.0	<1.0	<1.0	<500	<1.0	NS	NS
	5/98	<1.0	<1.0	<1.0	<1.0	<1.0	<500	<1.0	NS	NS
	8/98	<1.0	<1.0	<1.0	<1.0	<1.0	<500	<1.0	NS	NS
	11/98	NS	NS	NS	NS	NS	NS	NS	NS	NS
	2/99	NS	NS	NS	NS	NS	NS	NS	NS	NS
	5/99	NS	NS	NS	NS	NS	NS	NS	NS	NS
	8/99	<1.0	<1.0	<1.0	<1.0	<1.0	**800**	<1.0	NS	NS
	11/99	NS	NS	NS	NS	NS	NS	NS	NS	NS
	3/00	NS	NS	NS	NS	NS	NS	NS	NS	NS
	6/00	NS	NS	NS	NS	NS	NS	NS	NS	NS

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

(analytical results in µg/l)

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

Notes:
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NARS = No Applicable Remediation Standard
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L P = Liquid-phase petroleum present; well could not be sampled
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Table 2
Historical Groundwater Sampling Results
NEX - March 1995 - June 2000
Naval Submarine Base, Groton, CT

(analytical results in µg/l)

Compound		BTEX				MTBE	TPH (By EPA Method 418.1)[1]	Total Volatiles (by EPA Method 8010/8020)[2]	DRO	GRO
		Benzene	Toluene	Ethylbenzene	Xylenes					
Remediation Standard		215	23,500	50,000	21,300	50,000	NARS	NARS	NARS	NARS
Well	Date									
ERM-13	3/95	<1.0	<1.0	<1.0	<1.0	≤2.0	NS	534	50	<473
	5/96	<1.0	<1.0	<1.0	<1.0	<2.0	NS	9.0	<100	<473
	11/96	<1.0	<1.0	<1.0	<1.0	<1.0	<1,000	2.0	<500	<500
	2/97	<1.0	<1.0	<1.0	<1.0	<1.0	<500	<1.0	<500	<500
	5/97	<1.0	<1.0	<1.0	<1.0	<1.0	<500	<1.0	<500	<500
	8/97	<1.0	<1.0	<1.0	<1.0	<1.0	<500	<1.0	<500	<500
	11/97	<1.0	<1.0	<1.0	<1.0	<1.0	<500	<1.0	NS	NS
	2/98	<1.0	<1.0	<1.0	<1.0	<1.0	<500	<1.0	NS	NS
	5/98	<1.0	<1.0	<1.0	<1.0	<1.0	<500	<1.0	NS	NS
	8/98	<1.0	<1.0	<1.0	1.0	<1.0	<500	1.0	NS	NS
	11/98	NS	NS	NS	NS	NS	NS	NS	NS	NS
	2/99	NS	NS	NS	NS	NS	NS	NS	NS	NS
	5/99	NS	NS	NS	NS	NS	NS	NS	NS	NS
	8/99	<1.0	<1.0	<1.0	3.0	37.0	<400	40.0	NS	NS
	11/99	NS	NS	NS	NS	NS	NS	NS	NS	NS
	3/00	NS	NS	NS	NS	NS	NS	NS	NS	NS
	6/00	NS	NS	NS	NS	NS	NS	NS	NS	NS

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

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

(analytical results in µg/l)

Compound		BTEX				MTBE	TPH (By EPA Method 418.1)[1]	Total Volatiles (by EPA Method 8010/8020)[2]	DRO	GRO
		Benzene	Toluene	Ethylbenzene	Xylenes					
Remediation Standard		215	23,500	50,000	21,300	50,000	NARS	NARS	NARS	NARS
Well	Date									
ERM-14	3/95	**292**	4,880	8,190	6,020	<2.0	NS	19,995	4,840	3,670
	5/96	**305**	5,670	1,250	8,350	<2.0	NS	22,543	7,290	3,890
	11/96	**270**	8,300D	1,700D	11,000D	<25	7,000	21,270	12,000	30,000
	2/97	140	4,500D	980	7,100	<100	60,000	12,840	20,000	20,000
	5/97	LP	LP	LP	LP	LP	LP	LP	LP	LP
	8/97	LP	LP	LP	LP	LP	LP	LP	LP	LP
	11/97	40	2,300D	700D	2,500D	<1.0	4,600	5,540	NS	NS
	2/98	<1.0	930	210	2,800	<1.0	28,000	3,940	NS	NS
	5/98	80	2,200	690	5,400	<1.0	11,000	8,370	NS	NS
	8/98	**270**	5,900	1,600	16,000	<100	24,000	23,770	NS	NS
	11/98	<50	1,000	730	7,300	<50	16,000	9,030	NS	NS
	2/99	<100	420	160	5,300	<100	20,000	5,880	NS	NS
	5/99	<50	590	500	4,200	<50	15,000	5,290	NS	NS
	8/99	5.0	230D	<1.0	9,600D	<1.0	12,000	9,830D	NS	NS
	11/99	<1.0	94	210	2,000	5.0	3,900	2,309	NS	NS
	3/00	<10	140	270	2,700	<50	5,900	3,110	NS	NS
	6/00	<10	120	260	2,260	<50	1,800	2,640	NS	NS

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

(analytical results in µg/l)

Compound		BTEX				MTBE	TPH (By EPA Method 418.1)[1]	Total Volatiles (by EPA Method 8010/8020)[2]	DRO	GRO
		Benzene	Toluene	Ethylbenzene	Xylenes					
Remediation Standard		215	23,500	50,000	21,300	50,000	NARS	NARS	NARS	NARS
Well	Date									
ERM-15	11/96	**280**	760	330	1,100	<40	1,000	2,517	2,300	4,500
	2/97	NS	NS	NS	NS	NS	NS	NS	NS	NS
	5/97	NS	NS	NS	NS	NS	NS	NS	NS	NS
	8/97	NS	NS	NS	NS	NS	NS	NS	NS	NS
	11/97	210	630	240	120	<10	<500	1,200	NS	NS
	2/98	8.0	9.0	4.0	25	<1.0	600	46	NS	NS
	5/98	**1,100**	2,700	810	3,200	<50	11,000	7,810	NS	NS
	8/98	**1,000**	2,200	1,100	3,600	<100	5,900	7,900	NS	NS
	11/98	150 D	270 D	280 D	1,300 D	<1.0	3,100	2,000	NS	NS
	2/99	38	64	48	170	1.0	600	321	NS	NS
	5/99	<1.0	<1.0	<1.0	<1.0	<1.0	<400	<1.0	NS	NS
	8/99	79.0	16.0	150D	<1.0	130D	1,000	375D	NS	NS
	11/99	19.0	<1.0	17	<1.0	<1.0	700	36.0	NS	NS
	3/00	<1.0	<1.0	<1.0	<1.0	<5.0	<200	<5.0	NS	NS
	6/00	2.0	<1.0	2.0	1.0	<5.0	600	5.0	NS	NS

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

(analytical results in µg/l)

Compound		BTEX				MTBE	TPH (By EPA Method 418.1)[1]	Total Volatiles (by EPA Method 8010/8020)[2]	DRO	GRO
		Benzene	Toluene	Ethylbenzene	Xylenes					
Remediation Standard		215	23,500	50,000	21,300	50,000	NARS	NARS	NARS	NARS
Well	Date									
ERM-16	11/96	37	<2.0	13	16	30	<1,000	68	4,400	2,000
	2/97	56D	<1.0	16	34		6,000	136	11,000	1,400
	5/97	34	<1.0	20	42	11	26,000	107	60,000	2,000
	8/97	**LP**	**LP**	**LP**	**LP**	**LP**	**LP**	**LP**	**LP**	**LP**
	11/97	5.0	<1.0	7.0	30	<1.0	15,000	42	NS	NS
	2/98	8.0	<1.0	3.0	15	6.0	25,000	32	NS	NS
	5/98	25	<1.0	9.0	18	13	4,800	65	NS	NS
	8/98	**LP**	**LP**	**LP**	**LP**	**LP**	**LP**	**LP**	**LP**	**LP**
	11/98	**LP**	**LP**	**LP**	**LP**	**LP**	**LP**	**LP**	**LP**	**LP**
	2/99	12	<1.0	7.0	29	9.0	57,000	57	NS	NS
	5/99	8.0	<1.0	2.0	3.0	14	1,900	27	NS	NS
	8/99	NS (dry)	NS (dry)	NS (dry)	NS (dry)	NS (dry)	NS (dry)	NS (dry)	NS (dry)	NS (dry)
	11/99	<1.0	<1.0	<1.0	<1.0	1.0	14,000	1.0	NS	NS
	3/00	<1.0	<1.0	<1.0	<1.0	<5.0	7,400	<5.0	NS	NS
	6/00	<1.0	<1.0	<1.0	<1.0	<5.0	<200	<5.0	NS	NS

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

(analytical results in µg/l)

Compound		BTEX				MTBE	TPH (By EPA Method 418.1)[1]	Total Volatiles (by EPA Method 8010/8020)[2]	DRO	GRO
		Benzene	Toluene	Ethylbenzene	Xylenes					
Remediation Standard		215	23,500	50,000	21,300	50,000	NARS	NARS	NARS	NARS
Well	Date									
ERM-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	12.0	12.0	<1.0	1,000	24.0	NS	NS
	11/99	NS	NS	NS	NS	NS	NS	NS	NS	NS
	3/00	NS	NS	NS	NS	NS	NS	NS	NS	NS
	6/00	NS	NS	NS	NS	NS	NS	NS	NS	NS

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L P = Liquid-phase petroleum present; well could not be sampled
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Table 2
Historical Groundwater Sampling Results
NEX - March 1995 - June 2000
Naval Submarine Base, Groton, CT

(analytical results in µg/l)

Compound		BTEX				MTBE	TPH (By EPA Method 418.1)[1]	Total Volatiles (by EPA Method 8010/8020)[2]	DRO	GRO
		Benzene	Toluene	Ethylbenzene	Xylenes					
Remediation Standard		215	23,500	50,000	21,300	50,000	NARS	NARS	NARS	NARS
Well	Date									
ERM-19	11/96	<1.0	<1.0	<1.0	<1.0	<1.0	<1,000	1.0	<500	<500
	2/97	<1.0	<1.0	<1.0	<1.0	<1.0	<500	<1.0	<500	<500
	5/97	<1.0	<1.0	<1.0	<1.0	<1.0	<500	<1.0	<500	<500
	8/97	<1.0	<1.0	<1.0	<1.0	<1.0	<500	<1.0	<500	<500
	11/97	<1.0	<1.0	<1.0	<1.0	<1.0	<500	<1.0	NS	NS
	2/98	<1.0	<1.0	<1.0	<1.0	<1.0	<500	<1.0	NS	NS
	5/98	<1.0	<1.0	<1.0	<1.0	<1.0	<500	<1.0	NS	NS
	8/98	<10	<10	<10	13	<10	<500	13	NS	NS
	11/98	NS	NS	NS	NS	NS	NS	NS	NS	NS
	2/99	NS	NS	NS	NS	NS	NS	NS	NS	NS
	5/99	NS	NS	NS	NS	NS	NS	NS	NS	NS
	8/99	<1.0	<1.0	<1.0	<1.0	<1.0	<400	<1.0	NS	NS
	11/99	NS	NS	NS	NS	NS	NS	NS	NS	NS
	3/00	NS	NS	NS	NS	NS	NS	NS	NS	NS
	6/00	NS	NS	NS	NS	NS	NS	NS	NS	NS

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DRO=Diesel Range Organics, **GRO**=Gasoline Range Organics
L P = Liquid-phase petroleum present; well could not be sampled
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Table 2
Historical Groundwater Sampling Results
NEX - March 1995 - June 2000
Naval Submarine Base, Groton, CT

(analytical results in µg/l)

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

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

(analytical results in µg/l)

Compound		BTEX				MTBE	TPH (By EPA Method 418.1)[1]	Total Volatiles (by EPA Method 8010/8020)[2]	DRO	GRO
		Benzene	Toluene	Ethylbenzene	Xylenes					
Remediation Standard		215	23,500	50,000	21,300	50,000	NARS	NARS	NARS	NARS
Well	Date									
FD-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
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

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

(analytical results in µg/l)

Compound		BTEX				MTBE	TPH (By EPA Method 418.1)[1]	Total Volatiles (by EPA Method 8010/8020)[2]	DRO	GRO
		Benzene	Toluene	Ethylbenzene	Xylenes					
Remediation Standard		215	23,500	50,000	21,300	50,000	NARS	NARS	NARS	NARS
Well	Date									
MW-4	2/97	29	1.0	<1.0	3.0	<1.0	NS	33	NS	NS
	5/97	NS	NS	NS	NS	NS	NS	NS	NS	NS
	8/97	NS	NS	NS	NS	NS	NS	NS	NS	NS
	11/97	NS	NS	NS	NS	NS	NS	NS	NS	NS
	2/98	NS	NS	NS	NS	NS	NS	NS	NS	NS
	5/98	15	2.0	<1.0	<1.0	<1.0	1,000	17	NS	NS
	8/98	NS	NS	NS	NS	NS	NS	NS	NS	NS
	11/98	**490**	3,000	280	3,100	<50	NS	6,870	NS	NS
	2/99	<250	6,500	470	6,500	<250	8,800	13,470	NS	NS
	5/99	**230**	1,000	410	3,700	<20	NA	5,340	NS	NS
	8/99	NS (dry)	NS (dry)	NS (dry)	NS (dry)	NS (dry)	NS (dry)	NS (dry)	NS (dry)	NS (dry)
	11/99	NS	NS	NS	NS	NS	NS	NS	NS	NS
	3/00	160	540	130	1430	<50	21,000	2,260	NS	NS
	6/00	11	3.0	8.0	41	<5.0	5,900	63	NS	NS

Notes:
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NARS = No Applicable Remediation Standard
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[1] = Beginning 5/98, TPH was analyzed using EPA Method 8100M
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Table 2
Historical Groundwater Sampling Results
NEX - March 1995 - June 2000
Naval Submarine Base, Groton, CT

(analytical results in µg/l)

Compound		BTEX				MTBE	TPH (By EPA Method 418.1)[1]	Total Volatiles (by EPA Method 8010/8020)[2]	DRO	GRO
		Benzene	Toluene	Ethylbenzene	Xylenes					
Remediation Standard		215	23,500	50,000	21,300	50,000	NARS	NARS	NARS	NARS
Well	Date									
MW-6	2/97	<1.0	9.0	<1.0	<1.0	<1.0	NS	9.0	NS	NS
	5/97	18	<1.0	2.0	8.0	<1.0	<500	28	<500	<500
	8/97	35D	1.0	<1.0	8.0	<1.0	<500	46	<500	<500
	11/97	6.0	<1.0	<1.0	3.0	<1.0	<500	9.0	NS	NS
	2/98	8.0	<1.0	<1.0	3.0	<1.0	<500	11	NS	NS
	5/98	1.0	<1.0	<1.0	<1.0	<1.0	<500	1.0	NS	NS
	8/98	170	8.0	13	62	<2.0	<500	253	NS	NS
	11/98	5.0	<1.0	<1.0	2.0	<1.0	<400	7.0	NS	NS
	2/99	71	<1.0	<1.0	3.0	3.0	<400	77	NS	NS
	5/99	<1.0	<1.0	<1.0	<1.0	<1.0	<400	<1.0	NS	NS
	8/99	<1.0	<1.0	<1.0	3.0	<1.0	<400	3.0	NS	NS
	11/99	<1.0	<1.0	<1.0	<1.0	3.0	<400	3.0	NS	NS
	3/00	<1.0	<1.0	<1.0	<1.0	<5.0	500	<5.0	NS	NS
	6/00	<1.0	<1.0	<1.0	2.0	<5.0	41,000	<5.0	NS	NS

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

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

(analytical results in µg/l)

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

Notes:
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Bold numbers indicate an exceedance of State of CT Clean-up Standards
D = Analyte concentration was obtained from a diluted analysis, **B** = Analyte detected in method blank, **E** = Analyte concentration exceeded the calibration range
DRO=Diesel Range Organics, **GRO**=Gasoline Range Organics
L P = Liquid-phase petroleum present; well could not be sampled
[1] = Beginning 5/98, TPH was analyzed using EPA Method 8100M
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Table 2
Historical Groundwater Sampling Results
NEX - March 1995 - June 2000
Naval Submarine Base, Groton, CT

(analytical results in µg/l)

Compound		BTEX				MTBE	TPH (By EPA Method 418.1)[1]	Total Volatiles (by EPA Method 8010/8020)[2]	DRO	GRO
		Benzene	Toluene	Ethylbenzene	Xylenes					
Remediation Standard		215	23,500	50,000	21,300	50,000	NARS	NARS	NARS	NARS
Well	Date									
OBG-1	5/97	**480**	3,300 D	1,100D	10,000 D	540	110,000	15,420	260,000	49,000
	8/97	**1,600**	6,200	1,700	12,000	810	220,000	**22,310**	580,000	56,000
	11/97	**1,600**	8,800	2,300	16,000	38,000	21,000	66,700	NS	NS
	2/98	**1,400**	7,100 D	2,200	15,000 D	24,000 D	160,000	49,700	NS	NS
	5/98	**LP**	**LP**	**LP**	**LP**	**LP**	**LP**	**LP**	**LP**	**LP**
	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

Notes:
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Bold numbers indicate an exceedance of State of CT Clean-up Standards
D = Analyte concentration was obtained from a diluted analysis, **B** = Analyte detected in method blank, **E** = Analyte concentration exceeded the calibration range
DRO=Diesel Range Organics, **GRO**=Gasoline Range Organics
L P = Liquid-phase petroleum present; well could not be sampled
[1] = Beginning 5/98, TPH was analyzed using EPA Method 8100M
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Table 2
Historical Groundwater Sampling Results
NEX - March 1995 - June 2000
Naval Submarine Base, Groton, CT

(analytical results in µg/l)

Compound		BTEX				MTBE	TPH (By EPA Method 418.1)	Total Volatiles (by EPA Method 8010/8020)[2]	DRO	GRO
		Benzene	Toluene	Ethylbenzene	Xylenes					
Remediation Standard		215	23,500	50,000	21,300	50,000	NARS	NARS	NARS	NARS
Well	Date									
OBG-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

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

(analytical results in µg/l)

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

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

(analytical results in µg/l)

Compound		BTEX				MTBE	TPH (By EPA Method 418.1)[1]	Total Volatiles (by EPA Method 8010/8020)[2]	DRO	GRO
		Benzene	Toluene	Ethylbenzene	Xylenes					
Remediation Standard		215	23,500	50,000	21,300	50,000	NARS	NARS	NARS	NARS
Well	Date									
OBG-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

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

(analytical results in µg/l)

Compound		BTEX				MTBE	TPH (By EPA Method 418.1)[1]	Total Volatiles (by EPA Method 8010/8020)[2]	DRO	GRO
		Benzene	Toluene	Ethylbenzene	Xylenes					
Remediation Standard		215	23,500	50,000	21,300	50,000	NARS	NARS	NARS	NARS
Well	Date									
OBG-8 (destroyed)	5/97	<1.0	<1.0	<1.0	<1.0	<1.0	<500	<1.0	<500	<500
	8/97	NS	NS	NS	NS	NS	NS	NS	NS	NS
	11/97	NS	NS	NS	NS	NS	NS	NS	NS	NS
	2/98	NS	NS	NS	NS	NS	NS	NS	NS	NS
	5/98	NS	NS	NS	NS	NS	NS	NS	NS	NS
	8/98	NS	NS	NS	NS	NS	NS	NS	NS	NS
	11/98	NS	NS	NS	NS	NS	NS	NS	NS	NS
	2/99	NS	NS	NS	NS	NS	NS	NS	NS	NS
	5/99	NS	NS	NS	NS	NS	NS	NS	NS	NS
	8/99	NS	NS	NS	NS	NS	NS	NS	NS	NS
	11/99	NS	NS	NS	NS	NS	NS	NS	NS	NS
	3/00	NS	NS	NS	NS	NS	NS	NS	NS	NS
	6/00	NS	NS	NS	NS	NS	NS	NS	NS	NS

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DRO=Diesel Range Organics, GRO=Gasoline Range Organics
L P = Liquid-phase petroleum present; well could not be sampled
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Naval Submarine Base, Groton, CT

(analytical results in µg/l)

Compound		BTEX				MTBE	TPH (By EPA Method 418.1)[1]	Total Volatiles (by EPA Method 8010/8020)[2]	DRO	GRO
		Benzene	Toluene	Ethylbenzene	Xylenes					
Remediation Standard		215	23,500	50,000	21,300	50,000	NARS	NARS	NARS	NARS
Well	Date									
OBG-9	5/97	LP	LP	LP	LP	LP	LP	LP	LP	LP
	8/97	LP	LP	LP	LP	LP	LP	LP	LP	LP
	11/97	**490**	4,800	2,100	16,000	<200	24,000	23,390	NS	NS
	2/98	NS	NS	NS	NS	NS	NS	NS	NS	NS
	5/98	LP	LP	LP	LP	LP	LP	LP	LP	LP
	8/98	56	280	250	2,300	23	NS	2,909	NS	NS
	11/98	31	97	120	1,200	<5.0	5,800	1,448	NS	NS
	2/99	77	190 D	32	340 D	1.0	2,900	640	NS	NS
	5/99	140	4,700	2,500	12,000	<100	1,800	19,340	NS	NS
	8/99	38	660D	2,500D	12,000D	<1.0	16,000	15,198	NS	NS
	11/99	14	290 D	1,100 D	4,700 D	150 D	13,000	6,254	NS	NS
	3/00	<50	1,200	2,200	13,500	<250	13,000	16,900	NS	NS
	6/00	4.0	110	65	380	<5.0	23,000	559	NS	NS

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Naval Submarine Base, Groton, CT

(analytical results in µg/l)

Compound		BTEX				MTBE	TPH (By EPA Method 418.1)[1]	Total Volatiles (by EPA Method 8010/8020)[2]	DRO	GRO
		Benzene	Toluene	Ethylbenzene	Xylenes					
Remediation Standard		215	23,500	50,000	21,300	50,000	NARS	NARS	NARS	NARS
Well	Date									
VEA-4	8/98	<1.0	<1.0	<1.0	<1.0	<1.0	<600	<1.0	NS	NS
	11/98	NS (dry)	NS (dry)	NS (dry)	NS (dry)	NS (dry)	NS (dry)	NS (dry)	NS (dry)	NS (dry)
	2/99	<1.0	<1.0	<1.0	<1.0	<1.0	<400	<1.0	NS	NS
	5/99	NS (dry)	NS (dry)	NS (dry)	NS (dry)	NS (dry)	NS (dry)	NS (dry)	NS (dry)	NS (dry)
	6/99	NS (dry)	NS (dry)	NS (dry)	NS (dry)	NS (dry)	NS (dry)	NS (dry)	NS	NS
	8/99	NS (dry)	NS (dry)	NS (dry)	NS (dry)	NS (dry)	NS (dry)	NS (dry)	NS (dry)	NS (dry)
	11/99	NS (dry)	NS (dry)	NS (dry)	NS (dry)	NS (dry)	NS (dry)	NS (dry)	NS (dry)	NS (dry)
	3/00	<1.0	<1.0	<1.0	<1.0	<5.0	600	<5.0	NS	NS
	6/00	<1.0	<1.0	<1.0	<1.0	<5.0	<200	<5.0	NS	NS

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NEX - March 1995 - March 2000
Naval Submarine Base, Groton, CT

(analytical results in µg/l)

Compound		BTEX				MTBE	TPH (By EPA Method 418.1)[1]	Total Volatiles (by EPA Method 8010/8020)[2]	DRO	GRO
		Benzene	Toluene	Ethylbenzene	Xylenes					
Remediation Standard		215	23,500	50,000	21,300	50,000	NARS	NARS	NARS	NARS
Well	Date									
VEA-7	8/98	<1.0	<1.0	<1.0	<1.0	<1.0	<500	<1.0	NS	NS
	11/98	NS (dry)	NS (dry)	NS (dry)	NS (dry)	NS (dry)	NS (dry)	NS (dry)	NS (dry)	NS (dry)
	2/99	<1.0	<1.0	<1.0	<1.0	1.0	<400	1.0	NS	NS
	5/99	NS (dry)	NS (dry)	NS (dry)	NS (dry)	NS (dry)	NS (dry)	NS (dry)	NS (dry)	NS (dry)
	6/99	<1.0	<1.0	<1.0	<1.0	<1.0	NA	<1.0	NS	NS
	8/99	NS (dry)	NS (dry)	NS (dry)	NS (dry)	NS (dry)	NS (dry)	NS (dry)	NS (dry)	NS (dry)
	11/99	NS (dry)	NS (dry)	NS (dry)	NS (dry)	NS (dry)	NS (dry)	NS (dry)	NS (dry)	NS (dry)
	3/00	<1.0	<1.0	<1.0	<1.0	<5.0	800	<5.0	NS	NS
	6/00	<1.0	<1.0	<1.0	<1.0	<5.0	<200	<5.0	NS	NS

Notes:
NA = Not Analyzed
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NS = Not sampled (NS results have been shaded)
Bold numbers indicate an exceedance of State of CT Clean-up Standards
D = Analyte concentration was obtained from a diluted analysis, **B** = Analyte detected in method blank, **E** = Analyte concentration exceeded the calibration range
DRO=Diesel Range Organics, **GRO**=Gasoline Range Organics
L P = Liquid-phase petroleum present; well could not be sampled
[1] = Beginning 5/98, TPH was analyzed using EPA Method 8100M
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Table 2
Historical Groundwater Sampling Results
NEX - March 1995 - March 2000
Naval Submarine Base, Groton, CT

(analytical results in µg/l)

Compound		BTEX				MTBE	TPH (By EPA Method 418.1)[1]	Total Volatiles (by EPA Method 8010/8020)[2]	DRO	GRO
		Benzene	Toluene	Ethylbenzene	Xylenes					
Remediation Standard		215	23,500	50,000	21,300	50,000	NARS	NARS	NARS	NARS
Well	Date									
VEA-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

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

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