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Annual Progress Report on Soil Vapor Extraction/ Aquifer Air Sparging Remedial System Operations for the Period 1 July 2000 through 30 June 2001 Navy Exchange Service Station (Building 538) Naval Air Station, Brunswick, Maine

Contract No. N62472-92-D-1296
Contract Task Order No. 0035

U.S. NAVAL AIR STATION
BRUNSWICK, MAINE

Prepared for

Department of the Navy
Engineering Field Activity Northeast
Naval Facilities Engineering Command
10 Industrial Highway
Mail Stop No. 82
Lester, Pennsylvania 19113-2090

Prepared by

EA Engineering, Science, and Technology
The Maple Building
3 Washington Center
Newburgh, New York 12550

July 2001
296.0035

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The Maple Building
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9 July 2001

Mr. Brian Helland
UST Program Manager
Engineering Field Activity Northeast
Naval Facilities Engineering Command
10 Industrial Highway, Mail Stop 82
Lester, Pennsylvania 19113

RE: Annual Progress Report on Soil Vapor Extraction/Aquifer Air Sparging
Remedial System Operations for the Period 1 July 2000 through 30 June 2001
Navy Exchange Service Station (Building 538), Naval Air Station, Brunswick, Maine
Contract D62472-92-D-1296, Contract Task Order No. 0035
EA Project No. 29600.35

Dear Mr. Helland:

EA Engineering, Science, and Technology is pleased to provide two copies of this Annual Progress Report containing operation, field, and laboratory analytical results in support of remedial operations and monitoring activities performed at the Navy Exchange (NEX) Service Station, Building 538, Naval Air Station, Brunswick, Maine. Figure 1 provides a site plan illustrating the current configuration of the NEX Service Station, the soil vapor extraction/aquifer air sparging (SVE/AAS) system, the monitoring well network, and other site features. Figure 2 presents historical daily and cumulative total volatile hydrocarbon removal rates for the NEX treatment system. Figures 3 and 4 present the total benzene, toluene, ethylbenzene, and total xylene (BTEX); gasoline range organic (GRO); and diesel range organic (DRO) concentrations detected in ground-water samples collected during the 25-26 September 2000 and 9-10 May 2001 sampling events, respectively. Figures 5 and 6 provide water table elevations and interpreted direction of ground-water flow based on gauging data collected on 25 September 2000 and 9 May 2001, respectively.

Summary tables are provided for SVE/AAS system performance (Tables 1 and 2), site monitoring well gauging data (Table 3), field water quality indicator parameters (Table 4), laboratory analytical results for the ground-water sampling events performed on 25-26 September 2000 and 9-10 May 2001 (Tables 5 and 6, respectively), and historical ground-water laboratory analytical results (Table 7).

Attachments include the following: SVE/AAS system operations data (Attachment A); water quality indicator parameter data (Attachment B); ground-water well gauging, purging, and sampling forms (Attachment C); laboratory analytical results for ground-water samples (Attachment D); and trend graphs for the contaminants of concern from the sampled wells (Attachment E).

SOIL VAPOR EXTRACTION/AQUIFER AIR SPARGING OPERATIONS SUMMARY

The SVE system began operation on 15 November 1993. The AAS system was permanently activated on 18 July 1994. Several enhancements of the SVE/AAS system and the monitoring well network have been performed since the initial system startup. These included extensions of SVE/AAS piping in the vicinity of Building 27, along and under Burbank Avenue, and in the vicinity of the NEX product dispenser islands. Also, the installation of additional service vaults and monitoring wells has accompanied these system expansions.

From 1 July 2000 through 30 June 2001, the SVE system was continuously operational except during periods when failure of the AAS compressor resulted in automated shutdown of the SVE/AAS system. The AAS system automatically shut down on several occasions due to compressor failures during this reporting period, eventually resulting in the replacement of the AAS compressor. Specific SVE/AAS system and AAS compressor shutdown periods and repair details are provided below.

On 28 August 2000, the SVE/AAS system was found inactive. At this time, the AAS compressor failed to restart and was sent to a vendor for repair. The SVE system was re-activated on 28 August 2000, and was continuously operated in SVE-only mode until 10 November 2000 when the system was temporarily taken off-line to allow re-installation of the repaired AAS compressor. The SVE/AAS system was then continuously operated until 28 December 2000 when the AAS compressor was found inactive due to failed drive belts. The AAS compressor belts were replaced and the AAS compressor was re-activated. The SVE system remained active throughout this period until 7 March 2001 when failure of the AAS compressor resulted in automated system shutdown. It was determined at this time that the repaired AAS compressor had seized. It was decided to replace the AAS compressor and a new unit was ordered. On 7 March 2001, the SVE system was re-activated and continuously operated in SVE-only mode until 22 June 2001, when the system was temporarily taken off-line to allow installation of the new AAS compressor. The SVE/AAS system was re-activated on 22 June 2001. On 26 June 2001, during the monthly O&M of the system, the SVE blower was found non-operational. Currently, the system is shut down until the SVE blower is repaired and returned to service. The SVE blower is expected to be returned to service by the end of July 2001.

Figure 2 presents daily and cumulative total volatile hydrocarbon removal rates based on historical NEX treatment system performance. Notable operational milestones, including system additions/enhancements, operational interruptions, and periods of relatively high total volatile hydrocarbon recovery, are included on the figure.

Soil Vapor Extraction System Performance

Seven lateral assemblies (SVE-2 through SVE-8) operated continuously from 1 through 31 July 2000. Six lateral assemblies (SVE-3 through SVE-8) operated continuously from 31 July 2000 through 26 June 2001, except during automated shutdown periods and interruptions to allow repair of the AAS compressor, as discussed above. On 26 June 2001, the SVE blower was found to be non-operational. Several attempts were made to re-start the blower but all failed. The SVE

blower is currently being repaired and is expected to be returned to service by the end of July 2001. The control valve for SVE-4 was open during this period; however, no air flow was observed which may be due to pipe flooding or collapse. Quantitative estimates of total volatile hydrocarbon removal rates from individual SVE trenches were prepared based on monitoring data collected using a Foxboro TVA-1000 photoionization/flame ionization detector. Only the photoionization detector of the TVA-1000 was used to collect the monitoring data. SVE trenches SVE-5 through SVE-8 are connected to a common trunk line returning from the remediation zone and entering the treatment building, thus, the hydrocarbon removal rate for these trenches is provided as a composite. SVE trenches SVE-2 and SVE-9 through SVE-11 are also connected to a common trunk line returning from the remediation zone, and the hydrocarbon removal rate for these trenches is provided as a composite. These data are summarized in Table 1. For calculation of the daily total volatile hydrocarbon removal rate, it was assumed that the daily flow rate remained constant in individual SVE influent lines. SVE field data collected during system operations and maintenance visits are provided in Attachment A.

No exceedances of the Maine Department of Environmental Protection air discharge limit of 10 lb/hour, or 100 lb/day, of petroleum hydrocarbons were observed.

Aquifer Air Sparging System Performance

As discussed above, the AAS compressor exhibited performance problems during this reporting period. The AAS compressor was found inactive on 28 August 2000 and sent for repair. Following repair, the AAS compressor was returned to service on 11 November 2000, however, the AAS compressor belts were found to have failed on 28 December 2000. The belts were replaced and the AAS system was re-activated. On 7 March 2001, the AAS system was again found inactive. At this time, it was determined that the AAS compressor had seized and the decision was made to order a new unit. On 22 June 2001, the new AAS compressor was installed and the AAS system was re-activated. During this reporting period, eleven sparge wells (AAS-3 through AAS-7 and AAS-11 through AAS-16) operated continuously except during periods of AAS compressor failure/repair/replacement, as noted above. AAS system performance data are summarized in Table 2. AAS field data collected during the site visits are provided in Attachment A.

Well Gauging and Water Quality Indicator Parameter Measurements

Well gauging was performed and water quality measurements were recorded at 9 monitoring well locations (including MW-NASB-008 through MW-NASB-010, MW-NASB-023 through MW-NASB-026, and MW-NASB-225 through MW-NASB-226) during ground-water sampling events conducted during 25-26 September 2000 and 9-10 May 2001. Gauging of the monitoring wells confirmed the absence of measurable light, non-aqueous phase liquid in site monitoring wells during the reporting period (i.e., <0.01 ft). Figures 5 and 6 provide water table elevations and interpreted direction of ground-water flow based on gauging data collected on 25 September 2000 and 9 May 2001, respectively. Well gauging data for the reporting period are summarized in Table 3.

Water quality indicator parameter measurements, including pH, temperature, and dissolved oxygen, were obtained using a YSI Model 600XL water quality meter. Water quality indicator parameter measurements are summarized in Table 4. Water quality parameter analysis forms are provided in Attachment B.

QUARTERLY GROUND-WATER SAMPLING

Ground-water sampling was performed on 25-26 September 2000 at 6 site monitoring wells (including MW-NASB-009, MW-NASB-010, MW-NASB-025, MW-NASB-026, MW-NASB-225, and MW-NASB-226) and on 9-10 May 2001 at 9 site monitoring wells (including MW-NASB-008 through MW-NASB-010, MW-NASB-023 through MW-NASB-026, MW-NASB-225, and MW-NASB-226). Prior to ground-water sample collection, each monitoring well was gauged to determine the absence/presence of light, non-aqueous phase liquid; depth to ground water; and depth to bottom of well using a Solinst Model 121 oil/water interface probe graduated in 0.01-ft intervals. Well gauging confirmed the absence of light, non-aqueous phase liquid at all monitoring well locations (i.e., <0.01 ft).

Well purging and ground-water sampling were performed using a low-flow sampling technique at an average purge rate of 0.2 L/min or as necessary to stabilize ground-water elevation during purging. Water quality indicator parameters, including pH, conductivity, temperature, dissolved oxygen, Eh, and turbidity, were monitored during well purging. Ground-water samples were collected following stabilization of water quality indicator parameters, achieved when 3 consecutive measurements were within 10 percent agreement and when 3 consecutive measurements of turbidity were within a range of 10 nephelometric turbidity units or less. Field records of well gauging, purging, and sampling are provided in Attachment C.

One ground-water sample was collected from each monitoring well location (6 monitoring wells during the 25-26 September 2000 sampling event and 9 monitoring wells during the 9-10 May 2001 sampling event, as noted above). In addition, 1 duplicate sample was collected from well MW-NASB-026 during the 25-26 September 2000 sampling event and 1 duplicate sample was collected from MW-NASB-226 during the 9-10 May 2001 sampling event. One equipment rinsate blank was collected during each sampling event by running deionized water through the submersible pump equipment and into appropriate sample containers. To assess the potential for sample contamination during transport, 1 trip blank sample was collected and submitted for laboratory analysis during each sampling event. Katahdin Analytical Services, a State of Maine Department of Human Services (MDHS) approved laboratory, analyzed the ground-water samples. Ground-water samples, the duplicate samples, the equipment rinsate blanks, and the trip blanks were submitted for analysis of BTEX and methyl tertiary-butyl ether by U.S. Environmental Protection Agency Method 8260. The ground-water samples, duplicate samples, and equipment rinsate blanks were also analyzed for total petroleum hydrocarbon (TPH) as GRO by MDHS Health and Environmental Testing Laboratory (HETL) Laboratory Operating Procedure Method 4.2.17, and for TPH as DRO by the MDHS-HETL Laboratory Operating Procedure Method 4.1.25. Attachment D contains the complete laboratory analytical data reports.

Tables 5 and 6 summarize the laboratory analytical results for ground-water samples collected on 25-26 September 2000 and 9-10 May 2001, respectively. Table 7 summarizes historical analytical results from previous ground-water sampling events at the NEX Service Station since May 1992, including the laboratory analytical results for samples collected on 25-26 September 2000 and 9-10 May 2001. Trend graphs of the laboratory analytical data from the monitoring wells sampled are provided in Attachment E.

Remedial system operations are currently focused in the areas around MW-NASB-26 and MW-NASB-225. Remedial system influence in the area around MW-NASB-226 is limited to volatilization and capture of dissolved-phase petroleum hydrocarbon compounds in ground water traveling in the direction of MW-NASB-226. The analytical results of the ground-water samples for the site wells, plus the duplicates, were below the Maine Department of Environmental Protection Stringent Cleanup Standards for volatile organic compounds; however, the TPH-GRO and TPH-DRO cleanup goals were exceeded in several samples. During the 25-26 September 2000 sampling event, exceedances of the Maine Department of Environmental Protection Stringent Cleanup Standards for TPH-GRO and TPH-DRO were reported at monitoring well locations MW-NASB-026, MW-NASB-225, and MW-NASB-226. An exceedance of the TPH-GRO standard was also reported at MW-NASB-025 during this sampling event. During the 9-10 May 2001 sampling event, exceedances of the Maine Department of Environmental Protection Stringent Cleanup Standards for TPH-GRO and TPH-DRO were reported at monitoring well locations MW-NASB-009, MW-NASB-026, MW-NASB-225, and MW-NASB-226. An exceedance of the TPH-GRO standard was also reported at MW-NASB-010 during this sampling event. No contaminants of concern were reported above the detection limits in the trip blanks. TPH-DRO was reported at 160 µg/L in the rinsate blank collected during 25-26 September 2000 sampling event and at 285 µg/L in the rinsate blank collected during the 9-10 May 2001 sampling event. No other contaminants of concern were reported above the detection limits in the rinsate blanks.

It has been our pleasure providing Engineering Field Activity Northeast these data. If there are any questions, please do not hesitate to contact me at 781-275-8846.

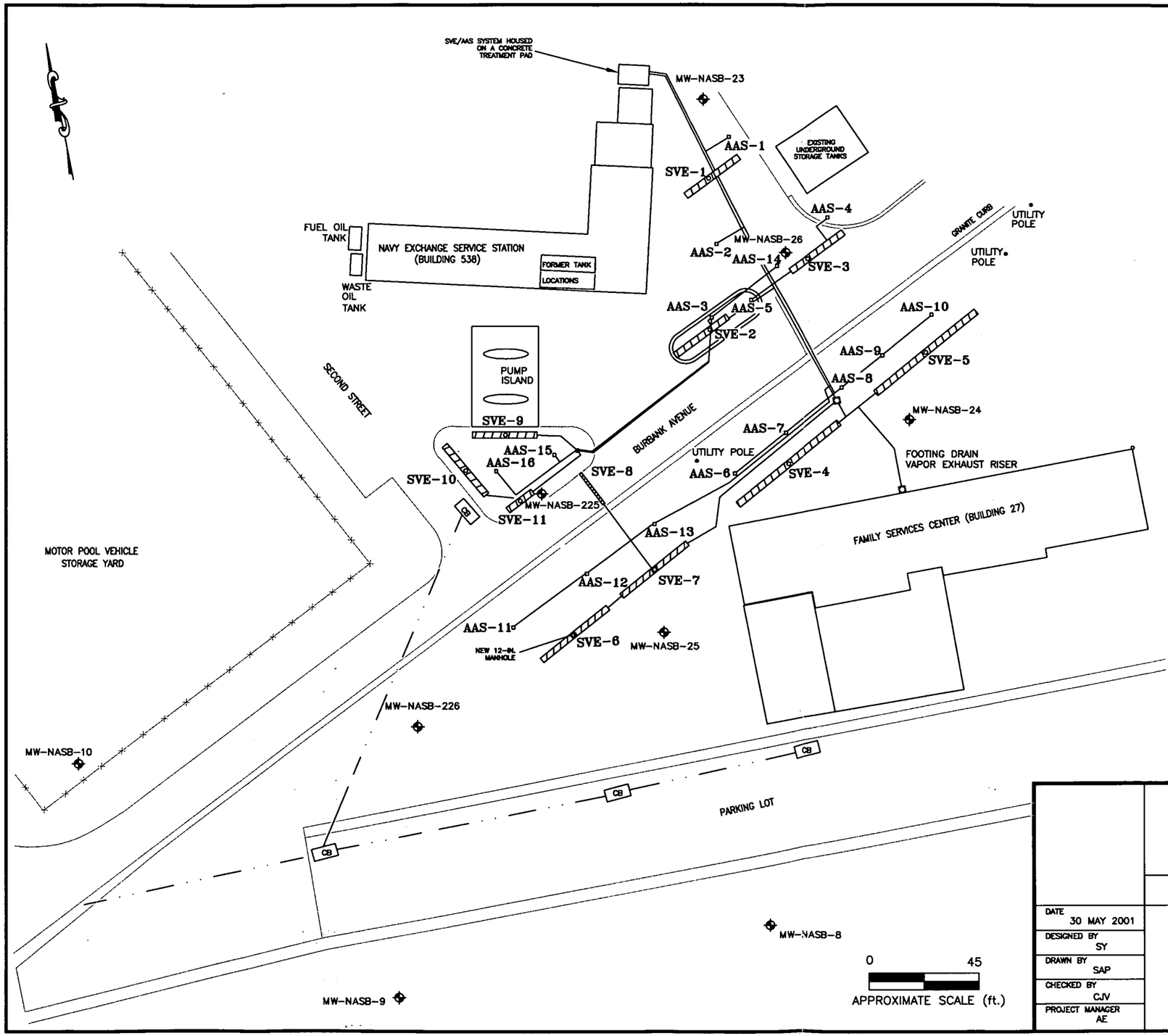
Sincerely yours,

Alexander Easterday

Alexander C. Easterday, P.G.
CTO Manager

ACE/caw
Attachments

cc: T. Williams (NAS Brunswick)
C. Sait (MEDEP)
K. Kilmer (EA PMO)
C. Varner (EA)



LEGEND

- SOIL VAPOR EXTRACTION TRENCH
- AAS-2 — AQUIFER AIR SPARGING WELL WITHIN FLUSH-MOUNTED SERVICE VAULT
- MW-NASB-023 — MONITORING WELL
- SVE RISER PIPE AND SERVICE VAULT
- 2X2X2 STEEL MANHOLE
- CB — CATCH BASIN
- STORM WATER COLLECTION LINE
- EXISTING CHAIN LINK FENCE

NOTE:

1. BASE MAP DEVELOPED FROM ERM-NEW ENGLAND, INC. SITE PLAN DATED 24 JUNE 1992 AND SURVEYS PERFORMED BY CORNERSTONE PROFESSIONAL LAND SURVEYING, INC., 20 MAY 1994, 19 JULY 1995, AND 5 MAY 1997.

DWG. FILE F:\FEDERAL\DOD\NAVY\2960035\CAD\NEXO&M\2001\FIG1.DWG

SITE PLAN SHOWING LAYOUT OF
REMEDIATION SYSTEM AS-BUILT
NAVY EXCHANGE SERVICE STATION
NAVAL AIR STATION, BRUNSWICK, MAINE

FIGURE 1

DATE	30 MAY 2001
DESIGNED BY	SY
DRAWN BY	SAP
CHECKED BY	CJV
PROJECT MANAGER	AE

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PROJECT NUMBER	29600.35
SCALE	AS SHOWN
FILE NAME	FIG1
DRAWING NUMBER	–
SHEET NUMBER	1 OF 1

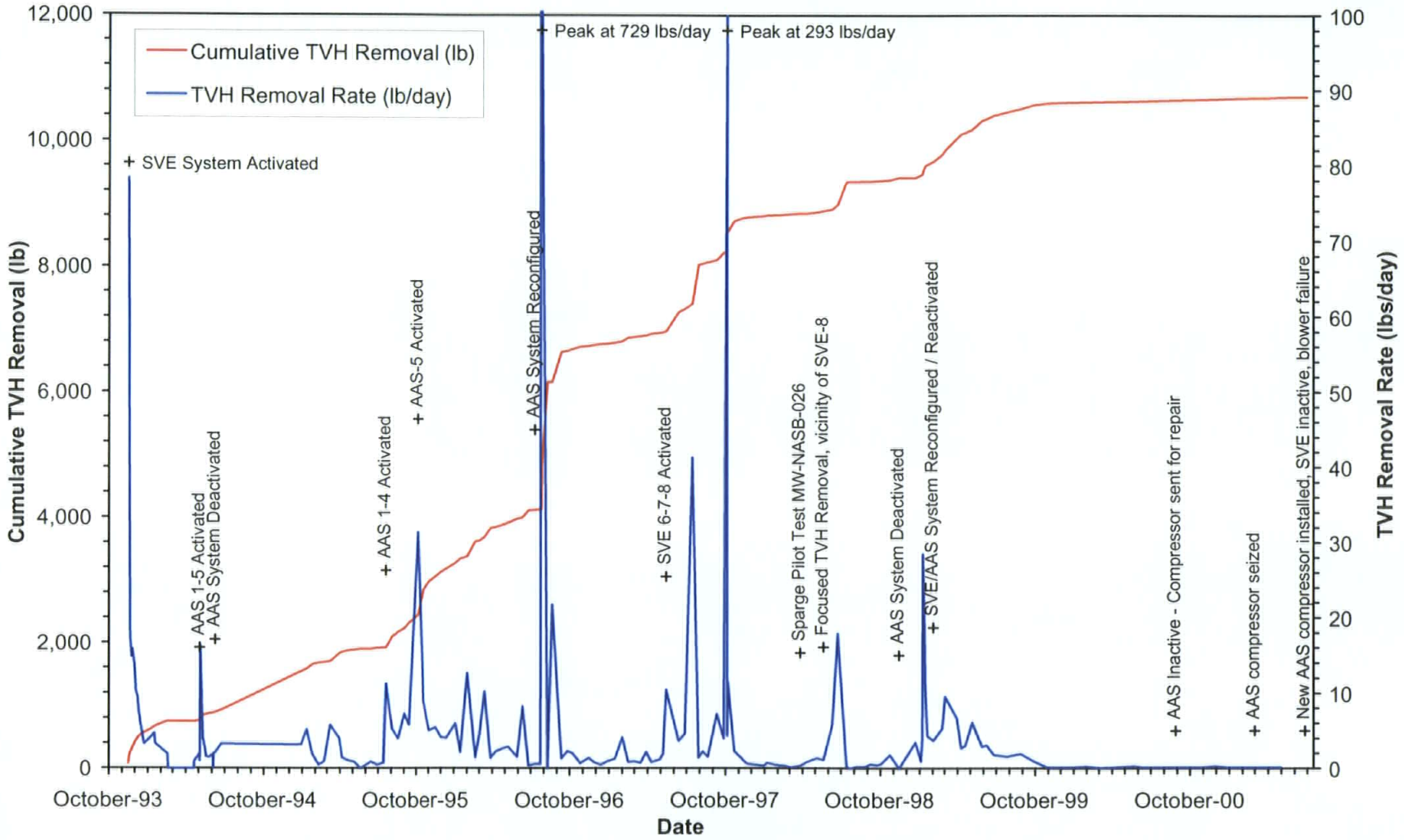
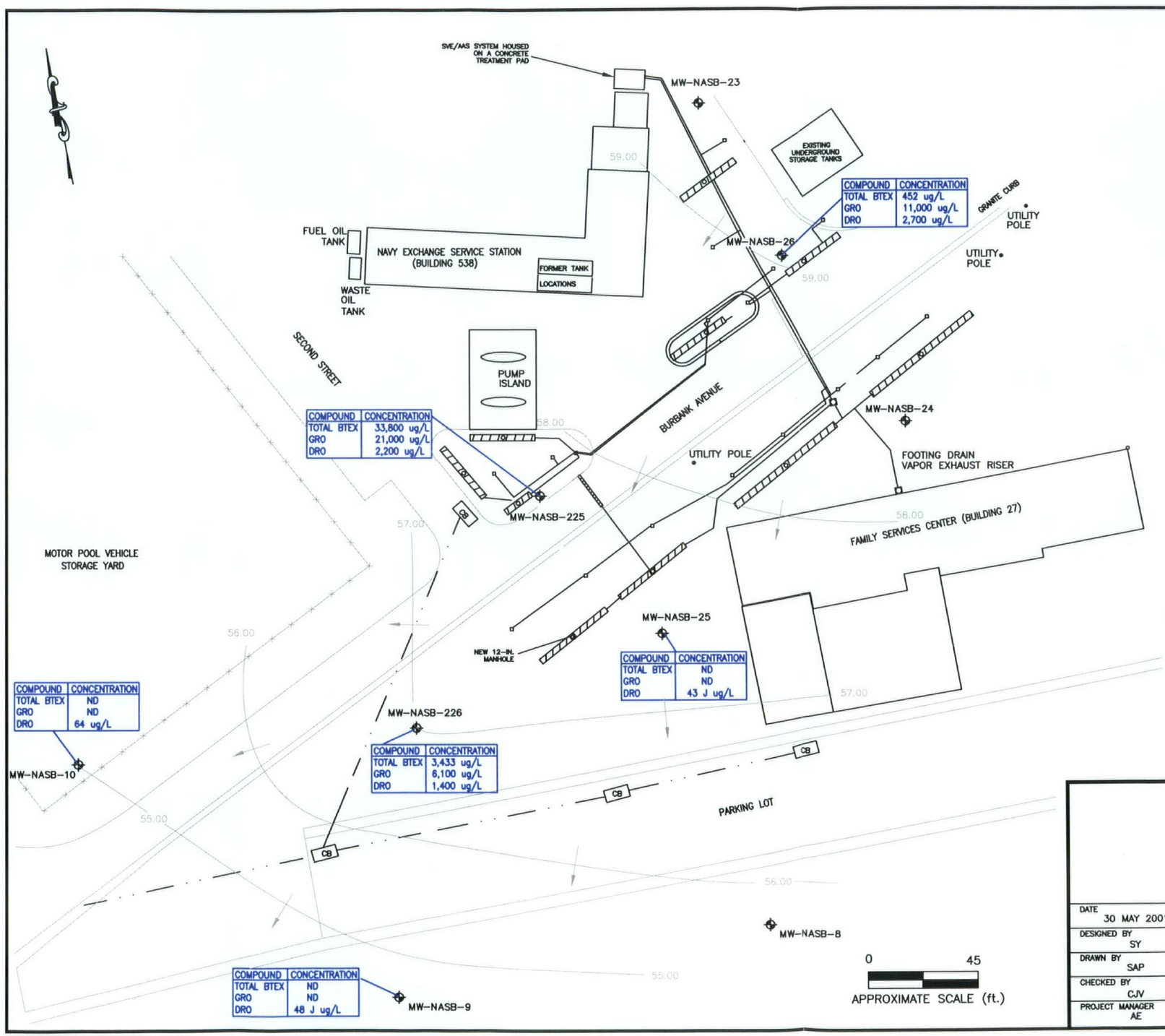


Figure 2. Soil vapor extraction/aquifer air sparging (SVE/AAS) treatment system performance.

F:\Federal\DoD\Navy\2960035\NEX\SVE Performance Chart.xls



LEGEND

- SOIL VAPOR EXTRACTION TRENCH
- AQUIFER AIR SPARGING WELL WITHIN FLUSH-MOUNTED SERVICE VAULT
- MW-NASB-23 MONITORING WELL
- ND NOT DETECTED
- SVE RISER PIPE AND SERVICE VAULT
- 2X2X2 STEEL MANHOLE
- CB CATCH BASIN
- STORM WATER COLLECTION LINE
- EXISTING CHAIN LINK FENCE
- 57.00 INTERPRETED POTENTIOMETRIC SURFACE (CONTOUR INTERVAL = 1.0 FT)
- INTERPRETED DIRECTION OF GROUND-WATER FLOW

NOTE:

1. BASE MAP DEVELOPED FROM ERM-NEW ENGLAND, INC. SITE PLAN DATED 24 JUNE 1992 AND SURVEYS PERFORMED BY CORNERSTONE PROFESSIONAL LAND SURVEYING, INC., 20 MAY 1994, 19 JULY 1995, AND 5 MAY 1997.
2. CONTOURS REPRESENT EVALUATION OF PROBABLE CONDITIONS BASED ON PRESENTLY AVAILABLE DATA. SOME VARIATION FROM THESE CONDITIONS MUST BE EXPECTED.

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TOTAL BTEX, GRO AND DRO CONCENTRATIONS DETECTED IN GROUND-WATER SAMPLES COLLECTED 25-26 SEPTEMBER 2000 NAVY EXCHANGE SERVICE STATION

NAVAL AIR STATION, BRUNSWICK, MAINE

FIGURE 3

DATE	30 MAY 2001
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PROJECT NUMBER	29600.35
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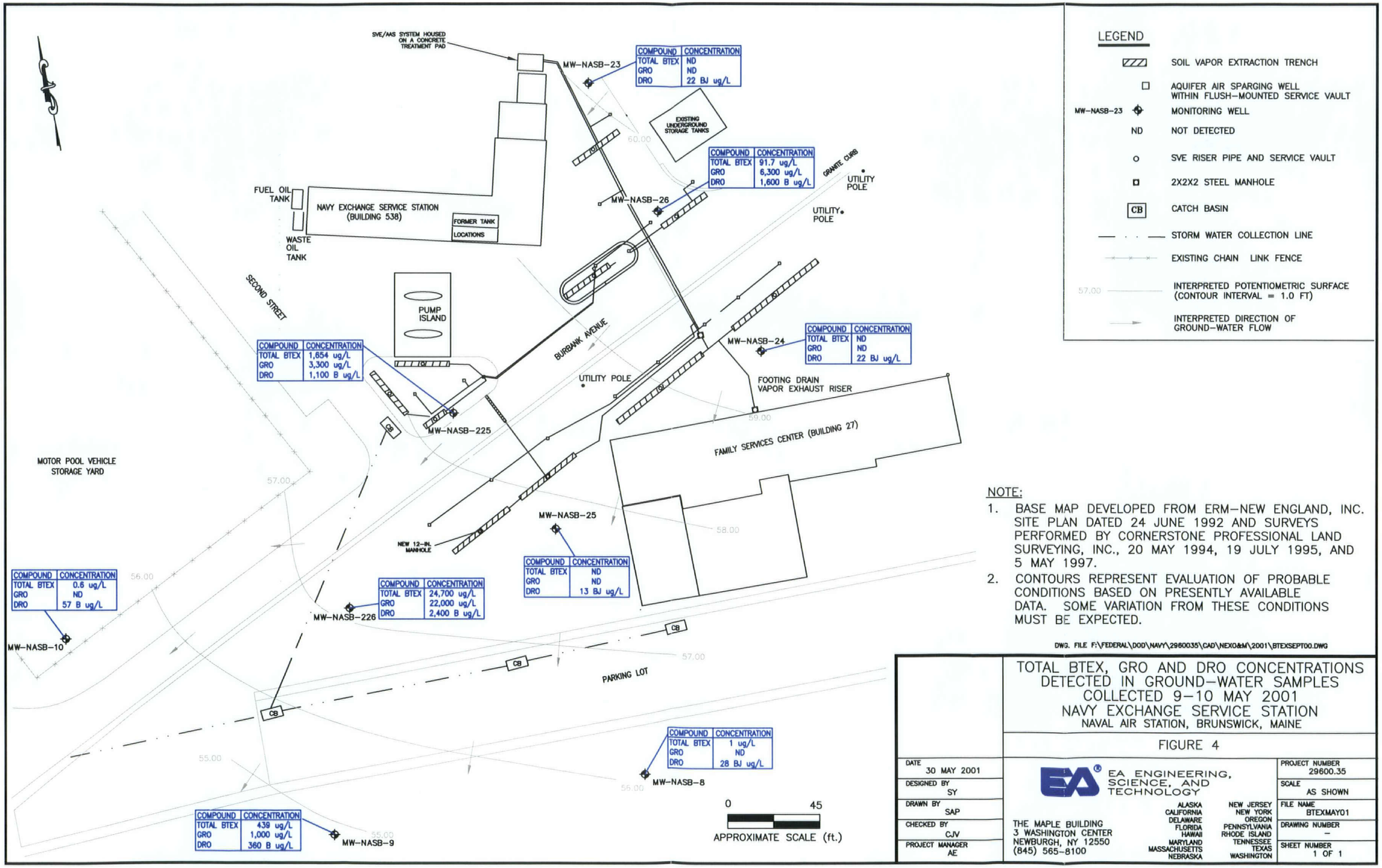
FILE NAME	BTEXSEPT00
DRAWING NUMBER	–
SHEET NUMBER	1 OF 1



LEGEND

- SOIL VAPOR EXTRACTION TRENCH
- AQUIFER AIR SPARGING WELL WITHIN FLUSH-MOUNTED SERVICE VAULT
- MW-NASB-23 — MONITORING WELL
- ND — NOT DETECTED
- SVE RISER PIPE AND SERVICE VAULT
- 2X2X2 STEEL MANHOLE
- CB — CATCH BASIN
- STORM WATER COLLECTION LINE
- EXISTING CHAIN LINK FENCE
- 57.00 — INTERPRETED POTENTIOMETRIC SURFACE (CONTOUR INTERVAL = 1.0 FT)
- INTERPRETED DIRECTION OF GROUND-WATER FLOW

NOTE:

1. BASE MAP DEVELOPED FROM ERM-NEW ENGLAND, INC. SITE PLAN DATED 24 JUNE 1992 AND SURVEYS PERFORMED BY CORNERSTONE PROFESSIONAL LAND SURVEYING, INC., 20 MAY 1994, 19 JULY 1995, AND 5 MAY 1997.
2. CONTOURS REPRESENT EVALUATION OF PROBABLE CONDITIONS BASED ON PRESENTLY AVAILABLE DATA. SOME VARIATION FROM THESE CONDITIONS MUST BE EXPECTED.

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TOTAL BTEX, GRO AND DRO CONCENTRATIONS DETECTED IN GROUND-WATER SAMPLES COLLECTED 9-10 MAY 2001
NAVY EXCHANGE SERVICE STATION
NAVAL AIR STATION, BRUNSWICK, MAINE

FIGURE 4

DATE	30 MAY 2001
DESIGNED BY	SY
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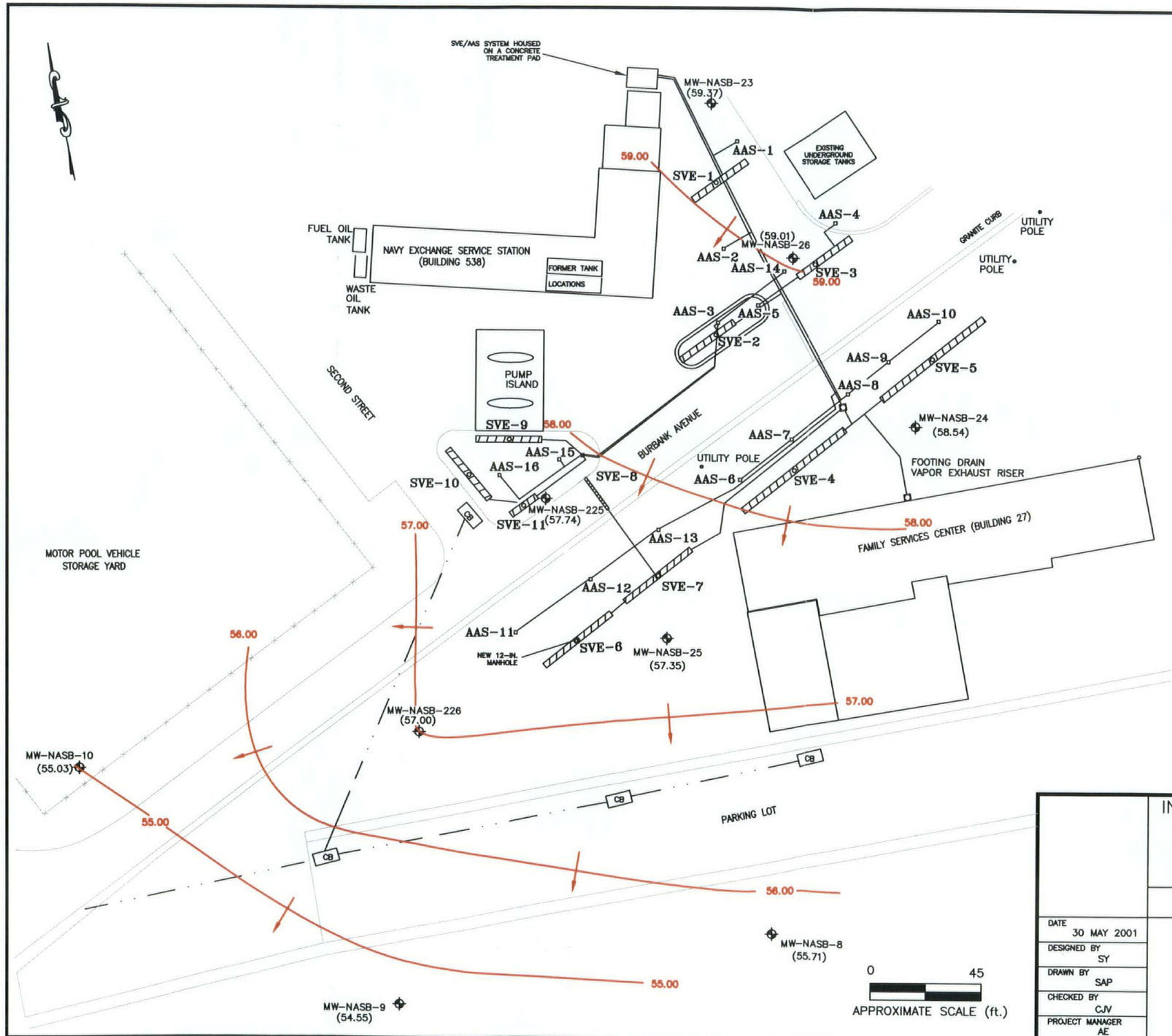
PROJECT NUMBER	29600.35
SCALE	AS SHOWN
FILE NAME	BTEXMAY01
DRAWING NUMBER	–
SHEET NUMBER	1 OF 1



LEGEND

- SOIL VAPOR EXTRACTION TRENCH
- AQUIFER AIR SPARGING WELL WITHIN FLUSH-MOUNTED SERVICE VAULT
- MW-NASB-23 (59.37) MONITORING WELL
- SVE RISER PIPE AND SERVICE VAULT
- 2X2X2 STEEL MANHOLE
- CB CATCH BASIN
- STORM WATER COLLECTION LINE
- EXISTING CHAIN-LINK FENCE
- INTERPRETED POTENTIOMETRIC SURFACE (CONTOUR INTERVAL = 1.0 FT)
- INTERPRETED DIRECTION OF GROUND-WATER FLOW

NOTE:

1. BASE MAP DEVELOPED FROM ERM-NEW ENGLAND, INC. SITE PLAN DATED 24 JUNE 1992 AND SURVEYS PERFORMED BY CORNERSTONE PROFESSIONAL LAND SURVEYING, INC., 20 MAY 1994, 19 JULY 1995, AND 5 MAY 1997.
2. CONTOURS REPRESENT INTERPRETATION OF PROBABLE CONDITIONS BASED ON A SINGLE WELL GAUGING EVENT.

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INTERPRETED POTENTIOMETRIC SURFACE ELEVATIONS BASED ON 25 SEPTEMBER 2000 WELL GAUGING DATA NAVY EXCHANGE SERVICE STATION NAVAL AIR STATION, BRUNSWICK, MAINE

FIGURE 5

DATE	30 MAY 2001
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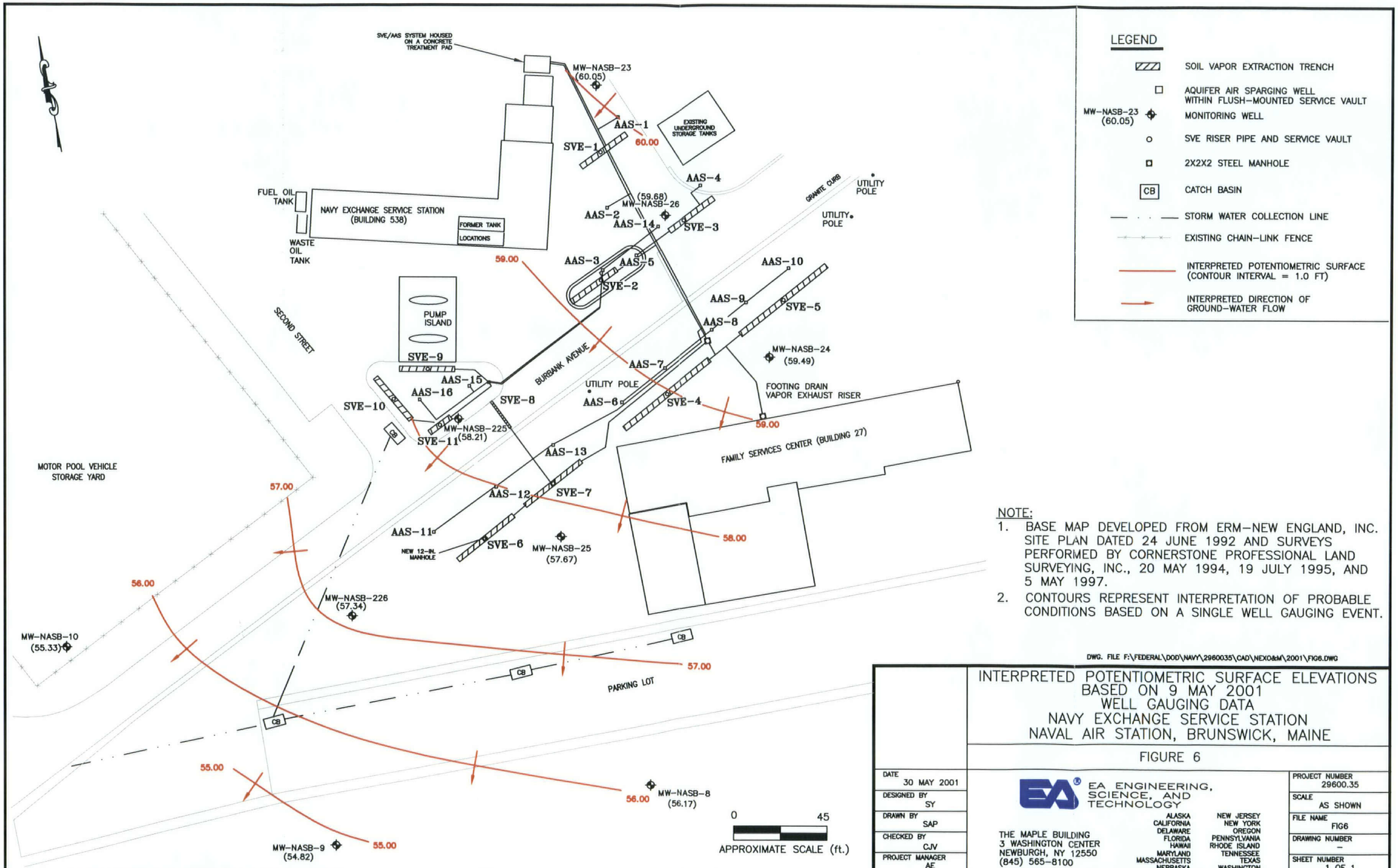
PROJECT NUMBER	29600.35
SCALE	AS SHOWN
FILE NAME	FIG5
DRAWING NUMBER	–
SHEET NUMBER	1 OF 1



NOTE:

1. BASE MAP DEVELOPED FROM ERM-NEW ENGLAND, INC. SITE PLAN DATED 24 JUNE 1992 AND SURVEYS PERFORMED BY CORNERSTONE PROFESSIONAL LAND SURVEYING, INC., 20 MAY 1994, 19 JULY 1995, AND 5 MAY 1997.
2. CONTOURS REPRESENT INTERPRETATION OF PROBABLE CONDITIONS BASED ON A SINGLE WELL GAUGING EVENT.

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INTERPRETED POTENTIOMETRIC SURFACE ELEVATIONS
BASED ON 9 MAY 2001
WELL GAUGING DATA
NAVY EXCHANGE SERVICE STATION
NAVAL AIR STATION, BRUNSWICK, MAINE

FIGURE 6

DATE	30 MAY 2001
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PROJECT NUMBER	29600.35
SCALE	AS SHOWN
FILE NAME	FIG6
DRAWING NUMBER	–
SHEET NUMBER	1 OF 1

TABLE 1 SUMMARY OF SOIL VAPOR EXTRACTION SYSTEM PERFORMANCE DATA RECORDED FROM JULY 2000 THROUGH MAY 2001 AT THE NAVY EXCHANGE SERVICE STATION (BUILDING 538), NAVAL AIR STATION, BRUNSWICK, MAINE

Sample Date	System Status	Total Volatile Hydrocarbons (ppmv)[1]	Vacuum at Treatment Plant (in. H2O)	Vacuum at Trench (in. H2O)	Flow Rate (cfm)	Daily Total Volatile Hydrocarbon Removal Rate[2] (lb/day)
SVE-02, 9,10,11						
31 JUL 2000	SVE	3	25	No data	150	0.16
28 AUG 2000	SVE	No data	25	No data	155	NA
28 SEP 2000	SVE	No data	24	No data	160	NA
30 OCT 2000	SVE	No data	30	No data	150	NA
28 NOV 2000	SVE	3	15	No data	150	0.16
28 DEC 2000	SVE	1	38	No data	160	0.06
30 JAN 2001	SVE	1	38	No data	160	0.06
28 FEB 2001	SVE	2	30	No data	150	0.10
28 MAR 2001	SVE	No data	35	No data	150	NA
30 APR 2001	SVE	No data	25	No data	150	NA
31 MAY 2001	SVE	No data	25	No data	160	NA
SVE-03						
31 JUL 2000	SVE	3	10	6	100	0.10
28 AUG 2000	SVE	No data	10	6	100	NA
28 SEP 2000	SVE	No data	10	6	100	NA
30 OCT 2000	SVE	No data	15	5	105	NA
28 NOV 2000	SVE	3	35	6	110	0.12
28 DEC 2000	SVE	2	20	5	100	0.07
30 JAN 2001	SVE	2	20	No data	100	0.07
28 FEB 2001	SVE	3	15	No data	105	0.11
28 MAR 2001	SVE	No data	18	No data	100	NA
30 APR 2001	SVE	No data	13	No data	110	NA
31 MAY 2001	SVE	No data	10	No data	100	NA
SVE-04						
31 JUL 2000	SVE	Flow obstructed; not operational				
28 AUG 2000	SVE	Flow obstructed; not operational				
28 SEP 2000	SVE	Flow obstructed; not operational				
30 OCT 2000	SVE	Flow obstructed; not operational				
28 NOV 2000	SVE	Flow obstructed; not operational				
28 DEC 2000	SVE	Flow obstructed; not operational				
30 APR 2001	SVE	Flow obstructed; not operational				
31 MAY 2001	SVE	Flow obstructed; not operational				
SVE-05,6,7,8						
31 JUL 2000	SVE	1.5	20	2	130	0.07
28 AUG 2000	SVE	No data	18	2	130	NA
28 SEP 2000	SVE	No data	20	2	150	NA
30 OCT 2000	SVE	No data	10	2	130	NA

TABLE 1 (Continued)

Sample Date	System Status	Total Volatile Hydrocarbons (ppmv)[1]	Vacuum at Treatment Plant (in. H2O)	Vacuum at Trench (in. H2O)	Flow Rate (cfm)	Daily Total Volatile Hydrocarbon Removal Rate[2] (lb/day)
SVE-05,6,7,8						
28 NOV 2000	SVE	2	0	2	130	0.09
28 DEC 2000	SVE	1	15	2	130	0.05
30 JAN 2001	SVE	1	15	No data	130	0.05
28 FEB 2001	SVE	1	15	No data	130	0.05
28 MAR 2001	SVE	No data	No data	No data	130	NA
30 APR 2001	SVE	No data	100	No data	130	NA
31 MAY 2001	SVE	No data	No data	No data	130	NA
Composite Intake						
31 JUL 2000	SVE	1	No data	No data	380	0.13
28 AUG 2000	SVE	No data	No data	No data	385	NA
28 SEP 2000	SVE	No data	No data	No data	410	NA
30 OCT 2000	SVE	No data	No data	No data	385	NA
28 NOV 2000	SVE	2	No data	No data	390	0.27
28 DEC 2000	SVE	1	No data	No data	390	0.14
30 JAN 2001	SVE	1	No data	No data	390	0.14
28 FEB 2001	SVE	1	No data	No data	385	0.13
28 MAR 2001	SVE	No data	No data	No data	380	NA
30 APR 2001	SVE	No data	No data	No data	390	NA
Composite Emissions						
31 JUL 2000	SVE	8	No data	No data	380	1.06
28 AUG 2000	SVE	7	No data	No data	385	0.94
28 SEP 2000	SVE	8	No data	No data	410	1.15
30 OCT 2000	SVE	7	No data	No data	385	0.94
28 NOV 2000	SVE	7	No data	No data	390	0.95
28 DEC 2000	SVE	1	No data	No data	390	0.14
30 JAN 2001	SVE	1	No data	No data	390	0.14
28 FEB 2001	SVE	1	No data	No data	385	0.13
28 MAR 2001	SVE	No data	No data	No data	380	NA
30 APR 2001	SVE	1	No data	No data	390	0.14
31 MAY 2001	SVE	2	No data	No data	No data	NA

1. Based on measurements taken with photoionization detector. Photoionization detector measurements considered a conservative approximation of total volatile hydrocarbon concentrations at sample location due to instrument response limitations.
2. Loading rate calculated using formula provided by EPA (1989): RR = Q x C x MW x 1.58x10-7 x 24, where:

   RR = Removal rate (lb/day)
   Q = Flow rate, cubic feet per minute (cfm)
   C = Total volatile hydrocarbon concentration in influent, parts per million by volume (ppmv)
   MW = Molecular weight (average) of vapor phase weathered gasoline (92.14 g/mole).

3. Individual trench vaccum readings for SVE-05, SVE-06, SVE-07, and SVE-08 are 2 in. H2O.
4. SVE blower found inactive on 26 JUN 2001, would not resart. Blower is currently under repair and is expected to be returned to service by 31 JUL 2001.

NOTE: SVE = Soil vapor extraction.
PPMV = Parts per million by volume.
cfm = Cubic feet per minute.

TABLE 2 SUMMARY OF AQUIFER AIR SPARGING SYSTEM OPERATIONS DATA RECORDED FROM JULY 2000 THROUGH APRIL 2001 AT THE NAVY EXCHANGE SERVICE STATION (BUILDING 538), NAVAL AIR STATION, BRUNSWICK, MAINE

Monitoring Date	Sparge Air Pressure (psi)	Sparge Air Temperature (°F)	Sparge Air Injection Rate (scfm)
AAS-03			
31 JUL 2000	5	120	40
28 AUG 2000	No data	No data	No data
28 SEP 2000	No data	No data	No data
30 OCT 2000	No data	No data	No data
28 NOV 2000	5	70	40
28 DEC 2000	No data	No data	No data
30 JAN 2001	No data	No data	No data
28 FEB 2001	No data	No data	No data
28 MAR 2001	No data	No data	No data
30 APR 2001	No data	No data	No data
AAS-04			
31 JUL 2000	5	120	20
28 AUG 2000	No data	No data	No data
28 SEP 2000	No data	No data	No data
30 OCT 2000	No data	No data	No data
28 NOV 2000	5	70	25
28 DEC 2000	No data	No data	No data
30 JAN 2001	No data	No data	No data
28 FEB 2001	No data	No data	No data
28 MAR 2001	No data	No data	No data
30 APR 2001	No data	No data	No data
AAS-05			
31 JUL 2000	2	120	30
28 AUG 2000	No data	No data	No data
28 SEP 2000	No data	No data	No data
30 OCT 2000	No data	No data	No data
28 NOV 2000	2	70	30
28 DEC 2000	No data	No data	No data
30 JAN 2001	No data	No data	No data
28 FEB 2001	No data	No data	No data
28 MAR 2001	No data	No data	No data
30 APR 2001	No data	No data	No data
AAS-06			
31 JUL 2000	2	120	20
28 AUG 2000	No data	No data	No data
28 SEP 2000	No data	No data	No data
30 OCT 2000	No data	No data	No data
28 NOV 2000	2	70	25
28 DEC 2000	No data	No data	No data
28 FEB 2001	No data	No data	No data
28 MAR 2001	No data	No data	No data
30 APR 2001	No data	No data	No data

TABLE 2 (Continued)

Monitoring Date	Sparge Air Pressure (psi)	Sparge Air Temperature (°F)	Sparge Air Injection Rate (scfm)
AAS-07			
31 JUL 2000	1.5	120	12
28 AUG 2000	No data	No data	No data
28 SEP 2000	No data	No data	No data
30 OCT 2000	No data	No data	No data
28 NOV 2000	1.5	70	10
28 DEC 2000	No data	No data	No data
28 FEB 2001	No data	No data	No data
28 MAR 2001	No data	No data	No data
30 APR 2001	No data	No data	No data
AAS-11			
31 JUL 2000	0	120	18
28 AUG 2000	No data	No data	No data
28 SEP 2000	No data	No data	No data
30 OCT 2000	No data	No data	No data
28 NOV 2000	0	70	15
28 DEC 2000	No data	No data	No data
30 JAN 2001	No data	No data	No data
28 FEB 2001	No data	No data	No data
28 MAR 2001	No data	No data	No data
30 APR 2001	No data	No data	No data
AAS-12			
31 JUL 2000	1.5	120	30
28 AUG 2000	No data	No data	No data
28 SEP 2000	No data	No data	No data
30 OCT 2000	No data	No data	No data
28 NOV 2000	2	70	30
28 DEC 2000	No data	No data	No data
30 JAN 2001	No data	No data	No data
28 FEB 2001	No data	No data	No data
28 MAR 2001	No data	No data	No data
30 APR 2001	No data	No data	No data
AAS-13			
31 JUL 2000	0	120	15
28 AUG 2000	No data	No data	No data
28 SEP 2000	No data	No data	No data
30 OCT 2000	No data	No data	No data
28 NOV 2000	0	70	15
28 DEC 2000	No data	No data	No data
30 JAN 2001	No data	No data	No data
28 FEB 2001	No data	No data	No data
28 MAR 2001	No data	No data	No data
30 APR 2001	No data	No data	No data
AAS-14			
31 JUL 2000	3	120	50
28 AUG 2000	No data	No data	No data
28 SEP 2000	No data	No data	No data
30 OCT 2000	No data	No data	No data
28 NOV 2000	2.5	70	45
28 DEC 2000	No data	No data	No data
30 JAN 2001	No data	No data	No data
28 FEB 2001	No data	No data	No data
28 MAR 2001	No data	No data	No data
30 APR 2001	No data	No data	No data

TABLE 2 (Continued)

Monitoring Date	Sparge Air Pressure (psi)	Sparge Air Temperature (°F)	Sparge Air Injection Rate (scfm)
AAS-15			
31 JUL 2000	5	120	35
28 AUG 2000	No data	No data	No data
28 SEP 2000	No data	No data	No data
30 OCT 2000	No data	No data	No data
28 NOV 2000	4	70	35
28 DEC 2000	No data	No data	No data
30 JAN 2001	No data	No data	No data
28 FEB 2001	No data	No data	No data
28 MAR 2001	No data	No data	No data
28 MAR 2001	No data	No data	No data
30 APR 2001	No data	No data	No data
AAS-16			
31 JUL 2000	4	120	34
28 AUG 2000	No data	No data	No data
28 SEP 2000	No data	No data	No data
30 OCT 2000	No data	No data	No data
28 NOV 2000	4	70	30
28 DEC 2000	No data	No data	No data
30 JAN 2001	No data	No data	No data
28 FEB 2001	No data	No data	No data
28 MAR 2001	No data	No data	No data
30 APR 2001	No data	No data	No data
Composite			
31 JUL 2000	7	120	304
28 AUG 2000	No data	No data	No data
28 SEP 2000	No data	No data	No data
30 OCT 2000	No data	No data	No data
28 NOV 2000	8	70	300
28 DEC 2000	No data	No data	No data
30 JAN 2001	No data	No data	No data
28 FEB 2001	No data	No data	No data
28 MAR 2001	No data	No data	No data
30 APR 2001	No data	No data	No data

Note: AAS compressor removed from service on 08 AUG 2000 for repairs.
AAS compressor reinstalled and restarted 10 NOV 2000.
AAS compressor belt failure on 28 DEC 2000. Restarted same day.
AAS compressor failure on 28 FEB 2001.
AAS compressor reinstalled and restarted 22 JUN 2001.

TABLE 3 SUMMARY OF WELL GAUGING DATA COLLECTED ON 25 SEPTEMBER 2000 AND 09 MAY 2001 AT THE NAVY EXCHANGE SERVICE STATION (BUILDING 538), NAVAL AIR STATION, BRUNSWICK, MAINE

Gauging Date	Well Elevation (ft MSL)	Depth to Water (ft)	Depth to LNAPL (ft)	LNAPL Thickness (ft)	Water Elevation (ft MSL)
MW-NASB-008					
25 SEP 2000	59.22	3.51	---	---	55.71
09 MAY 2001	59.22	3.05	---	---	56.17
MW-NASB-009					
25 SEP 2000	59.00	4.45	---	---	54.55
09 MAY 2001	59.00	4.18	---	---	54.82
MW-NASB-010					
25 SEP 2000	62.03	7.00	---	---	55.03
09 MAY 2001	62.03	6.70	---	---	55.33
MW-NASB-023					
25 SEP 2000	67.29	7.92	---	---	59.37
09 MAY 2001	67.29	7.24	---	---	60.05
MW-NASB-024					
25 SEP 2000	65.31	6.77	---	---	58.54
09 MAY 2001	65.31	5.82	---	---	59.49
MW-NASB-025					
25 SEP 2000	64.34	6.99	---	---	57.35
09 MAY 2001	64.34	6.67	---	---	57.67
MW-NASB-026					
25 SEP 2000	66.61	7.60	---	---	59.01
09 MAY 2001	66.61	6.93	---	---	59.68
MW-NASB-225					
25 SEP 2000	64.61	6.87	---	---	57.74
09 MAY 2001	64.61	6.40	---	---	58.21
MW-NASB-226					
25 SEP 2000	62.22	5.22	---	---	57
09 MAY 2001	62.22	4.88	---	---	57.34

NOTE: MSL = Mean sea level.
LNAPL = Light, non-aqueous phase liquid.
Dashes (---) indicate LNAPL not detected.

TABLE 4 SUMMARY OF WATER QUALITY INDICATOR PARAMETER MEASUREMENTS COLLECTED ON 25 SEPTEMBER 2000 AND 09 MAY 2001 AT THE NAVY EXCHANGE SERVICE STATION (BUILDING 538), NAVAL AIR STATION, BRUNSWICK, MAINE

Date	pH	Temperature (°C)	Dissolved Oxygen (mg/L)
MW-NASB-008			
25 SEP 2000	6.09	16.91	2.84
09 MAY 2001	6.37	12.79	2.93
MW-NASB-009			
25 SEP 2000	5.79	21.12	1.06
09 MAY 2001	6.19	10.02	0.75
MW-NASB-010			
25 SEP 2000	5.61	17.43	0.56
09 MAY 2001	5.93	11.63	1.57
MW-NASB-023			
25 SEP 2000	6.84	16.29	3.82
09 MAY 2001	5.58	15.97	6.12
MW-NASB-024			
25 SEP 2000	6.21	15.48	4.81
09 MAY 2001	5.73	12.22	9.82
MW-NASB-025			
25 SEP 2000	6.07	19.49	1.25
09 MAY 2001	6.23	14.5	8.89
MW-NASB-026			
25 SEP 2000	6.83	20.78	0.7
09 MAY 2001	6.89	15.1	0.52
MW-NASB-225			
25 SEP 2000	6.09	19.64	0.83
09 MAY 2001	6.15	13.04	0.5
MW-NASB-226			
25 SEP 2000	5.63	19.25	0.5
09 MAY 2001	6.05	11.28	0.15

TABLE 5 SUMMARY OF ANALYTICAL RESULTS FOR GROUND-WATER SAMPLES COLLECTED ON 25-26 SEPTEMBER 2000 AT THE NAVY EXCHANGE SERVICE STATION (BUILDING 538), NAVAL AIR STATION, BRUNSWICK, MAINE

Compound	Sample Location							Stringent Cleanup Goal (1)
	MW-NASB -009	MW-NASB -010	MW-NASB -025	MW-NASB -026	MW-NASB -026 DUP	MW-NASB -225	MW-NASB -226	
VOLATILE ORGANIC COMPOUNDS BY EPA METHOD 8260 (µg/L)								
MTBE	(<1U)	(<1U)	0.7J	(<1U)	(<1U)	(<1U)	(<1U)	35
Benzene	(<1U)	(<1U)	(<1U)	(<1U)	0.6J	(<1U)	(<1U)	5
Toluene	(<1U)	(<1U)	(<1U)	4	4	5,200D	23	---
Ethylbenzene	(<1U)	(<1U)	(<1U)	48	49	3,600D	510D	---
Total Xylenes	(<1U)	(<1U)	(<1U)	400	400	25,000D	2,900D	---
Total BTEX	ND	ND	ND	452	453	33,800	3,433	---
TPH-GRO BY MDHS-HETL LOP 4.2.17 (µg/L)								
TPH-GRO	(<10U)	(<10U)	(<10U)	**11,000**	**6,700**	**21,000**	**6,100**	50
TPH-DRO BY MDHS-HETL LOP 4.1.25 (µg/L)								
TPH-DRO	48J	**64**	43J	**2,700**	**2,800**	**2,200**	**1,400**	50

1. Stringent cleanup goals taken from Procedural Guidelines for Establishing Standards for the Remediation of Oil Contaminated Soil and Ground Water in Maine, MEDEP (1995). Dashes (---) indicate no goal established for this compound.

NOTES:
- EPA = U.S. Environmental Protection Agency.
- MTBE = Methyl tertiary-butyl ether.
- (<__U) = Compound not detected above reporting limit shown.
- D = Indicates compound identified at secondary dilution factor.
- TPH = Total petroleum hydrocarbons.
- GRO = Gasoline range organics.
- DRO = Diesel range organics.
- MDHS = Maine Department of Human Services.
- HETL = Health and Environmental Testing Laboratory.
- LOP = Laboratory Operating Procedure.
- J = Estimated value. Compound detected between the detection limit and the practical quantitation limit.
- DUP = Duplicate field sample.

Dashes indicate no goal established for this compound.
Bold indicates exceedance of the cleanup goal.
Monitoring Wells MW-NASB-008, MW-NASB-023, and MW-NASB-024 were not sampled during the September 2000 sampling event.

TABLE 6 SUMMARY OF ANALYTICAL RESULTS FOR GROUND-WATER SAMPLES COLLECTED ON 9-10 MAY 2001 AT THE NAVY EXCHANGE SERVICE STATION (BUILDING 538), NAVAL AIR STATION, BRUNSWICK, MAINE

Compound	Sample Location										Stringent Cleanup Goal (1)
	MW-NASB -008	MW-NASB -009	MW-NASB -010	MW-NASB -023	MW-NASB -024	MW-NASB -025	MW-NASB -026	MW-NASB -225	MW-NASB -226	MW-NASB -226 DUP	
VOLATILE ORGANIC COMPOUNDS BY EPA METHOD 8260 (µg/L)											
MTBE	2	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	35
Benzene	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	(<1U)	5
Toluene	(<1U)	9	(<1U)	(<1U)	(<1U)	(<1U)	0.7J	84	1,200D	1,200D	---
Ethylbenzene	(<1U)	180	(<1U)	(<1U)	(<1U)	(<1U)	9	170	3,500D	3,600D	---
Total Xylenes	1B	250B	0.6JB	(<1U)	(<1U)	(<1U)	82	1,400D	20,000DB	21,000DB	---
Total BTEX	1	439	0.6	ND	ND	ND	91.7	1,654	24,700	22,300	---
TPH-GRO BY MDHS-HETL LOP 4.2.17 (µg/L)											
TPH-GRO	(<10U)	**1,000**	(<10U)	(<10U)	(<10U)	(<10U)	**6,300**	**3,300**	**22,000**	**20,000**	50
TPH-DRO BY MDHS-HETL LOP 4.1.25 (µg/L)											
TPH-DRO	28BJ	**360B**	**57B**	22BJ	22BJ	13BJ	**1,600B**	**1,100B**	**2,400B**	**1,900B**	50

1. Stringent cleanup goals taken from Procedural Guidelines for Establishing Standards for the Remediation of Oil Contaminated Soil and Ground Water in Maine, MEDEP (1995). Dashes (---) indicate no goal established for this compound.

NOTES:
- EPA = U.S. Environmental Protection Agency.
- MTBE = Methyl tertiary-butyl ether.
- (<__U) = Compound not detected above reporting limit shown.
- D = Indicates compound identified at secondary dilution factor.
- B = Compound detected in the associated laboratory method blank.
- TPH = Total petroleum hydrocarbons.
- GRO = Gasoline range organics.
- DRO = Diesel range organics.
- MDHS = Maine Department of Human Services.
- HETL = Health and Environmental Testing Laboratory.
- LOP = Laboratory Operating Procedure.
- J = Estimated value. Compound detected between the detection limit and the practical quantitation limit.
- DUP = Duplicate field sample.

Dashes indicate no goal established for this compound.
Bold indicates exceedance of the cleanup goal.
Monitoring Wells MW-NASB-008, MW-NASB-023, and MW-NASB-024 were sampled during the May 2001 sampling event only.

TABLE 7 SUMMARY OF ANALYTICAL RESULTS FOR GROUND-WATER SAMPLES COLLECTED FROM 20 MAY 1992 TO 10 MAY 2001 AT THE NAVY EXCHANGE SERVICE STATION (BUILDING 538), NAVAL AIR STATION, BRUNSWICK, MAINE

Date	Benzene	Toluene	Ethyl-benzene	Total Xylenes	Total BTEX	MTBE	TPH-GRO	TPH-DRO
MEDEP Stringent Cleanup Standard	5	---	---	---	---	35	50	50
MW-NASB-008								
12 APR 1994	(<1U)	(<1U)	(<1U)	(<1U)	ND	(<1U)	(<100U)	91
07 JUL 1994	(<1U)	(<1U)	(<1U)	(<1U)	ND	3.6	(<50U)	100
21 MAR 1997	(<1U)	(<1U)	(<1U)	(<1U)	ND	7.7	12	94
10 JUN 1998	(<1U)	(<1U)	(<1U)	(<1U)	ND	20	(<10U)	70
09 JUN 1999	(<0.5U)	(<1U)	(<1U)	(<1.5U)	ND	11	13	58
14 DEC 1999	(<1U)	(<1U)	(<1U)	(<1U)	ND	2	(<10U)	(<50U)
10 MAY 2001	(<1U)	(<1U)	(<1U)	1B	1	2	(<10U)	28BJ
MW-NASB-009								
12 APR 1994	(<1U)	(<1U)	(<1U)	(<1U)	ND	(<1U)	120	170
07 JUL 1994	(<1U)	(<1U)	1.1	1.7	2.8	4.9	78	110
21 MAR 1997	(<1U)	(<1U)	(<1U)	(<1U)	ND	16	10	650
10 JUN 1998	(<1U)	(<1U)	23	15	38	8	180	98
09 JUN 1999	(<0.5U)	(<1U)	(<1U)	(<1U)	ND	(<0.5U)	20	73
14 DEC 1999	(<1U)	(<1U)	(<1U)	0.5J	0.5J	(<1U)	(<10U)	67
14 MAR 2000	(<1U)	(<1U)	(<1U)	(<1U)	ND	(<1U)	(<10U)	(<50U)
12 JUN 2000	(<1U)	(<1U)	(<1U)	(<1U)	ND	(<1U)	(<10U)	58
25 SEP 2000	(<1U)	(<1U)	(<1U)	(<1U)	ND	(<1U)	(<10U)	48J
10 MAY 2001	(<1U)	9	180	250B	439	(<1U)	1,000	360B
MW-NASB-010								
12 APR 1994	(<1U)	(<1U)	(<1U)	(<1U)	ND	(<1U)	(<100U)	600
07 JUL 1994	(<1U)	(<1U)	(<1U)	(<1U)	ND	(<1U)	(<50U)	360
21 MAR 1997	(<1U)	(<1U)	1.1	6.8	7.9	(<1U)	(<10U)	420
10 JUN 1998	(<1U)	(<1U)	(<1U)	(<1U)	ND	(<1U)	(<10U)	290
14 DEC 1999	(<1U)	(<1U)	(<1U)	(<1U)	ND	(<1U)	(<10U)	630
25 SEP 2000	(<1U)	(<1U)	(<1U)	(<1U)	ND	(<1U)	(<10U)	64
10 MAY 2001	(<1U)	(<1U)	(<1U)	0.6JB	0.6	(<1U)	(<10U)	57B

TABLE 7 (Continued)

Date	Benzene	Toluene	Ethyl-benzene	Total Xylenes	Total BTEX	MTBE	TPH-GRO	TPH-DRO
MEDEP Stringent Cleanup Standard	5	---	---	---	---	35	50	50
MW-NASB-023								
20 MAY 1992	(<1U)	(<1U)	(<1U)	(<2U)	ND	(<1U)	(<20U)	(<10U)
13 JUL 1993	(<1U)	(<1U)	(<1U)	(<1U)	ND	(<1U)	(<100U)	(<500U)
12 APR 1994	(<1U)	(<1U)	(<1U)	(<1U)	ND	(<1U)	(<100U)	(<50U)
07 JUL 1994	(<1U)	(<1U)	(<1U)	(<1U)	ND	(<1U)	(<50U)	(<50U)
08 MAR 1995	(<1U)	(<1U)	(<1U)	(<1U)	ND	(<1U)	(<50U)	(<50U)
13 JUN 1995	(<1U)	(<1U)	(<1U)	(<1U)	ND	(<1U)	(<50U)	(<50U)
14 SEP 1995	(<1U)	(<1U)	(<1U)	(<1U)	ND	(<1U)	(<100U)	(<50U)
13 DEC 1995	(<1U)	(<1U)	(<1U)	(<1U)	ND	(<1U)	(<100U)	(<50U)
12 MAR 1996	(<1U)	(<1U)	(<1U)	(<1U)	ND	(<1U)	(<50U)	53
11 JUN 1996	(<1U)	(<1U)	(<1U)	(<1U)	ND	(<1U)	(<50U)	410
19 SEP 1996	(<1U)	(<1U)	(<1U)	(<1U)	ND	(<1U)	(<10U)	(<250U)
16 DEC 1996	(<1U)	(<1U)	(<1U)	(<1U)	ND	(<1U)	(<10U)	
20 MAR 1997	(<1U)	(<1U)	(<1U)	(<1U)	ND	(<1U)	(<1U)	71
04 JUN 1997	(<1U)	(<1U)	(<1U)	(<1U)	ND	(<1U)	(<50U)	68
16 SEP 1997	(<1U)	(<1U)	(<1U)	(<1U)	ND	(<1U)	(<10U)	74
10 DEC 1997	(<1U)	(<1U)	(<1U)	(<1U)	ND	(<1U)	(<10U)	(<50U)
16 MAR 1998	(<1U)	(<1U)	(<1U)	(<1U)	ND	(<1U)	(<10U)	66
10 JUN 1998	(<1U)	(<1U)	(<1U)	(<1U)	ND	(<1U)	(<10U)	(<50U)
15 SEP 1998	(<1U)	(<1U)	(<1U)	(<1U)	ND	(<1U)	(<50U)	(<12U)
02 DEC 1998	(<1U)	3	(<1U)	(<1U)	3	(<1U)	(<10U)	(<50U)
08 JUN 1999	(<0.5U)	(<1U)	(<1U)	(<1.5U)	ND	(<0.5U)	(<10U)	(<50U)
16 SEP 1999	(<0.5U)	(<1U)	(<1U)	(<1.5U)	ND	(<0.5U)	(<10U)	(<50U)
13 DEC 1999	(<1U)	(<1U)	(<1U)	(<1U)	ND	(<1U)	(<10U)	88
10 MAY 2001	(<1U)	(<1U)	(<1U)	(<1U)	ND	(<1U)	(<10U)	22BJ

TABLE 7 (Continued)

Date	Benzene	Toluene	Ethyl-benzene	Total Xylenes	Total BTEX	MTBE	TPH-GRO	TPH-DRO
MEDEP Stringent Cleanup Standard	5	---	---	---	---	35	50	50
MW-NASB-024								
20 MAY 1992	(<1U)	1.1	(<1U)	4.2	5.3	(<2U)	35	460
13 JUL 1993	(<1U)	(<1U)	(<1U)	(<1U)	ND	(<1U)	(<100U)	(<500U)
12 APR 1994	(<1U)	(<1U)	(<1U)	(<1U)	ND	(<1U)	(<50U)	99
07 JUL 1994	(<1U)	(<1U)	(<1U)	(<1U)	ND	(<1U)	(<100U)	280
08 MAR 1995	(<1U)	(<1U)	(<1U)	(<1U)	ND	(<1U)	(<50U)	91
13 JUN 1995	(<1U)	(<1U)	(<1U)	(<1U)	ND	(<1U)	(<50U)	(<50U)
14 SEP 1995	(<1U)	(<1U)	(<1U)	(<1U)	ND	(<1U)	(<100U)	(<50U)
13 DEC 1995	(<1U)	(<1U)	(<1U)	(<1U)	ND	(<1U)	(<100U)	51
13 MAR 1996	(<1U)	(<1U)	(<1U)	(<1U)	ND	(<1U)	(<50U)	(<50U)
11 JUN 1996	(<1U)	(<1U)	(<1U)	(<1U)	ND	(<1U)	(<50U)	86
19 SEP 1996	(<1U)	(<1U)	(<1U)	2.3	2.3	(<1U)	(<10U)	(<250U)
16 DEC 1996	(<1U)	(<1U)	(<1U)	(<1U)	ND	(<1U)	(<10U)	
21 MAR 1997	(<1U)	2.5	(<1U)	2	4.5	(<1U)	(<10U)	110
04 JUN 1997	(<1U)	(<1U)	(<1U)	(<1U)	ND	(<1U)	(<50U)	230
16 SEP 1997	(<1U)	(<1U)	(<1U)	(<1U)	ND	(<1U)	(<10U)	82
10 DEC 1997	(<1U)	(<1U)	(<1U)	(<1U)	ND	(<1U)	470	84
16 MAR 1998	(<1U)	(<1U)	(<1U)	(<1U)	ND	(<1U)	(<10U)	93
10 JUN 1998	(<1U)	(<1U)	(<1U)	(<1U)	ND	(<1U)	(<10U)	72
15 SEP 1998	(<1U)	(<1U)	(<1U)	(<1U)	ND	(<1U)	13	(<50U)
01 DEC 1998	(<1U)	3	(<1U)	(<1U)	3	(<1U)	(<11U)	(<82U)
02 MAR 1999	(<1U)	(<1U)	(<1U)	(<1U)	ND	(<1U)	22	(<50U)
09 JUN 1999	(<0.5U)	(<1U)	(<1U)	(<1.5U)	ND	(<0.5U)	(<10U)	66
16 SEP 1999	(<0.5U)	(<1U)	(<1U)	(<1.5U)	ND	(<0.5U)	(<10U)	(<50U)
14 DEC 1999	(<1U)	(<1U)	(<1U)	(<1U)	ND	(<1U)	(<10U)	(<50U)
10 MAY 2001	(<1U)	(<1U)	(<1U)	(<1U)	ND	(<1U)	(<10U)	22BJ

TABLE 7 (Continued)

Date	Benzene	Toluene	Ethyl-benzene	Total Xylenes	Total BTEX	MTBE	TPH-GRO	TPH-DRO
MEDEP Stringent Cleanup Standard	5	---	---	---	---	35	50	50
MW-NASB-025								
20 MAY 1992	14	18	4.8	23	59.8	2.5	(<20U)	61
13 JUL 1993	2	(<1U)	(<1U)	(<1U)	2	2	(<100U)	(<500U)
12 APR 1994	(<1U)	(<1U)	(<1U)	(<1U)	ND	(<1U)	(<100U)	100
07 JUL 1994	2.1	3	(<1U)	2.3	7.4	3.2	51	110
08 MAR 1995	4.8	2.3	6.1	12	25.2	7.3	60	57
13 JUN 1995	1.2	4.3	6.7	83	95.2	33	150	87
14 SEP 1995	(<1U)	(<1U)	(<1U)	(<1U)	ND	23	130	110
14 DEC 1995	(<1U)	(<1U)	(<1U)	(<1U)	ND	63	(<100U)	56
12 MAR 1996	(<1U)	(<1U)	(<1U)	(<1U)	ND	54	(<50U)	(<50U)
11 JUN 1996	(<1U)	(<1U)	(<1U)	(<1U)	ND	49	(<50U)	570
19 SEP 1996	(<1U)	(<1U)	(<1U)	(<1U)	ND	130	79	(<250U)
16 DEC 1996	(<1U)	(<1U)	(<1U)	(<1U)	ND	87	120	
21 MAR 1997	(<1U)	1.2	(<1U)	1.6	2.8	27	17	240
04 JUN 1997	(<1U)	(<1U)	(<1U)	(<1U)	ND	26	54	99
16 SEP 1997	(<1U)	(<1U)	(<1U)	(<1U)	ND	100	150	110
10 DEC 1997	(<1U)	(<1U)	(<1U)	(<1U)	ND	140	320	98
16 MAR 1998	(<1U)	(<1U)	(<1U)	(<1U)	ND	46	(<10U)	54
10 JUN 1998	(<1U)	(<1U)	(<1U)	(<1U)	ND	44	(<10U)	100
15 SEP 1998	(<1U)	(<1U)	(<1U)	(<1U)	ND	32	15	64
01 DEC 1998	14	18	4.8	23	59.8	2.5	(<20U)	61
02 MAR 1999	(<1U)	(<1U)	(<1U)	(<1U)	ND	5	61	(<50U)
09 JUN 1999	(<0.5U)	(<1U)	(<1U)	(<1U)	ND	3.1	11	59
16 SEP 1999	(<0.5U)	(<1U)	(<1U)	(<1.5U)	ND	4.1	(<10U)	(<50U)
14 DEC 1999	(<1U)	(<1U)	(<1U)	(<1U)	ND	1	(<10U)	(<50U)
25 SEP 2000	(<1U)	(<1U)	(<1U)	(<1U)	ND	0.7J	(<10U)	43J
10 MAY 2001	(<1U)	(<1U)	(<1U)	(<1U)	ND	(<1U)	(<10U)	13BJ

TABLE 7 (Continued)

Date	Benzene	Toluene	Ethyl-benzene	Total Xylenes	Total BTEX	MTBE	TPH-GRO	TPH-DRO
MEDEP Stringent Cleanup Standard	5	---	---	---	---	35	50	50
MW-NASB-026								
20 MAY 1992	1,000	12,000	3,900	22,000	38,900	2,000	210,000	84,000
13 JUL 1993	810	5,900	110	690	7,510	(<100U)	24,000	15,000
12 APR 1994	47	4,200	2,000	16,700	22,947	210	3,500	85,000
07 JUL 1994	21	4,300	2,900	24,800	32,021	81	80,000	13,000
08 MAR 1995	5.9	690	1,000	9,000	10,695.9	120	30,000	4,300
13 JUN 1995	(<1U)	170	880	8,400	9,450	470	32,000	7,800
14 SEP 1995	30	180	1,000	8,100	9,310	50	32,000	6,900
13 DEC 1995	(<10U)	89	1,500	11,500	13,089	400	15,000	6,100
13 MAR 1996	(<10U)	90	1,300	9,000	10,390	340	40,000	6,600
11 JUN 1996	(<5U)	12	410	2,940	3,362	92	14,000	3,100
19 SEP 1996	(<10U)	34	1,200	7,800	9,034	(<10U)	28,000	5,800
16 DEC 1996	(<5U)	(<5U)	310	2,270	2,580	(<5U)	11,000	
20 MAR 1997	(<1U)	27	910	5,990	6,927	49	16,000	5,400
04 JUN 1997	(<1U)	22	530	3,350	3,902	560	23,000	7,200
16 SEP 1997	(<5U)	14	840	6,540	7,394	(<5U)	18,000	7,500
10 DEC 1997	11	22	620	3,370	4,023	(<1U)	29,000	7,300
16 MAR 1998	(<1U)	(<1U)	260	1,694	1,954	550	10,000	5,300
10 JUN 1998	6	6	320	1,710	2,042	430	15,000	3,800
15 SEP 1998	(<5U)	7	460	2,950	3,417	(<5U)	1,200	7,800
01 DEC 1998	45	8	390	2,351	2,794	370	14,000	6,600
09 JUN 1999	(<50U)	180	140	1,200	1,520	68	16,000	6,200
16 SEP 1999	(<50U)	(<100U)	130	1,000	1,130	(<50U)	15,000	12,000
15 DEC 1999	(<1U)	(<1U)	11	120	131	(<1U)	4,500	4,800
14 MAR 2000	(<1U)	(<1U)	1	15	16	(<1U)	980	1,000
13 JUN 2000	(<1U)	(<1U)	5	49	54	(<1U)	5,200	1,500
25 SEP 2000	(<1U)	4	48	400	452	(<1U)	11,000	2,700
09 MAY 2001	(<1U)	0.7J	9	82	91.7	(<1U)	6,300	1,600B
MW-NASB-026 DUP								
25 SEP 2000	0.6J	4	49	400	453	(<1U)	6,700	2,800

TABLE 7 (Continued)

Date	Benzene	Toluene	Ethyl-benzene	Total Xylenes	Total BTEX	MTBE	TPH-GRO	TPH-DRO
MEDEP Stringent Cleanup Standard	5	---	---	---	---	35	50	50
MW-NASB-027								
20 MAY 1992	(<1U)	(<1U)	(<1U)	(<2U)	ND	5.9	56	300
13 JUL 1993	(<1U)	(<1U)	(<1U)	(<1U)	ND	(<1U)	(<100U)	(<500U)
12 APR 1994	(<1U)	(<1U)	(<1U)	(<1U)	ND	(<1U)	(<100U)	53
07 JUL 1994	(<1U)	(<1U)	(<1U)	(<1U)	ND	(<1U)	(<50U)	150
08 MAR 1995	(<1U)	1.4	(<1U)	2.9	4.3	(<1U)	1,600	(<50U)
13 JUN 1995	(<1U)	(<1U)	(<1U)	(<1U)	ND	(<1U)	(<50U)	62
14 SEP 1995	(<1U)	(<1U)	(<1U)	(<1U)	ND	(<1U)	(<100U)	65
14 DEC 1995	(<1U)	(<1U)	(<1U)	(<1U)	ND	(<1U)	(<100U)	
12 MAR 1996	(<1U)	(<1U)	(<1U)	(<1U)	ND	(<1U)	(<100U)	(<50U)
11 JUN 1996	(<1U)	(<1U)	(<1U)	(<1U)	ND	(<1U)	(<50U)	88
19 SEP 1996	(<1U)	(<1U)	(<1U)	(<1U)	ND	(<1U)	(<10U)	(<250U)
16 DEC 1996	(<1U)	(<1U)	(<1U)	(<1U)	ND	(<1U)	(<10U)	
21 MAR 1997	(<1U)	(<1U)	(<1U)	(<1U)	ND	(<1U)	(<10U)	76
04 JUN 1997	(<1U)	(<1U)	(<1U)	(<1U)	ND	(<1U)	(<50U)	91
16 SEP 1997	(<1U)	(<1U)	(<1U)	(<1U)	ND	(<1U)	(<10U)	150
MW-NASB-225								
20 MAR 1997	(<1U)	17,000	2,400	13,600	33,000	(<1U)	34,000	4,500
05 JUN 1997	35	17,000	2,200	11,800	31,035	(<1U)	64,000	7,000
16 SEP 1997	(<1U)	5,300	1,100	6,000	12,400	(<1U)	15,000	4,600
10 DEC 1997	(<1U)	9,200	1,600	8,600	19,400	(<1U)	65,000	6,000
16 MAR 1998	(<1U)	12,000	1,700	9,500	23,200	(<1U)	25,000	6,300
10 JUN 1998	9	9,600	2,100	11,100	22,809	(<1U)	30,000	3,100
15 SEP 1998	(<10U)	13,000	2,500	13,100	28,600	(<10U)	4,000	6,600
02 MAR 1999	3	72	32	1,490D	1,597	(<1U)	5,000	690
10 JUN 1999	(<0.5U)	1.6	(<1U)	3.4	5	(<0.5U)	130	350
16 SEP 1999	(<0.5U)	(<1U)	(<1U)	9.7	9.7	(<0.5U)	300	720
15 DEC 1999	(<1U)	(<1U)	39	71	110	(<1U)	380	470
14 MAR 2000	(<1U)	15	12	390	417	(<1U)	1,800	1,100
13 JUN 2000	(<1U)	(<1U)	(<1U)	(<1U)	ND	(<1U)	98	480
26 SEP 2000	(<1U)	5,200D	3,600D	25,000D	33,800	(<1U)	21,000	2,200
09 MAY 2001	(<1U)	84	170	1,400D	1,654	(<1U)	3,300	1,100B
MW-NASB-225 DUP								
14 MAR 2000	(<1U)	15	11	350	376	(<1U)	1,400	840

TABLE 7 (Continued)

Date	Benzene	Toluene	Ethyl-benzene	Total Xylenes	Total BTEX	MTBE	TPH-GRO	TPH-DRO
MEDEP Stringent Cleanup Standard	5	---	---	---	---	35	50	50
MW-NASB-226								
02 MAR 1999	(<1U)	490D	160D	1,100D	1,600	18	10,000	8,000D
10 JUN 1999	(<500U)	2,800	(<1,000U)	4,100	6,900	(<500U)	17,000	1,600
16 SEP 1999	(<50U)	(<100U)	(<100U)	230	230	(<50U)	4,200	450
15 DEC 1999	(<1U)	100	200	1,300D	1,600	(<1U)	2,300	510
14 MAR 2000	(<1U)	89	560D	1,900	2,549	(<1U)	3,100	1,800
12 JUN 2000	(<1U)	8	66	260	334	(<1U)	1,200	390
26 SEP 2000	(<1U)	23	510D	2,900D	3,433	(<1U)	6,100	1,400
09 MAY 2001	(<1U)	1,200D	3,500D	20,000DB	24,700	(<1U)	22,000	2,400B
MW-NASB-226 DUP								
02 MAR 1999	(<1U)	580D	190D		1,880	9	5,200	710
10 JUN 1999	(<500U)	2,800	(<1,000U)	4,300	7,100	(<500U)	17,000	1,700
16 SEP 1999	(<25U)	(<50U)	70	220	290	(<25U)	1,500	350
15 DEC 1999	(<1U)	120	280D	1,200D	1,600	(<1U)	2,900	490
12 JUN 2000	(<1U)	9	76	290	375	(<1U)	1,100	280
09 MAY 2001	(<1U)	1,200D	3,600D	21,000DB	22,300	(<1U)	20,000	1,900B
Rinse Blank								
13 DEC 1999	(<1U)	(<1U)	(<1U)	0.6J	0.6	(<1U)	(<10U)	(<50U)
14 MAR 2000	(<1U)	(<1U)	(<1U)	(<1U)	ND	(<1U)	(<10U)	(<50U)
12 JUN 2000	(<1U)	(<1U)	(<1U)	0.6J	0.6J	(<1U)	(<10U)	(<50U)
26 SEP 2000	(<1U)	(<1U)	(<1U)	(<1U)	ND	(<1U)	(<10U)	160
Trip Blank								
14 MAR 2000	(<1U)	(<1U)	(<1U)	(<1U)	ND	(<1U)		
13 JUN 2000	(<1U)	(<1U)	(<1U)	0.6J	0.6J	(<1U)		
26 SEP 2000	(<1U)	(<1U)	(<1U)	(<1U)	ND	(<1U)		
09 MAY 2001	(<1U)	(<1U)	(<1U)	(<1U)	ND	(<1U)		

NOTE: MEDEP = Maine Department of Environmental Protection.
BTEX = Benzene, toluene, ethylbenzene, and total xylenes.
MTBE = Methyl tertiary-butyl ether.
TPH = Total petroleum hydrocarbons.
GRO = Gasoline range organics.
DRO = Diesel range organics.
U = Not detected. Sample quantitation limits shown as (<__U).
B = Compound detected in associated method blank.
J = Estimated concentration.
D = Indicates compound identified at secondary dilution factor.
ND = Compound not detected.

Dashes (---) indicate goal not established.

Attachment A

SVE/AAS System Operations Data

EA Engineering, Science, and Technology

FIELD RECORD OF SVE SYSTEM OPERATIONS

Project Name: NEY	Project No.: 2560035	Date: 7/31/00
EA Personnel: SC, MC	Building Temperature: 75	

Location	Time (hr/min)	Vacuum (in H_2O)	Flow Rate (scfm)	Air Temperature (°F)	O_2 (%)	CO_2 (%)	Total Volatile Hydrocarbons (ppm_v)
SVE-2		25	150				3
3		10	100				3
4		28	0				—
5		20	130				1.5
Knockout		56					
vac relief		90					
influent				75			1
effluent							8
SVE 2		NA					
3		6					
4		0					
5		2					
6		2					
7		2					
8		2					

EA 5120 0794-4

Page 1 of 1

COMMENTS:

EA Engineering, Science, and Technology

FIELD RECORD OF AAS SYSTEM OPERATIONS

Project Name: NEY	Project No.: 2960035	Date: 7/31/00
EA Personnel: SC MC	Building Temperature: 75	

Location	Time (0000 hours)	Sparge Pressure (PSI)	Sparge Rate (scfm)	Sparge Air Temperature (°F)	Comments
AHS - 3		5	40		
4		5	20		
5		2	30		
6		2	20		
7		1.5	12		
11		0	18		
12		1.5	30		
13		0	15		
14		3	50		
15		5	35		
16		4	34		
Mainline		7	304	120	

EA 5120 0794-5

Page 1 of 1

COMMENTS: _____

EA Engineering, Science, and Technology

FIELD RECORD OF SVE SYSTEM OPERATIONS

Project Name: NEY	Project No.: 2960035	Date: 8/28/00
EA Personnel: SC, MC	Building Temperature: 80	

Location	Time (hr/min)	Vacuum (in H_2O)	Flow Rate (scfm)	Air Temperature (°F)	O_2 (%)	CO_2 (%)	Total Volatile Hydrocarbons (ppm_v)
SVE-2		25	155				
3		10	100				
4		25	0				
5		18	130				
Knockout		56					
Vac relief		86					
influent							
effluent							7
SVE 3		-6					
4		0					
5		2					
6		2					
7		2					
8		2					

EA 5120 0794-4

Page 1 of 1

COMMENTS: System found off. Restarted SVE. Returned 29 August 2000. AAS motor ceased, unable to start. Sent for repair.

EA Engineering, Science, and Technology

FIELD RECORD OF AAS SYSTEM OPERATIONS

Project Name:	NEY	Project No.:	29600.3S	Date:	8/28/00
EA Personnel:	SC, MC	Building Temperature:	80		

Location	Time (0000 hours)	Sparge Pressure (PSI)	Sparge Rate (scfm)	Sparge Air Temperature (°F)	Comments
AAS- 3					
4					
5					
6					
7					
11					
12					
13					
14					
15					
16					
main line					

EA 5120 0794-5

Page 1 of 1

COMMENTS: System found OFF, Motor ceased, Sent out for repair.

EA Engineering, Science, and Technology

FIELD RECORD OF SVE SYSTEM OPERATIONS

Project Name: NEY	Project No.: 2960035	Date: 9-28-00
EA Personnel: SC, MC	Building Temperature: 90	

Location	Time (hr/min)	Vacuum (in H_2O)	Flow Rate (scfm)	Air Temperature (°F)	O_2 (%)	CO_2 (%)	Total Volatile Hydrocarbons (ppm_v)
SVE-2		24	160				
3		10	100				
4		30	0				
5		20	150				
1c knockout		52		80			
vac relief		88	~~8~~ 12				
influent							
effluent							8
SVE 3		—6					
4		0					
5		2					
6		2					
7		2					
8		2					

EA 5120 0794-4

Page 1 of 1

COMMENTS: 28 August 2000. System Found OFF. Restarted SVE system prior to leaving. Returned 29 August 2000. Determined AAS motor ceased unable to start, sent out for repair.

EA Engineering, Science, and Technology

FIELD RECORD OF AAS SYSTEM OPERATIONS

Project Name: NEY	Project No.: 2960035	Date: 9-28-00
EA Personnel: S C MC	Building Temperature: 90	

Location	Time (0000 hours)	Sparge Pressure (PSI)	Sparge Rate (scfm)	Sparge Air Temperature (°F)	Comments
AAS- 3					
4					
5					
6					
7					
11					
12					
13					
14					
15					
16					
Mainline					

EA 5120 0794-5

COMMENTS: 28 August 2000 System Found OFF. Something In the motor ceased motor out For repair. AAS System off as of 28 August 2000

EA Engineering, Science, and Technology

FIELD RECORD OF SVE SYSTEM OPERATIONS

Project Name: NEY	Project No.: 2960035	Date: 10/30/00
EA Personnel: SC	Building Temperature: 65°	

Location	Time (hr/min)	Vacuum (in H_2O)	Flow Rate (scfm)	Air Temperature (°F)	O_2 (%)	CO_2 (%)	Total Volatile Hydrocarbons (ppm_v)
SVE-2		30	150				
3		15	105				
4		20	0				
5		10	130				
Knockout		52					
vac relief							
inf							
eff.							7
SVE 3	5						
4	0						
5	2						
6	2						
7	2						
8	2						

EA 5120 0794-4

Page 1 of 1

COMMENTS:

EA Engineering, Science, and Technology

FIELD RECORD OF AAS SYSTEM OPERATIONS

Project Name:	NEV	Project No.:	29600.35	Date:	10/30/00
EA Personnel:	SC, MC	Building Temperature:	90		

Location	Time (0000 hours)	Sparge Pressure (PSI)	Sparge Rate (scfm)	Sparge Air Temperature (°F)	Comments
AAS-3					
4					
5					
6					
7					
11					
12					
13					
14					
15					
16					
mainline					

EA 5120 0794-5

Page ____ of ____

COMMENTS: System OFF - Blower out for repair

EA Engineering, Science, and Technology

FIELD RECORD OF SVE SYSTEM OPERATIONS

Project Name: MEX	Project No.: 29600.35	Date: 11/10/00
EA Personnel: MDC	Building Temperature:	

Location	Time (hr/min)	Vacuum (in H_2O)	Flow Rate (scfm)	Air Temperature (°F)	O_2 (%)	CO_2 (%)	Total Volatile Hydrocarbons (ppm_v)
SVE-3			—				0
-4							no flow
-5			—				0
-2		30	160				0
Knockout		60		50			
Vac-relief		90					
influent							0
effluent							7

EA 5120 0794-4

Page ____ of ____

COMMENTS: Start up SVE 1030, Took readings - Then start up AAS at 1108

EA Engineering, Science, and Technology

FIELD RECORD OF SVE SYSTEM OPERATIONS

Project Name: NEV	Project No.: 2960035	Date: 11/28/00
EA Personnel: SC, MC	Building Temperature: 70	

Location	Time (hr/min)	Vacuum (in H_2O)	Flow Rate (scfm)	Air Temperature (°F)	O_2 (%)	CO_2 (%)	Total Volatile Hydrocarbons (ppm_v)
SVE 2		15	150				3
3		35	110				3
4		20	0				—
5		0	130				2
Knockout		60					
vac relief		35					
inf							2
eff							7
SVE -3		6					
4		0					
5		2					
6		2					
7		2					
8		2					

OUTSIDE

EA 5120 0794-4

Page 1 of 1

COMMENTS:

EA Engineering, Science, and Technology

FIELD RECORD OF AAS SYSTEM OPERATIONS

Project Name: NEY	Project No.: 2960035	Date: 11/28/00
EA Personnel: SC, MC	Building Temperature:	

Location	Time (0000 hours)	Sparge Pressure (PSI)	Sparge Rate (scfm)	Sparge Air Temperature (°F)	Comments
AAS -3		5	40		
4		5	25		
5		2	30		
6		2	25		
7		1.5	10		
11		0	15		
12		2	30		
13		0	15		
14		2.5	45		
15		4	35		
16		4	30		
mainline		8	300	70	

EA 5120 0794-5

COMMENTS: _____

EA Engineering, Science, and Technology

FIELD RECORD OF SVE SYSTEM OPERATIONS

Project Name: MEX	Project No.: 29600.35	Date: 12/28
EA Personnel: MDC	Building Temperature: 68	

Location	Time (hr/min)	Vacuum (in H_2O)	Flow Rate (scfm)	Air Temperature (°F)	O_2 (%)	CO_2 (%)	Total Volatile Hydrocarbons (ppm_v)
SVE-3		20	-100				2
-4		—	—				no flow
-5		15	130				1
-2		38	160				1
Knockout		60					
Vac-relief		105		40			
influent							1
effluent							1
Sve-3		5					
4		0					
5		2					
6		2					
7		2					
8		2					

EA 5120 0794-4

Page ____ of ____

COMMENTS:

EA Engineering, Science, and Technology

FIELD RECORD OF AAS SYSTEM OPERATIONS

Project Name: NEX	Project No.: 2960035	Date: 12/28/00
EA Personnel: SYC, MDC	Building Temperature:	

Location	Time (0000 hours)	Sparge Pressure (PSI)	Sparge Rate (scfm)	Sparge Air Temperature (°F)	Comments
AHS-3					
4					
5					
6					
7					
11					
12					
13					
14					
15					
16					
mainline					

EA 5120 0794-5

Page ____ of _____

COMMENTS: bolts found broken

EA Engineering, Science, and Technology

FIELD RECORD OF SVE SYSTEM OPERATIONS

Project Name:	Project No.:	Date: 1/30/01
EA Personnel:	Building Temperature: 70	

Location	Time (hr/min)	Vacuum (in H_2O)	Flow Rate (scfm)	Air Temperature (°F)	O_2 (%)	CO_2 (%)	Total Volatile Hydrocarbons (ppm_v)
SVE - 2		38	160				1
3		20	100				2
4		—	—				—
5		15	>130				1
Knockout		70					
Vac relief		100		45			
influent							1
effluent							1
SVE - 2							
3							
4							
5							
6							
7							
8							

outside

EA 5120 0794-4

Page ____ of ____

COMMENTS: unable to record outside SVE - numbers due to inaccessability due to snow

EA Engineering, Science, and Technology

FIELD RECORD OF AAS SYSTEM OPERATIONS

Project Name: NEX	Project No.: 2960035	Date: 1/30/01
EA Personnel: SC, MC	Building Temperature: 70	

Location	Time (0000 hours)	Sparge Pressure (PSI)	Sparge Rate (scfm)	Sparge Air Temperature (°F)	Comments
AAS- 3					
4					
5					
11					
12					
13					
14					
15					
16					
mainline		7		110	
6					
7					

EA 5120 0794-5

Page 1 of 1

COMMENTS: Unable to record AAS # outside due to inaccessibility due to snow

EA Engineering, Science, and Technology

FIELD RECORD OF SVE SYSTEM OPERATIONS

Project Name: NEVOTM	Project No.: 2960035	Date: 2/28
EA Personnel: SC MC	Building Temperature:	

Location	Time (hr/min)	Vacuum (in H_2O)	Flow Rate (scfm)	Air Temperature (°F)	O_2 (%)	CO_2 (%)	Total Volatile Hydrocarbons (ppm_v)
SVE 2		30	150				2
3		15	105				3
4		—	—				—
5		15	130				1
Knockout		50					
vacrelief		105		40			
influent							1
effluent							1
SVE 3							
4							
5							
6							
7							
8							

EA 5120 0794-4

Page 1 of 1

COMMENTS: unable to read outside SVE #'s due to inaccessibility due to snow

onsite 3/7/01 to clear snow from in front of door. System found oil all over blower head. System will not restart. No faults showing on indicators. Determined AAS blower is cleared. Restarted SVE 3/7/01

EA Engineering, Science, and Technology

FIELD RECORD OF SVE SYSTEM OPERATIONS

Project Name: NEVOTM	Project No.: 2960047	Date: 2/28
EA Personnel: SC MC	Building Temperature: 75	

Location	Time (hr/min)	Vacuum (in H_2O)	Flow Rate (scfm)	Air Temperature (°F)	O_2 (%)	CO_2 (%)	Total Volatile Hydrocarbons (ppm_v)
HAS-3							
4							
5							
6							
7							
11							
12							
13							
14							
15							
16							
Mainline		7		120			

EA 5120 0794-4

Page ____ of ____

COMMENTS: Unable to record HAS # due to inaccessibility due to Snow

EA Engineering, Science, and Technology

FIELD RECORD OF SVE SYSTEM OPERATIONS

Project Name: 2960035	Project No.: 2960035	Date: 3/28/01
EA Personnel: SC	Building Temperature: 80	

Location	Time (hr/min)	Vacuum (in H_2O)	Flow Rate (scfm)	Air Temperature (°F)	O_2 (%)	CO_2 (%)	Total Volatile Hydrocarbons (ppm_v)
SVE-2		35	150				
3		18	100				
4		—	0				—
5			130				
Knockout		60		50			
vacrelief							
influent							
effluent							
SVE 3							
4							
5							
6							
7							
8							

OUTSIDE

EA 5120 0794-4

Page 1 of 1

COMMENTS: Unable to get TV # readings for SVE 2, 3, 4, 5 and influent as AMS blower is out for repair.

Unable to get SVE readings outside due to snow/ice

EA Engineering, Science, and Technology

FIELD RECORD OF AAS SYSTEM OPERATIONS

Project Name: NEX	Project No.: 2960035	Date: 3/28/01
EA Personnel: SC	Building Temperature:	

Location	Time (0000 hours)	Sparge Pressure (PSI)	Sparge Rate (scfm)	Sparge Air Temperature (°F)	Comments

EA 5120 0794-5

Page 1 of 1

COMMENTS: AAS blower out for repair. System go as of 3/7/01

EA Engineering, Science, and Technology

FIELD RECORD OF SVE SYSTEM OPERATIONS

Project Name: 29600.35 - NET	Project No.: 29600.35	Date: 4/30/9
EA Personnel: BA	Building Temperature: 100	

Location	Time (hr/min)	Vacuum (in H_2O)	Flow Rate (scfm)	Air Temperature (°F)	O_2 (%)	CO_2 (%)	Total Volatile Hydrocarbons (ppm_v)
SVE 2		25	150				
3		13	110				
4		—	0				
5		>100	130				
knockout		50		65			
Vac relief		110					
influent							
effluent							>1 ppm
SVE 3							
4							
5							
6							
7							
8							

OUTSIDE

EA 5120 0794-4

Page ____ of ____

COMMENTS: Unable to get TVA Readings for SVE 2,3,4,5 and influent as AAS blower is out ~~for repair~~ and install of new blower is scheduled. No outside AAS readings.

EA Engineering, Science, and Technology

FIELD RECORD OF SVE SYSTEM OPERATIONS

Project Name: NEX	Project No.: 2960035	Date: 5/31/01
EA Personnel: SC	Building Temperature: 74	

Location	Time (hr/min)	Vacuum (in H_2O)	Flow Rate (scfm)	Air Temperature (°F)	O_2 (%)	CO_2 (%)	Total Volatile Hydrocarbons (ppm_v)
SVE 2		25	160				*
3		10	100				*
4		—	—				*
5		**	7130				*
Knockout		60					
Vacrelief		105		70			
influent							
effluent							2
OUTSIDE SVE 3		5					
4		0					
5		2					
6		2					
7		2					
8		2					

EA 5120 0794-4

Page ____ of ____

COMMENTS: *unable to get TVA Readings for SVE-2-5 and influent as AWS blower is out for repair

gas mainline 80° 4psi

** gauge broken

Attachment B

Water Quality Indicator Parameter Data

EA Engineering, Science, and Technology

FIELD RECORD OF WATER QUALITY PARAMETER ANALYSIS

EA Personnel: SC, MC	Date: 9-25-00	Time:
Weather: Sunny, 65°	Equipment: interface probe	

Location	Depth to Water (ft)	Depth to Product (ft)	pH	Temperature (°C)	Dissolved Oxygen (mg/L)	Conductivity (µhmos)	Redox (mV)
MW-NASB23	7.92	—	6.84	16.29	3.82		
24	6.77	—	6.21	15.48	4.81		
25	6.99	—	6.11	16.72	4.99		
26	7.60	—	6.81	19.34	0.75		
08	3.51	—	6.09	16.91	2.84		
09	4.45	—	5.86	15.93	1.34		
10	7.00	—	5.59	17.70	0.90		
225	6.87	—	5.65	14.56	3.42		
226	5.22	—	5.71	16.83	2.60		

Comments:

EA 5120 0794-7

Attachment C

Field Record of Well Gauging, Purging, and Sampling Forms

EA Engineering, Science, and Technology.

FIELD RECORD OF WELL GAUGING, PURGING, AND SAMPLING

SITE NAME: NEX
WELL I.D.: MW-NASB-09
WELL CONDITION: good

PROJECT NUMBER: 29600.35
WELL LOCK STATUS: locked
WEATHER: Sunny, Cold, 40°

GAUGE DATE: 9-25-00
SOUNDING METHOD: Slope indicator
STICK UP/DOWN (ft):

GAUGE TIME: 950
MEASUREMENT REF: TOC
WELL DIAMETER (in.): 2

PURGE DATE: 9-25-00
PURGE METHOD: Low Flow
AMBIENT AIR VOCs (ppm) Start: 0 End: 0

PURGE TIME: 1015
FIELD PERSONNEL: SC, MC
WELL MOUTH VOCs (ppm): Start: 0 End: 0

WELL VOLUME

A. WELL DEPTH (ft):
B. DEPTH TO WATER (ft): 4.45
C. LIQUID DEPTH (ft) (A-B):

D. WELL VOLUME/FT (L):
E. WELL VOLUME (L) (C*D):
F. THREE WELL VOLUMES (L) (E*3):

Parameter	Beginning	1	2	3	4	5
Time (min)	1020	1025	1030	1035	1040	1045
Depth to Water (ft)	4.47	4.47	4.47	4.47	4.47	4.47
Purge Rate (L/min)	0.1	0.1	0.1	0.1	0.1	0.1
Volume Purged (L)	0.5	1	1.5	2	2.5	3
pH	5.86	5.81	5.80	5.80	5.79	5.79
Temperature (°C)	15.93	18.97	19.91	20.81	20.99	21.12
Conductivity (µmhos/cm)	294	300	297	296	296	298
Dissolved Oxygen (mg/L)	1.34	1.26	1.19	1.10	1.08	1.06
Turbidity (NTU)	72	34	26	19	18	18
Eh (mv)	100	81	77	78	80	80

TOTAL QUANTITY OF WATER REMOVED (L):

SAMPLERS: SC, MC
SAMPLING TIME (START/END): 1050
SAMPLING DATE: 9-25-00
DECONTAMINATION FLUIDS USED: ~~None~~ DI water, Isopropyl
SAMPLE TYPE: grab
SAMPLE PRESERVATIVES: HCL
SAMPLE BOTTLE IDs: MW-NEX-09
SAMPLE PARAMETERS: VOC 8260, DRO GRO
COMMENTS AND OBSERVATIONS:

EA Engineering, Science, and Technology

FIELD RECORD OF WELL GAUGING, PURGING, AND SAMPLING

SITE NAME: NEX
WELL I.D.: MW-NASB-10
WELL CONDITION: good

PROJECT NUMBER: 2960035
WELL LOCK STATUS: locked
WEATHER: Sunny, 55

GAUGE DATE: 9-25-00
SOUNDING METHOD: Slope indicator
STICK UP/DOWN (ft):

GAUGE TIME: 1236
MEASUREMENT REF: TOC
WELL DIAMETER (in.): 2

PURGE DATE: 9-25-00
PURGE METHOD: Low Flow
AMBIENT AIR VOCs (ppm) Start: 0 End: 0

PURGE TIME: 1245
FIELD PERSONNEL: SC MC
WELL MOUTH VOCs (ppm): Start: 0 End: 0

WELL VOLUME

A. WELL DEPTH (ft):
B. DEPTH TO WATER (ft): 7.00
C. LIQUID DEPTH (ft) (A-B):
D. WELL VOLUME/FT (L):
E. WELL VOLUME (L) (C*D):
F. THREE WELL VOLUMES (L) (E*3):

Parameter	Beginning	1	2	3	4	5
Time (min)	1250	1255	1300	1305	1310	1315
Depth to Water (ft)	7.00	7.00	7.00	7.00	7.00	7.00
Purge Rate (L/min)	0.2	0.2	0.2	0.2	0.2	0.2
Volume Purged (L)	1	2	3	4	5	6
pH	5.59	5.63	5.63	5.62	5.62	5.61
Temperature (°C)	17.70	18.76	19.50	20.42	21.57	22.78
Conductivity (µmhos/cm)	249	251	252	253	254	254
Dissolved Oxygen (mg/L)	0.90	0.76	0.76	0.78	0.87	0.81
Turbidity (NTU)	778	780	782	485	770	367
Eh (mv)	118	107	101	100	99	98

TOTAL QUANTITY OF WATER REMOVED (L):

SAMPLERS: SC, MC
SAMPLING TIME (START/END): 1400
SAMPLING DATE: 9-25-00
DECONTAMINATION FLUIDS USED: ~~None~~ DI, isopropy
SAMPLE TYPE: Grab
SAMPLE PRESERVATIVES: HCL
SAMPLE BOTTLE IDs: ~~BB~~ MW-NEX-10
SAMPLE PARAMETERS: VOC 8260, DRO, GRO
COMMENTS AND OBSERVATIONS:

EA Engineering, Science, and Technology

FIELD RECORD OF WELL GAUGING, PURGING, AND SAMPLING (OVERFLOW PAGE)

Site Name: NEY	Project No.: 2960035	Date: 9-25-00
Well ID: MW-N~~S~~B-10	Field Personnel: SC, MC	

Parameter	6	7	8	9	10	11
Time (min.)	1320	1325	1330	1335	1340	1345
Depth to Water (ft)	7.00	7.00	7.00	7.00	7.00	7.00
Purge Rate (L/min)	0.2	0.2	0.2	0.2	0.2	0.2
Volume Purged (L)	7	8	9	10	11	12
pH	5.61	5.63	5.63	5.63	5.62	5.62
Temperature (°C)	23.04	17.92	17.67	17.53	17.51	17.45
Conductivity (μmhos/cm)	254	253	252	253	253	253
Dissolved Oxygen (mg/L)	0.84	0.55	0.56	0.56	0.56	0.56
Turbidity (NTU)	325	352	300	275	233	202
Eh (mv)	97	107	109	111	113	117

Parameter	12	13	14	15	16	17
Time (min)	1350	1355	~~1400~~ SC			
Depth to Water (ft)	7.00	7.00	~~7.00~~ SC			
Purge Rate (L/min)	0.2	0.2				
Volume Purged (L)	13	14				
pH	5.61	5.61				
Temperature (°C)	17.41	17.43				
Conductivity (μmhos/cm)	253	252				
Dissolved Oxygen (mg/L)	0.56	0.56				
Turbidity (NTU)	187	184				
Eh (mv)	120	122				

COMMENTS AND OBSERVATIONS @ 1321, turned up pump rate for 1 minute to try and dislodge silts.

EA Engineering, Science, and Technology

FIELD RECORD OF WELL GAUGING, PURGING, AND SAMPLING

SITE NAME: NEX
WELL I.D.: MW-NISB-2S
WELL CONDITION: good

PROJECT NUMBER: 2960035
WELL LOCK STATUS: locked
WEATHER: Sunny, 45°

GAUGE DATE: 9-25-00
SOUNDING METHOD: slope indicator
STICK UP/DOWN (ft):

GAUGE TIME: 1119
MEASUREMENT REF: TOC
WELL DIAMETER (in.): 2

PURGE DATE: 9-25-00
PURGE METHOD: Low Flow
AMBIENT AIR VOCs (ppm) Start: 0 End: 0

PURGE TIME: @ 1122
FIELD PERSONNEL: SC, MC
WELL MOUTH VOCs (ppm): Start: 0 End: 0

WELL VOLUME

A. WELL DEPTH (ft): 15
B. DEPTH TO WATER (ft): 6.99
C. LIQUID DEPTH (ft) (A-B):

D. WELL VOLUME/FT (L):
E. WELL VOLUME (L) (C*D):
F. THREE WELL VOLUMES (L) (E*3):

Parameter	Beginning	1	2	3	4	5
Time (min)	1123	1128	1133	1137	1141	1145
Depth to Water (ft)	7.29	7.36	7.44	7.70	7.82	7.90
Purge Rate (L/min)	0.1	0.1	0.1	0.1	0.1	0.1
Volume Purged (L)	0.1	0.6	1.1	1.5	1.9	2.3
pH	6.11	6.13	6.13	6.10	6.09	6.08
Temperature (°C)	16.72	15.87	16.53	17.99	18.72	19.25
Conductivity (μmhos/cm)	357	369	370	371	373	371
Dissolved Oxygen (mg/L)	4.99	1.81	1.50	1.33	1.34	1.27
Turbidity (NTU)	21	24	24	16	11	12
Eh (mv)	119	119	120	120	121	121

TOTAL QUANTITY OF WATER REMOVED (L):

SAMPLERS: SC, MC
SAMPLING TIME (START/END): 1150
SAMPLING DATE: 9-25-00
DECONTAMINATION FLUIDS USED: DI water ~~None~~ Isopropy
SAMPLE TYPE: Grab
SAMPLE PRESERVATIVES: HCL
SAMPLE BOTTLE IDs: 3 MW-NEX-2S
SAMPLE PARAMETERS: VOC 8260, DRO, GRO
COMMENTS AND OBSERVATIONS:

EA Engineering, Science, and Technology

FIELD RECORD OF WELL GAUGING, PURGING, AND SAMPLING (OVERFLOW PAGE)

Site Name: NEY	Project No.: 2960035	Date: 9-25-00
Well ID: MW-NASB-25	Field Personnel: SC, MC	

Parameter	6	7	8	9	10	11
Time (min.)	1149					
Depth to Water (ft)	8.06					
Purge Rate (L/min)	0.1					
Volume Purged (L)	2.7					
pH	6.07					
Temperature (°C)	19.49					
Conductivity (μmhos/cm)	370					
Dissolved Oxygen (mg/L)	1.25					
Turbidity (NTU)	12					
Eh (mv)	121					

Parameter	12	13	14	15	16	17
Time (min)						
Depth to Water (ft)						
Purge Rate (L/min)						
Volume Purged (L)						
pH						
Temperature (°C)						
Conductivity (μmhos/cm)						
Dissolved Oxygen (mg/L)						
Turbidity (NTU)						
Eh (mv)						

COMMENTS AND OBSERVATIONS _____

EA Engineering, Science, and Technology

FIELD RECORD OF WELL GAUGING, PURGING, AND SAMPLING

SITE NAME: NEX
WELL I.D.: MW-NASB-26
WELL CONDITION: good

PROJECT NUMBER: 2960085
WELL LOCK STATUS: locked
WEATHER: Sunny, 65°

GAUGE DATE: 9-25-00
SOUNDING METHOD: Slope indicator
STICK UP/DOWN (ft):

GAUGE TIME: 1420
MEASUREMENT REF: TOC
WELL DIAMETER (in.): 2

PURGE DATE: 9-25-00
PURGE METHOD: Low Flow
AMBIENT AIR VOCs (ppm) Start: 0 End: 0

PURGE TIME: 1425
FIELD PERSONNEL: MC, SC
WELL MOUTH VOCs (ppm): Start: 0 End: 0

WELL VOLUME

A. WELL DEPTH (ft):
B. DEPTH TO WATER (ft): 7.60
C. LIQUID DEPTH (ft) (A-B):
D. WELL VOLUME/FT (L):
E. WELL VOLUME (L) (C*D):
F. THREE WELL VOLUMES (L) (E*3):

Parameter	Beginning	1	2	3	4	5
Time (min)	1430	1434	1437	1440		
Depth to Water (ft)	7.86	7.87	7.89	7.90		
Purge Rate (L/min)	0.1	0.1	0.1	0.1		
Volume Purged (L)	0.5	0.9	1.2	1.5		
pH	6.81	6.83	6.83	6.83		
Temperature (°C)	19.34	20.50	20.77	20.78		
Conductivity (μmhos/cm)	844	910	926	928		
Dissolved Oxygen (mg/L)	0.75	0.74	0.72	0.70		
Turbidity (NTU)	22	5	3	3		
Eh (mv)	-148	-153	-156	-157		

TOTAL QUANTITY OF WATER REMOVED (L):

SAMPLERS: SC, MC
SAMPLING TIME (START/END): 1443
SAMPLING DATE: 9-25-00
DECONTAMINATION FLUIDS USED: DI, isopropyl
SAMPLE TYPE: Grab
SAMPLE PRESERVATIVES: HCL
SAMPLE BOTTLE IDs: MW-NEX-26 MW-NEX-X01
SAMPLE PARAMETERS: VOC 8260 DRO GRO

COMMENTS AND OBSERVATIONS:

EA Engineering, Science, and Technology

FIELD RECORD OF WELL GAUGING, PURGING, AND SAMPLING

SITE NAME: NEX
WELL I.D.: MW-225
WELL CONDITION: good

PROJECT NUMBER:
WELL LOCK STATUS:
WEATHER:

GAUGE DATE: 9-26-00
SOUNDING METHOD: Slope indicator
STICK UP/DOWN (ft):

GAUGE TIME:
MEASUREMENT REF:
WELL DIAMETER (in.):

PURGE DATE: 9-26-00
PURGE METHOD: Low Flow
AMBIENT AIR VOCs (ppm) Start: 0 End: 0

PURGE TIME:
FIELD PERSONNEL:
WELL MOUTH VOCs (ppm): Start: End:

WELL VOLUME

A. WELL DEPTH (ft):
B. DEPTH TO WATER (ft): 6.87
C. LIQUID DEPTH (ft) (A-B):

D. WELL VOLUME/FT (L):
E. WELL VOLUME (L) (C*D):
F. THREE WELL VOLUMES (L) (E*3):

Parameter	Beginning	1	2	3	4	5
Time (min)	0943	0948	0953	0958	~~009~~ 1003	1008
Depth to Water (ft)	6.87	6.92	6.95	6.95	6.95	6.95
Purge Rate (L/min)	.2	.2	.2	.2	.2	.2
Volume Purged (L)	0	1	2	3	4	5
pH	5.65	5.46	6.65	5.89	6.00	6.02
Temperature (°C)	14.56	17.45	18.76	19.25	19.28	19.41
Conductivity (μmhos/cm)	696	654	~~500~~ 575	405	372	356
Dissolved Oxygen (mg/L)	3.42	1.08	1.02	0.90	0.85	0.85
Turbidity (NTU)	41	36	25	19	17	16
Eh (mv)	38	50	18	-13	-28	-30

TOTAL QUANTITY OF WATER REMOVED (L):

SAMPLERS: MDC
SAMPLING TIME (START/END): 1025
SAMPLING DATE: 9/26/00
DECONTAMINATION FLUIDS USED: DI, Isopropyl
SAMPLE TYPE: Grab
SAMPLE PRESERVATIVES: HCL
SAMPLE BOTTLE IDs:
SAMPLE PARAMETERS: VOC 8260 DRO GRO
COMMENTS AND OBSERVATIONS:

EA Engineering, Science, and Technology

FIELD RECORD OF WELL GAUGING, PURGING, AND SAMPLING (OVERFLOW PAGE)

Site Name: NEX	Project No.:	Date: 9/26/00
Well ID: MW-NEX-225	Field Personnel: MDC	

Parameter	6	7	8	9	10	11
Time (min.)	1013	1016	1019			
Depth to Water (ft)	6.95	6.95	6.95			
Purge Rate (L/min)	.2	.2	.2			
Volume Purged (L)	6	6.6	7.2			
pH	6.09	6.09	6.09			
Temperature (°C)	19.45	19.64	19.64			
Conductivity (μmhos/cm)	326	314	327			
Dissolved Oxygen (mg/L)	0.82	0.83	0.83			
Turbidity (NTU)	4	4	3			
Eh (mv)	-38	-38	-38			

Parameter	12	13	14	15	16	17
Time (min)						
Depth to Water (ft)						
Purge Rate (L/min)						
Volume Purged (L)						
pH						
Temperature (°C)						
Conductivity (μmhos/cm)						
Dissolved Oxygen (mg/L)						
Turbidity (NTU)						
Eh (mv)						

COMMENTS AND OBSERVATIONS Cleaned Turb. probe between reading 5 and 6

EA Engineering, Science, and Technology

FIELD RECORD OF WELL GAUGING, PURGING, AND SAMPLING

SITE NAME: NEX
WELL I.D.: MW-NEX-226
WELL CONDITION: Good

PROJECT NUMBER:
WELL LOCK STATUS:
WEATHER:

GAUGE DATE: 9/26/00
SOUNDING METHOD: Slope indicator
STICK UP/DOWN (ft):

GAUGE TIME:
MEASUREMENT REF:
WELL DIAMETER (in.):

PURGE DATE: 9/26/00
PURGE METHOD: Low Flow
AMBIENT AIR VOCs (ppm) Start: _____ End: _____

PURGE TIME:
FIELD PERSONNEL:
WELL MOUTH VOCs (ppm): Start: _____ End: _____

WELL VOLUME

A. WELL DEPTH (ft):
B. DEPTH TO WATER (ft): 5.22
C. LIQUID DEPTH (ft) (A-B):

D. WELL VOLUME/FT (L):
E. WELL VOLUME (L) (C*D):
F. THREE WELL VOLUMES (L) (E*3):

Parameter	Beginning	1	2	3	4	5
Time (min)	1115	1120	1125	1130	1135	1140
Depth to Water (ft)	5.22	5.25	5.25	5.25	5.25	5.25
Purge Rate (L/min)	.2	.2	.2	.2	.2	.2
Volume Purged (L)	0	1	2	3	4	5
pH	5.71	5.68	5.69	5.68	5.66	5.63
Temperature (°C)	16.83	18.57	19.07	19.43	19.61	20.39
Conductivity (μmhos/cm)	289	246	241	239	239	236
Dissolved Oxygen (mg/L)	2.60	0.71	0.63	0.65	0.70	0.65
Turbidity (NTU)	180	120	72	41	30	27
Eh (mv)	10	-9	-18	-18	-15	-11

TOTAL QUANTITY OF WATER REMOVED (L): _____

SAMPLERS: MDC
SAMPLING DATE: 9/26/00
SAMPLE TYPE: Grab
SAMPLE BOTTLE IDs: MW-NEX-226
SAMPLE PARAMETERS: VOC 8260 DRO GRO

SAMPLING TIME (START/END):
DECONTAMINATION FLUIDS USED: DI, Isopropyl
SAMPLE PRESERVATIVES: HCL

COMMENTS AND OBSERVATIONS:

EA Engineering, Science, and Technology

FIELD RECORD OF WELL GAUGING, PURGING, AND SAMPLING (OVERFLOW PAGE)

Site Name: NEX	Project No.:	Date: 9/26/00
Well ID: MW-NEX-226	Field Personnel: MDC	

Parameter	6	7	8	9	10	11
Time (min.)	1145	1150	1155	1200	1203	
Depth to Water (ft)	5.25	5.25	5.25	5.25	5.25	
Purge Rate (L/min)	.2	.2	.2	.2	.2	
Volume Purged (L)	6	7	8	9	9.6	
pH	5.64	5.58	5.65	5.63	5.63	
Temperature (°C)	20.22	19.87	18.90	18.90	19.25	
Conductivity (μmhos/cm)	235	238	230	228	229	
Dissolved Oxygen (mg/L)	0.62	0.62	0.49	0.49	0.50	
Turbidity (NTU)	17	20	10	9	9	
Eh (mv)	-13	-9	-17	-16	-16	

Parameter	12	13	14	15	16	17
Time (min)						
Depth to Water (ft)						
Purge Rate (L/min)						
Volume Purged (L)						
pH						
Temperature (°C)						
Conductivity (μmhos/cm)						
Dissolved Oxygen (mg/L)						
Turbidity (NTU)						
Eh (mv)						

COMMENTS AND OBSERVATIONS _____

EA Engineering, Science, and Technology

FIELD RECORD OF WELL GAUGING

Project Name: NEX	Project No:	Date: 5/9/01
Weather/Temperature/Barometric Pressure/Humidity:		
EA Personnel:	Equipment:	

Well Number	Well Elevation	Depth to Water	Depth to LNAPL	LNAPL Thickness	Corrected Water Table Elevation[a]
MW-NASB 008		3.05	—	—	
MW-NASB 009		4.18	—	—	
MW-NASB 010		6.70	—	—	
MW-NASB 023		7.24	—	—	
MW-NASB 024		5.82	—	—	
MW-NASB 025		6.67	—	—	
MW-NASB 026		6.93	—	—	
MW-NASB 225		6.40	—	—	
MW-NASB 226			—	—	

(a) Based on an assumed specific gravity of 0.80 for LNAPL.

NOTE: All measurements in feet. LNAPL = Light, non-aqueous phase liquid.

EA Engineering, Science, and Technology

FIELD RECORD OF WELL GAUGING, PURGING, AND SAMPLING

SITE NAME: NASB-NEX
WELL I.D.: MW-NASB-8
WELL CONDITION: Good

PROJECT NUMBER: 29600.35
WELL LOCK STATUS: Bolted
WEATHER: Sunny, ~75°

GAUGE DATE: 5/10/01
SOUNDING METHOD: WLI
STICK UP/DOWN (ft): FLUSH

GAUGE TIME: 1013
MEASUREMENT REF: TOC-PVC
WELL DIAMETER (in.): 2"

PURGE DATE: 5/10/01
PURGE METHOD: Sub pump
AMBIENT AIR VOCs (ppm) Start: _____ End: _____

PURGE TIME: 1018
FIELD PERSONNEL: RW/BA
WELL MOUTH VOCs (ppm): Start: _____ End: _____

WELL VOLUME

A. WELL DEPTH (ft): N/A
B. DEPTH TO WATER (ft): 3.05
C. LIQUID DEPTH (ft) (A-B): N/A

D. WELL VOLUME/FT (L): N/A
E. WELL VOLUME (L) (C*D): (N)
F. THREE WELL VOLUMES (L) (E*3):

Parameter	Beginning	1	2	3	4	5
Time (min)	1018	1023	1028	1031	1034	
Depth to Water (ft)	3.05	3.77	4.02	4.05	—	
Purge Rate (L/min)	0.25	0.25	0.25	0.25	0.25	
Volume Purged (L)	0	1.25	2.5	3.25	4.0	
pH	6.33	6.33	6.35	6.37	6.37	
Temperature (°C)	9.97	11.17	12.16	12.47	12.79	
Conductivity (μmhos/cm)	349	341	329	326	320	
Dissolved Oxygen (mg/L)	2.74	2.07	2.69	2.86	2.93	
Turbidity (NTU)	201	58	7	6	8	
Eh (mv)	67	62	61	61	60	

TOTAL QUANTITY OF WATER REMOVED (L): ~4.5

SAMPLERS: RW/BA
SAMPLING TIME (START/END): 1045
SAMPLING DATE: 5/10/01
DECONTAMINATION FLUIDS USED: D-I
SAMPLE TYPE: GRAB
SAMPLE PRESERVATIVES: HCl
SAMPLE BOTTLE IDs: NEX-MW8
SAMPLE PARAMETERS: VOC, DRO, GRO

COMMENTS AND OBSERVATIONS:

EA Engineering, Science, and Technology

FIELD RECORD OF WELL GAUGING, PURGING, AND SAMPLING

SITE NAME: NASB-NEX
PROJECT NUMBER: 29600.35
WELL I.D.: MW-NASB-9
WELL LOCK STATUS: Bolted
WELL CONDITION: Good
WEATHER: Sunny, ~80

GAUGE DATE: 5/10/01
GAUGE TIME: 1140
SOUNDING METHOD: WL1
MEASUREMENT REF: TOC-PVC
STICK UP/DOWN (ft): FLUSH
WELL DIAMETER (in.): 2"

PURGE DATE: 5/10/01
PURGE TIME: 1143
PURGE METHOD: Sub. pump
FIELD PERSONNEL: RW/BA
AMBIENT AIR VOCs (ppm) Start: _____ End: _____
WELL MOUTH VOCs (ppm): Start: _____ End: _____

WELL VOLUME

A. WELL DEPTH (ft): N/A
B. DEPTH TO WATER (ft): 4.18
C. LIQUID DEPTH (ft) (A-B): N/A
D. WELL VOLUME/FT (L): N/A
E. WELL VOLUME (L) (C*D): (RW)
F. THREE WELL VOLUMES (L) (E*3):

Parameter	Beginning	1	2	3	4	5
Time (min)	1143	1148	1151	1154		
Depth to Water (ft)	4.18	4.35	4.36	–		
Purge Rate (L/min)	0.25	0.25	0.25	0.25		
Volume Purged (L)	0	1.25	2.5	3.25		
pH	6.26	6.17	6.19	6.19		
Temperature (°C)	10.71	10.05	10.09	10.02		
Conductivity (μmhos/cm)	190	212	215	224		
Dissolved Oxygen (mg/L)	2.53	1.08	0.91	0.75		
Turbidity (NTU)	47	1	7	8		
Eh (mv)	52	43	42	43		

TOTAL QUANTITY OF WATER REMOVED (L): ~5

SAMPLERS: RW/BA
SAMPLING TIME (START/END): 1200
SAMPLING DATE: 5/10/01
DECONTAMINATION FLUIDS USED: D-I
SAMPLE TYPE: GRAB
SAMPLE PRESERVATIVES: HCl
SAMPLE BOTTLE IDs: NEX-MW9
SAMPLE PARAMETERS: VOC DRO GRO
COMMENTS AND OBSERVATIONS: MS/MSD Collected.

EA Engineering, Science, and Technology

FIELD RECORD OF WELL GAUGING, PURGING, AND SAMPLING

SITE NAME: NASB-NEX
PROJECT NUMBER: 29600.35
WELL I.D.: MW-NASB-10
WELL LOCK STATUS: Bolted
WELL CONDITION: Good
WEATHER: Sunny, ~60°

GAUGE DATE: 5/10/01
GAUGE TIME: 1226
SOUNDING METHOD: WLI
MEASUREMENT REF: TOC-PVC
STICK UP/DOWN (ft): FLUSH
WELL DIAMETER (in.): 2"

PURGE DATE: 5/10/01
PURGE TIME: 1229
PURGE METHOD: Sub. pump
FIELD PERSONNEL: RW/BA
AMBIENT AIR VOCs (ppm) Start: _____ End: _____
WELL MOUTH VOCs (ppm): Start: _____ End: _____

WELL VOLUME

A. WELL DEPTH (ft): N/A
B. DEPTH TO WATER (ft): 6.70
C. LIQUID DEPTH (ft) (A-B): N/A
D. WELL VOLUME/FT (L): N/A
E. WELL VOLUME (L) (C*D): (a)
F. THREE WELL VOLUMES (L) (E*3):

Parameter	Beginning	1	2	3	4	5
Time (min)	1229	1234	1239	1244	1249	1254
Depth to Water (ft)	6.70	6.94	6.88	6.88	–	6.88
Purge Rate (L/min)	0.25	0.25	0.25	0.25	0.25	0.25
Volume Purged (L)	0	1.25	2.5	3.75	5.0	6.25
pH	5.92	5.73	5.94	5.93	5.92	5.91
Temperature (°C)	12.20	11.79	11.97	11.51	11.67	11.54
Conductivity (μmhos/cm)	274	302	324	344	343	359
Dissolved Oxygen (mg/L)	0.68	1.20	1.16	1.20	1.67	1.39
Turbidity (NTU)	955	1248	861	289	111	33
Eh (mv)	58	57	56	58	60	60

TOTAL QUANTITY OF WATER REMOVED (L): ~9.5

SAMPLERS: RW/BA
SAMPLING TIME (START/END): 1315
SAMPLING DATE: 5/10/01
DECONTAMINATION FLUIDS USED: D-I
SAMPLE TYPE: GRAB
SAMPLE PRESERVATIVES: HCl
SAMPLE BOTTLE IDs: NEX-MW10
SAMPLE PARAMETERS: VOC, DRO, GRO
COMMENTS AND OBSERVATIONS: Noted Diesel fuel spill on asphalt ~50' north of the well

EA Engineering, Science, and Technology

FIELD RECORD OF WELL GAUGING, PURGING, AND SAMPLING (OVERFLOW PAGE)

Site Name:	Project No.:	Date: 5/10/01
Well ID: MW-NASB-10	Field Personnel:	

Parameter	6	7	8	9	10	11
Time (min.)	1258	1301	1304			
Depth to Water (ft)	6.88	6.88	6.88			
Purge Rate (L/min)	0.25	0.25	0.25			
Volume Purged (L)	7.25	8.0	8.75			
pH	5.94	5.92	5.93			
Temperature (°C)	11.51	11.59	11.63			
Conductivity (μmhos/cm)	356	358	370			
Dissolved Oxygen (mg/L)	1.40	1.43	1.57			
Turbidity (NTU)	8	3	6			
Eh (mv)	60	61	61			

Parameter	12	13	14	15	16	17
Time (min)						
Depth to Water (ft)						
Purge Rate (L/min)						
Volume Purged (L)						
pH						
Temperature (°C)						
Conductivity (μmhos/cm)						
Dissolved Oxygen (mg/L)						
Turbidity (NTU)						
Eh (mv)						

COMMENTS AND OBSERVATIONS _____

EA Engineering, Science, and Technology

FIELD RECORD OF WELL GAUGING, PURGING, AND SAMPLING

SITE NAME: NASB-NEX (PW)
WELL I.D.: MW-NASB-~~24~~ 23
WELL CONDITION: Good

PROJECT NUMBER: 29606.35
WELL LOCK STATUS: Bolted
WEATHER: Sunny, ~60°

GAUGE DATE: 5/10/01
SOUNDING METHOD: WLI
STICK UP/DOWN (ft): FLUSH

GAUGE TIME: 0724
MEASUREMENT REF: TOC-PVC
WELL DIAMETER (in.): 2"

PURGE DATE: 5/10/01
PURGE METHOD: Sub. pump
AMBIENT AIR VOCs (ppm) Start: _____ End: _____

PURGE TIME: 0730
FIELD PERSONNEL: RW/BA
WELL MOUTH VOCs (ppm): Start: _____ End: _____

WELL VOLUME

A. WELL DEPTH (ft): N/A
B. DEPTH TO WATER (ft): 7.24
C. LIQUID DEPTH (ft) (A-B): N/A

D. WELL VOLUME/FT (L): N/A
E. WELL VOLUME (L) (C*D): (PW)
F. THREE WELL VOLUMES (L) (E*3):

Parameter	Beginning	1	2	3	4	5
Time (min)	0730	0735	0740	0743	0746	0749
Depth to Water (ft)	7.24	—	7.25	—	7.25	7.25
Purge Rate (L/min)	0.25	0.25	0.25	0.25	0.25	0.25
Volume Purged (L)	0	1.25	2.5	3.25	4.0	4.75
pH	5.72	5.62	5.60	5.59	5.59	5.58
Temperature (°C)	13.42	12.81	14.49	15.22	15.59	15.97
Conductivity (μmhos/cm)	176	167	163	160	159	160
Dissolved Oxygen (mg/L)	6.79	6.20	6.07	6.01	6.05	6.12
Turbidity (NTU)	372	87	18	5	3	7
Eh (mv)	83	87	92	95	95	97

TOTAL QUANTITY OF WATER REMOVED (L): ~5

SAMPLERS: RW/BA
SAMPLING TIME (START/END): 0800
SAMPLING DATE: 5/10/01
DECONTAMINATION FLUIDS USED: D-I
SAMPLE TYPE: GRAB
SAMPLE PRESERVATIVES: HCl
SAMPLE BOTTLE IDs: ~~NEX-MW24~~ (PW) NEX-MW23
SAMPLE PARAMETERS: (BTEX-MTBE VOC) DRO, GRO

COMMENTS AND OBSERVATIONS:

EA Engineering, Science, and Technology

FIELD RECORD OF WELL GAUGING, PURGING, AND SAMPLING

SITE NAME: NASB-NEX
PROJECT NUMBER: 29600.35
WELL I.D.: MW-NASB-24
WELL LOCK STATUS: Bolted
WELL CONDITION: Good
WEATHER: Sunny, ~65°

GAUGE DATE: 5/10/01
GAUGE TIME: 0807
SOUNDING METHOD: WLI
MEASUREMENT REF: TOC-PVC
STICK UP/DOWN (ft): FLUSH
WELL DIAMETER (in.): 4"

PURGE DATE: 5/10/01
PURGE TIME: 0812
PURGE METHOD: Sub. pump
FIELD PERSONNEL: RW/BA
AMBIENT AIR VOCs (ppm) Start: _____ End: _____
WELL MOUTH VOCs (ppm): Start: _____ End: _____

WELL VOLUME

A. WELL DEPTH (ft): N/A
B. DEPTH TO WATER (ft): 5.82
C. LIQUID DEPTH (ft) (A-B): N/A
D. WELL VOLUME/FT (L): N/A
E. WELL VOLUME (L) (C*D): (N)
F. THREE WELL VOLUMES (L) (E*3):

Parameter	Beginning	1	2	3	4	5
Time (min)	0812	0817	0820	0823	0826 (N)	
Depth to Water (ft)	5.82	6.14	6.31	6.33	6.34	
Purge Rate (L/min)	0.25	0.25	0.25	0.25	0.25	
Volume Purged (L)	0	1.25	2.0	2.75	3.5	
pH	5.86	5.74	5.72	5.75	5.73	
Temperature (°C)	10.79	9.69	11.22	11.92	12.22	
Conductivity (μmhos/cm)	76	74	71	71	72	
Dissolved Oxygen (mg/L)	10.04	10.14	9.96	9.90	9.82	
Turbidity (NTU)	5	1	6	5	8	
Eh (mv)	95	98	101	101	102	

TOTAL QUANTITY OF WATER REMOVED (L): ~4

SAMPLERS: RW/BA
SAMPLING TIME (START/END): 0835
SAMPLING DATE: 5/10/01
DECONTAMINATION FLUIDS USED: D-I
SAMPLE TYPE: GRAB
SAMPLE PRESERVATIVES: HCl
SAMPLE BOTTLE IDs: NEX-MW24
SAMPLE PARAMETERS: (BTEX-MTBE) VOC DRO, GRO

COMMENTS AND OBSERVATIONS:

EA Engineering, Science, and Technology

FIELD RECORD OF WELL GAUGING, PURGING, AND SAMPLING

SITE NAME: NASB-NEX
WELL I.D.: MW-NASB-25
WELL CONDITION: Good

PROJECT NUMBER: 29600.35
WELL LOCK STATUS: Bolted
WEATHER: Sunny, ~70°

GAUGE DATE: 5/10/01
SOUNDING METHOD: WLI
STICK UP/DOWN (ft): FLUSH

GAUGE TIME: 0922
MEASUREMENT REF: TOC-PVC
WELL DIAMETER (in.): 4"

PURGE DATE: 5/10/01
PURGE METHOD: Sub. pump
AMBIENT AIR VOCs (ppm) Start: _____ End: _____

PURGE TIME: 0928
FIELD PERSONNEL: RW/BA
WELL MOUTH VOCs (ppm): Start: _____ End: _____

WELL VOLUME

A. WELL DEPTH (ft): N/A
B. DEPTH TO WATER (ft): 6.67
C. LIQUID DEPTH (ft) (A-B): N/A
D. WELL VOLUME/FT (L): N/A
E. WELL VOLUME (L) (C*D): (~)
F. THREE WELL VOLUMES (L) (E*3):

Parameter	Beginning	1	2	3	4	5
Time (min)	0928	0933	0938	0943	0948	0953
Depth to Water (ft)	6.67	7.20	–	(~)8.48	–	(~)8.81
Purge Rate (L/min)	0.25	0.25	0.25	0.25	0.25	0.25
Volume Purged (L)	0	1.25	2.5	3.75	5.0	6.25
pH	6.22	6.25	6.28	6.37	6.24	6.25
Temperature (°C)	11.84	12.38	14.31	14.01	14.35	14.68
Conductivity (μmhos/cm)	133	130	131	134	133	133
Dissolved Oxygen (mg/L)	9.74	9.30	9.28	9.21	9.05	9.01
Turbidity (NTU)	96	92	80	73	72	70
Eh (mv)	76	78	81	83	85	87

TOTAL QUANTITY OF WATER REMOVED (L): ~9

SAMPLERS: RW/BA
SAMPLING TIME (START/END): 1005
SAMPLING DATE: 5/10/01
DECONTAMINATION FLUIDS USED: D-I
SAMPLE TYPE: GRAB
SAMPLE PRESERVATIVES: HCl
SAMPLE BOTTLE IDs: NEX-MW
SAMPLE PARAMETERS: (BTEX-MTBE) VOC, GRO, DRO
COMMENTS AND OBSERVATIONS:

EA Engineering, Science, and Technology

FIELD RECORD OF WELL GAUGING, PURGING, AND SAMPLING (OVERFLOW PAGE)

Site Name:	Project No.:	Date: 6/10/01
Well ID: MW-NASB-25	Field Personnel:	

Parameter	6	7	8	9	10	11
Time (min.)	0956	0959				
Depth to Water (ft)	9.12	9.46				
Purge Rate (L/min)	0.25	0.25				
Volume Purged (L)	7.5	8.25				
pH	6.23	6.23				
Temperature (°C)	14.33	14.50				
Conductivity (μmhos/cm)	134	133				
Dissolved Oxygen (mg/L)	8.94	8.89				
Turbidity (NTU)	72	74				
Eh (mv)	86	86				

Parameter	12	13	14	15	16	17
Time (min)						
Depth to Water (ft)						
Purge Rate (L/min)						
Volume Purged (L)						
pH						
Temperature (°C)						
Conductivity (μmhos/cm)						
Dissolved Oxygen (mg/L)						
Turbidity (NTU)						
Eh (mv)						

COMMENTS AND OBSERVATIONS _____

EA Engineering, Science, and Technology

FIELD RECORD OF WELL GAUGING, PURGING, AND SAMPLING

SITE NAME: NASB-NEX
WELL I.D.: MW-NASB-26
WELL CONDITION: Good

PROJECT NUMBER: 29600.35
WELL LOCK STATUS: Locked/Bolted
WEATHER: Sunny, ~75°

GAUGE DATE: 5/9/01
SOUNDING METHOD: WL
STICK UP/DOWN (ft): FLUSH

GAUGE TIME: 1307
MEASUREMENT REF: TOC-PVC
WELL DIAMETER (in.): 2"

PURGE DATE: 5/9/01
PURGE METHOD: Sub pump
AMBIENT AIR VOCs (ppm) Start: _____ End: _____

PURGE TIME: 1316
FIELD PERSONNEL: RW/BA
WELL MOUTH VOCs (ppm): Start: _____ End: _____

WELL VOLUME

A. WELL DEPTH (ft): N/A
B. DEPTH TO WATER (ft): 6.93
C. LIQUID DEPTH (ft) (A-B): N/A

D. WELL VOLUME/FT (L): N/A
E. WELL VOLUME (L) (C*D): ~~N/A~~
F. THREE WELL VOLUMES (L) (E*3): ~~N/A~~

Parameter	Beginning	1	2	3	4	5
Time (min)	1316	1321	1325	1328	1331	1334
Depth to Water (ft)	6.93	7.08	7.07	—	7.09	–
Purge Rate (L/min)	0.25	0.25	0.25	0.25	0.25	0.25
Volume Purged (L)	0	1.25	2.25	3.0	3.75	4.5
pH	6.76	6.76	6.80	6.78	6.83	6.84
Temperature (°C)	13.68	13.80	15.52	16.18	15.06	14.89
Conductivity (μmhos/cm)	433	439	421	425	417	417
Dissolved Oxygen (mg/L)	1.37	0.95	0.79	0.77	0.58	0.58
Turbidity (NTU)	7	7	9	9	17	16
Eh (mv)	25	21	10	4	3	2

TOTAL QUANTITY OF WATER REMOVED (L): _____

SAMPLERS: RW/BA
SAMPLING TIME (START/END): ~~1345~~ 1350
SAMPLING DATE: 5/9/01
DECONTAMINATION FLUIDS USED: D-I
SAMPLE TYPE: GRAB
SAMPLE PRESERVATIVES: HCl
SAMPLE BOTTLE IDs: NEX-MW26
SAMPLE PARAMETERS: (BTEX-VOC MTBE) GRO, DRO
COMMENTS AND OBSERVATIONS: Initial purge water is dark grey/charcoal colored; petroleum odor noted at purge water container & at well mouth.

EA Engineering, Science, and Technology

FIELD RECORD OF WELL GAUGING, PURGING, AND SAMPLING (OVERFLOW PAGE)

Site Name: NASB- NEX	Project No.:	Date: 5/8/01
Well ID: MW-NASB-26	Field Personnel:	

Parameter	6	7	8	9	10	11
Time (min.)	1337	1340	1343			
Depth to Water (ft)	7.09	7.10	7.09			
Purge Rate (L/min)	0.25	0.25	0.25			
Volume Purged (L)	5.25	6.0	6.75			
pH	6.84	6.83	6.89			
Temperature (°C)	15.78	16.10	15.10			
Conductivity (μmhos/cm)	406	408	401			
Dissolved Oxygen (mg/L)	0.52	0.56	0.47			
Turbidity (NTU)	4	0	0			
Eh (mv)	2	1	2			

Parameter	12	13	14	15	16	17
Time (min)						
Depth to Water (ft)						
Purge Rate (L/min)						
Volume Purged (L)						
pH						
Temperature (°C)						
Conductivity (μmhos/cm)						
Dissolved Oxygen (mg/L)						
Turbidity (NTU)						
Eh (mv)						

COMMENTS AND OBSERVATIONS _____

EA Engineering, Science, and Technology

FIELD RECORD OF WELL GAUGING, PURGING, AND SAMPLING

SITE NAME: NASB- NEX
PROJECT NUMBER: 29600.35
WELL I.D.: MW-NASB-225
WELL LOCK STATUS: Locked/Bolted
WELL CONDITION: Good
WEATHER: Sunny, ~75°

GAUGE DATE: 5/9/01
GAUGE TIME: 1227
SOUNDING METHOD: WLI
MEASUREMENT REF: TOC-PVC
STICK UP/DOWN (ft): FLUSH
WELL DIAMETER (in.): 2"

PURGE DATE: 5/9/01
PURGE TIME: 1233
PURGE METHOD: Sub. pump
FIELD PERSONNEL: RW/BA
AMBIENT AIR VOCs (ppm) Start: _____ End: _____
WELL MOUTH VOCs (ppm): Start: _____ End: _____

WELL VOLUME

A. WELL DEPTH (ft): N/A
B. DEPTH TO WATER (ft): 6.40
C. LIQUID DEPTH (ft) (A-B): N/A
D. WELL VOLUME/FT (L): N/A
E. WELL VOLUME (L) (C*D): (w)
F. THREE WELL VOLUMES (L) (E*3):

Parameter	Beginning	1	2	3	4	5
Time (min)	1233	1238	1243	1246	1249	(w) 1252
Depth to Water (ft)	6.40	6.54	6.58	6.63	—	6.62
Purge Rate (L/min)	0.25	0.25	0.25	0.25	0.25	0.25
Volume Purged (L)	0	1.25	2.5	3.25	4.0	4.75
pH	6.42	6.33	6.23	6.20	6.16	6.15
Temperature (°C)	13.03	14.12	13.32	13.42	13.14	13.04
Conductivity (μmhos/cm)	284	281	297	289	281	277
Dissolved Oxygen (mg/L)	0.56	0.49	0.55	0.53	0.49	0.50
Turbidity (NTU)	146	250	15	8	0	4
Eh (mv)	57	56	54	54	54	54

TOTAL QUANTITY OF WATER REMOVED (L): ~5.5

SAMPLERS: RW/BA
SAMPLING TIME (START/END): 1300
SAMPLING DATE: 5/9/01
DECONTAMINATION FLUIDS USED: D-I
SAMPLE TYPE: GRAB
SAMPLE PRESERVATIVES: HCl
SAMPLE BOTTLE IDs: NEX-MW225
SAMPLE PARAMETERS: (VOC BTEX-MTBE), DRO, GRO
COMMENTS AND OBSERVATIONS:

EA Engineering, Science, and Technology

FIELD RECORD OF WELL GAUGING, PURGING, AND SAMPLING

SITE NAME: NASB-NEX
PROJECT NUMBER: 29600.35
WELL I.D.: MW-NASB-226
WELL LOCK STATUS: Bolted
WELL CONDITION: Good
WEATHER: Sunny, ~70°

GAUGE DATE: 5/9/01
GAUGE TIME: 1406
SOUNDING METHOD: WLI
MEASUREMENT REF: TOC-PVC
STICK UP/DOWN (ft): FLUSH
WELL DIAMETER (in.): 2"

PURGE DATE: 5/9/01
PURGE TIME: 1411
PURGE METHOD: Sub. pump
FIELD PERSONNEL: RW/BA
AMBIENT AIR VOCs (ppm) Start: _____ End: _____
WELL MOUTH VOCs (ppm): Start: _____ End: _____

WELL VOLUME

A. WELL DEPTH (ft): N/A
B. DEPTH TO WATER (ft): 4.88
C. LIQUID DEPTH (ft) (A-B): N/A
D. WELL VOLUME/FT (L): N/A
E. WELL VOLUME (L) (C*D):
F. THREE WELL VOLUMES (L) (E*3):

Parameter	Beginning	1	2	3	4	5
Time (min)	1411	1416	1421	1426	1431	1436
Depth to Water (ft)	4.88	4.95	4.98	4.98	4.98	4.98
Purge Rate (L/min)	0.4	0.4	0.4	0.4	0.4	0.4
Volume Purged (L)	0	2.0	4.0	6.0	8.0	10.0
pH	6.12	6.08	6.07	6.06	6.03	6.06
Temperature (°C)	11.55	11.60	11.70	11.69	11.65	11.24
Conductivity (μmhos/cm)	265	266	260	255	252	256
Dissolved Oxygen (mg/L)	1.58	0.48	0.33	0.22	0.20	0.19
Turbidity (NTU)	150	117	64	27	27	2
Eh (mv)	42	42	41	41	41	41

TOTAL QUANTITY OF WATER REMOVED (L): ~15

SAMPLERS: RW/BA
SAMPLING TIME (START/END): 1450
SAMPLING DATE: 5/9/01
DECONTAMINATION FLUIDS USED: D-I
SAMPLE TYPE: GRAB
SAMPLE PRESERVATIVES: HCl
SAMPLE BOTTLE IDs: NEX-MW226, NEX-MWDUP1
SAMPLE PARAMETERS: (VOC BTEX-MTBE), DRO, GRO
COMMENTS AND OBSERVATIONS: Slight petro. odor; Rust/Orange color of initial purge water
Unable to purge at a slower rate; DUP collected.

EA Engineering, Science, and Technology

FIELD RECORD OF WELL GAUGING, PURGING, AND SAMPLING (OVERFLOW PAGE)

Site Name:	Project No.:	Date: 5/9/01
Well ID: MW-NASB-226	Field Personnel:	

Parameter	6	7	8	9	10	11
Time (min.)	1439	1442				
Depth to Water (ft)	–	4.98				
Purge Rate (L/min)	0.4	0.4				
Volume Purged (L)	11.2	12.4				
pH	6.05	6.05				
Temperature (°C)	11.28	11.28				
Conductivity (μmhos/cm)	254	253				
Dissolved Oxygen (mg/L)	0.17	0.15				
Turbidity (NTU)	9	8				
Eh (mv)	41	40				

Parameter	12	13	14	15	16	17
Time (min)						
Depth to Water (ft)						
Purge Rate (L/min)						
Volume Purged (L)						
pH						
Temperature (°C)						
Conductivity (μmhos/cm)						
Dissolved Oxygen (mg/L)						
Turbidity (NTU)						
Eh (mv)						

COMMENTS AND OBSERVATIONS _____

Attachment D

Laboratory Analytical Results for Ground-Water Samples

Katahdin
ANALYTICAL SERVICES

EA ENGINEERING,
SCIENCE & TECHNOLOGY

OCT 19 2000

RECEIVED

October 16, 2000

Mr. Al Easterday
EA Engineering
175 Middlesex Turnpike
Bedford, MA 01730

RE: Katahdin Lab Number: WQ2913
Project ID: NEX
Project Manager: Ms. Andrea J. Colby
Sample Receipt Date(s): 9/26/00

Dear Mr. Easterday:

Please find enclosed the following information:

* Report of Analysis
* Quality Control Data Summary
* Chain of Custody (COC)
* Confirmation

A copy of the Chain of Custody is included in the paginated report. The original COC is attached as an addendum to this report.

Should you have any questions or comments concerning this Report of Analysis, please do not hesitate to contact the project manager listed above. This cover letter is an integral part of the ROA.

We appreciate your continued use of our laboratory and look forward to working with you in the future. The following signature indicates technical review and acceptance of the data.

Sincerely,

KATAHDIN ANALYTICAL SERVICES

Maria Crouch
Authorized Signature

10/16/00
Date

340 County Road No. 5
P.O. Box 720, Westbrook, ME 04098
Tel: (207) 874-2400 Fax: (207)775-4029

http://katahdinlab.com

210 West Road No.5, Portsmouth, NH 03801
Tel: (603) 431-5777 Fax: (603) 436-3356

KATAHDIN ANALYTICAL SERVICES

Summary of Report Notes

Report Note	Note Text
#	'#' flag denotes surrogate compound recovery is out of criteria.
E	'E' flag indicates an estimated value. The analyte was detected in the sample at a concentration greater than the standard calibration range.
J	'J' flag denotes an estimated value less than the Laboratory's Practical Quantitation Level.
O-2	Sample dilution required for quantitation of one or more target analytes; therefore, standard laboratory Practical Quantitation Level (PQL) could not be achieved.

Katahdin Analytical Services, Inc.

REPORT OF ANALYTICAL RESULTS

Client: AL EASTERDAY
EA Engineering
175 Middlesex Turnpike
Bedford, MA 01730

Lab Sample ID: WQ2913-1
SDG: WQ2913
Report Date: 10/03/2000
PO No.: 29600.35
Project: NEX
Percent Solids: N/A
Analytical Method: ME DEP 4.1.25

Sample Description	Matrix	Date Sampled	Date Received	Date Prepped	Prep Chemist	Preparative Method
MW-NEX-9	Aqueous	09/25/2000	09/26/2000	09/27/2000	GNP	SW846 3510

Analyte	Qualifier	Result	Units	DF	Sample PQL	Method PQL	Date Analyzed	Analyst
Diesel Range Organics	J	48	ug/L	1.0	51	50	09/29/2000	AJR
o-Terphenyl		85	%	1.0			09/29/2000	AJR

Report Notes:

'J' flag denotes an estimated value less than the Laboratory's Practical Quantitation Level.

Katahdin Analytical Services, Inc.

REPORT OF ANALYTICAL RESULTS

Client: AL EASTERDAY
EA Engineering
175 Middlesex Turnpike
Bedford, MA 01730

Lab Sample ID: WQ2913-1
SDG: WQ2913
Report Date: 10/02/2000
PO No.: 29600.35
Project: NEX
Percent Solids: N/A
Analytical Method: ME DEP 4.2.17

Sample Description	Matrix	Date Sampled	Date Received	Date Prepped	Prep Chemist	Preparative Method
MW-NEX-9	Aqueous	09/25/2000	09/26/2000	09/29/2000	RRL	SW846 5030B

Analyte	Qualifier	Result	Units	DF	Sample PQL	Method PQL	Date Analyzed	Analyst
Gasoline Range Organics		< 10	ug/L	1.0	10	10	09/29/2000	RRL
4-Bromofluorobenzene		91	%	1.0			09/29/2000	RRL

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: AL EASTERDAY
EA Engineering
175 Middlesex Turnpike

Bedford, MA 01730

Proj. ID:

Lab Number: WQ2913-1
SDG: WQ2913
Report Date: 10/3/00
PO No. : 29600.35
Project: NEX
% Solids: N/A
Method: EPA 8260
Date Analyzed: 9/28/00

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
MW-NEX-9	AQ	9/25/00	9/26/00	9/28/00	KMC	5030	KMC

Compound	Result	Units	DF	Sample PQL	Method PQL
TOLUENE	<1	ug/L	1.0	1	1
BENZENE	<1	ug/L	1.0	1	1
ETHYLBENZENE	<1	ug/L	1.0	1	1
TOTAL XYLENES	<1	ug/L	1.0	1	1
MTBE	<1	ug/L	1.0	1	1
1,2-DICHLOROETHANE-D4	90	%	1.0		
DIBROMOFLUOROMETHANE	95	%	1.0		
TOLUENE-D8	96	%	1.0		
P-BROMOFLUOROBENZENE	87	%	1.0		

Report Notes:

Katahdin Analytical Services, Inc.

REPORT OF ANALYTICAL RESULTS

Client: AL EASTERDAY
EA Engineering
175 Middlesex Turnpike
Bedford, MA 01730

Lab Sample ID: WQ2913-2
SDG: WQ2913
Report Date: 10/03/2000
PO No.: 29600.35
Project: NEX
Percent Solids: N/A
Analytical Method: ME DEP 4.1.25

Sample Description	Matrix	Date Sampled	Date Received	Date Prepped	Prep Chemist	Preparative Method
MW-NEX-10	Aqueous	09/25/2000	09/26/2000	09/27/2000	GNP	SW846 3510

Analyte	Qualifier	Result	Units	DF	Sample PQL	Method PQL	Date Analyzed	Analyst
Diesel Range Organics		64	ug/L	1.0	51	50	09/29/2000	AJR
o-Terphenyl		80	%	1.0			09/29/2000	AJR

Katahdin Analytical Services, Inc.

REPORT OF ANALYTICAL RESULTS

Client:	AL EASTERDAY	**Lab Sample ID:**	WQ2913-2
	EA Engineering	**SDG:**	WQ2913
	175 Middlesex Turnpike	**Report Date:**	10/02/2000
	Bedford, MA 01730	**PO No.:**	29600.35
		Project:	NEX
		Percent Solids:	N/A
		Analytical Method:	ME DEP 4.2.17

Sample Description	Matrix	Date Sampled	Date Received	Date Prepped	Prep Chemist	Preparative Method
MW-NEX-10	Aqueous	09/25/2000	09/26/2000	09/28/2000	RRL	SW846 5030B

Analyte	Qualifier	Result	Units	DF	Sample PQL	Method PQL	Date Analyzed	Analyst
Gasoline Range Organics		< 10	ug/L	1.0	10	10	09/28/2000	RRL
4-Bromofluorobenzene		90	%	1.0			09/28/2000	RRL

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: AL EASTERDAY
EA Engineering
175 Middlesex Turnpike

Bedford, MA 01730

Proj. ID:

Lab Number: WQ2913-2
SDG: WQ2913
Report Date: 10/3/00
PO No. : 29600.35
Project: NEX
% Solids: N/A
Method: EPA 8260
Date Analyzed: 9/28/00

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
MW-NEX-10	AQ	9/25/00	9/26/00	9/28/00	KMC	5030	KMC

Compound	Result	Units	DF	Sample PQL	Method PQL
TOLUENE	<1	ug/L	1.0	1	1
BENZENE	<1	ug/L	1.0	1	1
ETHYLBENZENE	<1	ug/L	1.0	1	1
TOTAL XYLENES	<1	ug/L	1.0	1	1
MTBE	<1	ug/L	1.0	1	1
1,2-DICHLOROETHANE-D4	96	%	1.0		
DIBROMOFLUOROMETHANE	97	%	1.0		
TOLUENE-D8	96	%	1.0		
P-BROMOFLUOROBENZENE	84	%	1.0		

Report Notes:

Katahdin Analytical Services, Inc.

REPORT OF ANALYTICAL RESULTS

Client:	AL EASTERDAY	Lab Sample ID:	WQ2913-3
	EA Engineering	SDG:	WQ2913
	175 Middlesex Turnpike	Report Date:	10/03/2000
	Bedford, MA 01730	PO No.:	29600.35
		Project:	NEX
		Percent Solids:	N/A
		Analytical Method:	ME DEP 4.1.25

Sample Description	Matrix	Date Sampled	Date Received	Date Prepped	Prep Chemist	Preparative Method
MW-NEX-25	Aqueous	09/25/2000	09/26/2000	09/27/2000	GNP	SW846 3510

Analyte	Qualifier	Result	Units	DF	Sample PQL	Method PQL	Date Analyzed	Analyst
Diesel Range Organics	J	43	ug/L	1.0	50	50	09/29/2000	AJR
o-Terphenyl		83	%	1.0			09/29/2000	AJR

Report Notes:

'J' flag denotes an estimated value less than the Laboratory's Practical Quantitation Level.

Katahdin Analytical Services, Inc.

REPORT OF ANALYTICAL RESULTS

Client: AL EASTERDAY
EA Engineering
175 Middlesex Turnpike
Bedford, MA 01730

Lab Sample ID: WQ2913-3
SDG: WQ2913
Report Date: 10/02/2000
PO No.: 29600.35
Project: NEX
Percent Solids: N/A
Analytical Method: ME DEP 4.2.17

Sample Description	Matrix	Date Sampled	Date Received	Date Prepped	Prep Chemist	Preparative Method
MW-NEX-25	Aqueous	09/25/2000	09/26/2000	09/29/2000	RRL	SW846 5030B

Analyte	Qualifier	Result	Units	DF	Sample PQL	Method PQL	Date Analyzed	Analyst
Gasoline Range Organics		< 10	ug/L	1.0	10	10	09/29/2000	RRL
4-Bromofluorobenzene		87	%	1.0			09/29/2000	RRL

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: AL EASTERDAY
EA Engineering
175 Middlesex Turnpike

Bedford, MA 01730

Proj. ID:

Lab Number: WQ2913-3
SDG: WQ2913
Report Date: 10/3/00
PO No. : 29600.35
Project: NEX
% Solids: N/A
Method: EPA 8260
Date Analyzed: 9/28/00

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
MW-NEX-25	AQ	9/25/00	9/26/00	9/28/00	KMC	5030	KMC

Compound	Result	Units	DF	Sample PQL	Method PQL
TOLUENE	<1	ug/L	1.0	1	1
BENZENE	<1	ug/L	1.0	1	1
ETHYLBENZENE	<1	ug/L	1.0	1	1
TOTAL XYLENES	<1	ug/L	1.0	1	1
MTBE	J0.7	ug/L	1.0	1	1
1,2-DICHLOROETHANE-D4	94	%	1.0		
DIBROMOFLUOROMETHANE	96	%	1.0		
TOLUENE-D8	96	%	1.0		
P-BROMOFLUOROBENZENE	85	%	1.0		

Report Notes: J

Katahdin Analytical Services, Inc.

REPORT OF ANALYTICAL RESULTS

Client: AL EASTERDAY
EA Engineering
175 Middlesex Turnpike
Bedford, MA 01730

Lab Sample ID: WQ2913-4
SDG: WQ2913
Report Date: 10/03/2000
PO No.: 29600.35
Project: NEX
Percent Solids: N/A
Analytical Method: ME DEP 4.1.25

Sample Description	Matrix	Date Sampled	Date Received	Date Prepped	Prep Chemist	Preparative Method
MW-NEX-26	Aqueous	09/25/2000	09/26/2000	09/27/2000	GNP	SW846 3510

Analyte	Qualifier	Result	Units	DF	Sample PQL	Method PQL	Date Analyzed	Analyst
Diesel Range Organics		2700	ug/L	2.8	140	50	10/02/2000	AJR
o-Terphenyl		81	%	2.8			10/02/2000	AJR

Report Notes:

Sample dilution required for quantitation of one or more target analytes; therefore, standard laboratory Practical Quantitation Level (PQL) could not be achieved.

Katahdin Analytical Services, Inc.

REPORT OF ANALYTICAL RESULTS

Client: AL EASTERDAY
EA Engineering
175 Middlesex Turnpike
Bedford, MA 01730

Lab Sample ID: WQ2913-4
SDG: WQ2913
Report Date: 10/02/2000
PO No.: 29600.35
Project: NEX
Percent Solids: N/A
Analytical Method: ME DEP 4.2.17

Sample Description	Matrix	Date Sampled	Date Received	Date Prepped	Prep Chemist	Preparative Method
MW-NEX-26	Aqueous	09/25/2000	09/26/2000	09/27/2000	RRL	SW846 5030B

Analyte	Qualifier	Result	Units	DF	Sample PQL	Method PQL	Date Analyzed	Analyst
Gasoline Range Organics		11000	ug/L	10	100	10	09/27/2000	RRL
4-Bromofluorobenzene	MI	154	%	10			09/27/2000	RRL

Report Notes:

'MI' denotes surrogate recovery out of criteria due to matrix interference.
Sample dilution required for quantitation of one or more target analytes; therefore, standard laboratory Practical Quantitation Level (PQL) could not be achieved.

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: AL EASTERDAY
EA Engineering
175 Middlesex Turnpike

Bedford, MA 01730

Proj. ID:

Lab Number: WQ2913-4
SDG: WQ2913
Report Date: 10/3/00
PO No. : 29600.35
Project: NEX
% Solids: N/A
Method: EPA 8260
Date Analyzed: 9/28/00

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
MW-NEX-26	AQ	9/25/00	9/26/00	9/28/00	KMC	5030	KMC

Compound	Result	Units	DF	Sample PQL	Method PQL
TOLUENE	4	ug/L	1.0	1	1
BENZENE	<1	ug/L	1.0	1	1
ETHYLBENZENE	48	ug/L	1.0	1	1
TOTAL XYLENES	400	ug/L	1.0	1	1
MTBE	<1	ug/L	1.0	1	1
1,2-DICHLOROETHANE-D4	89	%	1.0		
DIBROMOFLUOROMETHANE	84	%	1.0		
TOLUENE-D8	95	%	1.0		
P-BROMOFLUOROBENZENE	96	%	1.0		

Report Notes:

Katahdin Analytical Services, Inc.

REPORT OF ANALYTICAL RESULTS

Client:	AL EASTERDAY	**Lab Sample ID:**	WQ2913-5
	EA Engineering	**SDG:**	WQ2913
	175 Middlesex Turnpike	**Report Date:**	10/03/2000
	Bedford, MA 01730	**PO No.:**	29600.35
		Project:	NEX
		Percent Solids:	N/A
		Analytical Method:	ME DEP 4.1.25

Sample Description	Matrix	Date Sampled	Date Received	Date Prepped	Prep Chemist	Preparative Method
MW-NEX-225	Aqueous	09/26/2000	09/26/2000	09/27/2000	GNP	SW846 3510

Analyte	Qualifier	Result	Units	DF	Sample PQL	Method PQL	Date Analyzed	Analyst
Diesel Range Organics		2200	ug/L	1.9	93	50	10/02/2000	AJR
o-Terphenyl		84	%	1.9			10/02/2000	AJR

Report Notes:

Sample dilution required for quantitation of one or more target analytes; therefore, standard laboratory Practical Quantitation Level (PQL) could not be achieved.

Katahdin Analytical Services, Inc.

REPORT OF ANALYTICAL RESULTS

Client: AL EASTERDAY
EA Engineering
175 Middlesex Turnpike
Bedford, MA 01730

Lab Sample ID: WQ2913-5
SDG: WQ2913
Report Date: 10/02/2000
PO No.: 29600.35
Project: NEX
Percent Solids: N/A
Analytical Method: ME DEP 4.2.17

Sample Description	Matrix	Date Sampled	Date Received	Date Prepped	Prep Chemist	Preparative Method
MW-NEX-225	Aqueous	09/26/2000	09/26/2000	09/28/2000	RRL	SW846 5030B

Analyte	Qualifier	Result	Units	DF	Sample PQL	Method PQL	Date Analyzed	Analyst
Gasoline Range Organics		21000	ug/L	25	250	10	09/28/2000	RRL
4-Bromofluorobenzene		120	%	25			09/28/2000	RRL

Report Notes:

Sample dilution required for quantitation of one or more target analytes; therefore, standard laboratory Practical Quantitation Level (PQL) could not be achieved.

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: AL EASTERDAY
EA Engineering
175 Middlesex Turnpike

Bedford, MA 01730

Proj. ID:

Lab Number: WQ2913-5
SDG: WQ2913
Report Date: 10/3/00
PO No. : 29600.35
Project: NEX
% Solids: N/A
Method: EPA 8260
Date Analyzed: 9/28/00

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
MW-NEX-225	AQ	9/26/00	9/26/00	9/28/00	KMC	5030	KMC

Compound	Result	Units	DF	Sample PQL	Method PQL
TOLUENE	E1600	ug/L	1.0	1	1
BENZENE	<1	ug/L	1.0	1	1
ETHYLBENZENE	E980	ug/L	1.0	1	1
TOTAL XYLENES	E6200	ug/L	1.0	1	1
MTBE	<1	ug/L	1.0	1	1
1,2-DICHLOROETHANE-D4	76	%	1.0		
DIBROMOFLUOROMETHANE	75	%	1.0		
TOLUENE-D8	92	%	1.0		
P-BROMOFLUOROBENZENE	93	%	1.0		

Report Notes: E

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: AL EASTERDAY
EA Engineering
175 Middlesex Turnpike

Bedford, MA 01730

Proj. ID:

Lab Number: WQ2913-5DL
SDG: WQ2913
Report Date: 10/3/00
PO No. : 29600.35
Project: NEX
% Solids: N/A
Method: EPA 8260
Date Analyzed: 9/29/00

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
MW-NEX-225	AQ	9/26/00	9/26/00	9/29/00	BEG	5030	BEG

Compound	Result	Units	DF	Sample PQL	Method PQL
TOLUENE	5200	ug/L	100	100	1
BENZENE	<100	ug/L	100	100	1
ETHYLBENZENE	3600	ug/L	100	100	1
TOTAL XYLENES	25000	ug/L	100	100	1
MTBE	<100	ug/L	100	100	1
1,2-DICHLOROETHANE-D4	92	%	100		
DIBROMOFLUOROMETHANE	99	%	100		
TOLUENE-D8	104	%	100		
P-BROMOFLUOROBENZENE	103	%	100		

Report Notes: O-2

Katahdin Analytical Services, Inc.

REPORT OF ANALYTICAL RESULTS

Client: AL EASTERDAY
EA Engineering
175 Middlesex Turnpike
Bedford, MA 01730

Lab Sample ID: WQ2913-6
SDG: WQ2913
Report Date: 10/03/2000
PO No.: 29600.35
Project: NEX
Percent Solids: N/A
Analytical Method: ME DEP 4.1.25

Sample Description	Matrix	Date Sampled	Date Received	Date Prepped	Prep Chemist	Preparative Method
MW-NEX-226	Aqueous	09/26/2000	09/26/2000	09/27/2000	GNP	SW846 3510

Analyte	Qualifier	Result	Units	DF	Sample PQL	Method PQL	Date Analyzed	Analyst
Diesel Range Organics		1400	ug/L	1.0	50	50	09/30/2000	AJR
o-Terphenyl		84	%	1.0			09/30/2000	AJR

Katahdin Analytical Services, Inc.

REPORT OF ANALYTICAL RESULTS

Client: AL EASTERDAY
EA Engineering
175 Middlesex Turnpike
Bedford, MA 01730

Lab Sample ID: WQ2913-6
SDG: WQ2913
Report Date: 10/13/2000
PO No.: 29600.35
Project: NEX
Percent Solids: N/A
Analytical Method: ME DEP 4.2.17

Sample Description	Matrix	Date Sampled	Date Received	Date Prepped	Prep Chemist	Preparative Method
MW-NEX-226	Aqueous	09/26/2000	09/26/2000	09/27/2000	RRL	SW846 5030B

Analyte	Qualifier	Result	Units	DF	Sample PQL	Method PQL	Date Analyzed	Analyst
Gasoline Range Organics		6100	ug/L	10	100	10	09/27/2000	RRL
4-Bromofluorobenzene	MI	141	%	10			09/27/2000	RRL

Report Notes:

'MI' denotes surrogate recovery out of criteria due to matrix interference.
Sample dilution required for quantitation of one or more target analytes; therefore, standard laboratory Practical Quantitation Level (PQL) could not be achieved.

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: AL EASTERDAY
EA Engineering
175 Middlesex Turnpike

Bedford, MA 01730

Proj. ID:

Lab Number: WQ2913-6
SDG: WQ2913
Report Date: 10/4/00
PO No. : 29600.35
Project: NEX
% Solids: N/A
Method: EPA 8260
Date Analyzed: 9/28/00

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
MW-NEX-226	AQ	9/26/00	9/26/00	9/28/00	KMC	5030	KMC

Compound	Result	Units	DF	Sample PQL	Method PQL
TOLUENE	23	ug/L	1.0	1	1
BENZENE	<1	ug/L	1.0	1	1
ETHYLBENZENE	E310	ug/L	1.0	1	1
TOTAL XYLENES	E1500	ug/L	1.0	1	1
MTBE	<1	ug/L	1.0	1	1
1,2-DICHLOROETHANE-D4	68	%	1.0		
DIBROMOFLUOROMETHANE	#73	%	1.0		
TOLUENE-D8	92	%	1.0		
P-BROMOFLUOROBENZENE	88	%	1.0		

Report Notes: E, #

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: AL EASTERDAY
EA Engineering
175 Middlesex Turnpike

Bedford, MA 01730

Proj. ID:

Lab Number: WQ2913-6DL
SDG: WQ2913
Report Date: 10/3/00
PO No. : 29600.35
Project: NEX
% Solids: N/A
Method: EPA 8260
Date Analyzed: 9/29/00

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
MW-NEX-226	AQ	9/26/00	9/26/00	9/29/00	BEG	5030	BEG

Compound	Result	Units	DF	Sample PQL	Method PQL
TOLUENE	33	ug/L	20	20	1
BENZENE	<20	ug/L	20	20	1
ETHYLBENZENE	510	ug/L	20	20	1
TOTAL XYLENES	2900	ug/L	20	20	1
MTBE	<20	ug/L	20	20	1
1,2-DICHLOROETHANE-D4	90	%	20		
DIBROMOFLUOROMETHANE	96	%	20		
TOLUENE-D8	100	%	20		
P-BROMOFLUOROBENZENE	101	%	20		

Report Notes: O-2

Katahdin Analytical Services, Inc.

REPORT OF ANALYTICAL RESULTS

Client:	AL EASTERDAY	Lab Sample ID:	WQ2913-7
	EA Engineering	SDG:	WQ2913
	175 Middlesex Turnpike	Report Date:	10/03/2000
	Bedford, MA 01730	PO No.:	29600.35
		Project:	NEX
		Percent Solids:	N/A
		Analytical Method:	ME DEP 4.1.25

Sample Description	Matrix	Date Sampled	Date Received	Date Prepped	Prep Chemist	Preparative Method
MW-NEX-XD1	Aqueous	09/25/2000	09/26/2000	09/27/2000	GNP	SW846 3510

Analyte	Qualifier	Result	Units	DF	Sample PQL	Method PQL	Date Analyzed	Analyst
Diesel Range Organics		2800	ug/L	2.8	140	50	10/02/2000	AJR
o-Terphenyl		83	%	2.8			10/02/2000	AJR

Report Notes:

Sample dilution required for quantitation of one or more target analytes; therefore, standard laboratory Practical Quantitation Level (PQL) could not be achieved.

Katahdin Analytical Services, Inc.

REPORT OF ANALYTICAL RESULTS

Client: AL EASTERDAY
EA Engineering
175 Middlesex Turnpike
Bedford, MA 01730

Lab Sample ID: WQ2913-7
SDG: WQ2913
Report Date: 10/02/2000
PO No.: 29600.35
Project: NEX
Percent Solids: N/A
Analytical Method: ME DEP 4.2.17

Sample Description	Matrix	Date Sampled	Date Received	Date Prepped	Prep Chemist	Preparative Method
MW-NEX-XD1	Aqueous	09/25/2000	09/26/2000	09/28/2000	RRL	SW846 5030B

Analyte	Qualifier	Result	Units	DF	Sample PQL	Method PQL	Date Analyzed	Analyst
Gasoline Range Organics		6700	ug/L	10	100	10	09/28/2000	RRL
4-Bromofluorobenzene		130	%	10			09/28/2000	RRL

Report Notes:

Sample dilution required for quantitation of one or more target analytes; therefore, standard laboratory Practical Quantitation Level (PQL) could not be achieved.

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: AL EASTERDAY
EA Engineering
175 Middlesex Turnpike

Bedford, MA 01730

Proj. ID:

Lab Number: WQ2913-7
SDG: WQ2913
Report Date: 10/3/00
PO No. : 29600.35
Project: NEX
% Solids: N/A
Method: EPA 8260
Date Analyzed: 9/29/00

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
MW-NEX-XD1	AQ	9/25/00	9/26/00	9/29/00	BEG	5030	BEG

Compound	Result	Units	DF	Sample PQL	Method PQL
TOLUENE	4	ug/L	1.0	1	1
BENZENE	J0.6	ug/L	1.0	1	1
ETHYLBENZENE	49	ug/L	1.0	1	1
TOTAL XYLENES	400	ug/L	1.0	1	1
MTBE	<1	ug/L	1.0	1	1
1,2-DICHLOROETHANE-D4	84	%	1.0		
BROMOFLUOROMETHANE	89	%	1.0		
TOLUENE-D8	106	%	1.0		
P-BROMOFLUOROBENZENE	109	%	1.0		

Report Notes: J

Katahdin Analytical Services, Inc.

REPORT OF ANALYTICAL RESULTS

Client: AL EASTERDAY
EA Engineering
175 Middlesex Turnpike
Bedford, MA 01730

Lab Sample ID: WQ2913-8
SDG: WQ2913
Report Date: 10/03/2000
PO No.: 29600.35
Project: NEX
Percent Solids: N/A
Analytical Method: ME DEP 4.1.25

Sample Description	Matrix	Date Sampled	Date Received	Date Prepped	Prep Chemist	Preparative Method
MW-NEX-RB1	Aqueous	09/26/2000	09/26/2000	09/27/2000	GNP	SW846 3510

Analyte	Qualifier	Result	Units	DF	Sample PQL	Method PQL	Date Analyzed	Analyst
Diesel Range Organics		160	ug/L	1.0	50	50	09/30/2000	AJR
o-Terphenyl		87	%	1.0			09/30/2000	AJR

Katahdin Analytical Services, Inc.

REPORT OF ANALYTICAL RESULTS

Client:	AL EASTERDAY	Lab Sample ID:	WQ2913-8
	EA Engineering	SDG:	WQ2913
	175 Middlesex Turnpike	Report Date:	10/02/2000
	Bedford, MA 01730	PO No.:	29600.35
		Project:	NEX
		Percent Solids:	N/A
		Analytical Method:	ME DEP 4.2.17

Sample Description	Matrix	Date Sampled	Date Received	Date Prepped	Prep Chemist	Preparative Method
MW-NEX-RB1	Aqueous	09/26/2000	09/26/2000	09/28/2000	RRL	SW846 5030B

Analyte	Qualifier	Result	Units	DF	Sample PQL	Method PQL	Date Analyzed	Analyst
Gasoline Range Organics		< 10	ug/L	1.0	10	10	09/28/2000	RRL
4-Bromofluorobenzene		89	%	1.0			09/28/2000	RRL

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: AL EASTERDAY
EA Engineering
175 Middlesex Turnpike

Bedford, MA 01730

Proj. ID:

Lab Number: WQ2913-8
SDG: WQ2913
Report Date: 10/3/00
PO No. : 29600.35
Project: NEX
% Solids: N/A
Method: EPA 8260
Date Analyzed: 9/29/00

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
MW-NEX-RB1	AQ	9/26/00	9/26/00	9/29/00	BEG	5030	BEG

Compound	Result	Units	DF	Sample PQL	Method PQL
TOLUENE	<1	ug/L	1.0	1	1
BENZENE	<1	ug/L	1.0	1	1
ETHYLBENZENE	<1	ug/L	1.0	1	1
TOTAL XYLENES	<1	ug/L	1.0	1	1
MTBE	<1	ug/L	1.0	1	1
1,2-DICHLOROETHANE-D4	79	%	1.0		
DIBROMOFLUOROMETHANE	88	%	1.0		
TOLUENE-D8	101	%	1.0		
P-BROMOFLUOROBENZENE	97	%	1.0		

Report Notes:

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: AL EASTERDAY
EA Engineering
175 Middlesex Turnpike

Bedford, MA 01730

Proj. ID:

Lab Number: WQ2913-9
SDG: WQ2913
Report Date: 10/3/00
PO No. : 29600.35
Project: NEX
% Solids: N/A
Method: EPA 8260
Date Analyzed: 9/29/00

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
MW-NEX-QTI	AQ	8/31/00	9/26/00	9/29/00	BEG	5030	BEG

Compound	Result	Units	DF	Sample PQL	Method PQL
TOLUENE	<1	ug/L	1.0	1	1
BENZENE	<1	ug/L	1.0	1	1
ETHYLBENZENE	<1	ug/L	1.0	1	1
TOTAL XYLENES	<1	ug/L	1.0	1	1
MTBE	<1	ug/L	1.0	1	1
1,2-DICHLOROETHANE-D4	82	%	1.0		
IBROMOFLUOROMETHANE	92	%	1.0		
UENE-D8	102	%	1.0		
P-BROMOFLUOROBENZENE	98	%	1.0		

Report Notes:

Katahdin Analytical Services, Inc.

Quality Control Report

Method Blank Summary

Work Order/SDG: WQ2913

Method Blank ID: BF950
Analytical Method: ME DEP 4.1.25
Date(s) Analyzed: 09/29/2000
Lab Data File(s): aqi5053

Matrix: AQ
Preparative Method: SW846 3510
Date Prepared: 09/27/2000
QC Batch ID: QI27FOW0

	Client Sample ID	Lab Sample ID	Lab Data File(s)	Date(s) Analyzed	DF
01	LABQC	LCF950	aqi5054	09/29/2000	1.0
02	MW-NEX-9	WQ2913-1 MS	aqi5055	09/29/2000	1.0
03	MW-NEX-9	WQ2913-1 MSD	aqi5056	09/29/2000	1.0
04	MW-NEX-9	WQ2913-1	aqi5057	09/29/2000	1.0
05	MW-NEX-10	WQ2913-2	aqi5058	09/29/2000	1.0
06	MW-NEX-25	WQ2913-3	aqi5059	09/29/2000	1.0
07	MW-NEX-226	WQ2913-6	aqi5062	09/30/2000	1.0
08	MW-NEX-RB1	WQ2913-8	aqi5064	09/30/2000	1.0
09	MW-NEX-26	WQ2913-4	aqj1007	10/02/2000	2.8
10	MW-NEX-225	WQ2913-5	aqj1008, aqj1008a	10/02/2000	1.9
11	MW-NEX-XD1	WQ2913-7	aqj1009	10/02/2000	2.8
12					
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Notes:

Katahdin Analytical Services, Inc.

REPORT OF ANALYTICAL RESULTS

Client: AL EASTERDAY
EA Engineering
175 Middlesex Turnpike
Bedford, MA 01730

Lab Sample ID: BF950
SDG: WQ2913
Report Date: 10/03/2000
PO No.: 29600.35
Project: NEX
Percent Solids: N/A
Analytical Method: ME DEP 4.1.25

Sample Description	Matrix	Date Sampled	Date Received	Date Prepped	Prep Chemist	Preparative Method
LABQC	Aqueous	N/A	N/A	09/27/2000	GNP	SW846 3510

Analyte	Qualifier	Result	Units	DF	Sample PQL	Method PQL	Date Analyzed	Analyst
Diesel Range Organics		< 50	ug/L	1.0	50	50	09/29/2000	AJR
o-Terphenyl		76	%	1.0			09/29/2000	AJR

Katahdin Analytical Services, Inc.

Quality Control Report

Laboratory Control Spike/ Laboratory Control Spike Duplicate Results

LCS ID: LCF950
Preparation Method: SW846 3510
Analytical Method: ME DEP 4.1.25
File(s): aqi5054

Matrix: Aqueous
Preparation Date: 09/27/2000
Analysis Date(s): 09/29/2000
QC Batch ID: QI27FOW0

Compound Name	Units	Spike Amount	LCS Results	LCSD Results	LCS % Recovery	LCSD % Recovery	Acceptance Limits (%)	RPD (%)	RPD Limit (%)
Diesel Range Organics	ug/L	500	420	N/A	85	N/A	60 - 140	N/A	N/A

Notes:

'N/A' = Not Applicable.

Katahdin Analytical Services, Inc.

Quality Control Report

Matrix Spike/ Matrix Spike Duplicate Results

Analytical Method: ME DEP 4.1.25

Preparation Method: SW846 3510

Matrix: Aqueous

Sample ID	Prep. Date	QC Batch ID	Analyst(s)	Analysis Date(s)	File(s)
WQ2913-1	09/27/2000	QI27FOW0	AJR	09/29/2000	aqi5057
WQ2913-1 MS	09/27/2000	QI27FOW0	AJR	09/29/2000	aqi5055
WQ2913-1 MSD	09/27/2000	QI27FOW0	AJR	09/29/2000	aqi5056

Compound Name	Units	Spiked Amount		Results			Recovery (%)		Acceptance Limits (%)	RPD (%)	RPD Limit (%)
		MS	MSD	Sample	MS	MSD	MS	MSD			
Diesel Range Organics	ug/L	505	505	J 48	550	520	99	93	60 - 140	5	20

Notes:

'J' flag denotes an estimated value less than the Laboratory's Practical Quantitation Level.

Katahdin Analytical Services, Inc.

Quality Control Report

Method Blank Summary

Work Order/SDG: WQ2913

Method Blank ID: 4BGROQI27
Analytical Method: ME DEP 4.2.17
Date(s) Analyzed: 09/27/2000
Lab Data File(s): 4qi4044

Matrix: AQ
Preparative Method: SW846 5030B
Date Prepared: 09/27/2000
QC Batch ID: QI27GRW1

	Client Sample ID	Lab Sample ID	Lab Data File(s)	Date(s) Analyzed	DF
01	LABQC	4LGROQI27	4qi4042	09/27/2000	1.0
02	LABQC	4LDGROQI27	4qi4043	09/27/2000	1.0
03	MW-NEX-26	WQ2913-4	4qi4051, 4qi4051A	09/27/2000	10
04	MW-NEX-226	WQ2913-6	4qi4053	09/27/2000	10
05	MW-NEX-XD1	WQ2913-7	4qi4058, 4qi4058A	09/28/2000	10
06	MW-NEX-RB1	WQ2913-8	4qi4059	09/28/2000	1.0
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Notes:

Katahdin Analytical Services, Inc.

REPORT OF ANALYTICAL RESULTS

Client: AL EASTERDAY
EA Engineering
175 Middlesex Turnpike
Bedford, MA 01730

Lab Sample ID: 4BGROQI27
SDG: WQ2913
Report Date: 10/02/2000
PO No.: 29600.35
Project: NEX
Percent Solids: N/A
Analytical Method: ME DEP 4.2.17

Sample Description	Matrix	Date Sampled	Date Received	Date Prepped	Prep Chemist	Preparative Method
LABQC	Aqueous	N/A	N/A	09/27/2000	RRL	SW846 5030B

Analyte	Qualifier	Result	Units	DF	Sample PQL	Method PQL	Date Analyzed	Analyst
Gasoline Range Organics		< 10	ug/L	1.0	10	10	09/27/2000	RRL
4-Bromofluorobenzene		96	%	1.0			09/27/2000	RRL

Katahdin Analytical Services, Inc.

Quality Control Report

Method Blank Summary

Work Order/SDG: WQ2913

Method Blank ID: 4BGROQI28
Analytical Method: ME DEP 4.2.17
Date(s) Analyzed: 09/28/2000
Lab Data File(s): 4qi4068

Matrix: AQ
Preparative Method: SW846 5030B
Date Prepared: 09/28/2000
QC Batch ID: QI28GRW1

	Client Sample ID	Lab Sample ID	Lab Data File(s)	Date(s) Analyzed	DF
01	LABQC	4LGROQI28	4qi4063	09/28/2000	1.0
02	LABQC	4LDGROQI28	4qi4064	09/28/2000	1.0
03	MW-NEX-225	WQ2913-5	4qi4072, 4qi4072A	09/28/2000	25
04	MW-NEX-10	WQ2913-2	4qi4073	09/28/2000	1.0
05	MW-NEX-25	WQ2913-3	4qi4074	09/29/2000	1.0
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Notes:

Katahdin Analytical Services, Inc.

REPORT OF ANALYTICAL RESULTS

Client: AL EASTERDAY
EA Engineering
175 Middlesex Turnpike
Bedford, MA 01730

Lab Sample ID: 4BGROQI28
SDG: WQ2913
Report Date: 10/02/2000
PO No.: 29600.35
Project: NEX
Percent Solids: N/A
Analytical Method: ME DEP 4.2.17

Sample Description	Matrix	Date Sampled	Date Received	Date Prepped	Prep Chemist	Preparative Method
LABQC	Aqueous	N/A	N/A	09/28/2000	RRL	SW846 5030B

Analyte	Qualifier	Result	Units	DF	Sample PQL	Method PQL	Date Analyzed	Analyst
Gasoline Range Organics		< 10	ug/L	1.0	10	10	09/28/2000	RRL
4-Bromofluorobenzene		80	%	1.0			09/28/2000	RRL

Katahdin Analytical Services, Inc.

Quality Control Report

Method Blank Summary

Work Order/SDG: WQ2913

Method Blank ID: 4BGROQI29
Analytical Method: ME DEP 4.2.17
Date(s) Analyzed: 09/29/2000
Lab Data File(s): 4qi4084

Matrix: AQ
Preparative Method: SW846 5030B
Date Prepared: 09/29/2000
QC Batch ID: QI29GRW1

	Client Sample ID	Lab Sample ID	Lab Data File(s)	Date(s) Analyzed	DF
01	LABQC	4LGROQI29	4qi4082	09/29/2000	1.0
02	LABQC	4LDGROQI29	4qi4083	09/29/2000	1.0
03	MW-NEX-9	WQ2913-1	4qi4085	09/29/2000	1.0
04	MW-NEX-9	WQ2913-1 MS	4qi4086	09/29/2000	1.0
05	MW-NEX-9	WQ2913-1 MSD	4qi4087	09/29/2000	1.0
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07					
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Notes:

Katahdin Analytical Services, Inc.

REPORT OF ANALYTICAL RESULTS

Client:	AL EASTERDAY	Lab Sample ID:	4BGROQI29
	EA Engineering	SDG:	WQ2913
	175 Middlesex Turnpike	Report Date:	10/02/2000
	Bedford, MA 01730	PO No.:	29600.35
		Project:	NEX
		Percent Solids:	N/A
		Analytical Method:	ME DEP 4.2.17

Sample Description	Matrix	Date Sampled	Date Received	Date Prepped	Prep Chemist	Preparative Method
LABQC	Aqueous	N/A	N/A	09/29/2000	RRL	SW846 5030B

Analyte	Qualifier	Result	Units	DF	Sample PQL	Method PQL	Date Analyzed	Analyst
Gasoline Range Organics		< 10	ug/L	1.0	10	10	09/29/2000	RRL
4-Bromofluorobenzene		83	%	1.0			09/29/2000	RRL

Katahdin Analytical Services, Inc.

Quality Control Report

Laboratory Control Spike/ Laboratory Control Spike Duplicate Results

LCS ID: 4LGROQI27
Preparation Method: SW846 5030B
Analytical Method: ME DEP 4.2.17
File(s): 4qi4042, 4qi4043

Matrix: Aqueous
Preparation Date: 09/27/2000
Analysis Date(s): 09/27/2000
QC Batch ID: QI27GRW1

Compound Name	Units	Spike Amount	LCS Results	LCSD Results	LCS % Recovery	LCSD % Recovery	Acceptance Limits (%)	RPD (%)	RPD Limit (%)
Gasoline Range Organics	ug/L	100	87	78	87	78	60 - 140	11	20

Notes:

'N/A' = Not Applicable.

Katahdin Analytical Services, Inc.

Quality Control Report

Laboratory Control Spike/ Laboratory Control Spike Duplicate Results

LCS ID: 4LGROQI28
Preparation Method: SW846 5030B
Analytical Method: ME DEP 4.2.17
File(s): 4qi4063, 4qi4064

Matrix: Aqueous
Preparation Date: 09/28/2000
Analysis Date(s): 09/28/2000
QC Batch ID: QI28GRW1

Compound Name	Units	Spike Amount	LCS Results	LCSD Results	LCS % Recovery	LCSD % Recovery	Acceptance Limits (%)	RPD (%)	RPD Limit (%)
Gasoline Range Organics	ug/L	100	90	88	90	88	60 - 140	2	20

Notes:

'N/A' = Not Applicable.

Katahdin Analytical Services, Inc.

Quality Control R port

Laboratory Control Spike/ Laboratory Control Spike Duplicate Results

LCS ID: 4LGROQI29
Preparation Method: SW846 5030B
Analytical Method: ME DEP 4.2.17
File(s): 4qi4082, 4qi4083

Matrix: Aqueous
Preparation Date: 09/29/2000
Analysis Date(s): 09/29/2000
QC Batch ID: QI29GRW1

Compound Name	Units	Spike Amount	LCS Results	LCSD Results	LCS % Recovery	LCSD % Recovery	Acceptance Limits (%)	RPD (%)	RPD Limit (%)
Gasoline Range Organics	ug/L	100	89	73	89	73	60 - 140	20	20

Notes:

'N/A' = Not Applicable.

Katahdin Analytical Services, Inc.

Quality Control Report

Matrix Spike/ Matrix Spike Duplicate Results

Analytical Method: ME DEP 4.2.17

Preparation Method: SW846 5030B

Matrix: Aqueous

Sample ID	Prep. Date	QC Batch ID	Analyst(s)	Analysis Date(s)	File(s)
WQ2913-1	09/29/2000	QI29GRW1	RRL	09/29/2000	4qi4085
WQ2913-1 MS	09/29/2000	QI29GRW1	RRL	09/29/2000	4qi4086
WQ2913-1 MSD	09/29/2000	QI29GRW1	RRL	09/29/2000	4qi4087

Compound Name	Units	Spiked Amount		Results			Recovery (%)		Acceptance Limits (%)	RPD (%)	RPD Limit (%)
		MS	MSD	Sample	MS	MSD	MS	MSD			
Gasoline Range Organics	ug/L	100	100	< 10	83	90	83	90	60 - 140	8	20

4A

VOLATILE ORGANICS METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBLKF28A

Lab Name: Katahdin Analytical Services SDG No.: WQ2913

Lab File ID: F7126 Lab Sample ID: VBLKF28A

Date Analyzed: 09/28/00 Time Analyzed: 8:15

GC Column: RTX-624 ID: 0.18 (mm) Heated Purge: (Y/N) N

Instrument ID: 5972-F

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, LCS'S, MS AND MSD'S :

Client Sample ID	Lab Sample ID	Lab Data File	Date Injected	Time Injected
LCSF28A	LCSF28A	F7125	9/28/00	7:24:00 AM
MW-NEX-9	WQ2913-1	F7127	9/28/00	9:08:00 AM
MW-NEX-10	WQ2913-2	F7128	9/28/00	9:45:00 AM
MW-NEX-25	WQ2913-3	F7129	9/28/00	10:22:00 AM
MW-NEX-26	WQ2913-4	F7130	9/28/00	10:59:00 AM
MW-NEX-225	WQ2913-5	F7131	9/28/00	11:35:00 AM
MW-NEX-226	WQ2913-6	F7132	9/28/00	12:12:00 PM

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: AL EASTERDAY
EA Engineering
175 Middlesex Turnpike

Bedford, MA 01730

Proj. ID:

Lab Number: VBLKF28A
SDG: WQ2913
Report Date: 10/3/00
PO No. : 29600.35
Project: NEX
% Solids: N/A
Method: EPA 8260
Date Analyzed: 9/28/00

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
VBLKF28A	AQ	-	-	9/28/00	KMC	5030	KMC

Compound	Result	Units	DF	Sample PQL	Method PQL
TOLUENE	<1	ug/L	1.0	1	1
BENZENE	<1	ug/L	1.0	1	1
ETHYLBENZENE	<1	ug/L	1.0	1	1
TOTAL XYLENES	<1	ug/L	1.0	1	1
MTBE	<1	ug/L	1.0	1	1
1,2-DICHLOROETHANE-D4	90	%	1.0		
DIBROMOFLUOROMETHANE	94	%	1.0		
TOLUENE-D8	93	%	1.0		
P-BROMOFLUOROBENZENE	82	%	1.0		

Report Notes:

4A

VOLATILE ORGANICS METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBLKM29C

Lab Name: Katahdin Analytical Services SDG No.: WQ2913

Lab File ID: M6990 Lab Sample ID: VBLKM29C

Date Analyzed: 09/29/00 Time Analyzed: 17:22

GC Column: RTX-624 ID: 0.18 (mm) Heated Purge: (Y/N) N

Instrument ID: 5972-M

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, LCS'S, MS AND MSD'S :

Client Sample ID	Lab Sample ID	Lab Data File	Date Injected	Time Injected
LCSM29B	LCSM29B	M6988	9/29/00	3:37:00 PM
MW-NEX-225	WQ2913-5DL	M6994	9/29/00	8:16:00 PM
MW-NEX-226	WQ2913-6DL	M6996	9/29/00	9:35:00 PM
MW-NEX-XD1	WQ2913-7	M6997	9/29/00	10:14:00 PM
MW-NEX-RB1	WQ2913-8	M6998	9/29/00	10:54:00 PM
MW-NEX-QTI	WQ2913-9	M6999	9/29/00	11:34:00 PM

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: AL EASTERDAY
EA Engineering
175 Middlesex Turnpike

Bedford, MA 01730

Proj. ID:

Lab Number: VBLKM29C
SDG: WQ2913
Report Date: 10/3/00
PO No. : 29600.35
Project: NEX
% Solids: N/A
Method: EPA 8260
Date Analyzed: 9/29/00

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
VBLKM29C	AQ	-	-	9/29/00	BEG	5030	BEG

Compound	Result	Units	DF	Sample PQL	Method PQL
TOLUENE	<1	ug/L	1.0	1	1
BENZENE	<1	ug/L	1.0	1	1
ETHYLBENZENE	<1	ug/L	1.0	1	1
TOTAL XYLENES	<1	ug/L	1.0	1	1
MTBE	<1	ug/L	1.0	1	1
1,2-DICHLOROETHANE-D4	95	%	1.0		
DIBROMOFLUOROMETHANE	101	%	1.0		
TOLUENE-D8	105	%	1.0		
P-BROMOFLUOROBENZENE	99	%	1.0		

Report Notes:

4A

VOLATILE ORGANICS METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBLKM30B

Lab Name: Katahdin Analytical Services SDG No.: WQ2913

Lab File ID: M7013 Lab Sample ID: VBLKM30B

Date Analyzed: 09/30/00 Time Analyzed: 16:50

GC Column: RTX-624 ID: 0.18 (mm) Heated Purge: (Y/N) N

Instrument ID: 5972-M

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, LCS'S, MS AND MSD'S :

Client Sample ID	Lab Sample ID	Lab Data File	Date Injected	Time Injected
LCSM30A	LCSM30A	M7011	9/30/00	3:31:00 PM
MW-NEX-9MS	WQ2913-1MS	M7019	9/30/00	8:52:00 PM
MW-NEX-9MSD	WQ2913-1MSD	M7020	9/30/00	9:33:00 PM

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: AL EASTERDAY
EA Engineering
175 Middlesex Turnpike

Bedford, MA 01730

Proj. ID:

Lab Number: VBLKM30B
SDG: WQ2913
Report Date: 10/3/00
PO No. : 29600.35
Project: NEX
% Solids: N/A
Method: EPA 8260
Date Analyzed: 9/30/00

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
VBLKM30B	AQ	-	-	9/30/00	JSS	5030	JSS

Compound	Result	Units	DF	Sample PQL	Method PQL
TOLUENE	<1	ug/L	1.0	1	1
BENZENE	<1	ug/L	1.0	1	1
ETHYLBENZENE	<1	ug/L	1.0	1	1
TOTAL XYLENES	<1	ug/L	1.0	1	1
MTBE	<1	ug/L	1.0	1	1
1,2-DICHLOROETHANE-D4	101	%	1.0		
DIBROMOFLUOROMETHANE	100	%	1.0		
TOLUENE-D8	99	%	1.0		
P-BROMOFLUOROBENZENE	97	%	1.0		

Report Notes:

Katahdin Analytical Services
8260 LCS Recovery Sheet

Lab File: F7125 | Sample ID: LCSF28A | Date Run: 9/28/00

Analyst: KMC | Time Injected: 7:24:00 AM | Matrix: AQ

Compound Name	Spike Amt (ug/L)	Result (ug/L)	Rec (%)	Limits (%)
BENZENE	50	49.7	99	60-140
ETHYLBENZENE	50	53.3	106	60-140
MTBE	50	49.2	98	60-140
TOLUENE	50	49.4	99	60-140
TOTAL XYLENES	150	157	105	60-140

* Out of Limits

1

Katahdin Analytical Services
8260 LCS Recovery Sheet

Lab File: M6988 Sample ID: LCSM29B Date Run: 9/29/00

Analyst: BEG Time Injected: 3:37:00 PM Matrix: AQ

Compound Name	Spike Amt (ug/L)	Result (ug/L)	Rec (%)	Limits (%)
BENZENE	50	56.6	113	60-140
ETHYLBENZENE	50	62.1	124	60-140
MTBE	50	54.9	110	60-140
TOLUENE	50	58.1	116	60-140
TOTAL XYLENES	150	183	122	60-140

* Out of Limits

1

Katahdin Analytical Services
8260 LCS Recovery Sheet

Lab File: M7011 | Sample ID: LCSM30A | Date Run: 9/30/00

Analyst: JSS | Time Injected: 3:31:00 PM | Matrix: AQ

Compound Name	Spike Amt (ug/L)	Result (ug/L)	Rec (%)	Limits (%)
BENZENE	50	52.1	104	60-140
ETHYLBENZENE	50	57.2	114	60-140
MTBE	50	53.1	106	60-140
TOLUENE	50	54.8	110	60-140
TOTAL XYLENES	150	170	113	60-140

* Out of Limits

1

Katahdin Analytical Services

MS/MSD Report

Sample	File Name	Date Acquired	Time inj	Analyst	Matrix	Method
WQ2913-1	F7127	9/28/00	9:08:00 AM	KMC	AQ	8260_99
WQ2913-1MS	M7019	9/30/00	8:52:00 PM	JSS	AQ	8260_99
WQ2913-1MSD	M7020	9/30/00	9:33:00 PM	JSS	AQ	8260_99

Compound Name	Native (ug/L)	MS Spk Amount (ug/L)	MSD Spk Amount (ug/L)	MS Result (ug/L)	MSD Result (ug/L)	MS REC (%)	MSD REC (%)	Recovery Limits (%)	RPD (%)	RPD Limit (%)
TOTAL XYLENES	0	150	150	125	135	83	90	60-140	7.7	20
TOLUENE	0	50	50	38.8	43.1	78	86	60-140	10	20
MTBE	0	50	50	45.2	45.3	90	90	60-140	0.22	20
ETHYLBENZENE	0	50	50	42.2	44.8	84	90	60-140	6.0	20
BENZENE	0	50	50	37.2	42.0	74	84	60-140	12	20

RPD =[(ms res - msd res) / (ms res + msd res)/2] * 100

* Out of Limits

1

KATAHDIN ANALYTICAL SERVICES, INC.
SAMPLE RECEIPT CONDITION REPORT
Tel. (207) 874-2400
Fax (207) 775-4029

LAB (WORK ORDER) # WQ 2913

PAGE: 1 OF 3

COOLER: 1 OF 3

CLIENT: EA

PROJECT: NEX

COC# —
SDG# —
DATE / TIME RECEIVED: 9/26/00 @ 1629
DELIVERED BY: Katahdin
RECEIVED BY: TS
LIMS ENTRY BY: SCW
LIMS REVIEW BY / PM: AJC

	YES	NO	EXCEPTIONS	COMMENTS	RESOLUTION
1. CUSTODY SEALS PRESENT / INTACT?	☐	☑	☐		
2. CHAIN OF CUSTODY PRESENT IN THIS COOLER?	☑	☐	☐		
3. CHAIN OF CUSTODY SIGNED BY CLIENT?	☑	☐	☐		
4. CHAIN OF CUSTODY MATCHES SAMPLES?	☑	☐	☐		
5. TEMPERATURE BLANKS PRESENT?	☑	☐	☐	TEMP BLANK TEMP (°C)= 11.3	Samples delivered to lab after collection
6. SAMPLES RECEIVED AT 4°C +/- 2? ICE / ICE PACKS PRESENT Y or (N)	☐	☑	☐	COOLER TEMP (°C)= NA (RECORD COOLER TEMP ONLY IF TEMP BLANK IS NOT PRESENT)	
7. VOLATILES FREE OF HEADSPACE?	☐	☐	☑		
8. TRIP BLANK PRESENT IN THIS COOLER	☐	☑	☐		
9. PROPER SAMPLE CONTAINERS AND VOLUME?	☑	☐	☐		
10. SAMPLES WITHIN HOLD TIME UPON RECEIPT?	☑	☐	☐		
11. SAMPLES PROPERLY PRESERVED(1)?	☑	☐	☐		
12. CORRECTIVE ACTION REPORT FILED?	☐	☑	N/A		

13. ANALYTICAL PROGRAMS (CIRCLE ONE) COMMERCIAL CLP HAZWRAP (NFESC) ACOE AFCEE OTHER (STATE OF ORIGIN):

LOG-IN NOTES(1):

(1) Use this space (and additional sheets if necessary) to document samples that are received broken or compromised, C-O-C discrepancies, radiation checks, residual chlorine check results of pH

TAHDIN ANALYTICAL SERVICES, INC.
SAMPLE RECEIPT CONDITION REPORT
Tel. (207) 874-2400
Fax (207) 775-4029

LAB (WORK ORDER) # LB 2913

PAGE: 2 OF 3

COOLER: 2 OF 3

CLIENT: EA

COC# –
SDG# –
DATE / TIME RECEIVED: 9/26/00~1629
DELIVERED BY: Katahdin
RECEIVED BY: TS
LIMS ENTRY BY: SA
LIMS REVIEW BY / PM: DC

PROJECT: NEX

	YES	NO	EXCEPTIONS	COMMENTS	RESOLUTION
1. CUSTODY SEALS PRESENT / INTACT?	☐	☑	☐		
2. CHAIN OF CUSTODY PRESENT IN THIS COOLER?	☑	☐	☐		
3. CHAIN OF CUSTODY SIGNED BY CLIENT?	☑	☐	☐		
4. CHAIN OF CUSTODY MATCHES SAMPLES?	☑	☐	☐		
5. TEMPERATURE BLANKS PRESENT?	☑	☐	☐	TEMP BLANK TEMP (°C)= 10.8	Samples delivered to lab after collection
6. SAMPLES RECEIVED AT 4°C +/- 2? ICE / ICE PACKS PRESENT Y or (N?)	☐	☑	☐	COOLER TEMP (°C)= NA (RECORD COOLER TEMP ONLY IF TEMP BLANK IS NOT PRESENT)	
7. VOLATILES FREE OF HEADSPACE?	☑	☐	☐		
8. TRIP BLANK PRESENT IN THIS COOLER	☑	☐	☐		
9. PROPER SAMPLE CONTAINERS AND VOLUME?	☑	☐	☐		
10. SAMPLES WITHIN HOLD TIME UPON RECEIPT?	☑	☐	☐		
11. SAMPLES PROPERLY PRESERVED(1)?	☑	☐	☐		
12. CORRECTIVE ACTION REPORT FILED?	☐	☑	N/A		

13. ANALYTICAL PROGRAMS (CIRCLE ONE) COMMERCIAL CLP HAZWRAP (NFESC) ACOE AFCEE OTHER (STATE OF ORIGIN):

LOG - IN NOTES(1):

(1) Use this space (and additional sheets if necessary) to document samples that are received broken or compromised, C-O-C discrepancies, radiation checks, residual chlorine check, results of pH

KATAHDIN ANALYTICAL SERVICES, INC.
SAMPLE RECEIPT CONDITION REPORT
Tel. (207) 874-2400
Fax (207) 775-4029

LAB (WORK ORDER) # CWQ2913

PAGE: 3 OF 3

COOLER: 3 OF 3

CLIENT: EA

PROJECT: NEX

COC#
SDG#
DATE / TIME RECEIVED: 9/26/00~1629
DELIVERED BY: Katahdin
RECEIVED BY: TS
LIMS ENTRY BY: Sb
LIMS REVIEW BY / PM: AJC

	YES	NO	EXCEPTIONS	COMMENTS	RESOLUTION
1. CUSTODY SEALS PRESENT / INTACT?	☐	☑	☐		
2. CHAIN OF CUSTODY PRESENT IN THIS COOLER?	☑	☐	☐		
3. CHAIN OF CUSTODY SIGNED BY CLIENT?	☑	☐	☐		
4. CHAIN OF CUSTODY MATCHES SAMPLES?	☑	☐	☐		
5. TEMPERATURE BLANKS PRESENT?	☑	☐	☐	TEMP BLANK TEMP (°C)= 6.5	Samples delivered to lab after collection
6. SAMPLES RECEIVED AT 4°C +/- 2? ICE / ICE PACKS PRESENT Y or (N)	☐	☑	☐	COOLER TEMP (°C)= NA (RECORD COOLER TEMP ONLY IF TEMP BLANK IS NOT PRESENT)	
7. VOLATILES FREE OF HEADSPACE?	☐	☐	☑		
8. TRIP BLANK PRESENT IN THIS COOLER	☐	☑	☐		
9. PROPER SAMPLE CONTAINERS AND VOLUME?	☑	☐	☐		
10. SAMPLES WITHIN HOLD TIME UPON RECEIPT?	☑	☐	☐		
11. SAMPLES PROPERLY PRESERVED(1)?	☑	☐	☐		
12. CORRECTIVE ACTION REPORT FILED?	☐	☑	N/A		

13. ANALYTICAL PROGRAMS (CIRCLE ONE) COMMERCIAL CLP HAZWRAP (NFESC) ACOE AFCEE OTHER (STATE OF ORIGIN):

LOG-IN NOTES(1):

Use this space (and additional sheets if necessary) to document samples that are rec[illegible] broken or compromised, C-O-C discrepancies, radiation checks, residual chlorine check results of [illegible]

Katahdin Analytical Services
340 County Road No. 5
P.O. Box 720
Westbrook, ME 04092
Tel: (207) 874-2400
Fax: (207) 775-4029

CHAIN of CUSTODY

PLEASE PRINT IN PEN

Page ____ of ____

Client: EA

Contact: Suzanne Chase

Phone #: (207) 798-5977

Fax #: ( )

Address: 175 Middlesex Turnpike

City: Bedford

State: MA

Zip Code: 01730

Purchase Order #:

Proj. Name / No.:

Katahdin Quote #:

Bill (if different than above):

Address:

Sampler (Print / Sign):

Copies To:

LAB USE ONLY

WORK ORDER #: WG2913

KATAHDIN PROJECT MANAGER:

REMARKS:

SHIPPING INFO: ☐ FED EX ☐ UPS ☐ CLIENT

AIRBILL NO:

TEMP°C ____ ☐ TEMP BLANK ☐ INTACT ☐ NOT INTACT

ANALYSIS AND CONTAINER TYPE PRESERVATIVES

*	Sample Description	Date / Time coll'd	Matrix	No. of Cntrs.	VOC 8260 (Filt. ☐Y☐N)	DRO (Filt. ☐Y☐N)	GRO (Filt. ☐Y☐N)	Filt. ☐Y☐N	Filt. ☐Y☐N	Filt. ☐Y☐N	Filt. ☐Y☐N	Filt. ☐Y☐N	Filt. ☐Y☐N	Filt. ☐Y☐N
	MW-NEX-09	9-25-00/1050	W	24	X	X	X	MS/MSD						
	MW-NEX-10	9-25-00/1400	W	8	X	X	X							
	MW-NEX-25	9-25-00/1150	W	8	X	X	X							
	MW-NEX-26	9-25-00/1443	W	8	X	X	X							
	MW-NEX-225	9-26-00/1025	W	8	X	X	X							
	MW-NEX-226	9-26-00/1206	W	8	X	X	X							
	MW-NEX-X01	9-25-00/—	W	8	X	X	X							
	MW-NEX-RB1	9-26-00/1530	W	8	X	X	X							
	MW-NEX-QT1	9-26-00/211	W	3	X	~~X~~	~~X~~							
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		/												
		/												
		/												
		/												
		/												

COMMENTS

Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Relinquished By: (Signature)	Date / Time	Received By: (Signature)
Suzanne Chase	9/26/00 13:45	Jason McKinney	Jason McKinney	9/26/00 16:29	
Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Relinquished By: (Signature)	Date / Time	Received By: (Signature)

KATAHDIN ANALYTICAL SERVICES, INCORPORATED
New England-ME Laboratory (207) 874-2400
CONFIRMATION

ORDER NO WQ-2913

Project Manager: Andrea J. Colby
ORDER DATE: 09/26/
PHONE: 781/275-88
FAX: 781/275-7253
DUE: 17 OCT

REPORT TO: AL EASTERDAY
EA Engineering
175 Middlesex Turnpike
Bedford, MA 01730

INVOICE: AL EASTERDAY
EA Engineering
175 Middlesex Turnpike
Bedford, MA 01730

PO: 29600.35

PROJECT: NEX

SAMPLED BY: CLIENT DELIVERED BY: KATAHDIN DISPOSE: AFTER 26 OCT

ITEM	LOG NUMBER	SAMPLE DESCRIPTION	SAMPLED DATE/TIME	RECEIVED	MATRIX
1	WQ2913-2	MW-NEX-10	25 SEP 1400	26 SEP	AQ
	WQ2913-3	MW-NEX-25	25 SEP 1150		
	WQ2913-4	MW-NEX-26	25 SEP 1443		
	WQ2913-5	MW-NEX-225	26 SEP 1025		
	WQ2913-6	MW-NEX-226	26 SEP 1206		
	WQ2913-7	MW-NEX-XD1	25 SEP		
	WQ2913-8	MW-NEX-RB1	26 SEP 1530		

DETERMINATION	METHOD	QTY	PRICE	AMOUNT
Volatile Organics by EPA 8260	EPA 8260	7	90.00	630.00
Diesel Range Organics	MEDEP4.1.2	7	100.00	700.00
Gasoline Range Organics	MEDEP4.2.1	7	60.00	420.00
TOTALS		7	250.00	1750.00

	LOG NUMBER	SAMPLE DESCRIPTION	SAMPLED DATE/TIME	RECEIVED	MATRIX
2	WQ2913-9	MW-NEX-QTI	31 AUG 1411	26 SEP	AQ

DETERMINATION	METHOD	QTY	PRICE	AMOUNT
Volatile Organics by EPA 8260	EPA 8260	1	90.00	90.00

LABORATORY ORDER CONTINUED ON PAGE 2

KATAHDIN ANALYTICAL SERVICES, INCORPORATED
New England-ME Laboratory (207) 874-2400
CONFIRMATION

ORDER NO WQ-2913

Project Manager: Andrea J. Colby
ORDER DATE: 09/26/00
PHONE: 781/275-8846
FAX: 781/275-7253
DUE: 17 OCT

REPORT TO: AL EASTERDAY
EA Engineering
175 Middlesex Turnpike
Bedford, MA 01730

INVOICE: AL EASTERDAY
EA Engineering
175 Middlesex Turnpike
Bedford, MA 01730

PO: 29600.35

PROJECT: NEX

SAMPLED BY: CLIENT DELIVERED BY: KATAHDIN DISPOSE: AFTER 26 OCT

	LOG NUMBER	SAMPLE DESCRIPTION	SAMPLED DATE/TIME	RECEIVED	MATRIX
3	WQ2913-1	MW-NEX-9	25 SEP 1050	26 SEP	AQ

DETERMINATION	METHOD	QTY	PRICE	AMOUNT
Volatile Organics by EPA 8260	EPA 8260	1	90.00	90.00
Diesel Range Organics	MEDEP4.1.2	1	100.00	100.00
Gasoline Range Organics	MEDEP4.2.1	1	60.00	60.00
VOA Matrix Spike Sample		1	90.00	90.00
VOA MS Duplicate Sample		1	90.00	90.00
GC Matrix Spike Sample		1	160.00	160.00
GC MS Duplicate Sample		1	160.00	160.00
TOTALS		1	750.00	750.00

ORDER NOTE: QC-II+
DD(WEST-DB3)
NEX

INVOICE: With Report

TOTAL ORDER AMOUNT $2,590.00
This is NOT an Invoice

C/BKR
09-26Please contact KATAHDIN ANALYTICAL SERVICES promptly if you have any questi

ADDENDUM
ORIGINAL CHAIN OF CUSTODY

Katahdin ANALYTICAL SERVICES
340 County Road No. 5
P.O. Box 720
Westbrook, ME 04092
Tel: (207) 874-2400
Fax: (207) 775-4029

CHAIN of CUSTODY

PLEASE PRINT IN PEN

Page ____ of _

Client: EA

Contact: Suzanne Chase | Phone #: (207) 798-5977 | Fax #: ( )

Address: 175 Middlesex Turnpike | City: Bedford | State: MA | Zip Code: 01730

Purchase Order # | Proj. Name / No. | Katahdin Quote #

Bill (if different than above) | Address

Sampler (Print / Sign) | Copies To:

LAB USE ONLY WORK ORDER #: UG2913

KATAHDIN PROJECT MANAGER

REMARKS:

SHIPPING INFO: ☐ FED EX ☐ UPS ☐ CLIENT

AIRBILL NO:

TEMP°C ____ ☐ TEMP BLANK ☐ INTACT ☐ NOT INTACT

ANALYSIS AND CONTAINER TYPE PRESERVATIVES

*	Sample Description	Date / Time coll'd	Matrix	No. of Cntrs.	VOC 8260 (Filt. ☐Y ☐N)	DRO (Filt. ☐Y ☐N)	GRO (Filt. ☐Y ☐N)	Filt. ☐Y ☐N	Filt. ☐Y ☐N	Filt. ☐Y ☐N	Filt. ☐Y ☐N	Filt. ☐Y ☐N	Filt. ☐Y ☐N	Filt. ☐Y ☐N
	MW-NEX-09	9-25-00/1050	W	24	X	X	X	MS/MSD						
	MW-NEX-10	9-25-00/1400	W	8	X	X	X							
	MW-NEX-25	9-25-00/1150	W	8	X	X	X							
	MW-NEX-26	9-25-00/1443	W	8	X	X	X							
	MW-NEX-225	9-26-00/1025	W	8	X	X	X							
	MW-NEX-226	9-26-00/1206	W	8	X	X	X							
	MW-NEX-X01	9-25-00/—	W	8	X	X	X							
	MW-NEX-RB1	9-26-00/1530	W	8	X	X	X							
	MW-NEX-QTI	9-26-00/211	W	3	X	X	X							
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		/												
		/												
		/												
		/												
		/												

COMMENTS

Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Relinquished By: (Signature)	Date / Time	Received By: (Signature)
Suzanne Chase	9/26/00 1345	Jason McKinney	Jason McKinney	9/26/00 16:29	
Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Relinquished By: (Signature)	Date / Time	Received By: (Signature)

Katahdin
ANALYTICAL SERVICES

nelac
Cert. No. E87604

May 31, 2001

Mr. Al Easterday
EA Engineering
175 Middlesex Turnpike
Bedford, MA 01730

EA ENGINEERING
SCIENCE & TECHNOLOGY
JUN - 4 2001
RECEIVED

RE: Katahdin Lab Number: WR1615
Project ID: NEX
Project Manager: Ms. Andrea J. Colby
Sample Receipt Date(s): May 10, 2001

Dear Mr. Easterday:

Please find enclosed the following information:

* Report of Analysis
* Quality Control Data Summary
* Chain of Custody (COC)
* Confirmation

A copy of the Chain of Custody is included in the paginated report. The original COC is attached as an addendum to this report.

Should you have any questions or comments concerning this Report of Analysis, please do not hesitate to contact the project manager listed above. This cover letter is an integral part of the ROA.

We appreciate your continued use of our laboratory and look forward to working with you in the future. The following signature indicates technical review and acceptance of the data.

Sincerely,

KATAHDIN ANALYTICAL SERVICES

Kalen J. Mahoney
Authorized Signature

5·31·01
Date

340 County Road No. 5
P.O. Box 720, Westbrook, ME 04098
Tel: (207) 874-2400 Fax: (207) 775-4029

www.katahdinlab.com

210 West Road No. 5
Portsmouth, NH 03801
Tel: (603) 431-5777 Fax: (603) 436-3356

TECHNICAL NARRATIVE

GC Analysis

Samples WR1615-1 through -10 were received on May 10, 2001 and were analyzed for Diesel Range Organics (DRO) according to the ME DEP 4.1.25 method and for Gasoline Range Organics (GRO) according to the ME DEP 4.2.17 method. Sample WR1615-9 was selected for the DRO and GRO matrix spike (MS) and matrix spike duplicate (MSD), as per client request. All samples and QC were analyzed within hold time, and all QC criteria were met with the following comments:

DRO Analysis

Samples WR1615-2 and -3 were diluted in order to bring the high DRO concentration into the calibration range.

Sample WR1615-3 had a surrogate recovery that was high and outside of the laboratory established acceptance limits.

As per client request, the samples were evaluated for DRO down to the MDL of 12.7 ug/L. The samples were analyzed for DRO using the ME DEP method 4.1.25 and the Katahdin Analytical Services SOP which have a Reporting Limit of 50 ug/L. Since the method blank as well as all of the samples have a DRO concentration above the MDL, all of the samples are flagged with a "B" qualifier indicating that DRO was detected in the method blank analyzed concurrently with the samples.

There were no other protocol deviations or observations noted by the GC laboratory department.

Volatile Organic Analysis

Eleven aqueous samples were received by the Katahdin Analytical Services, Inc. GC/MS laboratory on May 10, 2001 for analysis and reporting for a client supplied list of analytes in accordance with USEPA method 8260.

Analyses for this SDG were performed on instruments 5972-F and 5972-M.

Batch QC (VBLK and LCS) was performed in each twelve-hour window. The LCS QC samples were spiked with the entire list of compounds quantitated for at 50 ppb. A matrix spike/matrix spike duplicate pair was analyzed on sample WR1615-9, with the concentration of ethylbenzene over the upper limit of the calibration curve in sample WR1615-9MS.

Initial analyses of samples WR1615—1, -3, and 4 each yielded target analyte concentrations over the upper limit of the calibration curve. Reanalyses occurred at 1:10, 1:50, and 1:50 dilutions, respectively. Both sets of data for each sample are included in this data package.

Method 8000B, section 7.5.1.2.1 (Revision 2, 12/96) states, "in those instances where the RSD for one or more analytes exceeds 20%, the initial calibration curve may still be acceptable if the mean of the RSD values for all analytes in the calibration is less than or equal to 20%." Method 8260B narrows this 20% maximum to 15%.

In the calibration curves analyzed in this SDG, several analytes had %RSD values exceeding the allowed 15%. Since the average %RSD for all analytes was less than 15%, the curves were acceptable.

Several manual integrations were performed due to split peaks; all have been flagged with a "M" (software-generated) on the pertinent quantitation reports. All "M" flags have been dated and initialed by the analyst performing the integration. In addition, all "M" flags have been reviewed and approved by the GC/MS supervisor. Copies of each manual integration are included in the data package.

The volatile organic staff noted no other protocol deviations.

KATAHDIN ANALYTICAL SERVICES

Summary of Report Notes

Report Note	Note Text
B	'B' flag denotes detection of this analyte in the laboratory method blank analyzed concurrently with the sample.
E	'E' flag indicates an estimated value. The analyte was detected in the sample at a concentration greater than the standard calibration range.
J	'J' flag denotes an estimated value less than the Laboratory's Practical Quantitation Level.
O-2	Sample dilution required for quantitation of one or more target analytes; therefore, standard laboratory Practical Quantitation Level (PQL) could not be achieved.

Katahdin Analytical Services, Inc.

REPORT OF ANALYTICAL RESULTS

Client: AL EASTERDAY
EA Engineering
175 Middlesex Turnpike
Bedford, MA 01730

Lab Sample ID: WR1615-1
SDG: WR1615
Report Date: 05/23/2001
PO No.: 05.10.01
Project: NEX
Percent Solids: N/A
Analytical Method: ME DEP 4.1.25

Sample Description	Matrix	Date Sampled	Date Received	Date Prepped	Prep Chemist	Preparative Method
NEX-MW225	Aqueous	05/09/2001	05/10/2001	05/16/2001	SEL	SW846 3510

Analyte	Qualifier	Result	Units	DF	Sample PQL	Method PQL	Date Analyzed	Analyst
Diesel Range Organics	B	1100	ug/L	1.0	50	50	05/20/2001	RRL
o-Terphenyl		90	%	1.0			05/20/2001	RRL

Report Notes:

A result reported with a 'B' qualifier indicates the analyte was detected in the laboratory method blank analyzed concurrently with the sample. The concentration of DRO in the method blank was 27 ug/L.

Katahdin Analytical Services, Inc.

REPORT OF ANALYTICAL RESULTS

Client:	AL EASTERDAY	Lab Sample ID:	WR1615-1
	EA Engineering	SDG:	WR1615
	175 Middlesex Turnpike	Report Date:	05/24/2001
	Bedford, MA 01730	PO No.:	05.10.01
		Project:	NEX
		Percent Solids:	N/A
		Analytical Method:	ME DEP 4.2.17

Sample Description	Matrix	Date Sampled	Date Received	Date Prepped	Prep Chemist	Preparative Method
NEX-MW225	Aqueous	05/09/2001	05/10/2001	05/21/2001	GDL	SW846 5030B

Analyte	Qualifier	Result	Units	DF	Sample PQL	Method PQL	Date Analyzed	Analyst
Gasoline Range Organics		3300	ug/L	10	100	10	05/21/2001	GDL
4-Bromofluorobenzene		104	%	10			05/21/2001	GDL

Report Notes:

Sample dilution required for quantitation of one or more target analytes; therefore, standard laboratory Practical Quantitation Level (PQL) could not be achieved.

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: AL EASTERDAY
EA Engineering
175 Middlesex Turnpike

Bedford, MA 01730

Proj. ID:

Lab Number: WR1615-1
SDG: WR1615
Report Date: 5/22/01
PO No. : 05.10.01
Project: NEX
% Solids: N/A
Method: EPA 8260
Date Analyzed: 5/15/01

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
NEX-MW225	AQ	5/9/01	5/10/01	5/15/01	KMC	5030	KMC

Compound	Result	Units	DF	Sample PQL	Method PQL
TOLUENE	84	ug/L	1.0	1	1
BENZENE	<1	ug/L	1.0	1	1
ETHYLBENZENE	170	ug/L	1.0	1	1
TOTAL XYLENES	E1000	ug/L	1.0	1	1
MTBE	<1	ug/L	1.0	1	1
1,2-DICHLOROETHANE-D4	73	%	1.0		
DIBROMOFLUOROMETHANE	86	%	1.0		
TOLUENE-D8	93	%	1.0		
P-BROMOFLUOROBENZENE	94	%	1.0		

Report Notes: E

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: AL EASTERDAY
EA Engineering
175 Middlesex Turnpike

Bedford, MA 01730

Proj. ID:

Lab Number: WR1615-1DL
SDG: WR1615
Report Date: 5/22/01
PO No. : 05.10.01
Project: NEX
% Solids: N/A
Method: EPA 8260
Date Analyzed: 5/16/01

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
NEX-MW225	AQ	5/9/01	5/10/01	5/16/01	KMC	5030	KMC

Compound	Result	Units	DF	Sample PQL	Method PQL
TOLUENE	110	ug/L	10	10	1
BENZENE	<10	ug/L	10	10	1
ETHYLBENZENE	220	ug/L	10	10	1
TOTAL XYLENES	1400	ug/L	10	10	1
MTBE	<10	ug/L	10	10	1
1,2-DICHLOROETHANE-D4	75	%	10		
DIBROMOFLUOROMETHANE	86	%	10		
TOLUENE-D8	92	%	10		
P-BROMOFLUOROBENZENE	94	%	10		

Report Notes: O-2

Katahdin Analytical Services, Inc.

REPORT OF ANALYTICAL RESULTS

Client: AL EASTERDAY
EA Engineering
175 Middlesex Turnpike
Bedford, MA 01730

Lab Sample ID: WR1615-2
SDG: WR1615
Report Date: 05/23/2001
PO No.: 05.10.01
Project: NEX
Percent Solids: N/A
Analytical Method: ME DEP 4.1.25

Sample Description	Matrix	Date Sampled	Date Received	Date Prepped	Prep Chemist	Preparative Method
NEX-MW26	Aqueous	05/09/2001	05/10/2001	05/16/2001	SEL	SW846 3510

Analyte	Qualifier	Result	Units	DF	Sample PQL	Method PQL	Date Analyzed	Analyst
Diesel Range Organics	B	1600	ug/L	1.0	50	50	05/20/2001	RRL
o-Terphenyl		83	%	1.0			05/20/2001	RRL

Report Notes:

A result reported with a 'B' qualifier indicates the analyte was detected in the laboratory method blank analyzed concurrently with the sample. The concentration of DRO in the method blank was 27 ug/L.

Katahdin Analytical Services, Inc.

REPORT OF ANALYTICAL RESULTS

Client: AL EASTERDAY
EA Engineering
175 Middlesex Turnpike
Bedford, MA 01730

Lab Sample ID: WR1615-2
SDG: WR1615
Report Date: 05/24/2001
PO No.: 05.10.01
Project: NEX
Percent Solids: N/A
Analytical Method: ME DEP 4.2.17

Sample Description	Matrix	Date Sampled	Date Received	Date Prepped	Prep Chemist	Preparative Method
NEX-MW26	Aqueous	05/09/2001	05/10/2001	05/21/2001	GDL	SW846 5030B

Analyte	Qualifier	Result	Units	DF	Sample PQL	Method PQL	Date Analyzed	Analyst
Gasoline Range Organics		6300	ug/L	10	100	10	05/21/2001	GDL
4-Bromofluorobenzene	MI	138	%	10			05/21/2001	GDL

Report Notes:

'MI' denotes surrogate recovery out of criteria due to matrix interference.
Sample dilution required for quantitation of one or more target analytes; therefore, standard laboratory Practical Quantitation Level (PQL) could not be achieved.

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: AL EASTERDAY
EA Engineering
175 Middlesex Turnpike

Bedford, MA 01730

Proj. ID:

Lab Number: WR1615-2
SDG: WR1615
Report Date: 5/22/01
PO No. : 05.10.01
Project: NEX
% Solids: N/A
Method: EPA 8260
Date Analyzed: 5/16/01

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
NEX-MW26	AQ	5/9/01	5/10/01	5/16/01	KMC	5030	KMC

Compound	Result	Units	DF	Sample PQL	Method PQL
TOLUENE	J0.7	ug/L	1.0	1	1
BENZENE	<1	ug/L	1.0	1	1
ETHYLBENZENE	9	ug/L	1.0	1	1
TOTAL XYLENES	82	ug/L	1.0	1	1
MTBE	<1	ug/L	1.0	1	1
1,2-DICHLOROETHANE-D4	79	%	1.0		
DIBROMOFLUOROMETHANE	86	%	1.0		
TOLUENE-D8	93	%	1.0		
P-BROMOFLUOROBENZENE	96	%	1.0		

Report Notes: J

Katahdin Analytical Services, Inc.

REPORT OF ANALYTICAL RESULTS

Client: AL EASTERDAY
EA Engineering
175 Middlesex Turnpike
Bedford, MA 01730

Lab Sample ID: WR1615-3
SDG: WR1615
Report Date: 05/23/2001
PO No.: 05.10.01
Project: NEX
Percent Solids: N/A
Analytical Method: ME DEP 4.1.25

Sample Description	Matrix	Date Sampled	Date Received	Date Prepped	Prep Chemist	Preparative Method
NEX-MW226	Aqueous	05/09/2001	05/10/2001	05/16/2001	SEL	SW846 3510

Analyte	Qualifier	Result	Units	DF	Sample PQL	Method PQL	Date Analyzed	Analyst
Diesel Range Organics	B	2400	ug/L	1.9	95	50	05/21/2001	RRL
o-Terphenyl	#	135	%	1.9			05/21/2001	RRL

Report Notes:

'#' flag denotes surrogate compound recovery is out of criteria.
A result reported with a 'B' qualifier indicates the analyte was detected in the laboratory method blank analyzed concurrently with the sample. The concentration of DRO in the method blank was 27 ug/L.
Sample dilution required for quantitation of one or more target analytes; therefore, standard laboratory Practical Quantitation Level (PQL) could not be achieved.

Katahdin Analytical Services, Inc.

REPORT OF ANALYTICAL RESULTS

Client: AL EASTERDAY
EA Engineering
175 Middlesex Turnpike
Bedford, MA 01730

Lab Sample ID: WR1615-3
SDG: WR1615
Report Date: 05/24/2001
PO No.: 05.10.01
Project: NEX
Percent Solids: N/A
Analytical Method: ME DEP 4.2.17

Sample Description	Matrix	Date Sampled	Date Received	Date Prepped	Prep Chemist	Preparative Method
NEX-MW226	Aqueous	05/09/2001	05/10/2001	05/23/2001	GDL	SW846 5030B

Analyte	Qualifier	Result	Units	DF	Sample PQL	Method PQL	Date Analyzed	Analyst
Gasoline Range Organics		22000	ug/L	100	1000	10	05/23/2001	GDL
4-Bromofluorobenzene		103	%	100			05/23/2001	GDL

Report Notes:

Sample dilution required for quantitation of one or more target analytes; therefore, standard laboratory Practical Quantitation Level (PQL) could not be achieved.

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: AL EASTERDAY
EA Engineering
175 Middlesex Turnpike

Bedford, MA 01730

Proj. ID:

Lab Number: WR1615-3
SDG: WR1615
Report Date: 5/22/01
PO No. : 05.10.01
Project: NEX
% Solids: N/A
Method: EPA 8260
Date Analyzed: 5/16/01

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
NEX-MW226	AQ	5/9/01	5/10/01	5/16/01	KMC	5030	KMC

Compound	Result	Units	DF	Sample PQL	Method PQL
TOLUENE	E610	ug/L	1.0	1	1
BENZENE	<1	ug/L	1.0	1	1
ETHYLBENZENE	E620	ug/L	1.0	1	1
TOTAL XYLENES	E3700	ug/L	1.0	1	1
MTBE	<1	ug/L	1.0	1	1
1,2-DICHLOROETHANE-D4	76	%	1.0		
DIBROMOFLUOROMETHANE	84	%	1.0		
TOLUENE-D8	91	%	1.0		
P-BROMOFLUOROBENZENE	91	%	1.0		

Report Notes: E

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: AL EASTERDAY
EA Engineering
175 Middlesex Turnpike

Bedford, MA 01730

Proj. ID:

Lab Number: WR1615-3DL
SDG: WR1615
Report Date: 5/22/01
PO No. : 05.10.01
Project: NEX
% Solids: N/A
Method: EPA 8260
Date Analyzed: 5/16/01

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
NEX-MW226	AQ	5/9/01	5/10/01	5/16/01	BEG	5030	BEG

Compound	Result	Units	DF	Sample PQL	Method PQL
TOLUENE	1200	ug/L	50	50	1
BENZENE	<50	ug/L	50	50	1
ETHYLBENZENE	3500	ug/L	50	50	1
TOTAL XYLENES	B20000	ug/L	50	50	1
MTBE	<50	ug/L	50	50	1
1,2-DICHLOROETHANE-D4	84	%	50		
DIBROMOFLUOROMETHANE	92	%	50		
TOLUENE-D8	93	%	50		
P-BROMOFLUOROBENZENE	97	%	50		

Report Notes: B, O-2

Katahdin Analytical Services, Inc.

REPORT OF ANALYTICAL RESULTS

Client: AL EASTERDAY
EA Engineering
175 Middlesex Turnpike
Bedford, MA 01730

Lab Sample ID: WR1615-4
SDG: WR1615
Report Date: 05/23/2001
PO No.: 05.10.01
Project: NEX
Percent Solids: N/A
Analytical Method: ME DEP 4.1.25

Sample Description	Matrix	Date Sampled	Date Received	Date Prepped	Prep Chemist	Preparative Method
NEX-MWDUP1	Aqueous	05/09/2001	05/10/2001	05/16/2001	SEL	SW846 3510

Analyte	Qualifier	Result	Units	DF	Sample PQL	Method PQL	Date Analyzed	Analyst
Diesel Range Organics	B	1900	ug/L	1.9	96	50	05/21/2001	RRL
o-Terphenyl		95	%	1.9			05/21/2001	RRL

Report Notes:

A result reported with a 'B' qualifier indicates the analyte was detected in the laboratory method blank analyzed concurrently with the sample. The concentration of DRO in the method blank was 27 ug/L.
Sample dilution required for quantitation of one or more target analytes; therefore, standard laboratory Practical Quantitation Level (PQL) could not be achieved.

Katahdin Analytical Services, Inc.

REPORT OF ANALYTICAL RESULTS

Client: AL EASTERDAY
EA Engineering
175 Middlesex Turnpike
Bedford, MA 01730

Lab Sample ID: WR1615-4
SDG: WR1615
Report Date: 05/24/2001
PO No.: 05.10.01
Project: NEX
Percent Solids: N/A
Analytical Method: ME DEP 4.2.17

Sample Description	Matrix	Date Sampled	Date Received	Date Prepped	Prep Chemist	Preparative Method
NEX-MWDUP1	Aqueous	05/09/2001	05/10/2001	05/23/2001	GDL	SW846 5030B

Analyte	Qualifier	Result	Units	DF	Sample PQL	Method PQL	Date Analyzed	Analyst
Gasoline Range Organics		20000	ug/L	100	1000	10	05/23/2001	GDL
4-Bromofluorobenzene		100	%	100			05/23/2001	GDL

Report Notes:

Sample dilution required for quantitation of one or more target analytes; therefore, standard laboratory Practical Quantitation Level (PQL) could not be achieved.

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: AL EASTERDAY
EA Engineering
175 Middlesex Turnpike

Bedford, MA 01730

Proj. ID:

Lab Number: WR1615-4
SDG: WR1615
Report Date: 5/22/01
PO No. : 05.10.01
Project: NEX
% Solids: N/A
Method: EPA 8260
Date Analyzed: 5/16/01

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
NEX-MWDUP1	AQ	5/9/01	5/10/01	5/16/01	KMC	5030	KMC

Compound	Result	Units	DF	Sample PQL	Method PQL
TOLUENE	E660	ug/L	1.0	1	1
BENZENE	<1	ug/L	1.0	1	1
ETHYLBENZENE	E640	ug/L	1.0	1	1
TOTAL XYLENES	E3800	ug/L	1.0	1	1
MTBE	<1	ug/L	1.0	1	1
1,2-DICHLOROETHANE-D4	73	%	1.0		
DIBROMOFLUOROMETHANE	83	%	1.0		
TOLUENE-D8	90	%	1.0		
P-BROMOFLUOROBENZENE	91	%	1.0		

Report Notes: E

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: AL EASTERDAY
EA Engineering
175 Middlesex Turnpike

Bedford, MA 01730

Proj. ID:

Lab Number: WR1615-4DL
SDG: WR1615
Report Date: 5/22/01
PO No. : 05.10.01
Project: NEX
% Solids: N/A
Method: EPA 8260
Date Analyzed: 5/16/01

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
NEX-MWDUP1	AQ	5/9/01	5/10/01	5/16/01	BEG	5030	BEG

Compound	Result	Units	DF	Sample PQL	Method PQL
TOLUENE	1200	ug/L	50	50	1
BENZENE	<50	ug/L	50	50	1
ETHYLBENZENE	3600	ug/L	50	50	1
TOTAL XYLENES	B21000	ug/L	50	50	1
MTBE	<50	ug/L	50	50	1
1,2-DICHLOROETHANE-D4	85	%	50		
DIBROMOFLUOROMETHANE	92	%	50		
TOLUENE-D8	94	%	50		
P-BROMOFLUOROBENZENE	96	%	50		

Report Notes: B, O-2

Katahdin Analytical Services, Inc.

REPORT OF ANALYTICAL RESULTS

Client: AL EASTERDAY
EA Engineering
175 Middlesex Turnpike
Bedford, MA 01730

Lab Sample ID: WR1615-5
SDG: WR1615
Report Date: 05/23/2001
PO No.: 05.10.01
Project: NEX
Percent Solids: N/A
Analytical Method: ME DEP 4.1.25

Sample Description	Matrix	Date Sampled	Date Received	Date Prepped	Prep Chemist	Preparative Method
NEX-MW23	Aqueous	05/10/2001	05/10/2001	05/16/2001	SEL	SW846 3510

Analyte	Qualifier	Result	Units	DF	Sample PQL	Method PQL	Date Analyzed	Analyst
Diesel Range Organics	B,J	22	ug/L	1.0	50	50	05/20/2001	RRL
o-Terphenyl		76	%	1.0			05/20/2001	RRL

Report Notes:

A result reported with a 'B' qualifier indicates the analyte was detected in the laboratory method blank analyzed concurrently with the sample. The concentration of DRO in the method blank was 27 ug/L.
'J' flag denotes an estimated value less than the Laboratory's Practical Quantitation Level.

Katahdin Analytical Services, Inc.

REPORT OF ANALYTICAL RESULTS

Client: AL EASTERDAY
EA Engineering
175 Middlesex Turnpike
Bedford, MA 01730

Lab Sample ID: WR1615-5
SDG: WR1615
Report Date: 05/24/2001
PO No.: 05.10.01
Project: NEX
Percent Solids: N/A
Analytical Method: ME DEP 4.2.17

Sample Description	Matrix	Date Sampled	Date Received	Date Prepped	Prep Chemist	Preparative Method
NEX-MW23	Aqueous	05/10/2001	05/10/2001	05/23/2001	GDL	SW846 5030B

Analyte	Qualifier	Result	Units	DF	Sample PQL	Method PQL	Date Analyzed	Analyst
Gasoline Range Organics		< 10	ug/L	1.0	10	10	05/23/2001	GDL
4-Bromofluorobenzene		118	%	1.0			05/23/2001	GDL

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: AL EASTERDAY
EA Engineering
175 Middlesex Turnpike

Bedford, MA 01730

Proj. ID:

Lab Number: WR1615-5
SDG: WR1615
Report Date: 5/22/01
PO No. : 05.10.01
Project: NEX
% Solids: N/A
Method: EPA 8260
Date Analyzed: 5/16/01

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
NEX-MW23	AQ	5/10/01	5/10/01	5/16/01	BEG	5030	BEG

Compound	Result	Units	DF	Sample PQL	Method PQL
TOLUENE	<1	ug/L	1.0	1	1
BENZENE	<1	ug/L	1.0	1	1
ETHYLBENZENE	<1	ug/L	1.0	1	1
TOTAL XYLENES	<1	ug/L	1.0	1	1
MTBE	<1	ug/L	1.0	1	1
1,2-DICHLOROETHANE-D4	75	%	1.0		
DIBROMOFLUOROMETHANE	88	%	1.0		
TOLUENE-D8	94	%	1.0		
P-BROMOFLUOROBENZENE	91	%	1.0		

Report Notes:

Katahdin Analytical Services, Inc.

REPORT OF ANALYTICAL RESULTS

Client: AL EASTERDAY
EA Engineering
175 Middlesex Turnpike
Bedford, MA 01730

Lab Sample ID: WR1615-6
SDG: WR1615
Report Date: 05/23/2001
PO No.: 05.10.01
Project: NEX
Percent Solids: N/A
Analytical Method: ME DEP 4.1.25

Sample Description	Matrix	Date Sampled	Date Received	Date Prepped	Prep Chemist	Preparative Method
NEX-MW24	Aqueous	05/10/2001	05/10/2001	05/16/2001	SEL	SW846 3510

Analyte	Qualifier	Result	Units	DF	Sample PQL	Method PQL	Date Analyzed	Analyst
Diesel Range Organics	B,J	22	ug/L	1.0	50	50	05/20/2001	RRL
o-Terphenyl		77	%	1.0			05/20/2001	RRL

Report Notes:

A result reported with a 'B' qualifier indicates the analyte was detected in the laboratory method blank analyzed concurrently with the sample. The concentration of DRO in the method blank was 27 ug/L.
'J' flag denotes an estimated value less than the Laboratory's Practical Quantitation Level.

Katahdin Analytical Services, Inc.

REPORT OF ANALYTICAL RESULTS

Client: AL EASTERDAY
EA Engineering
175 Middlesex Turnpike
Bedford, MA 01730

Lab Sample ID: WR1615-6
SDG: WR1615
Report Date: 05/24/2001
PO No.: 05.10.01
Project: NEX
Percent Solids: N/A
Analytical Method: ME DEP 4.2.17

Sample Description	Matrix	Date Sampled	Date Received	Date Prepped	Prep Chemist	Preparative Method
NEX-MW24	Aqueous	05/10/2001	05/10/2001	05/23/2001	GDL	SW846 5030B

Analyte	Qualifier	Result	Units	DF	Sample PQL	Method PQL	Date Analyzed	Analyst
Gasoline Range Organics		< 10	ug/L	1.0	10	10	05/23/2001	GDL
4-Bromofluorobenzene		96	%	1.0			05/23/2001	GDL

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: AL EASTERDAY
EA Engineering
175 Middlesex Turnpike

Bedford, MA 01730

Proj. ID:

Lab Number: WR1615-6
SDG: WR1615
Report Date: 5/22/01
PO No. : 05.10.01
Project: NEX
% Solids: N/A
Method: EPA 8260
Date Analyzed: 5/16/01

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
NEX-MW24	AQ	5/10/01	5/10/01	5/16/01	BEG	5030	BEG

Compound	Result	Units	DF	Sample PQL	Method PQL
TOLUENE	<1	ug/L	1.0	1	1
BENZENE	<1	ug/L	1.0	1	1
ETHYLBENZENE	<1	ug/L	1.0	1	1
TOTAL XYLENES	<1	ug/L	1.0	1	1
MTBE	<1	ug/L	1.0	1	1
1,2-DICHLOROETHANE-D4	77	%	1.0		
DIBROMOFLUOROMETHANE	87	%	1.0		
TOLUENE-D8	93	%	1.0		
P-BROMOFLUOROBENZENE	93	%	1.0		

Report Notes:

Katahdin Analytical Services, Inc.

REPORT OF ANALYTICAL RESULTS

Client: AL EASTERDAY
EA Engineering
175 Middlesex Turnpike
Bedford, MA 01730

Lab Sample ID: WR1615-7
SDG: WR1615
Report Date: 05/23/2001
PO No.: 05.10.01
Project: NEX
Percent Solids: N/A
Analytical Method: ME DEP 4.1.25

Sample Description	Matrix	Date Sampled	Date Received	Date Prepped	Prep Chemist	Preparative Method
NEX-W-N25	Aqueous	05/10/2001	05/10/2001	05/16/2001	SEL	SW846 3510

Analyte	Qualifier	Result	Units	DF	Sample PQL	Method PQL	Date Analyzed	Analyst
Diesel Range Organics	B,J	13	ug/L	1.0	50	50	05/20/2001	RRL
o-Terphenyl		64	%	1.0			05/20/2001	RRL

Report Notes:

A result reported with a 'B' qualifier indicates the analyte was detected in the laboratory method blank analyzed concurrently with the sample. The concentration of DRO in the method blank was 27 ug/L.
'J' flag denotes an estimated value less than the Laboratory's Practical Quantitation Level.

Katahdin Analytical Services, Inc.

REPORT OF ANALYTICAL RESULTS

Client: AL EASTERDAY
EA Engineering
175 Middlesex Turnpike
Bedford, MA 01730

Lab Sample ID: WR1615-7
SDG: WR1615
Report Date: 05/24/2001
PO No.: 05.10.01
Project: NEX
Percent Solids: N/A
Analytical Method: ME DEP 4.2.17

Sample Description	Matrix	Date Sampled	Date Received	Date Prepped	Prep Chemist	Preparative Method
NEX-MW25	Aqueous	05/10/2001	05/10/2001	05/21/2001	GDL	SW846 5030B

Analyte	Qualifier	Result	Units	DF	Sample PQL	Method PQL	Date Analyzed	Analyst
Gasoline Range Organics		< 10	ug/L	1.0	10	10	05/21/2001	GDL
4-Bromofluorobenzene		100	%	1.0			05/21/2001	GDL

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: AL EASTERDAY
EA Engineering
175 Middlesex Turnpike

Bedford, MA 01730

Proj. ID:

Lab Number: WR1615-7
SDG: WR1615
Report Date: 5/22/01
PO No. : 05.10.01
Project: NEX
% Solids: N/A
Method: EPA 8260
Date Analyzed: 5/17/01

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
NEX-MW25	AQ	5/10/01	5/10/01	5/17/01	KMC	5030	KMC

Compound	Result	Units	DF	Sample PQL	Method PQL
TOLUENE	<1	ug/L	1.0	1	1
BENZENE	<1	ug/L	1.0	1	1
ETHYLBENZENE	<1	ug/L	1.0	1	1
TOTAL XYLENES	<1	ug/L	1.0	1	1
MTBE	<1	ug/L	1.0	1	1
1,2-DICHLOROETHANE-D4	109	%	1.0		
DIBROMOFLUOROMETHANE	110	%	1.0		
TOLUENE-D8	108	%	1.0		
P-BROMOFLUOROBENZENE	100	%	1.0		

Report Notes:

Katahdin Analytical Services, Inc.

REPORT OF ANALYTICAL RESULTS

Client: AL EASTERDAY
EA Engineering
175 Middlesex Turnpike
Bedford, MA 01730

Lab Sample ID: WR1615-8
SDG: WR1615
Report Date: 05/23/2001
PO No.: 05.10.01
Project: NEX
Percent Solids: N/A
Analytical Method: ME DEP 4.1.25

Sample Description	Matrix	Date Sampled	Date Received	Date Prepped	Prep Chemist	Preparative Method
NEX-MW8	Aqueous	05/10/2001	05/10/2001	05/16/2001	SEL	SW846 3510

Analyte	Qualifier	Result	Units	DF	Sample PQL	Method PQL	Date Analyzed	Analyst
Diesel Range Organics	B,J	28	ug/L	1.0	50	50	05/20/2001	RRL
o-Terphenyl		78	%	1.0			05/20/2001	RRL

Report Notes:

A result reported with a 'B' qualifier indicates the analyte was detected in the laboratory method blank analyzed concurrently with the sample. The concentration of DRO in the method blank was 27 ug/L.
'J' flag denotes an estimated value less than the Laboratory's Practical Quantitation Level.

Katahdin Analytical Services, Inc.

REPORT OF ANALYTICAL RESULTS

Client: AL EASTERDAY
EA Engineering
175 Middlesex Turnpike
Bedford, MA 01730

Lab Sample ID: WR1615-8
SDG: WR1615
Report Date: 05/24/2001
PO No.: 05.10.01
Project: NEX
Percent Solids: N/A
Analytical Method: ME DEP 4.2.17

Sample Description	Matrix	Date Sampled	Date Received	Date Prepped	Prep Chemist	Preparative Method
NEX-MW8	Aqueous	05/10/2001	05/10/2001	05/21/2001	GDL	SW846 5030B

Analyte	Qualifier	Result	Units	DF	Sample PQL	Method PQL	Date Analyzed	Analyst
Gasoline Range Organics		< 10	ug/L	1.0	10	10	05/21/2001	GDL
4-Bromofluorobenzene		95	%	1.0			05/21/2001	GDL

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: AL EASTERDAY
EA Engineering
175 Middlesex Turnpike

Bedford, MA 01730

Proj. ID:

Lab Number: WR1615-8
SDG: WR1615
Report Date: 5/22/01
PO No. : 05.10.01
Project: NEX
% Solids: N/A
Method: EPA 8260
Date Analyzed: 5/16/01

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
NEX-MW8	AQ	5/10/01	5/10/01	5/16/01	BEG	5030	BEG

Compound	Result	Units	DF	Sample PQL	Method PQL
TOLUENE	<1	ug/L	1.0	1	1
BENZENE	<1	ug/L	1.0	1	1
ETHYLBENZENE	<1	ug/L	1.0	1	1
TOTAL XYLENES	B1	ug/L	1.0	1	1
MTBE	2	ug/L	1.0	1	1
1,2-DICHLOROETHANE-D4	82	%	1.0		
DIBROMOFLUOROMETHANE	92	%	1.0		
TOLUENE-D8	94	%	1.0		
P-BROMOFLUOROBENZENE	95	%	1.0		

Report Notes: B

Katahdin Analytical Services, Inc.

REPORT OF ANALYTICAL RESULTS

Client: AL EASTERDAY
EA Engineering
175 Middlesex Turnpike
Bedford, MA 01730

Lab Sample ID: WR1615-9
SDG: WR1615
Report Date: 05/23/2001
PO No.: 05.10.01
Project: NEX
Percent Solids: N/A
Analytical Method: ME DEP 4.1.25

Sample Description	Matrix	Date Sampled	Date Received	Date Prepped	Prep Chemist	Preparative Method
NEX-MW9	Aqueous	05/10/2001	05/10/2001	05/16/2001	SEL	SW846 3510

Analyte	Qualifier	Result	Units	DF	Sample PQL	Method PQL	Date Analyzed	Analyst
Diesel Range Organics	B	360	ug/L	1.0	50	50	05/20/2001	RRL
o-Terphenyl		82	%	1.0			05/20/2001	RRL

Report Notes:

A result reported with a 'B' qualifier indicates the analyte was detected in the laboratory method blank analyzed concurrently with the sample. The concentration of DRO in the method blank was 27 ug/L.

Katahdin Analytical Services, Inc.

REPORT OF ANALYTICAL RESULTS

Client: AL EASTERDAY
EA Engineering
175 Middlesex Turnpike
Bedford, MA 01730

Lab Sample ID: WR1615-9
SDG: WR1615
Report Date: 05/24/2001
PO No.: 05.10.01
Project: NEX
Percent Solids: N/A
Analytical Method: ME DEP 4.2.17

Sample Description	Matrix	Date Sampled	Date Received	Date Prepped	Prep Chemist	Preparative Method
NEX-MW9	Aqueous	05/10/2001	05/10/2001	05/22/2001	GDL	SW846 5030B

Analyte	Qualifier	Result	Units	DF	Sample PQL	Method PQL	Date Analyzed	Analyst
Gasoline Range Organics		1000	ug/L	1.0	10	10	05/22/2001	GDL
4-Bromofluorobenzene	MI	292	%	1.0			05/22/2001	GDL

Report Notes:

'MI' denotes surrogate recovery out of criteria due to matrix interference.

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: AL EASTERDAY
EA Engineering
175 Middlesex Turnpike

Bedford, MA 01730

Proj. ID:

Lab Number: WR1615-9
SDG: WR1615
Report Date: 5/22/01
PO No. : 05.10.01
Project: NEX
% Solids: N/A
Method: EPA 8260
Date Analyzed: 5/16/01

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
NEX-MW9	AQ	5/10/01	5/10/01	5/16/01	BEG	5030	BEG

Compound	Result	Units	DF	Sample PQL	Method PQL
TOLUENE	9	ug/L	1.0	1	1
BENZENE	<1	ug/L	1.0	1	1
ETHYLBENZENE	180	ug/L	1.0	1	1
TOTAL XYLENES	B250	ug/L	1.0	1	1
MTBE	<1	ug/L	1.0	1	1
1,2-DICHLOROETHANE-D4	85	%	1.0		
DIBROMOFLUOROMETHANE	93	%	1.0		
TOLUENE-D8	93	%	1.0		
P-BROMOFLUOROBENZENE	97	%	1.0		

Report Notes: B

Katahdin Analytical Services, Inc.

REPORT OF ANALYTICAL RESULTS

Client: AL EASTERDAY
EA Engineering
175 Middlesex Turnpike
Bedford, MA 01730

Lab Sample ID: WR1615-10
SDG: WR1615
Report Date: 05/23/2001
PO No.: 05.10.01
Project: NEX
Percent Solids: N/A
Analytical Method: ME DEP 4.1.25

Sample Description	Matrix	Date Sampled	Date Received	Date Prepped	Prep Chemist	Preparative Method
NEX-MW10	Aqueous	05/10/2001	05/10/2001	05/16/2001	SEL	SW846 3510

Analyte	Qualifier	Result	Units	DF	Sample PQL	Method PQL	Date Analyzed	Analyst
Diesel Range Organics	B	57	ug/L	1.0	50	50	05/20/2001	RRL
o-Terphenyl		82	%	1.0			05/20/2001	RRL

Report Notes:

A result reported with a 'B' qualifier indicates the analyte was detected in the laboratory method blank analyzed concurrently with the sample. The concentration of DRO in the method blank was 27 ug/L.

Katahdin Analytical Services, Inc.

REPORT OF ANALYTICAL RESULTS

Client: AL EASTERDAY
EA Engineering
175 Middlesex Turnpike
Bedford, MA 01730

Lab Sample ID: WR1615-10
SDG: WR1615
Report Date: 05/24/2001
PO No.: 05.10.01
Project: NEX
Percent Solids: N/A
Analytical Method: ME DEP 4.2.17

Sample Description	Matrix	Date Sampled	Date Received	Date Prepped	Prep Chemist	Preparative Method
NEX-MW10	Aqueous	05/10/2001	05/10/2001	05/23/2001	GDL	SW846 5030B

Analyte	Qualifier	Result	Units	DF	Sample PQL	Method PQL	Date Analyzed	Analyst
Gasoline Range Organics		< 10	ug/L	1.0	10	10	05/23/2001	GDL
4-Bromofluorobenzene		99	%	1.0			05/23/2001	GDL

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: AL EASTERDAY
EA Engineering
175 Middlesex Turnpike

Bedford, MA 01730

Proj. ID:

Lab Number: WR1615-10
SDG: WR1615
Report Date: 5/22/01
PO No. : 05.10.01
Project: NEX
% Solids: N/A
Method: EPA 8260
Date Analyzed: 5/17/01

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
NEX-MW10	AQ	5/10/01	5/10/01	5/17/01	BEG	5030	BEG

Compound	Result	Units	DF	Sample PQL	Method PQL
TOLUENE	<1	ug/L	1.0	1	1
BENZENE	<1	ug/L	1.0	1	1
ETHYLBENZENE	<1	ug/L	1.0	1	1
TOTAL XYLENES	JB0.6	ug/L	1.0	1	1
MTBE	<1	ug/L	1.0	1	1
1,2-DICHLOROETHANE-D4	85	%	1.0		
DIBROMOFLUOROMETHANE	90	%	1.0		
TOLUENE-D8	95	%	1.0		
P-BROMOFLUOROBENZENE	94	%	1.0		

Report Notes: B, J

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: AL EASTERDAY
EA Engineering
175 Middlesex Turnpike

Bedford, MA 01730

Proj. ID:

Lab Number: WR1615-11
SDG: WR1615
Report Date: 5/22/01
PO No. : 05.10.01
Project: NEX
% Solids: N/A
Method: EPA 8260
Date Analyzed: 5/17/01

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
NEX-TRIP1	AQ	5/9/01	5/10/01	5/17/01	BEG	5030	BEG

Compound	Result	Units	DF	Sample PQL	Method PQL
TOLUENE	<1	ug/L	1.0	1	1
BENZENE	<1	ug/L	1.0	1	1
ETHYLBENZENE	<1	ug/L	1.0	1	1
TOTAL XYLENES	<1	ug/L	1.0	1	1
MTBE	<1	ug/L	1.0	1	1
1,2-DICHLOROETHANE-D4	87	%	1.0		
DIBROMOFLUOROMETHANE	94	%	1.0		
TOLUENE-D8	95	%	1.0		
P-BROMOFLUOROBENZENE	96	%	1.0		

Report Notes:

Katahdin Analytical Services, Inc.

Quality Control Report

Method Blank Summary

Work Order/SDG: WR1615

Method Blank ID: BF1081
Analytical Method: ME DEP 4.1.25
Date(s) Analyzed: 05/18/2001
Lab Data File(s): are4009

Matrix: AQ
Preparative Method: SW846 3510
Date Prepared: 05/16/2001
QC Batch ID: RE16FOW1

	Client Sample ID	Lab Sample ID	Lab Data File(s)	Date(s) Analyzed	DF
01	LABQC	LCF1081	are4013	05/18/2001	1.0
02	NEX-MW10	WR1615-10	are4049	05/20/2001	1.0
03	NEX-MW25	WR1615-7	are4050	05/20/2001	1.0
04	NEX-MW8	WR1615-8	are4051	05/20/2001	1.0
05	NEX-MW225	WR1615-1	are4052	05/20/2001	1.0
06	NEX-MW26	WR1615-2	are4053	05/20/2001	1.0
07	NEX-MW23	WR1615-5	are4056	05/20/2001	1.0
08	NEX-MW24	WR1615-6	are4057	05/20/2001	1.0
09	NEX-MW9	WR1615-9	are4058	05/20/2001	1.0
10	NEX-MW9	WR1615-9 MS	are4059	05/20/2001	1.0
11	NEX-MW9	WR1615-9 MSD	are4067	05/21/2001	1.0
12	NEX-MW226	WR1615-3	are4068	05/21/2001	1.9
13	NEX-MWDUP1	WR1615-4	are4069	05/21/2001	1.9
14					
15					
16					
17					
18					
19					
20					

Notes:

Katahdin Analytical Services, Inc.

REPORT OF ANALYTICAL RESULTS

Client:	AL EASTERDAY	**Lab Sample ID:**	BF1081
	EA Engineering	**SDG:**	WR1615
	175 Middlesex Turnpike	**Report Date:**	05/23/2001
	Bedford, MA 01730	**PO No.:**	05.10.01
		Project:	NEX
		Percent Solids:	N/A
		Analytical Method:	ME DEP 4.1.25

Sample Description	Matrix	Date Sampled	Date Received	Date Prepped	Prep Chemist	Preparative Method
LABQC	Aqueous	N/A	N/A	05/16/2001	SEL	SW846 3510

Analyte	Qualifier	Result	Units	DF	Sample PQL	Method PQL	Date Analyzed	Analyst
Diesel Range Organics	J	27	ug/L	1.0	50	50	05/18/2001	RRL
o-Terphenyl		82	%	1.0			05/18/2001	RRL

Report Notes:

'J' flag denotes an estimated value less than the Laboratory's Practical Quantitation Level.

Katahdin Analytical Services, Inc.

Quality Control Report

Laboratory Control Spike/ Laboratory Control Spike Duplicate Results

LCS ID: LCF1081
Preparation Method: SW846 3510
Analytical Method: ME DEP 4.1.25
File(s): are4013

Matrix: Aqueous
Preparation Date: 05/16/2001
Analysis Date(s): 05/18/2001
QC Batch ID: RE16FOW1

Compound Name	Units	Spike Amount	LCS Results	LCSD Results	LCS % Recovery	LCSD % Recovery	Acceptance Limits (%)	RPD (%)	RPD Limit (%)
Diesel Range Organics	ug/L	500	380	N/A	77	N/A	60 - 140	N/A	N/A

Notes:

'N/A' = Not Applicable.

Katahdin Analytical Services, Inc.

Quality Control Report

Matrix Spike/ Matrix Spike Duplicate Results

Analytical Method: ME DEP 4.1.25

Preparation Method: SW846 3510

Matrix: Aqueous

Sample ID	Prep. Date	QC Batch ID	Analyst(s)	Analysis Date(s)	File(s)
WR1615-9	05/16/2001	RE16FOW1	RRL	05/20/2001	are4058
WR1615-9 MS	05/16/2001	RE16FOW1	RRL	05/20/2001	are4059
WR1615-9 MSD	05/16/2001	RE16FOW1	RRL	05/21/2001	are4067

Compound Name	Units	Spiked Amount		Results			Recovery (%)		Acceptance Limits (%)	RPD (%)	RPD Limit (%)
		MS	MSD	Sample	MS	MSD	MS	MSD			
Diesel Range Organics	ug/L	476	476	360	780	780	88	89	60 - 140	1	20

Katahdin Analytical Services, Inc.

Quality Control Report

Method Blank Summary

Work Order/SDG: WR1615

Method Blank ID: 4BGRORE21
Analytical Method: ME DEP 4.2.17
Date(s) Analyzed: 05/21/2001
Lab Data File(s): 4re2246

Matrix: AQ
Preparative Method: SW846 5030B
Date Prepared: 05/21/2001
QC Batch ID: RE21GRW1

	Client Sample ID	Lab Sample ID	Lab Data File(s)	Date(s) Analyzed	DF
01	LABQC	4LGRORE21	4re2244	05/21/2001	1.0
02	LABQC	4LDGRORE21	4re2245	05/21/2001	1.0
03	NEX-MW225	WR1615-1	4re2247	05/21/2001	10
04	NEX-MW26	WR1615-2	4re2248	05/21/2001	10
05	NEX-MW25	WR1615-7	4re2253	05/21/2001	1.0
06	NEX-MW8	WR1615-8	4re2254	05/21/2001	1.0
07	NEX-MW9	WR1615-9	4re2256, 4re2256a	05/22/2001	1.0
08	NEX-MW9	WR1615-9 MS	4re2257, 4re2257a	05/22/2001	1.0
09	NEX-MW9	WR1615-9 MSD	4re2258, 4re2258a	05/22/2001	1.0
10					
11					
12					
13					
14					
15					
16					
17					
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19					
20					

Notes:

Katahdin Analytical Services, Inc.

REPORT OF ANALYTICAL RESULTS

Client: AL EASTERDAY
EA Engineering
175 Middlesex Turnpike
Bedford, MA 01730

Lab Sample ID: 4BGRORE21
SDG: WR1615
Report Date: 05/24/2001
PO No.: 05.10.01
Project: NEX
Percent Solids: N/A
Analytical Method: ME DEP 4.2.17

Sample Description	Matrix	Date Sampled	Date Received	Date Prepped	Prep Chemist	Preparative Method
LABQC	Aqueous	N/A	N/A	05/21/2001	GDL	SW846 5030B

Analyte	Qualifier	Result	Units	DF	Sample PQL	Method PQL	Date Analyzed	Analyst
Gasoline Range Organics		< 10	ug/L	1.0	10	10	05/21/2001	GDL
4-Bromofluorobenzene		97	%	1.0			05/21/2001	GDL

Katahdin Analytical Services, Inc.

Quality Control Report

Laboratory Control Spike/ Laboratory Control Spike Duplicate Results

LCS ID: 4LGRORE21
Preparation Method: SW846 5030B
Analytical Method: ME DEP 4.2.17
File(s): 4re2244, 4re2245

Matrix: Aqueous
Preparation Date: 05/21/2001
Analysis Date(s): 05/21/2001
QC Batch ID: RE21GRW1

Compound Name	Units	Spike Amount	LCS Results	LCSD Results	LCS % Recovery	LCSD % Recovery	Acceptance Limits (%)	RPD (%)	RPD Limit (%)
Gasoline Range Organics	ug/L	100	100	110	101	112	60 - 140	10	20

Notes:

'N/A' = Not Applicable.

Katahdin Analytical Services, Inc.

Quality Control Report

Matrix Spike/ Matrix Spike Duplicate Results

Analytical Method: ME DEP 4.2.17

Preparation Method: SW846 5030B

Matrix: Aqueous

Sample ID	Prep. Date	QC Batch ID	Analyst(s)	Analysis Date(s)	File(s)
WR1615-9	05/22/2001	RE21GRW1	GDL	05/22/2001	4re2256a
WR1615-9 MS	05/22/2001	RE21GRW1	GDL	05/22/2001	4re2257a
WR1615-9 MSD	05/22/2001	RE21GRW1	GDL	05/22/2001	4re2258a

		Spiked Amount		Results			Recovery (%)		Acceptance	RPD	RPD
Compound Name	Units	MS	MSD	Sample	MS	MSD	MS	MSD	Limits (%)	(%)	Limit (%)
Gasoline Range Organics	ug/L	100	100	1000	1100	1100	101	100	60 - 140	0	20

Katahdin Analytical Services, Inc.

Quality Control Report

Method Blank Summary

Work Order/SDG: WR1615

Method Blank ID: 4BGRORE22
Analytical Method: ME DEP 4.2.17
Date(s) Analyzed: 05/22/2001
Lab Data File(s): 4re2264

Matrix: AQ
Preparative Method: SW846 5030B
Date Prepared: 05/22/2001
QC Batch ID: RE22GRW1

	Client Sample ID	Lab Sample ID	Lab Data File(s)	Date(s) Analyzed	DF
01	LABQC	4LGRORE22	4re2262	05/22/2001	1.0
02	LABQC	4LDGRORE22	4re2263	05/22/2001	1.0
03	NEX-MW226	WR1615-3	4re2279, 4re2279a	05/23/2001	100
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					

Notes:

Katahdin Analytical Services, Inc.

REPORT OF ANALYTICAL RESULTS

Client: AL EASTERDAY
EA Engineering
175 Middlesex Turnpike
Bedford, MA 01730

Lab Sample ID: 4BGRORE22
SDG: WR1615
Report Date: 05/24/2001
PO No.: 05.10.01
Project: NEX
Percent Solids: N/A
Analytical Method: ME DEP 4.2.17

Sample Description	Matrix	Date Sampled	Date Received	Date Prepped	Prep Chemist	Preparative Method
LABQC	Aqueous	N/A	N/A	05/22/2001	GDL	SW846 5030B

Analyte	Qualifier	Result	Units	DF	Sample PQL	Method PQL	Date Analyzed	Analyst
Gasoline Range Organics		< 10	ug/L	1.0	10	10	05/22/2001	GDL
4-Bromofluorobenzene		102	%	1.0			05/22/2001	GDL

Katahdin Analytical Services, Inc.

Quality Control Report

Laboratory Control Spike/ Laboratory Control Spike Duplicate Results

LCS ID: 4LGRORE22
Preparation Method: SW846 5030B
Analytical Method: ME DEP 4.2.17
File(s): 4re2262, 4re2263

Matrix: Aqueous
Preparation Date: 05/22/2001
Analysis Date(s): 05/22/2001
QC Batch ID: RE22GRW1

Compound Name	Units	Spike Amount	LCS Results	LCSD Results	LCS % Recovery	LCSD % Recovery	Acceptance Limits (%)	RPD (%)	RPD Limit (%)
Gasoline Range Organics	ug/L	100	100	110	102	114	60 - 140	11	20

Notes:

'N/A' = Not Applicable.

Katahdin Analytical Services, Inc.

Quality Control Report

Method Blank Summary

Work Order/SDG: WR1615

Method Blank ID: 4BGRORE23
Analytical Method: ME DEP 4.2.17
Date(s) Analyzed: 05/23/2001
Lab Data File(s): 4re2284

Matrix: AQ
Preparative Method: SW846 5030B
Date Prepared: 05/23/2001
QC Batch ID: RE23GRW1

	Client Sample ID	Lab Sample ID	Lab Data File(s)	Date(s) Analyzed	DF
01	LABQC	4LGRORE23	4re2282	05/23/2001	1.0
02	LABQC	4LDGRORE23	4re2283	05/23/2001	1.0
03	NEX-MWDUP1	WR1615-4	4re2286	05/23/2001	100
04	NEX-MW23	WR1615-5	4re2287	05/23/2001	1.0
05	NEX-MW24	WR1615-6	4re2288	05/23/2001	1.0
06	NEX-MW10	WR1615-10	4re2289	05/23/2001	1.0
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					

Notes:

Katahdin Analytical Services, Inc.

REPORT OF ANALYTICAL RESULTS

Client: AL EASTERDAY
EA Engineering
175 Middlesex Turnpike
Bedford, MA 01730

Lab Sample ID: 4BGRORE23
SDG: WR1615
Report Date: 05/24/2001
PO No.: 05.10.01
Project: NEX
Percent Solids: N/A
Analytical Method: ME DEP 4.2.17

Sample Description	Matrix	Date Sampled	Date Received	Date Prepped	Prep Chemist	Preparative Method
LABQC	Aqueous	N/A	N/A	05/23/2001	GDL	SW846 5030B

Analyte	Qualifier	Result	Units	DF	Sample PQL	Method PQL	Date Analyzed	Analyst
Gasoline Range Organics		< 10	ug/L	1.0	10	10	05/23/2001	GDL
4-Bromofluorobenzene		93	%	1.0			05/23/2001	GDL

Katahdin Analytical Services, Inc.

Quality Control Report

Laboratory Control Spike/ Laboratory Control Spike Duplicate Results

LCS ID: 4LGRORE23
Preparation Method: SW846 5030B
Analytical Method: ME DEP 4.2.17
File(s): 4re2282, 4re2283

Matrix: Aqueous
Preparation Date: 05/23/2001
Analysis Date(s): 05/23/2001
QC Batch ID: RE23GRW1

Compound Name	Units	Spike Amount	LCS Results	LCSD Results	LCS % Recovery	LCSD % Recovery	Acceptance Limits (%)	RPD (%)	RPD Limit (%)
Gasoline Range Organics	ug/L	100	100	110	105	111	60 - 140	6	20

Notes:

'N/A' = Not Applicable.

4A
VOLATILE ORGANICS METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBLKF15A

Lab Name: Katahdin Analytical Services SDG No.: WR1615

Lab File ID: F0648 Lab Sample ID: VBLKF15A

Date Analyzed: 05/15/01 Time Analyzed: 14:06

GC Column: RTX-624 ID: 0.18 (mm) Heated Purge: (Y/N) N

Instrument ID: 5972-F

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, LCS'S, MS AND MSD'S :

Client Sample ID	Lab Sample ID	Lab Data File	Date Injected	Time Injected
LCSF15A	LCSF15A	F0647	5/15/01	12:53:00 PM
NEX-MW225	WR1615-1	F0660	5/15/01	8:49:00 PM

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: AL EASTERDAY
EA Engineering
175 Middlesex Turnpike

Bedford, MA 01730

Proj. ID:

Lab Number: VBLKF15A
SDG: WR1615
Report Date: 5/22/01
PO No. : 05.10.01
Project: NEX
% Solids: N/A
Method: EPA 8260
Date Analyzed: 5/15/01

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
VBLKF15A	AQ	-	-	5/15/01	KMC	5030	KMC

Compound	Result	Units	DF	Sample PQL	Method PQL
TOLUENE	<1	ug/L	1.0	1	1
BENZENE	<1	ug/L	1.0	1	1
ETHYLBENZENE	<1	ug/L	1.0	1	1
TOTAL XYLENES	<1	ug/L	1.0	1	1
MTBE	<1	ug/L	1.0	1	1
1,2-DICHLOROETHANE-D4	91	%	1.0		
DIBROMOFLUOROMETHANE	98	%	1.0		
TOLUENE-D8	96	%	1.0		
P-BROMOFLUOROBENZENE	96	%	1.0		

Report Notes:

Katahdin Analytical Services
8260 LCS Recovery Sheet

Lab File: F0647 Sample ID: LCSF15A Date Run: 5/15/01

Analyst: KMC Time Injected: 12:53:00 PM Matrix: AQ

Compound Name	Spike Amt (ug/L)	Result (ug/L)	Rec (%)	Limits (%)
BENZENE	50	48.1	96	60-140
ETHYLBENZENE	50	50.2	100	60-140
MTBE	50	50.5	101	60-140
TOLUENE	50	50.5	101	60-140
TOTAL XYLENES	150	156	104	60-140

* Out of Limits

1

4A
VOLATILE ORGANICS METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBLKF16A

Lab Name: Katahdin Analytical Services SDG No.: WR1615

Lab File ID: F0668 Lab Sample ID: VBLKF16A

Date Analyzed: 05/16/01 Time Analyzed: 9:02

GC Column: RTX-624 ID: 0.18 (mm) Heated Purge: (Y/N) N

Instrument ID: 5972-F

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, LCS'S, MS AND MSD'S :

Client Sample ID	Lab Sample ID	Lab Data File	Date Injected	Time Injected
LCSF16A	LCSF16A	F0667	5/16/01	7:56:00 AM
NEX-MW225	WR1615-1DL	F0671	5/16/01	10:54:00 AM
NEX-MW26	WR1615-2	F0672	5/16/01	11:27:00 AM
NEX-MW226	WR1615-3	F0673	5/16/01	12:00:00 PM
NEX-MWDUP1	WR1615-4	F0674	5/16/01	12:33:00 PM

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: AL EASTERDAY
EA Engineering
175 Middlesex Turnpike

Bedford, MA 01730

Proj. ID:

Lab Number: VBLKF16A
SDG: WR1615
Report Date: 5/22/01
PO No. : 05.10.01
Project: NEX
% Solids: N/A
Method: EPA 8260
Date Analyzed: 5/16/01

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
VBLKF16A	AQ	-	-	5/16/01	KMC	5030	KMC

Compound	Result	Units	DF	Sample PQL	Method PQL
TOLUENE	<1	ug/L	1.0	1	1
BENZENE	<1	ug/L	1.0	1	1
ETHYLBENZENE	<1	ug/L	1.0	1	1
TOTAL XYLENES	<1	ug/L	1.0	1	1
MTBE	<1	ug/L	1.0	1	1
1,2-DICHLOROETHANE-D4	75	%	1.0		
DIBROMOFLUOROMETHANE	88	%	1.0		
TOLUENE-D8	92	%	1.0		
P-BROMOFLUOROBENZENE	90	%	1.0		

Report Notes:

Katahdin Analytical Services
8260 LCS Recovery Sheet

Lab File: F0667 **Sample ID:** LCSF16A **Date Run:** 5/16/01

Analyst: KMC **Time Injected:** 7:56:00 AM **Matrix:** AQ

Compound Name	Spike Amt (ug/L)	Result (ug/L)	Rec (%)	Limits (%)
BENZENE	50	46.9	94	60-140
ETHYLBENZENE	50	48.9	98	60-140
MTBE	50	48.8	98	60-140
TOLUENE	50	49.8	100	60-140
TOTAL XYLENES	150	160	107	60-140

*** Out of Limits** *1*

4A
VOLATILE ORGANICS METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBLKF16C

Lab Name: Katahdin Analytical Services SDG No.: WR1615

Lab File ID: F0683 Lab Sample ID: VBLKF16C

Date Analyzed: 05/16/01 Time Analyzed: 17:43

GC Column: RTX-624 ID: 0.18 (mm) Heated Purge: (Y/N) N

Instrument ID: 5972-F

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, LCS'S, MS AND MSD'S :

Client Sample ID	Lab Sample ID	Lab Data File	Date Injected	Time Injected
LCSF16B	LCSF16B	F0681	5/16/01	4:09:00 PM
NEX-MW23	WR1615-5	F0684	5/16/01	6:16:00 PM
NEX-MW24	WR1615-6	F0685	5/16/01	6:49:00 PM
NEX-MW226	WR1615-3DL	F0691	5/16/01	10:09:00 PM
NEX-MWDUP1	WR1615-4DL	F0692	5/16/01	10:44:00 PM
NEX-MW8	WR1615-8	F0693	5/16/01	11:17:00 PM
NEX-MW9	WR1615-9	F0694	5/16/01	11:50:00 PM
NEX-MW10	WR1615-10	F0695	5/17/01	12:23:00 AM
NEX-TRIP1	WR1615-11	F0696	5/17/01	12:55:00 AM

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: AL EASTERDAY
EA Engineering
175 Middlesex Turnpike

Bedford, MA 01730

Proj. ID:

Lab Number: VBLKF16C
SDG: WR1615
Report Date: 5/22/01
PO No. : 05.10.01
Project: NEX
% Solids: N/A
Method: EPA 8260
Date Analyzed: 5/16/01

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
VBLKF16C	AQ	-	-	5/16/01	BEG	5030	BEG

Compound	Result	Units	DF	Sample PQL	Method PQL
TOLUENE	<1	ug/L	1.0	1	1
BENZENE	<1	ug/L	1.0	1	1
ETHYLBENZENE	<1	ug/L	1.0	1	1
TOTAL XYLENES	J0.7	ug/L	1.0	1	1
MTBE	<1	ug/L	1.0	1	1
1,2-DICHLOROETHANE-D4	75	%	1.0		
DIBROMOFLUOROMETHANE	87	%	1.0		
TOLUENE-D8	93	%	1.0		
P-BROMOFLUOROBENZENE	92	%	1.0		

Report Notes: J

Katahdin Analytical Services
8260 LCS Recovery Sheet

Lab File: F0681 **Sample ID:** LCSF16B **Date Run:** 5/16/01

Analyst: BEG **Time Injected:** 4:09:00 PM **Matrix:** AQ

Compound Name	Spike Amt (ug/L)	Result (ug/L)	Rec (%)	Limits (%)
BENZENE	50	49.2	98	60-140
ETHYLBENZENE	50	54.7	109	60-140
MTBE	50	48.7	97	60-140
TOLUENE	50	53.0	106	60-140
TOTAL XYLENES	150	176	118	60-140

*** Out of Limits** *1*

4A

VOLATILE ORGANICS METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBLKF17A

Lab Name: Katahdin Analytical Services SDG No.: WR1615

Lab File ID: F0704 Lab Sample ID: VBLKF17A

Date Analyzed: 05/17/01 Time Analyzed: 7:54

GC Column: RTX-624 ID: 0.18 (mm) Heated Purge: (Y/N) N

Instrument ID: 5972-F

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, LCS'S, MS AND MSD'S :

Client Sample ID	Lab Sample ID	Lab Data File	Date Injected	Time Injected
LCSF17A	LCSF17A	F0703	5/17/01	6:42:00 AM
NEX-MW9MS	WR1615-9MS	F0705	5/17/01	8:35:00 AM
NEX-MW9MSD	WR1615-9MSD	F0706	5/17/01	9:08:00 AM

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: AL EASTERDAY
EA Engineering
175 Middlesex Turnpike

Bedford, MA 01730

Proj. ID:

Lab Number: VBLKF17A
SDG: WR1615
Report Date: 5/22/01
PO No. : 05.10.01
Project: NEX
% Solids: N/A
Method: EPA 8260
Date Analyzed: 5/17/01

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
VBLKF17A	AQ	-	-	5/17/01	KMC	5030	KMC

Compound	Result	Units	DF	Sample PQL	Method PQL
TOLUENE	<1	ug/L	1.0	1	1
BENZENE	<1	ug/L	1.0	1	1
ETHYLBENZENE	<1	ug/L	1.0	1	1
TOTAL XYLENES	<1	ug/L	1.0	1	1
MTBE	<1	ug/L	1.0	1	1
1,2-DICHLOROETHANE-D4	86	%	1.0		
DIBROMOFLUOROMETHANE	93	%	1.0		
TOLUENE-D8	93	%	1.0		
P-BROMOFLUOROBENZENE	93	%	1.0		

Report Notes:

Katahdin Analytical Services
8260 LCS Recovery Sheet

Lab File: F0703 **Sample ID:** LCSF17A **Date Run:** 5/17/01

Analyst: JEY **Time Injected:** 6:42:00 AM **Matrix:** AQ

Compound Name	Spike Amt (ug/L)	Result (ug/L)	Rec (%)	Limits (%)
BENZENE	50	52.8	106	60-140
ETHYLBENZENE	50	56.6	113	60-140
MTBE	50	54.3	108	60-140
TOLUENE	50	55.3	111	60-140
TOTAL XYLENES	150	175	117	60-140

*** Out of Limits** *1*

Katahdin Analytical Services

MS/MSD Report

Sample	File Name	Date Acquired	Time inj	Analyst	Matrix	Method
WR1615-9	F0694	5/16/01	11:50:00 PM	BEG	AQ	8260_99
WR1615-9MS	F0705	5/17/01	8:35:00 AM	KMC	AQ	8260_99
WR1615-9MSD	F0706	5/17/01	9:08:00 AM	KMC	AQ	8260_99

Compound Name	Native (ug/L)	MS Spk Amount (ug/L)	MSD Spk Amount (ug/L)	MS Result (ug/L)	MSD Result (ug/L)	MS REC (%)	MSD REC (%)	Recovery Limits (%)	RPD (%)	RPD Limit (%)
TOTAL XYLENES	251	150	150	400	362	99	74	60-140	10	20
TOLUENE	8.95	50	50	56.9	50.8	96	84	60-140	11	20
MTBE	0	50	50	47.5	46.9	95	94	60-140	1.3	20
ETHYLBENZENE	179	50	50	220	199	82	*40	60-140	10	20
BENZENE	0	50	50	46.3	40.7	92	81	60-140	13	20

RPD =[(ms res - msd res) / (ms res + msd res)/2] * 100

* Out of Limits

4A
VOLATILE ORGANICS METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBLKM17A

Lab Name: Katahdin Analytical Services SDG No.: WR1615

Lab File ID: M0193 Lab Sample ID: VBLKM17A

Date Analyzed: 05/17/01 Time Analyzed: 8:45

GC Column: RTX-624 ID: 0.18 (mm) Heated Purge: (Y/N) N

Instrument ID: 5972-M

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, LCS'S, MS AND MSD'S :

Client Sample ID	Lab Sample ID	Lab Data File	Date Injected	Time Injected
LCSM17A	LCSM17A	M0192	5/17/01	7:37:00 AM
NEX-MW25	WR1615-7	M0198	5/17/01	12:21:00 PM

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: AL EASTERDAY
EA Engineering
175 Middlesex Turnpike

Bedford, MA 01730

Proj. ID:

Lab Number: VBLKM17A
SDG: WR1615
Report Date: 5/22/01
PO No. : 05.10.01
Project: NEX
% Solids: N/A
Method: EPA 8260
Date Analyzed: 5/17/01

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
VBLKM17A	AQ	-	-	5/17/01	KMC	5030	KMC

Compound	Result	Units	DF	Sample PQL	Method PQL
TOLUENE	<1	ug/L	1.0	1	1
BENZENE	<1	ug/L	1.0	1	1
ETHYLBENZENE	<1	ug/L	1.0	1	1
TOTAL XYLENES	<1	ug/L	1.0	1	1
MTBE	<1	ug/L	1.0	1	1
1,2-DICHLOROETHANE-D4	103	%	1.0		
DIBROMOFLUOROMETHANE	100	%	1.0		
TOLUENE-D8	98	%	1.0		
P-BROMOFLUOROBENZENE	98	%	1.0		

Report Notes:

Katahdin Analytical Services
8260 LCS Recovery Sheet

Lab File: M0192 **Sample ID:** LCSM17A **Date Run:** 5/17/01

Analyst: KMC **Time Injected:** 7:37:00 AM **Matrix:** AQ

Compound Name	Spike Amt (ug/L)	Result (ug/L)	Rec (%)	Limits (%)
BENZENE	50	54.8	110	60-140
ETHYLBENZENE	50	54.3	108	60-140
MTBE	100	115	115	60-140
TOLUENE	50	54.3	108	60-140
TOTAL XYLENES	150	159	106	60-140

*** Out of Limits** *1*

KATAHDIN ANALYTICAL SERVICES, INC.
SAMPLE RECEIPT CONDITION REPORT
Tel. (207) 874-2400
Fax (207) 775-4029

LAB (WORK ORDER) # WR11615

PAGE: 1 OF 3

COOLER: 1 OF 3

CLIENT: EA

COC#
SDG#
DATE / TIME RECEIVED: 5-10-01 1520
DELIVERED BY: Client
RECEIVED BY: SW
LIMS ENTRY BY: SW
LIMS REVIEW BY / PM: AL

PROJECT:

	YES	NO	EXCEPTIONS	COMMENTS	RESOLUTION
1. CUSTODY SEALS PRESENT / INTACT?	☐	☑	☐		
2. CHAIN OF CUSTODY PRESENT IN THIS COOLER?	☑	☐	☐		
3. CHAIN OF CUSTODY SIGNED BY CLIENT?	☑	☐	☐		
4. CHAIN OF CUSTODY MATCHES SAMPLES?	☑	☐	☐		
5. TEMPERATURE BLANKS PRESENT?	☑	☐	☐	TEMP BLANK TEMP (°C)= 3.9	
6. SAMPLES RECEIVED AT 4°C +/- 2? (ICE) ICE PACKS PRESENT (Y) or N?	☑	☐	☐	COOLER TEMP (°C)= NA (RECORD COOLER TEMP ONLY IF TEMP BLANK IS NOT PRESENT)	
7. VOLATILES FREE OF HEADSPACE?	☑	☐	☐		
8. TRIP BLANK PRESENT IN THIS COOLER	☑	☐	☐		
9. PROPER SAMPLE CONTAINERS AND VOLUME?	☑	☐	☐		
10. SAMPLES WITHIN HOLD TIME UPON RECEIPT?	☑	☐	☐		
11. SAMPLES PROPERLY PRESERVED[1]?	☑	☐	☐		
12. CORRECTIVE ACTION REPORT FILED?	☐	☑	N/A		

13. ANALYTICAL PROGRAMS (CIRCLE ONE) COMMERCIAL CLP HAZWRAP (NFESC) ACOE AFCEE OTHER (STATE OF ORIGIN):

LOG - IN NOTES[1]:

(1) Use this space (and additional sheets if necessary) to document samples that are received broken or compromised, C-O-C discrepancies, radiation checks, residual chlorine check, results of pH check if required. If samples required pH adjustment, record volume and type of preservative added.

KATAHDIN ANALYTICAL SERVICES, INC.
SAMPLE RECEIPT CONDITION REPORT
Tel. (207) 874-2400
Fax (207) 775-4029

LAB (WORK ORDER) # WR11615

PAGE: 2 OF 3

COOLER: 2 OF 3

CLIENT: EA

COC#
SDG#
DATE / TIME RECEIVED: 5-10-01 1520
DELIVERED BY: Client
RECEIVED BY: SA
LIMS ENTRY BY: SA
LIMS REVIEW BY / PM: MC

PROJECT:

	YES	NO	EXCEPTIONS	COMMENTS	RESOLUTION
1. CUSTODY SEALS PRESENT / INTACT?	☐	☑	☐		
2. CHAIN OF CUSTODY PRESENT IN THIS COOLER?	☑	☐	☐		
3. CHAIN OF CUSTODY SIGNED BY CLIENT?	☑	☐	☐		
4. CHAIN OF CUSTODY MATCHES SAMPLES?	☑	☐	☐		
5. TEMPERATURE BLANKS PRESENT?	☑	☐	☐	TEMP BLANK TEMP (°C)= 3.6	
6. SAMPLES RECEIVED AT 4°C +/- 2? ICE / ICE PACKS PRESENT (Y) or N?	☑	☐	☐	COOLER TEMP (°C)= NA (RECORD COOLER TEMP ONLY IF TEMP BLANK IS NOT PRESENT)	
7. VOLATILES FREE OF HEADSPACE?	☐	☐	☑		
8. TRIP BLANK PRESENT IN THIS COOLER	☐	☑	☐		
9. PROPER SAMPLE CONTAINERS AND VOLUME?	☑	☐	☐		
10. SAMPLES WITHIN HOLD TIME UPON RECEIPT?	☑	☐	☐		
11. SAMPLES PROPERLY PRESERVED[1]?	☑	☐	☐		
12. CORRECTIVE ACTION REPORT FILED?	☐	☑	N/A		

13. ANALYTICAL PROGRAMS (CIRCLE ONE) COMMERCIAL CLP HAZWRAP (NFESC) ACOE AFCEE OTHER (STATE OF ORIGIN):

LOG - IN NOTES[1]:

(1) Use this sp[illegible]nd additional sheets if necessary) to document samples that are received broken [illegible] promised, C-O-C discrepancies, radiation checks, residual chlorine check, results o[illegible] check if re[illegible]. If samples required pH adjustment, record volume and type of preservative added.

KATAHDIN ANALYTICAL SERVICES, INC.
SAMPLE RECEIPT CONDITION REPORT
Tel. (207) 874-2400
Fax (207) 775-4029

LAB (WORK ORDER) # WR1615

PAGE: 3 OF 3

COOLER: 3 OF 3

CLIENT: EA

COC#
SDG#
DATE / TIME RECEIVED: 5-10-01 1520
DELIVERED BY: Client
RECEIVED BY: SEW
LIMS ENTRY BY: SEW
LIMS REVIEW BY / PM: DL

PROJECT:

	YES	NO	EXCEPTIONS	COMMENTS	RESOLUTION
1. CUSTODY SEALS PRESENT / INTACT?	☐	☑	☐		
2. CHAIN OF CUSTODY PRESENT IN THIS COOLER?	☑	☐	☐		
3. CHAIN OF CUSTODY SIGNED BY CLIENT?	☑	☐	☐		
4. CHAIN OF CUSTODY MATCHES SAMPLES?	☑	☐	☐		
5. TEMPERATURE BLANKS PRESENT?	☑	☐	☐	TEMP BLANK TEMP (°C)= 5.1	
6. SAMPLES RECEIVED AT 4°C +/- 2? ICE / ICE PACKS PRESENT (Y) or N?	☑	☐	☐	COOLER TEMP (°C)= NA (RECORD COOLER TEMP ONLY IF TEMP BLANK IS NOT PRESENT)	
7. VOLATILES FREE OF HEADSPACE?	☐	☐	☑		
8. TRIP BLANK PRESENT IN THIS COOLER	☐	☑	☐		
9. PROPER SAMPLE CONTAINERS AND VOLUME?	☑	☐	☐		
10. SAMPLES WITHIN HOLD TIME UPON RECEIPT?	☑	☐	☐		
11. SAMPLES PROPERLY PRESERVED[1]?	☑	☐	☐		
12. CORRECTIVE ACTION REPORT FILED?	☐	☑	N/A		

13. ANALYTICAL PROGRAMS (CIRCLE ONE) COMMERCIAL CLP HAZWRAP (NFESC) ACOE AFCEE OTHER (STATE OF ORIGIN):

LOG - IN NOTES[1]:

(1) Use this space (and additional sheets if necessary) to document samples that are received broken or compromised, C-O-C discrepancies, radiation checks, residual chlorine check, results of pH check if required. If samples required pH adjustment, record volume and type of preservative added.

Katahdin ANALYTICAL SERVICES
340 County Road No. 5
P.O. Box 720
Westbrook, ME 04092
Tel: (207) 874-2400
Fax: (207) 775-4029

CHAIN of CUSTODY

PLEASE PRINT IN PEN

Client: EA Engineering
Contact: Sue Chase
Phone #: (207) 798-5977
Fax #: ( )
Address:
City:
State:
Zip Code:
Purchase Order #:
Proj. Name / No.:
Katahdin Quote #:
Bill (if different than above):
Address:
Sampler (Print / Sign): ROBERT WASSERMAN / Robert Wass
Copies To:

LAB USE ONLY
WORK ORDER #: WR1615
KATAHDIN PROJECT MANAGER:
REMARKS:
SHIPPING INFO: ☐ FED EX ☐ UPS ☐ CLIENT
AIRBILL NO:
TEMP°C: ☐ TEMP BLANK ☐ INTACT ☐ NOT INTACT

ANALYSIS AND CONTAINER TYPE PRESERVATIVES

*	Sample Description	Date / Time coll'd	Matrix	No. of Cntrs.	VOC+MTBE 8260 / HCL	TPH GRO HCL	TPH DRO HCL							
	NEX-MW225	5/9/01 / 1300	W	8	X	X	X							
	NEX-MW26	5/9/01 / 1350	W	8	X	X	X							
	NEX-MW226	5/9/01 / 1450	W	8	X	X	X							
	NEX-MWDUP1	5/9/01 / —	W	8	X	X	X							
	NEX-MW23	5/10/01 / 0800	W	8	X	X	X							
	NEX-MW24	5/10/01 / 0835	W	8	X	X	X							
	NEX-MW25	5/10/01 / 1005	W	8	X	X	X							
	NEX-MW8	5/10/01 / 1045	W	8	X	X	X							
	NEX-MW9	5/10/01 / 1200	W	8	X	X	X				MS/MSD			
	NEX-MW10	5/10/01 / 1315	W	8	X	X	X							
	NEX-TRIP1	5/9/01 / 0900	W	2	X									
		/												
		/												
		/												
		/												
		/												

COMMENTS

Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Relinquished By: (Signature)	Date / Time	Received By: (Signature)
R. Wass (EA)	5-10-01 1520	Shelly Will			
Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Relinquished By: (Signature)	Date / Time	Received By: (Signature)

FORMSOURCE INC. ☎ (207) 782-3311
FORM # CHN-OF-CSTDY

ORIGINAL

KATAHDIN ANALYTICAL SERVICES, INCORPORATED
New England-ME Laboratory (207) 874-2400
CONFIRMATION

ORDER NO WR-1615

Project Manager: Andrea J. Colby
ORDER DATE: 05/11/01
PHONE: 781/275-8846
FAX: 781/275-7253
DUE: 24 MAY

ORT TO: AL EASTERDAY
EA Engineering
175 Middlesex Turnpike
Bedford, MA 01730

INVOICE: Colleen Chaisty
EA Engineering
175 Middlesex Turnpike
Bedford, MA 01730

PHONE: 781/275-8846
PO: 05.10.01

PROJECT: NEX

SAMPLED BY: CLIENT DELIVERED BY: CLIENT DISPOSE: AFTER 10 JUN

ITEM	LOG NUMBER	SAMPLE DESCRIPTION	SAMPLED DATE/TIME	RECEIVED	MATRIX
1	WR1615-1	NEX-MW225	09 MAY 1300	10 MAY	AQ
	WR1615-2	NEX-MW26	09 MAY 1350		
	WR1615-3	NEX-MW226	09 MAY 1450		
	WR1615-4	NEX-MWDUP1	09 MAY		
	WR1615-5	NEX-MW23	10 MAY 0800		
	WR1615-6	NEX-MW24	10 MAY 0835		
	WR1615-7	NEX-MW25	10 MAY 1005		
	WR1615-8	NEX-MW8	10 MAY 1045		
	WR1615-10	NEX-MW10	10 MAY 1315		

DETERMINATION	METHOD	QTY	PRICE	AMOUNT
Volatile Organics by EPA 8260	EPA 8260	9	90.00	810.00
Gasoline Range Organics	MEDEP4.2.1	9	60.00	540.00
Diesel Range Organics	MEDEP4.1.2	9	100.00	900.00
TOTALS		9	250.00	2250.00

	LOG NUMBER	SAMPLE DESCRIPTION	SAMPLED DATE/TIME	RECEIVED	MATRIX
2	WR1615-11	NEX-TRIP1	09 MAY 0900	10 MAY	AQ

DETERMINATION	METHOD	QTY	PRICE	AMOUNT
Volatile Organics by EPA 8260	EPA 8260	1	90.00	90.00

LABORATORY ORDER CONTINUED ON PAGE 2

KATAHDIN ANALYTICAL SERVICES, INCORPORATED
New England-ME Laboratory (207) 874-2400
CONFIRMATION

ORDER NO WR-1615

Project Manager: Andrea J. Colby
ORDER DATE: 05/11/0
PHONE: 781/275-884
FAX: 781/275-7253
DUE: 24 MAY

REPORT TO: AL EASTERDAY
EA Engineering
175 Middlesex Turnpike
Bedford, MA 01730

INVOICE: Colleen Chaisty
EA Engineering
175 Middlesex Turnpike
Bedford, MA 01730

PHONE: 781/275-8846
PO: 05.10.01

PROJECT: NEX

SAMPLED BY: CLIENT DELIVERED BY: CLIENT DISPOSE: AFTER 10 JUN

	LOG NUMBER	SAMPLE DESCRIPTION	SAMPLED DATE/TIME	RECEIVED	MATRIX
3	WR1615-9	NEX-MW9	10 MAY 1200	10 MAY	AQ

DETERMINATION	METHOD	QTY	PRICE	AMOUNT
Volatile Organics by EPA 8260	EPA 8260	1	90.00	90.00
Gasoline Range Organics	MEDEP4.2.1	1	60.00	60.00
Diesel Range Organics	MEDEP4.1.2	1	100.00	100.00
VOA Matrix Spike Sample		1	90.00	90.00
VOA MS Duplicate Sample		1	90.00	90.00
GC Matrix Spike Sample		1	160.00	160.00
GC MS Duplicate Sample		1	160.00	160.00
TOTALS		1	750.00	750.00

ORDER NOTE: QC-II+
DD(WEST-DB3)
NEX

INVOICE: With Report

TOTAL ORDER AMOUNT $3,090.00
This is NOT an Invoi

AJC/BKR
05-11Please contact KATAHDIN ANALYTICAL SERVICES promptly if you have any questi

ADDENDUM
ORIGINAL CHAIN OF CUSTODY

Katahdin ANALYTICAL SERVICES
340 County Road No. 5
P.O. Box 720
Westbrook, ME 04092
Tel: (207) 874-2400
Fax: (207) 775-4029

CHAIN of CUSTODY

PLEASE PRINT IN PEN

Client: EA Engineering
Contact: Sue Chase
Phone #: (207) 798-5977
Fax #: ( )

Address: | City: | State: | Zip Code:

Purchase Order #: | Proj. Name / No.: | Katahdin Quote #:

Bill (if different than above): | Address:

Sampler (Print / Sign): ROBERT WASSERMAN / Robert Wass

Copies To:

LAB USE ONLY

WORK ORDER #: WR1615

KATAHDIN PROJECT MANAGER:

REMARKS:

SHIPPING INFO: ☐ FED EX ☐ UPS ☐ CLIENT

AIRBILL NO:

TEMP°C: ☐ TEMP BLANK ☐ INTACT ☐ NOT INTACT

ANALYSIS AND CONTAINER TYPE PRESERVATIVES

*	Sample Description	Date / Time coll'd	Matrix	No. of Cntrs.	VOC+MTBE 8260/HCL	TPH GRO HCL	TPH DRO HCL	Filt. ☐Y ☒N	Filt. ☐Y ☒N	Filt. ☐Y ☒N	Filt. ☐Y ☐N	Filt. ☐Y ☐N	Filt. ☐Y ☐N	Filt. ☐Y ☐N	Filt. ☐Y ☐N	Filt. ☐Y ☐N	Filt. ☐Y ☐N	Filt. ☐Y ☐N
	NEX-MW225	5/9/01 / 1300	W	8	X	X	X											
	NEX-MW26	5/9/01/1350	W	8	X	X	X											
	NEX-MW226	5/9/01/1450	W	8	X	X	X											
	NEX-MWDUP1	5/9/01/ —	W	8	X	X	X											
	NEX-MW23	5/10/01/0800	W	8	X	X	X											
	NEX-MW24	5/10/01/0835	W	8	X	X	X											
	NEX-MW25	5/10/01/1005	W	8	X	X	X											
	NEX-MW8	5/10/01/1045	W	8	X	X	X											
	NEX-MW9	5/10/01/1200	W	8	X	X	X					MS/MSD						
	NEX-MW10	5/10/01/1315	W	8	X	X	X											
	NEX-TRIP1	5/9/01/0900	W	2	X													
		/																
		/																
		/																
		/																
		/																

COMMENTS

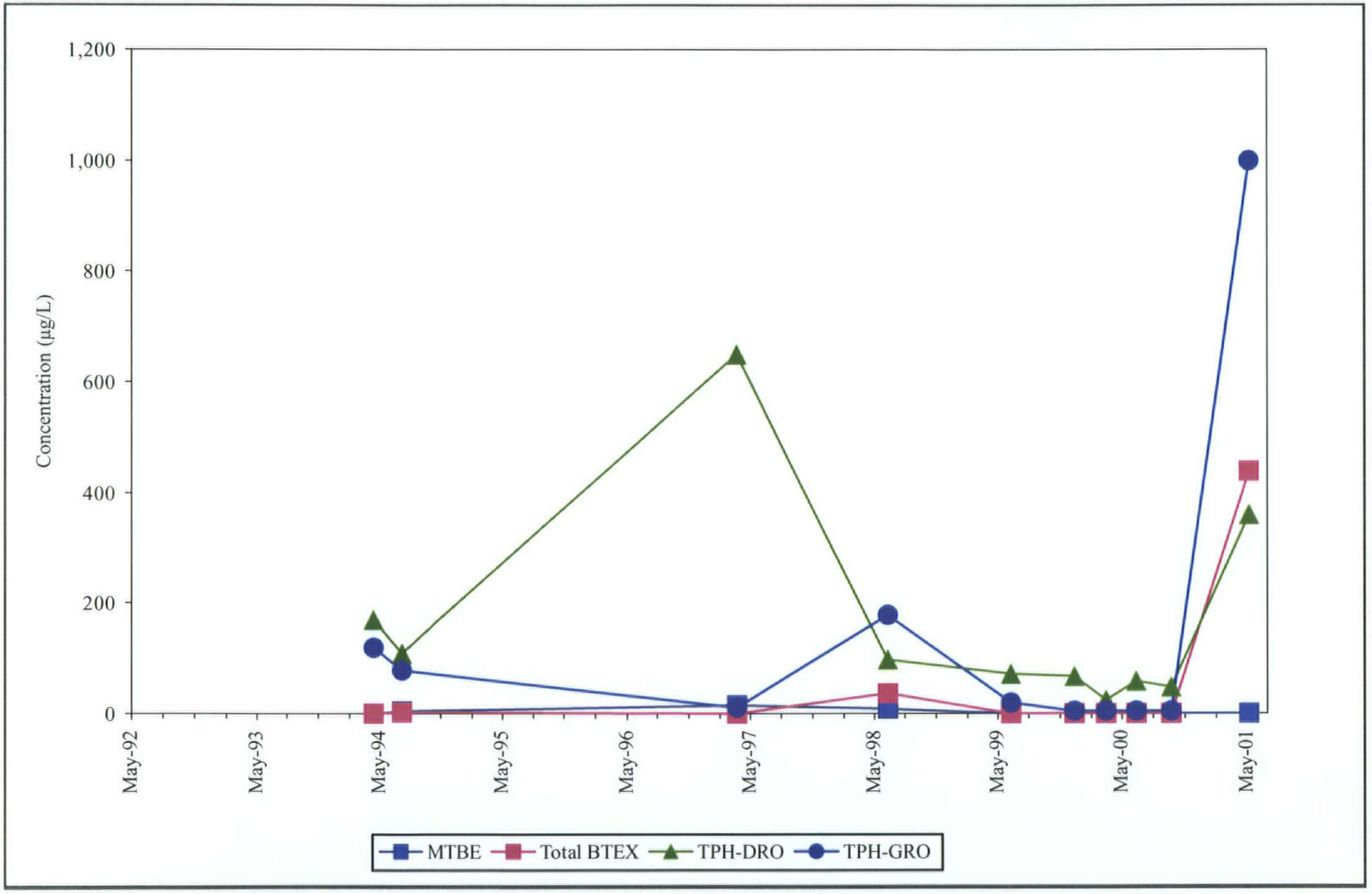
Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Relinquished By: (Signature)	Date / Time	Received By: (Signature)
R. Wass (EA)	5-10-01 1520	Shelby Will			
Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Relinquished By: (Signature)	Date / Time	Received By: (Signature)

Attachment E

Trend Graphs for the Contaminants of Concern from the Sampled Wells

Sample Location:
MW-NASB-009

NEX Service Station
Volatile Ground-water Data

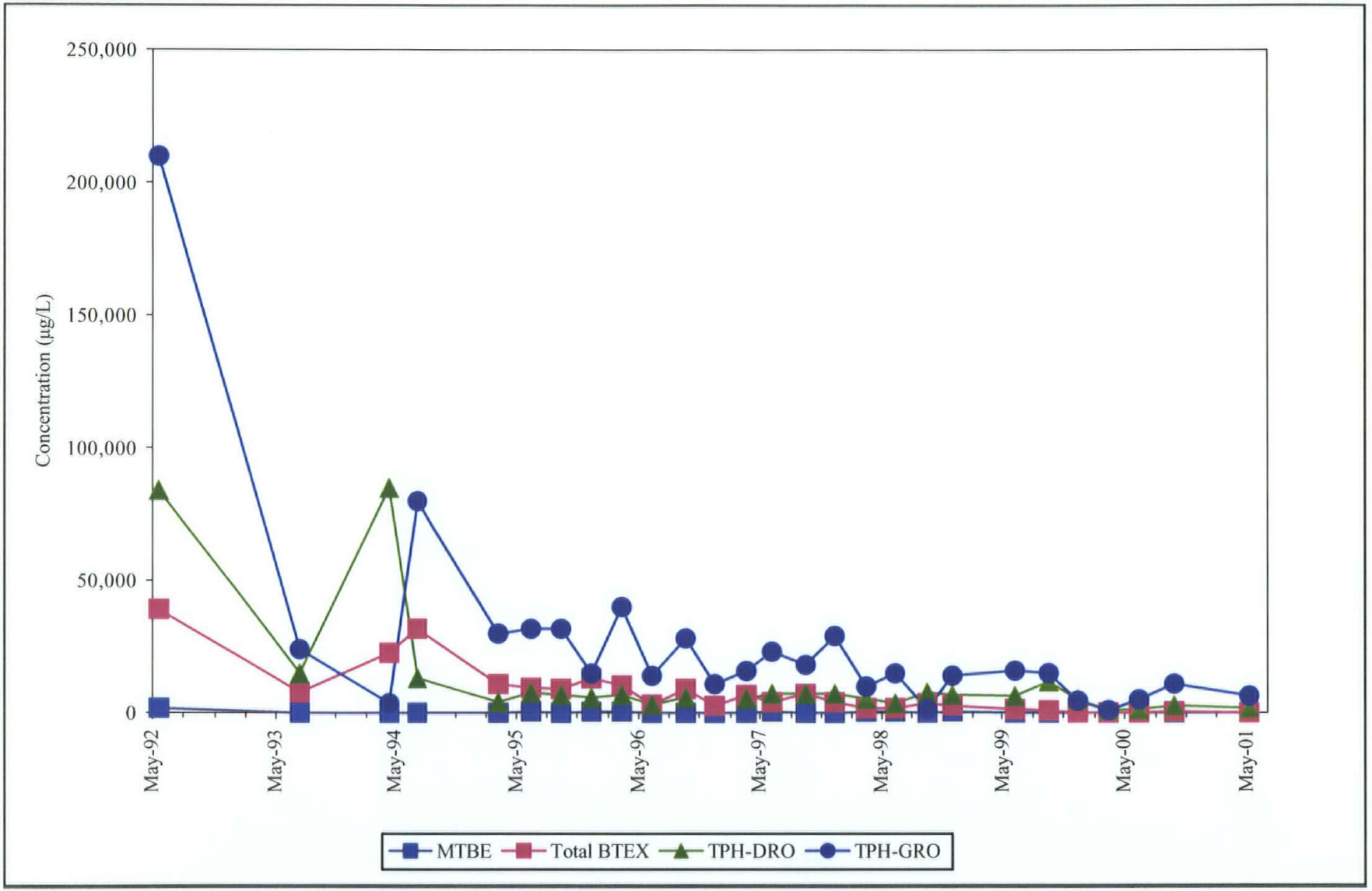


F:\Federal\DoD\Navy\2960035\DATABASE\Fuel Farm and NEX Reports.mdb

	MTBE	Benzene	TPH-DRO	TPH-GRO
Clean-up Goal:	35 µg/L	5 µg/L	50 µg/L	50 µg/L

Sample Location:
MW-NASB-026

NEX Service Station
Volatile Ground-water Data

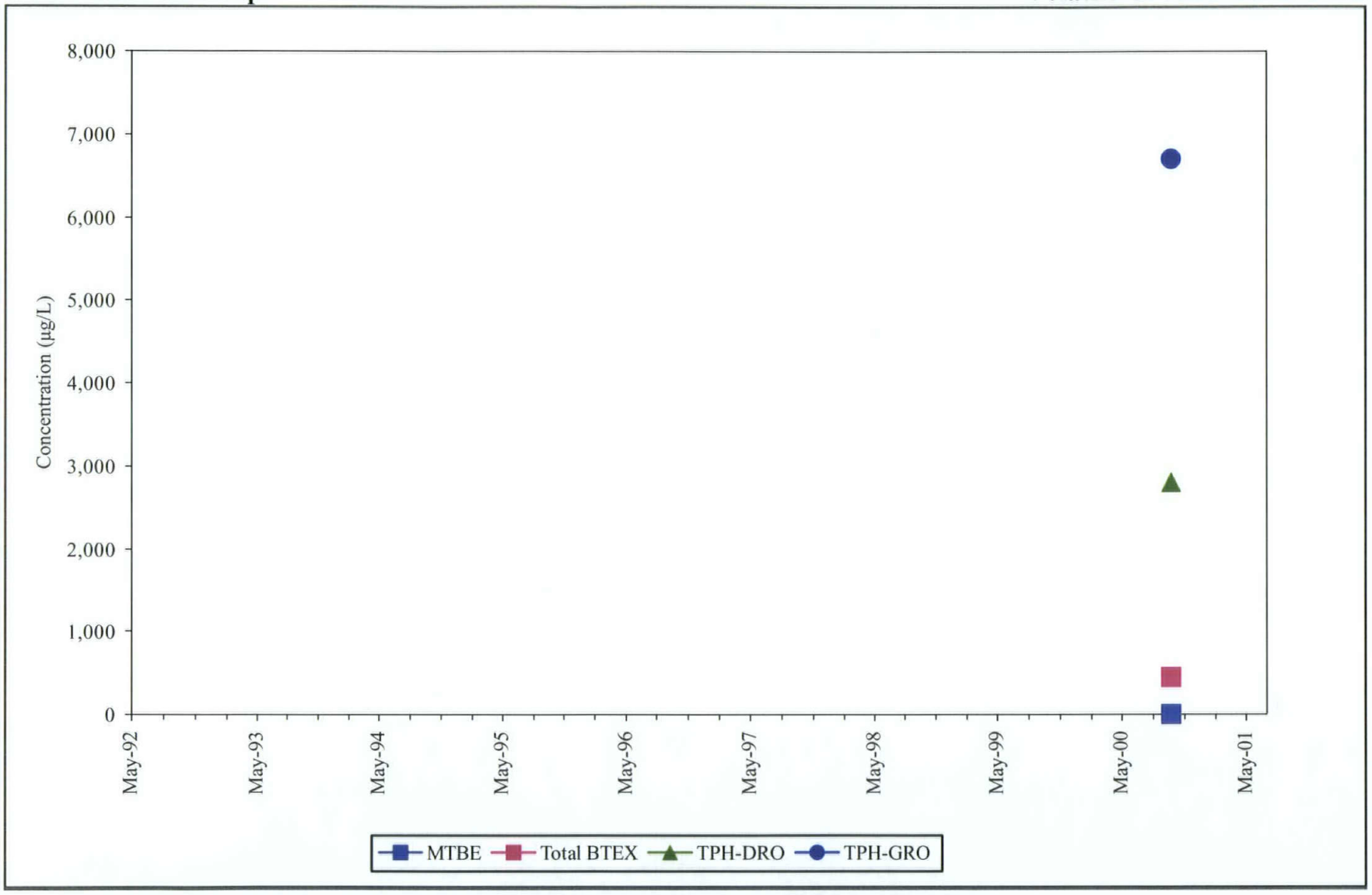


F:\Federal\DoD\Navy\2960035\DATABASE\Fuel Farm and NEX Reports.mdb

	MTBE	Benzene	TPH-DRO	TPH-GRO
Clean-up Goal:	35 µg/L	5 µg/L	50 µg/L	50 µg/L

Sample Location:
MW-NASB-026 Dup

NEX Service Station
Volatile Ground-water Data



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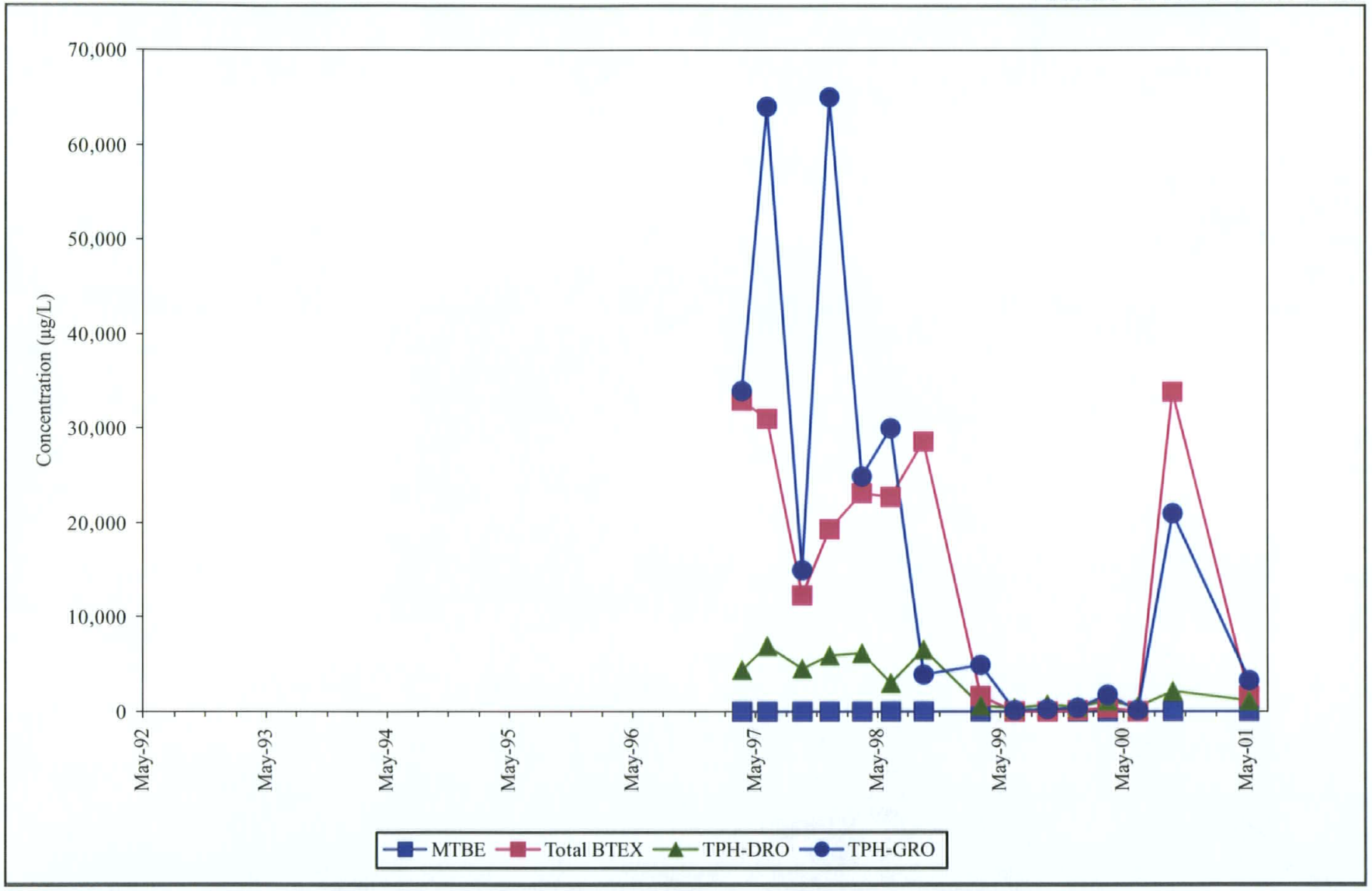
	MTBE	Benzene	TPH-DRO	TPH-GRO
Clean-up Goal:	35 µg/L	5 µg/L	50 µg/L	50 µg/L

Sample Location:
MW-NASB-225

NEX Service Station
Volatile Ground-water Data



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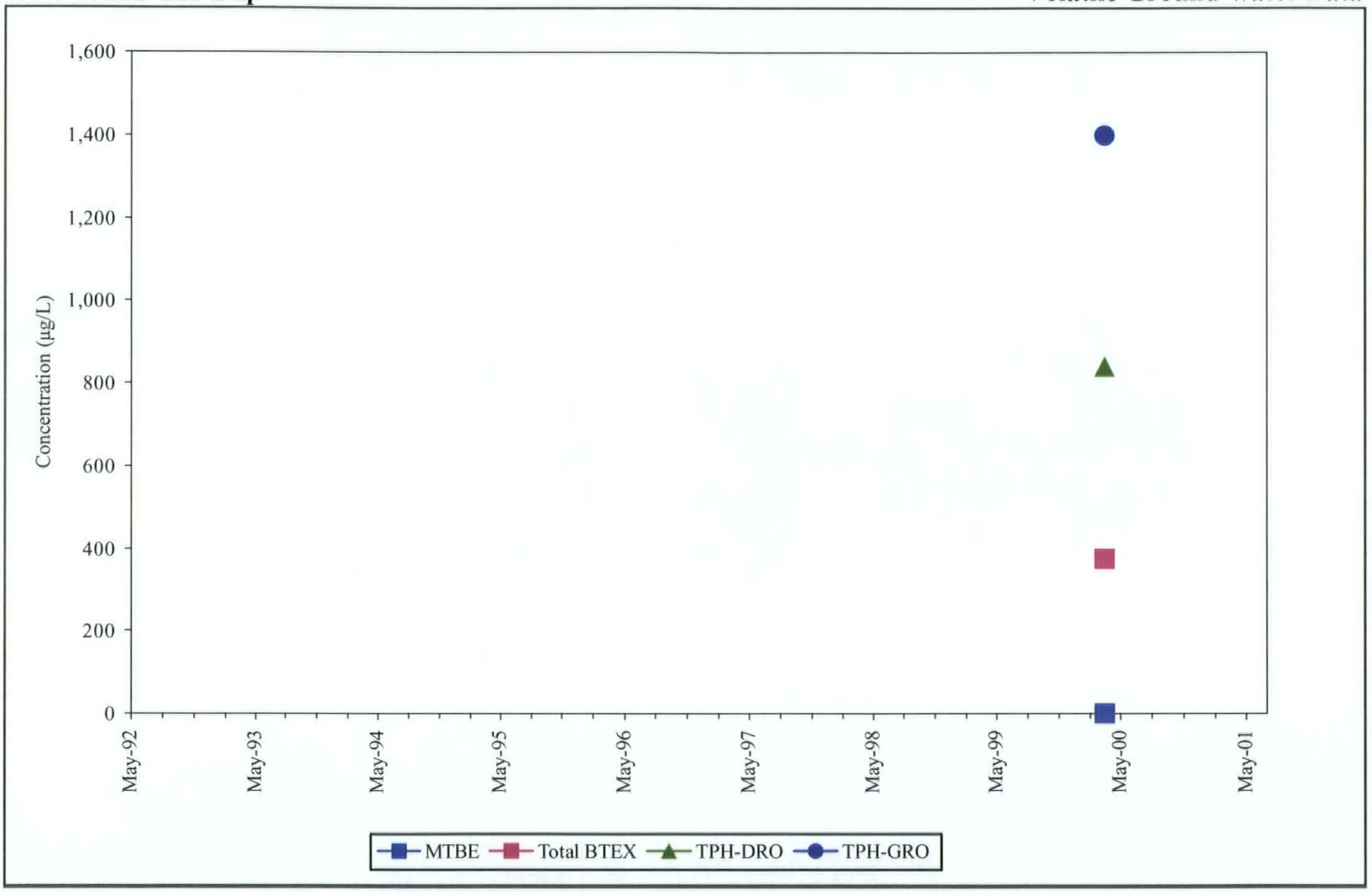
	MTBE	Benzene	TPH-DRO	TPH-GRO
Clean-up Goal:	35 µg/L	5 µg/L	50 µg/L	50 µg/L

Sample Location:
MW-NASB-225 Dup

NEX Service Station
Volatile Ground-water Data



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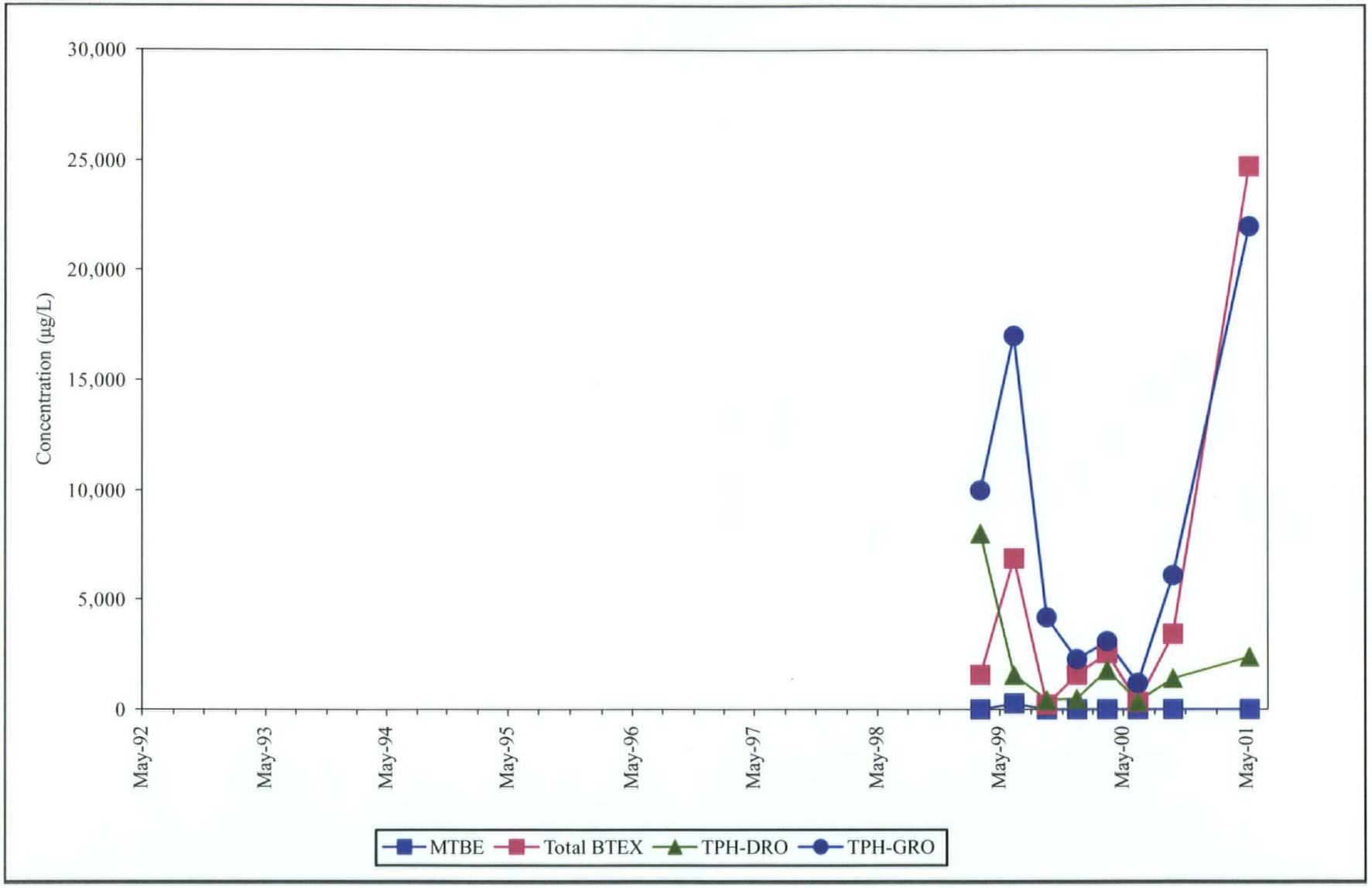
	MTBE	Benzene	TPH-DRO	TPH-GRO
Clean-up Goal:	35 µg/L	5 µg/L	50 µg/L	50 µg/L

Sample Location:
MW-NASB-226

NEX Service Station
Volatile Ground-water Data



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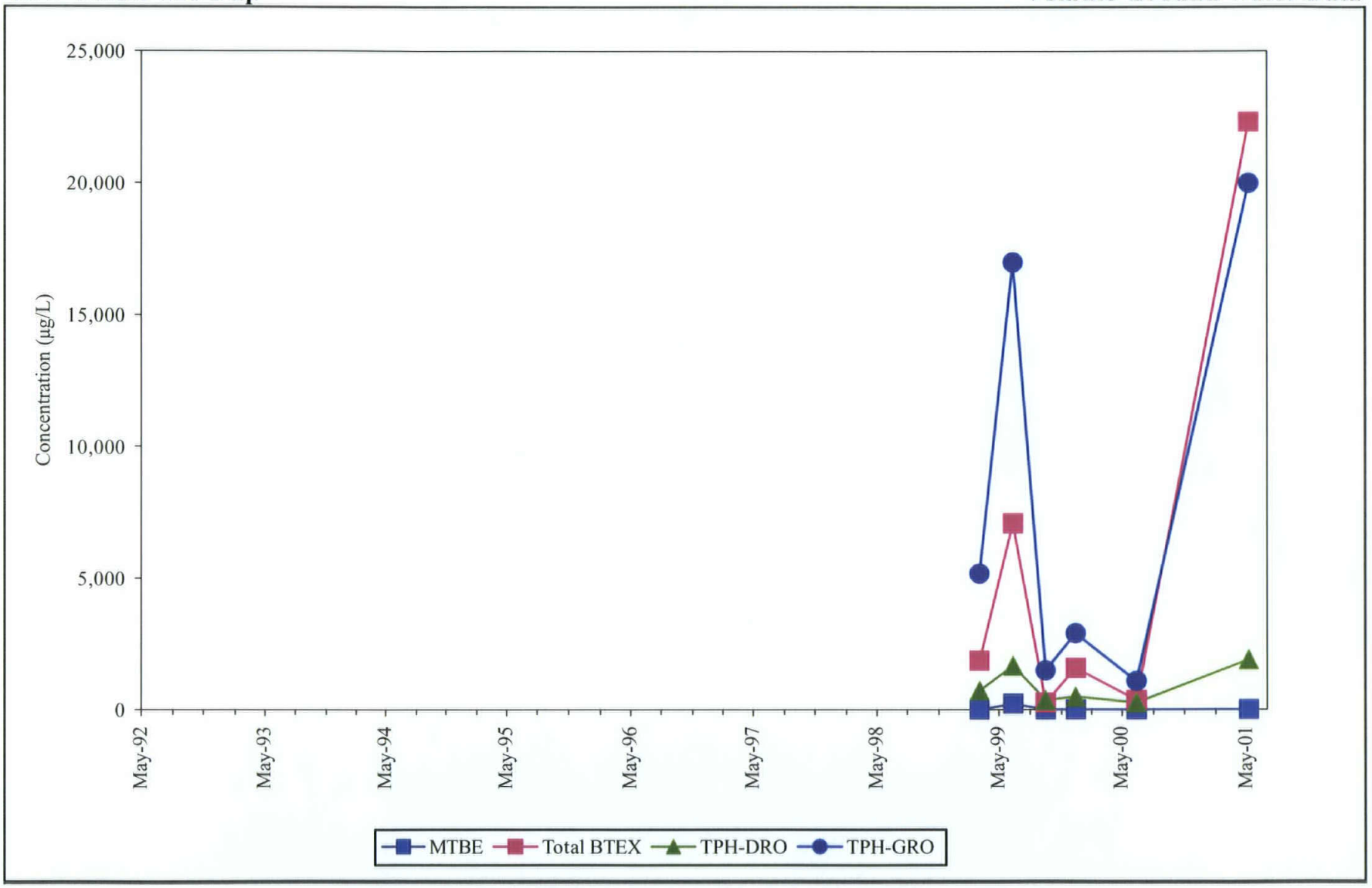
	MTBE	Benzene	TPH-DRO	TPH-GRO
Clean-up Goal:	35 µg/L	5 µg/L	50 µg/L	50 µg/L

Sample Location:
MW-NASB-226 Dup

NEX Service Station
Volatile Ground-water Data



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	MTBE	Benzene	TPH-DRO	TPH-GRO
Clean-up Goal:	35 µg/L	5 µg/L	50 µg/L	50 µg/L