N60478.AR.000648
NWS EARLE
5090.3a

BIOSLURPER STATUS REPORT
FOR MARCH 2002 THROUGH MAY 2002
NAVAL WEAPONS STATION - EARLE
COLTS NECK, NEW JERSEY

Issued:

July 2002

Prepared for:

Engineering Field Activity Northeast
10 Industrial Highway
Lester, PA 19113

Prepared by:

Foster Wheeler Environmental Corporation
2300 Lincoln Highway
One Oxford Valley - Suite 200
Langhorne, PA 19047 - 1829

REMEDIAL ACTION CONTRACT N62472-99-D-0032
CONTRACT TASK ORDER NO. 0049

TABLE OF CONTENTS

1.0 INTRODUCTION 1

2.0 PROJECT LOCATION AND DESCRIPTION 1
- 2.1 Previous Investigations 1
- 2.2 Geology 2

3.0 BIOSLURPER OBJECTIVES AND PLUME CHARACTERISTICS 2

4.0 BIOSLURPER SYSTEM OPERATION 3

5.0 OPERATIONS AND DIFFICULTIES ENCOUNTER 4
- 5.1 Evaluation of Site Conditions 5
- 5.2 Product Recovery Data 6

6.0 EFFLUENT AND AIR ANALYSIS 6
- 6.1 Air Analysis 6
- 6.2 Effluent Analysis 6

7.0 CONCLUSIONS 7

FIGURES

Figure 2-1 Vicinity Map
Figure 5-1 Product Thickness (ft.) Isopleth 02/28/2002
Figure 5-2 Product Thickness (ft.) Isopleth 03/28/2002
Figure 5-3 Product Thickness (ft.) Isopleth 04/23/2002
Figure 5-4 Product Thickness (ft.) Isopleth 06/08/2002

TABLES

Table 1 Bioslurper Units Free-Phase Oil Extraction to Date
Table 2 Bioslurper Units Groundwater Extraction to Date
Table 3 Bioslurper Units Total Petroleum Hydrocarbon (TPH) Removed via Groundwater Treatment
Table 4 Bioslurper Units No. 1 and No. 2 Total Petroleum Hydrocarbon (TPH) Effluent Concentrations (mg/l)

APPENDICES

Appendix A Graphs of Oil/Water Extracted to Date
Appendix B Graphs of Water Levels and Product Thickness Data from Extraction Wells
Appendix C Analytical Summary Tables for Air Discharges and Associated Data
Appendix D Analytical Results for Effluent Samples

1.0 INTRODUCTION

Foster Wheeler Environmental Corporation (Foster Wheeler Environmental) was contracted by Engineering Field Activity Northeast to design, construct and operate bioslurper units for Site 16F at Naval Weapons Station (NWS) Earle located in Colts Neck, New Jersey. This System Operational Report is being submitted to satisfy the post-construction submittal requirements in paragraph 1.2.1, Pre-Post Construction Documentation of the Statement of Services for Contract Task Order No. 0049 under Remedial Action Contract No. N62472-99-D-0032.

This report summarizes the ongoing bioslurper operations at Site 16 at the Naval Weapons Station-Earle facility. The report summarizes the product recovered, groundwater treated, and the analytical results of the air and effluent discharges from the bioslurper systems. The operation period was from March 1, 2002 through June 8, 2002; however, the recovery numbers for the entire operational time (February 1998 through May 2002) are summarized in the report.

Bioslurper Unit #1 (located adjacent to Building C-16) normally recovers product from the following product extraction wells: 16MW-13, 16MW-14, 16MW-15, 16MW-04, 16MW-25, 16MW-26, 16MW-26 and vapor extraction wells: 16MW-22 and 16MW-23. Bioslurper Unit #2 (located north of Building C-50) normally extracts from 16MW-20, 16MW-16, C17/20MW-07, 16MW-17 and 16MW-19.

2.0 PROJECT LOCATION AND DESCRIPTION

NWS-Earle is located in east-central Monmouth County in the town of Colts Neck, New Jersey as depicted in Figure 2-1. Site 16F is located in the north-central portion of NWS-Earle. The areas addressed with the bioslurper remediation system at Site 16F are the light non-aqueous phase liquid (LNAPL) plume southeast of Building C-16, the small LNAPL plume northwest of Building C-50, and a former gas station west of Building C-18.

An underground fuel line located in the area north of Building C-19 was used to transport diesel fuel from an underground storage tank (UST) located at the northeast corner of Building C-18 to a dispensing station north of Building C-50. A leak in the fuel line was discovered in 1977. All of the former USTs were removed from the former gas station in 1998. Part of the former underground diesel transfer line is still in place.

2.1 PREVIOUS INVESTIGATIONS

Between June and October of 1995, Brown and Root Environmental conducted a Remedial Investigation (RI) at Site 16F. The RI Report concluded that hydrocarbons detected in the subsurface impacted the groundwater. The groundwater contamination (primarily volatile organics and fuel constituents) is associated with a free-phase LNAPL layer. This floating product is the source of organics in the groundwater.

In 1995, the Navy conducted an investigation at Site 16F using a Site Characterization and Analysis Penetrometer System (SCAPS). SCAPS is a field screening technique, which detects polynuclear aromatic hydrocarbon (PAH) compounds using a Laser Induced Fluorescence (LIF)

system. The LIF is quantitative to a known matrix with a know contaminant. A soil sample collected at the site was used to calibrate the LIF using diesel fuel marine. The fluorescent mapping, obtained from the push samples, was used to gain a better understanding of the contaminant distribution. Twenty nine (29) SCAPS borings were completed in the area between Building C-16 and C-50.

The free-phase plume to the south and east of Building C-16 is suspected to have been the result of the leaking former underground diesel fuel line. As evidenced by laboratory analytical results of groundwater samples, there is also some residual gasoline contamination associated with the plume near Building C-16.

The free-phase plume north of Building C-50 is suspected to have been the result of minor spills at a former diesel dispensing station located between the railroad tracks, north of Building C-50.

2.2 GEOLOGY

Site 16F is located within the Outer Coastal Plain of the Atlantic Coastal Plain Physiographic Province, approximately nine miles inland from the Atlantic Ocean. The site is relatively flat with most of the topographic relief being the drainage swales located between the railroad tracks. According to regional mapping, the site is located on an outcropping of the Vincentown Formation and upper colluvium. The upper colluvium, where present, is shallow and consists of massive sand and silty sand, which may contain quartz or ironstone pebbles. The Vincentown Formation consists of grey and green gluaconitic, fine to coarse-grained sand with silt.

According to the information obtained from the well installation logs and the SCAPS Investigation, the soil underlying the site is composed of fine to medium grained sand and silty sand.

3.0 BIOSLURPER OBJECTIVES AND PLUME CHARACTERISTICS

The objectives of the bioslurper systems operations are to conduct remedial operations in three separate areas: 1) the main free-phase plume located south and southeast of Building C-16; 2) a smaller free-phase plume north of Building C-50; and 3) the residual soil contamination associated with the former gas station site west of Building C-18.

The diesel fuel spills would have started out as free product or free phase oil. This phase is initially very mobile, and migrates downward through the unsaturated (vadose) zone due to gravitational forces until either the water table or a stratigraphic barrier is encountered. The viscosity of the light non-aqueous phase liquid (LNAPL), the groundwater gradient, and the permeability of the aquifer media control the rate of free product migration. A “smear zone” develops when the mobile LNAPL is smeared vertically through seasonal fluctuations in the water table. Once the smear zone develops, a portion of the LNAPL exists as a discontinuous non-wetting liquid phase (residual) that is relatively immobile except at seasonal low water table. The increased smear zone reduces the volume of the remaining mobile free-phase oil.

Based on the data gathered from water level measurements obtained in the recovery wells, the elevations in the wells vary as much as 3.9 to 7.29-feet below grade, with the average groundwater fluctuation of 5.79-feet in a well. That means that the free-phase product is being smeared vertically across a smear zone of almost 6-feet. The main free product plume is located to the east and south of Building C-16. The free-phase plume area is overlain by drainage ditches and railroad tracks. Due to the topographic depressions of the drainage ditches, and the permeability of the ballast associated with the railroad tracks, the localized groundwater table is subject to excessive water table fluctuations from rain events, which cause an increase in the vertical distribution of the oil across the smear zone. According to Peargin, Ireland, and Stephenson (1997), the largest percentage of LNAPL occurs within the smear zone versus the vadose zone.

As depicted in the latest product thickness maps (Figures 5-1 through 5-4) the majority of remaining oil is located in the southwest portion of the free-phase plume near former Building C-16. The concentration of the free-phase LNAPL appears to be underlying the parking lot area south of former Building C-16. Free-phase LNAPL is also concentrated east of former Building C-16, in the area between the railroad tracks. Based on the present location of the wells, the western extent of the free-phase plume cannot be completely defined. The estimated boundaries of the free-phase plume generated from the SCAPS Investigation (dashed line in figures) have been used to define the original free-phase plume boundary.

The extent of the free-phase plume located north of Building C-50 has not been verified with additional wells. The free-phase boundary depicted is based on the SCAPS Investigation. One extraction well (16MW20) is being used to extract product from the central portion of the suspected plume. While extraction well 16MW20 has consistently recovered free-phase oil, the oil thickness in the well is minimal. Measurements from an extraction well located at the hydraulically downgradient edge of the suspected free-phase plume north of Building C-50 have not detected any free-phase oil.

The soil contamination associated with the former gas station site was from previously removed USTs. There is no free-phase oil present in the former gas station area. Two bioventing wells are situated in this area to aid in remediating the vadose zone soils.

4.0 BIOSLURPER SYSTEM OPERATION

The bioslurper systems are designed to de-water the smear zone and remove LNAPL through drainage, volatilization, and biodegradation. The high vacuum of the bioslurper system extracts LNAPL from the pore spaces where it was formerly held by capillary tension. Typically, a vacuum pressure of 2.1 to 4.6 inches of Hg is applied to each well. The velocity in the drop tube must be sufficient to lift water as an entrained fluid.

Unit #1, located adjacent to Building C-16, was operated utilizing seven product recovery wells (16MW13, 16MW04, 16MW14, 16MW15, 16MW25, 16MW26 and 16MW27), and two bioventing wells (16MW22 and 16MW23). The product recovery wells were operated at a vacuum of approximately 5 to 8 inches of mercury, with the one-inch diameter drop tube set immediately above the product level in the well. The bioventing wells were operated at a

vacuum of 2 to 3 inches of mercury, and the one-inch diameter drop tube was placed several feet above the water table to minimize any water withdraw.

Unit #2, located north of Building C-50, was operated utilizing five product recovery wells (16MW16, 16MW17, 16MW19, C17/20MW07, and 16MW20). The product recovery wells were operated at a vacuum of approximately 5 to 8 inches of mercury, with the one-inch diameter drop tube set right above the product level in the well. The pipe connections to Unit #2 were configured in order to allow extraction from the wells on the outer edge of the free-phase plume east of Building C-16, and the one recovery well north of Building C-50. The product thickness and product recovery rates of the wells were significantly less than the recovery wells connected to Unit #1; therefore Unit #2 was operated for a lesser amount of time.

5.0 OPERATIONS AND DIFFICULTIES ENCOUNTERED

The bioslurper units consist of two self-contained 8 ft. by 40 ft. by 8 ft high refurbished cargo boxes that house the bioslurper pumps, process equipment, and groundwater treatment units. The turnkey units are connected to the recovery wells via underground piping. Bioslurper Unit No. 1 is equipped with a vapor-phase knock out tank and vapor-phase activated carbon drums to treat the air discharge to comply with the NJDEP Air Discharge Permit. Unit No. 1 requires air treatment because of the suspected gasoline component of the LNAPL plume in the area around Building C-16. The air discharge from Bioslurper No. 2 does not require treatment prior to discharge because of the lower concentrations of volatile organics.

This section discusses the monthly operation of the units during this reporting period and any problems that were encountered. Appendix A contains graphs depicting the operational times and groundwater and oil extracted on a monthly basis.

FEBRUARY 2002

Operations of Bioslurper Units Nos. 1 and 2 was previously discussed in the last submittal, however, some data (including Table 3, Table 4, and the product thickness isopleth figure) was excluded. The data is included herein. Appendix A provides a graphical representation of the amount of oil/groundwater extracted, and the operations hours for each unit. Due to restrictions imposed under the existing NJDEP Air Permit, the bioslurpers could only be operated when someone was on-site to document the visual opacity of the air discharge thus the systems were operated intermittently.

MARCH 2002

Operations and maintenance during March 2002 were normal, and no major difficulties were encountered. Bioslurper Unit No. 1 was operated for a total of 160 hours in March 2002. The total amount of groundwater extracted in March was approximately 16,151 gallons, with approximately 11 gallons of free-phase oil removed. Bioslurper Unit No. 2 operated for a total of 36.5 hours, extracted approximately 5,726 gallons of groundwater and approximately 0.5 gallons of free-phase oil. Appendix A provides a graphical representation of the amount of oil/groundwater extracted, and the operations hours for each unit. Modifications to the existing

NJDEP Air Permit allowed normal operation of the bioslurpers. Previously, the bioslurpers could only be operated when someone was on-site to document the visual opacity of the air discharge; thus the systems were previously operated intermittently.

APRIL 2002

Two tasks were completed in addition to the routine operations and maintenance during April 2002. Repairs were made to well tops that were damaged from previous demolition activities at the site and two float switches were serviced. The faulty switches caused the system to shut down twice in the beginning of the month. Bioslurper Unit No. 1 was operated for a total of 87 hours in April 2002. The total amount of groundwater extracted in April was approximately 12,749 gallons, with approximately 16 gallons of free-phase oil removed. Bioslurper Unit No. 2 operated for a total of 57 hours, extracted approximately 7,639 gallons of groundwater and approximately 5 gallons of free-phase oil. Appendix A provides a graphical representation of the amount of oil/groundwater extracted, and the operations hours for each unit.

MAY 2002

Operations and maintenance during May 2002 were normal, and no major difficulties were encountered. Bioslurper Unit No. 1 was operated for a total of 104.5 hours in May 2002. The total amount of groundwater extracted in May was approximately 24,926 gallons, with approximately 34 gallons of free-phase oil removed. Bioslurper Unit No. 2 operated for a total of 62.5 hours, extracted approximately 7,727 gallons of groundwater and approximately 2 gallons of free-phase oil. Appendix A provides a graphical representation of the amount of oil/groundwater extracted, and the operations hours for each unit.

Note that groundwater measurements were collected June 8, 2002 for the May reporting period.

5.1 EVALUATION OF SITE CONDITIONS

Water level and product thickness measurements are obtained periodically to establish product thickness isopleths. Appendix B contains graphs and tables depicting the depth to product and depth to water in individual extraction wells. As demonstrated by Figures 5-1 through 5-4, there has been a continued reduction in the product thickness at the site. The product thickness isopleths are based on the corrected thickness, adjusted for exaggeration measured in the well. Appendix B provides a tabular and graphical representation of the adjusted water levels and product thickness in the extraction wells. As demonstrated by the graphs in Appendix B, the water table elevations have continued to decline due to the drought like conditions over the past few months. It should be noted that the most effective product recovery occurs when the water table elevations are at their lowest, thus exposing any trapped product below the water table (smear zone). The additional product thickness data obtained from the additional wells installed in April 2001 confirm that the main portion of the product plume is underlying the parking lot south of Building C-16.

5.2 PRODUCT RECOVERY DATA

Table 1 summarizes the amount of free-phase oil recovered from the Bioslurper Extraction Units. Appendix A provides a graphical representation of the amount of oil/groundwater extracted and the operational hours for each Unit. Table 2 summarizes the groundwater extracted/treated to date. Table 3 summarizes the volume of total petroleum hydrocarbons (TPH) removed via the groundwater treatment component of bioslurper systems. The TPH removal rate for the groundwater discharges was calculated using laboratory analytical data and the volume of water processed.

The product recovery operations from March 2002 to May 2002 have been fairly consistent. Bioslurper Unit No.2 does not recover as much product as Unit No. 1 because this system is connected to recovery wells on the outer edge of the product plume, whereas Unit No. 1 operates from wells in the central portion of the plume.

6.0 EFFLUENT AND AIR ANALYSIS

6.1 AIR ANALYSIS

The air discharges from the bioslurper units are routinely sampled to ensure discharges are in compliance with the NJDEP air discharge permit. The air discharge is sampled for total VOCs (including benzene). Appendix C summarizes the analytical results of the air discharge samples and the permit limits. Appendix C also contains the laboratory analytical results of the air samples.

As indicated by the analytical results, both bioslurper units are operating within the permit requirements established for air discharge.

6.2 EFFLUENT ANALYSIS

The effluent from Bioslurper Unit No.1 is processed through one bag filter (equipped with a 75-micron filter), three modified bentonite clay vessels (operating in series), and two liquid-phase granular activated carbon vessels (operating in series). The bag filter removes particulates (mainly precipitated iron), the clay units remove the higher molecular weight volatile organic compounds (VOCs) and TPH, and the activated carbon removes the remaining VOC and TPH compounds. The effluent from Bioslurper Unit No. 2 is processed in the same manner, except that only two bentonite vessels in series are used instead of three. Unit No. 2 is configured in this manner because of the lower TPH concentrations of the effluent.

The groundwater effluent from the bioslurper units is routinely sampled to ensure the discharges are in compliance with the requirements set forth by the Naval Weapons Station-Earle Sewer Treatment Plant (< 10 ppm TPH).

Table 4 summarizes the TPH results of the effluent samples. Appendix D contains the laboratory analytical results of the effluent samples. As demonstrated by the laboratory analytical results,

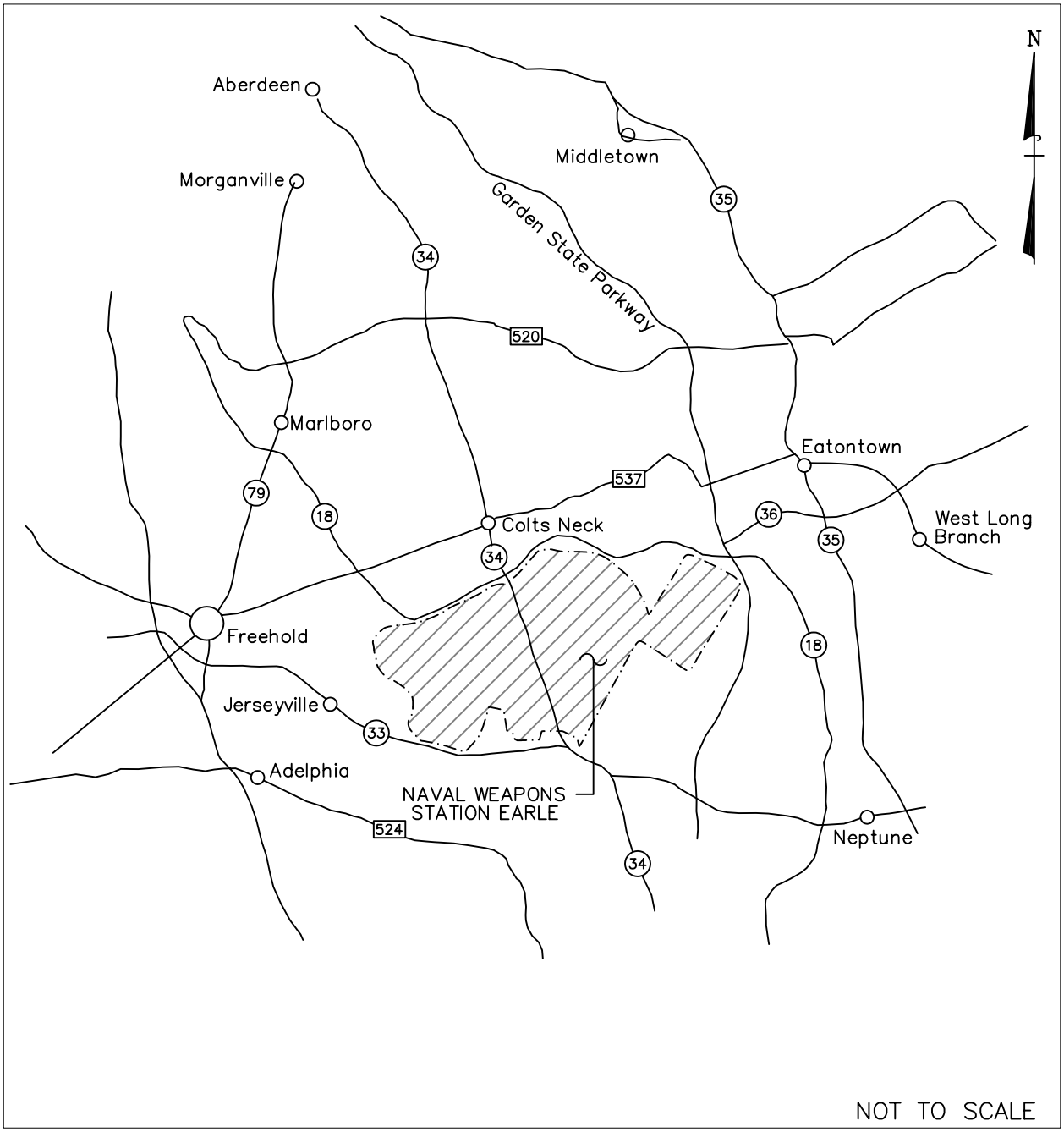
7.0 CONCLUSIONS

The bioslurper units continued to operate within the design limits with only minor operational problems. The bioslurper units were operated at a vacuum of approximately 25 inches of mercury. A vacuum of between 3 to 5 inches of mercury was applied to each extraction well. Bioslurper Unit No 1 was operated more frequently than Bioslurper No. 2 because Unit No. 2 extracts from wells on the other edge of the LNAPL plume and mainly extract water if operated longer than a few hours a week. The new NJDEP Air Discharge Permit currently requires weekly opacity monitoring, which allows longer operational times of Bioslurper Unit No.1 by using the remote telemetry system. Bioslurper Unit No. 1 has been operated more frequently in the spring of 2002 than during the last reporting period.

As demonstrated by the analytical results of air and effluent discharge samples, the system was adequately treating the air and effluent to the limits established by the NJDEP Air Discharge Permit and the restrictions of the NWS-Earle Sewer Treatment Plant. The effluent of both bioslurper systems is discharged to the NWS-Earle Sewer Treatment Plant. Based on agreements with NWS-Earle prior to the start-up of the systems, the effluent discharge from the systems was to meet the NJPDES Discharge Permit criteria for their discharge. The effluent discharge has met the applicable discharge criteria of 10 ppm total petroleum hydrocarbons (TPH).

As demonstrated by the historical product thickness isopleths generated at the site, there is a continuing decline in the product thickness in the LNAPL plume south and east of the former C-16 Building. Decreased available product in the wells also results in decreased product recoveries over time. The decreased product recoveries at the site are demonstrated with the existing historical recovery data. The decreased product recoveries over time is not a result of the system becoming less effective, but a function of diminished returns based upon the availability of free product.

FIGURES



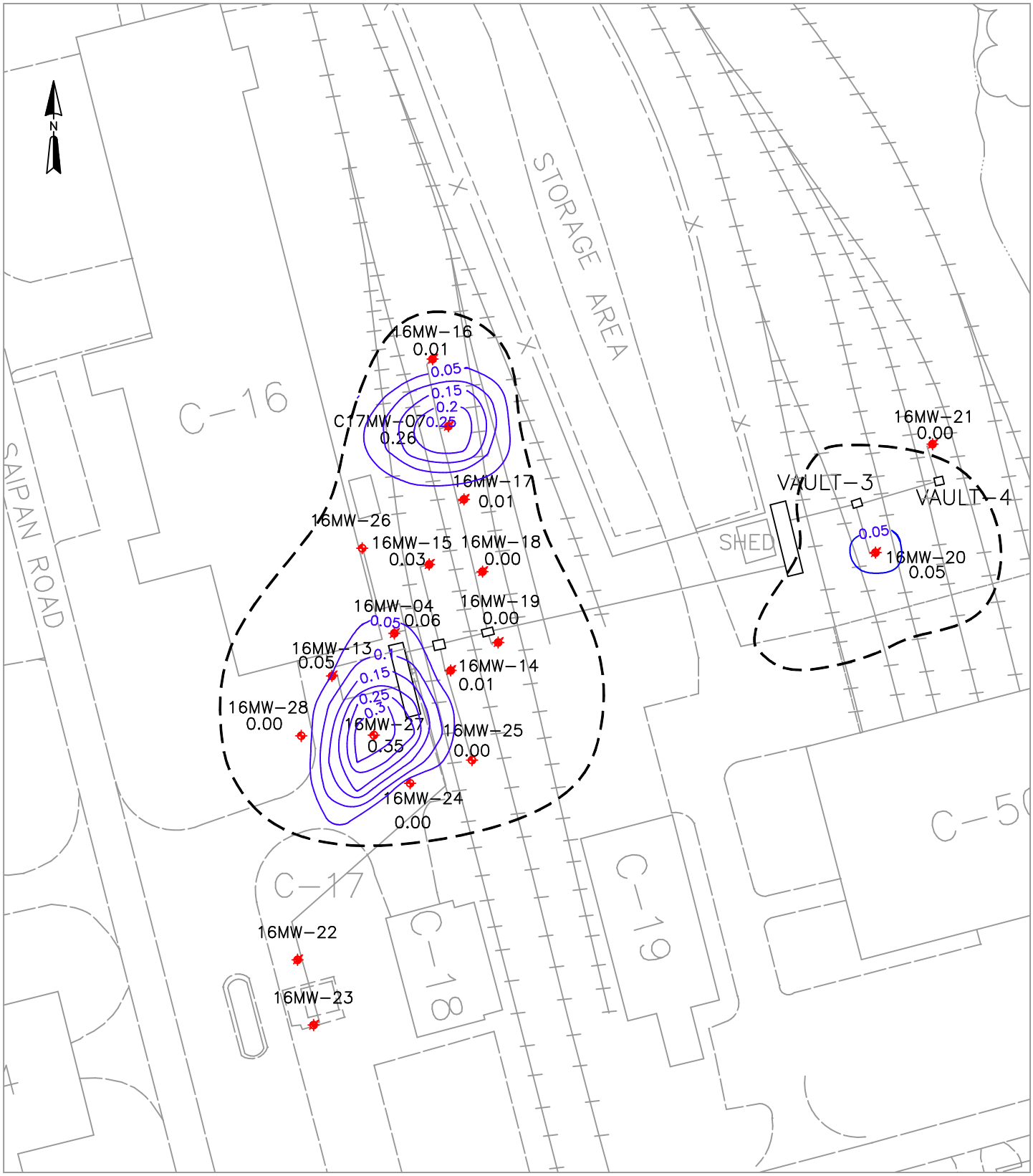
U.S. Navy RAC
NWS– Earle, Colts Neck, NJ

Figure 2–1

Vicinity Map

FOSTER WHEELER ENVIRONMENTAL CORPORATION

i:\projects\navyrac\earle\fig1–2.dwg



Legend

Product plume boundary based on former SCAPs Study

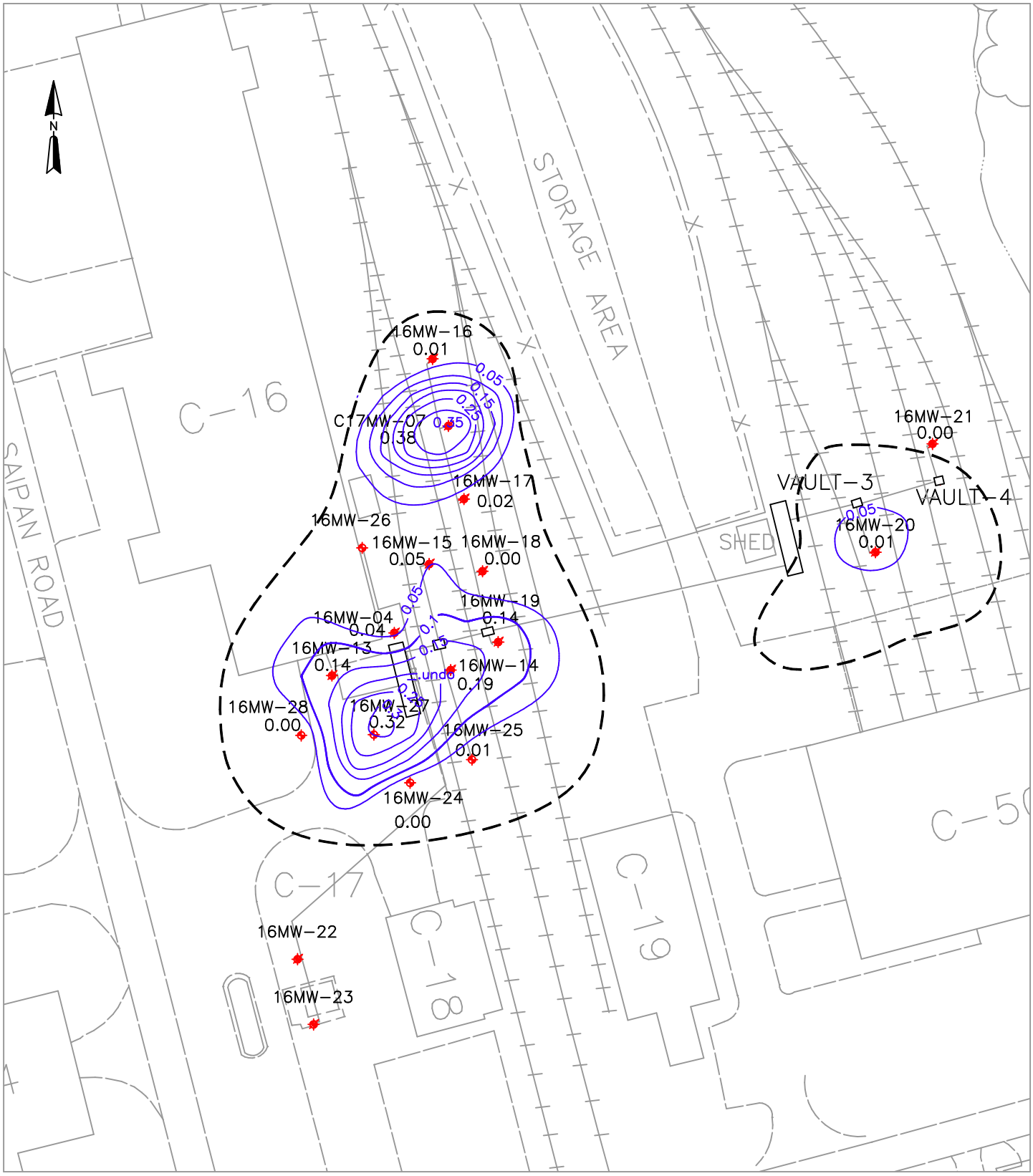
0 40 80
FEET

G:\GISPROJ\EARLE\prod02_28_02.dwg

U.S. Navy RAC
NWS – Earle, Colts Neck, NJ

Figure 5-1
Product Thickness (ft.) Isopleth
02/28/2002

FOSTER WHEELER ENVIRONMENTAL CORPORATION



Legend

Product plume boundary based on former SCAPs Study

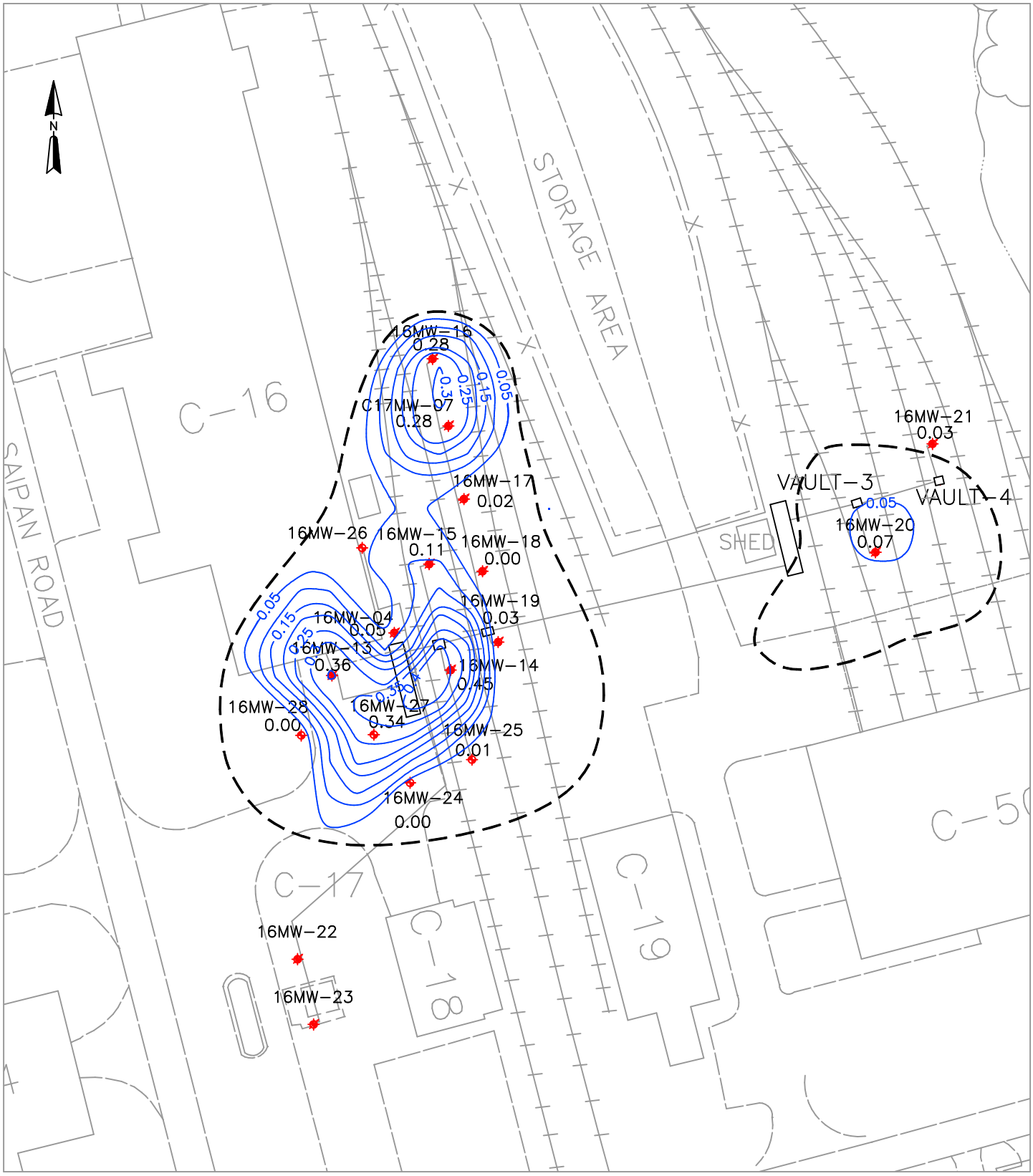
0 40 80
FEET

G:\GISPROJ\EARLE\prod03_28_02.dwg

U.S. Navy RAC
NWS – Earle, Colts Neck, NJ

Figure 5-2
Product Thickness (ft.) Isopleth
03/28/2002

FOSTER WHEELER ENVIRONMENTAL CORPORATION



Legend

Product plume boundary based on former SCAPs Study

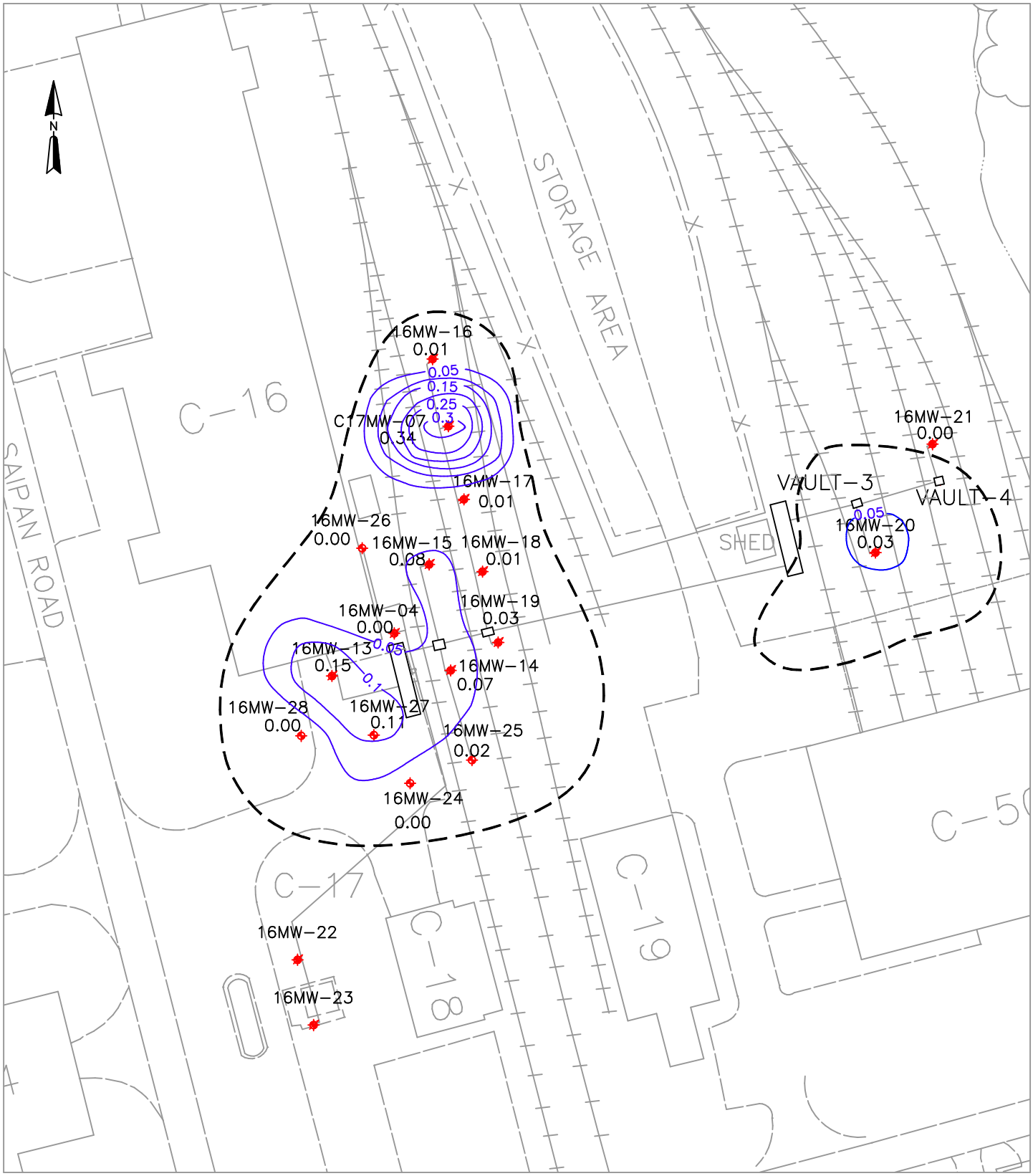
0 40 80
FEET

G:\GISPROJ\EARLE\prod04_23_02.dwg

U.S. Navy RAC
NWS – Earle, Colts Neck, NJ

Figure 5-3
Product Thickness (ft.) Isopleth
04/23/2002

FOSTER WHEELER ENVIRONMENTAL CORPORATION



Legend

Product plume boundary based on former SCAPs Study

0 40 80
FEET

G:\GISPROJ\EARLE\prod06_08_02.dwg

U.S. Navy RAC
NWS – Earle, Colts Neck, NJ

Figure 5-4
Product Thickness (ft.) Isopleth
06/08/2002

FOSTER WHEELER ENVIRONMENTAL CORPORATION

TABLES

TABLE 1
NAVAL WEAPONS STATION-EARLE
BIOSLURPER UNITS
FREE-PHASE OIL EXTRACTION TO DATE

	1998 Free-Phase Oil Extracted (gallons)												Year
	Jan.	Feb.	March	April	May	June	July	August	Sep.	Oct.	Nov.	Dec.	Total
Bioslurper System #1		400	375	275	300	ND	ND	225	250	250	140	225	2440.0
Bioslurper System #2		25	50	50	20	ND	ND	55	30	40	20	30	320.0
Total		425	425	325	320			280	280	290	160	255	2760.0
	1999 Free-Phase Oil Extracted (gallons)												Year
	Jan.	Feb.	March	April	May	June	July	August	Sep.	Oct.	Nov.	Dec.	Total
Bioslurper System #1	220	50	125	65	ND	ND	ND	34	ND	ND	66	ND	560.0
Bioslurper System #2	20	15	15	10	ND	ND	ND	14	ND	ND	14	ND	68.0
Total	240	65	140	75				48			80		648.0
	2000 Free-Phase Oil Extracted (gallons)												Year
	Jan.	Feb.	March	April	May	June	July	August	Sep.	Oct.	Nov.	Dec.	Total
Bioslurper System #1	30	60	78	57	10	15	32	43	57	55	33	32	502.0
Bioslurper System #2	ND	ND	ND	ND	ND	24	1	5	4	0	ND	0	34.0
Total	30	60	78	57	10	39	33	48	61	55	33	32	536.0
	2001 Free-Phase Oil Extracted (gallons)												Year
	Jan.	Feb.	March	April	May	June	July	August	Sep.	Oct.	Nov.	Dec.	Total
Bioslurper System #1	31	45	35	ND	ND	ND	14	48	30	15	30	10	258.0
Bioslurper System #2	ND	4.5	4.5	ND	ND	ND			2	4	0.5	0	15.5
Total	31	49.5	39.5	0	0	0	14	48	32	19	30.5	10	273.5
	2002 Free-Phase Oil Extracted (gallons)												Year
	Jan.	Feb.	March	April	May	June	July	August	Sep.	Oct.	Nov.	Dec.	Total
Bioslurper System #1	52	21	11	16	34								134.0
Bioslurper System #2	6	0.5	0.5	5	2								8.0
Total	58	21.5	11.5	21	36	0	0	0	0	0	0	0	148.0

Notes:

ND - no data due to system not in operation

Total Oil extracted to date (g): 4365.5

TABLE 2
NAVAL WEAPONS STATION-EARLE
BIOSLURPER UNITS
GROUNDWATER EXTRACTION TO DATE

	1998 Groundwater Extracted (gallons)												Year
	Jan.	Feb.	March	April	May	June	July	August	Sep.	Oct.	Nov.	Dec.	Total
Bioslurper System #1		2675	26,169	23898	12799	ND	ND	16498	34612	29974	20503	40611	207739
Bioslurper System #2		5282	20,586	22607	6584	ND	ND	13537	14451	27850	16196	9141	136234
Total		7957	46755	46505	19383			30035	49063	57824	36699	49752	343973
	1999 Groundwater Extracted (gallons)												Year
	Jan.	Feb.	March	April	May	June	July	August	Sep.	Oct.	Nov.	Dec.	Total
Bioslurper System #1	35078	6536	49834	40889	ND	ND	ND	7321	ND	ND	ND	ND	139658
Bioslurper System #2	8843	536	12956		ND	ND	ND		ND	ND	ND	ND	13492
Total	43921	7072	62790	40889	ND	ND	ND	7321	ND	ND	ND	ND	161993
	2000 Groundwater Extracted (gallons)												Year
	Jan.	Feb.	March	April	May	June	July	August	Sep.	Oct.	Nov.	Dec.	Total
Bioslurper System #1	3393	4618	9842	10945	2764	14112	19758	23298	36900	31669	27785	30231	215315
Bioslurper System #2	ND	ND	ND	ND	ND	2976	5549	17704	21156	21588	ND	20848	89821
Total	3393	4618	9842	10945	2764	17088	25307	41002	58056	53257	27785	51079	305136
	2001 Groundwater Extracted (gallons)												Year
	Jan.	Feb.	March	April	May	June	July	August	Sep.	Oct.	Nov.	Dec.	Total
Bioslurper System #1	25897	30981	33832				2812	12136	7669	1665	4635	3080	122707
Bioslurper System #2	ND	15852	19914						2967	6814	1277	345	47169
Total	25897	46833	53746	0	0	0	2812	12136	10636	8479	5912	3425	169876
	2002 Groundwater Extracted (gallons)												Year
	Jan.	Feb.	March	April	May	June	July	August	Sep.	Oct.	Nov.	Dec.	Total
Bioslurper System #1	13137	9292	16151	12749	24926								76255
Bioslurper System #2	1095	1224	5726	7639	7727								23411
Total	14232	10516	21877	20388	32653	0	0	0	0	0	0	0	99666

Total Groundwater Extracted to Date = 1,080,644

TABLE 3
NAVAL WEAPONS STATION-EARLE
BIOSLURPER UNITS
TOTAL PETROLEUM HYDROCARBON (TPH)
REMOVED VIA GROUNDWATER TREATMENT

	1998 TPH Removed via Groundwater Treatment (pounds)												Year
	Jan.	Feb.	March	April	May	June	July	August	Sep.	Oct.	Nov.	Dec.	Total
Bioslurper System #1		60.75	125.14	306.42	135.56	ND	ND	47.30		175.99	179.16	192.96	1223.28
Bioslurper System #2		4.25	14.17	32.40	9.61	ND	ND		13.99	2.37	4.26	11.48	92.53
Total		65.00	139.31	338.82	145.17	ND	ND	47.30	13.99	178.36	183.42	204.44	1315.81
	1999 TPH Removed via Groundwater Treatment (pounds)												Year
	Jan.	Feb.	March	April	May	June	July	August	Sep.	Oct.	Nov.	Dec.	Total
Bioslurper System #1	60.48	56.18	394.28	285.29	ND	ND	ND	ND	ND	ND	0.29	ND	796.52
Bioslurper System #2	3.84	0.21	29.30	15.20	ND	ND	ND	ND	ND	ND	0.01	ND	44.72
Total	64.32	56.39	423.58	300.49	ND	ND	ND	ND	ND	ND	0.30	ND	845.08
	2000 TPH Removed via Groundwater Treatment (pounds)												Year
	Jan.	Feb.	March	April	May	June	July	August	Sep.	Oct.	Nov.	Dec.	Total
Bioslurper System #1	8.58	ND	17.20	30.99	ND	31.80	18.14	ND	95.47	160.86	92.04	327.49	782.56
Bioslurper System #2	0.01	ND	ND	ND	ND	0.11	0.40	ND	2.63	37.55	ND	21.71	62.39
Total	8.59	ND	17.20	30.99	0.00	31.91	18.53	ND	98.10	198.40	92.04	ND	844.95
	2001 TPH Removed via Groundwater Treatment (pounds)												Year
	Jan.	Feb.	March	April	May	June	July	August	Sep.	Oct.	Nov.	Dec.	Total
Bioslurper System #1	34.31	45.04	50.54	ND	ND	ND	0.07	52.80	2.61	2.25	2.97	10.82	201.42
Bioslurper System #2	ND	8.59	59.43	ND	ND	ND	ND	ND	1.12	3.73	0.13	0.01	73.01
Total	34.31	49.65	109.97	0.00	0.00	0.00	0.07	52.80	3.73	5.98	3.10	ND	197.91
	2002 TPH Removed via Groundwater Treatment (pounds)												Year
	Jan.	Feb.	March	April	May	June	July	August	Sep.	Oct.	Nov.	Dec.	Total
Bioslurper System #1	40.35	21.35	13.51	35.86	21.58								132.65
Bioslurper System #2	2.40	0.18	4.68	0.75	5.08								10.69
Total	42.75	21.53	18.19	36.61	26.66	0.00	0.00	ND	0.00	0.00	0.00	ND	197.91

Pounds of TPH Removed via Groundwater Treatment to Date = 3203.75

Notes:

ND - no data due to system not inoperation

Pounds of TPH: Influent - effluent concentration (mg/l) x 3.785 l/gal x 0.001 g/mg x 0.002205 lb/g x monthly effluent (gal) = lbs TPH

TABLE 4
NAVAL WEAPONS STATION-EARLE
BIOSLURPER UNITS NO. 1 AND NO. 2
TOTAL PETROLEUM HYDROCARBON (TPH)
EFFLUENT CONCENTRATIONS (mg/l)

Effluent Sample Date	Unit No. 1		Unit No. 2	
	Before Clay/Carbon	After Clay/Carbon	Before Clay/Carbon	After Clay/Carbon
02/29/00	<0.5	<0.5	NA	NA
04/04/00	210	0.57	NA	NA
04/28/00	16(A)EW00W5	16(A)EW00W6		
	340	0.68	NA	NA
06/19/00	270	<1.0	4.4	<1.0
07/21/00	16(A)EW00W10	16(A)EW00W09	16(B)EW00W05	16(B)EW00W06
	110	<1.0	8.7	<1.0
09/07/00	16(A)EW11	16(A)EW12	16(B)EW07	16(B)EW08
	310	5.1	18	3.1
10/30/00	16(A)EW13	16(A)EW14	16(B)EW09	16(B)EW10
	610	1.4	210	1.6
11/30/00	16(A)EW15	16(A)EW16	16(B)EW11	16(B)EW12
	400	3.1	220	2
12/28/00	16(A)EW17	16(A)EW18	16(B)EW13	16(B)EW14
	1300	2.4	130 l	2.6
01/29/01	16(A)EW19	16(A)EW20	16(B)EW15	16(B)EW16
	210	1.6	75	1.6
02/27/01	16(A)EW21	16(A)EW22	16(B)EW17	16(B)EW18
	160	1.2	67	2.1
03/30/01	16(A)EW23	16(A)EW24	16(B)EW19	16(B)EW20
	180	1	360	2.4
07/31/01	16(A)EW24	16(A)EW25	NA	NA
	3.1	0.018	NA	NA
08/29/01	16(A)EW27	16(A)EW28	NA	NA
	187	<0.068	NA	NA
09/30/01	16(A)EW27	16(A)EW28	16(B)EW19	16(B)EW20
	40.8	<0.068	45.3	<0.067
10/31/01	16(A)EW31	16(A)EW32	16(B)EW01	16(B)EW02
	50	<0.07	65.7	<0.066
11/30/01	16(A)EW33	16(A)EW34	16(B)EW05	16(B)EW06
	76.9	0.18	12	<.20
01/09/02	16(A)EW35	16(A)EW36	16(B)EW07	16(B)EW08
	421	<0.066	2.3	<0.066
01/31/02	16(A)EW31	16(A)EW32	16(B)EW01	16(B)EW02
	368	<0.066	22.1	<0.066
02/27/02	16(A)EW39	16(A)EW40	16(B)EW11	16(B)EW12
	276	0.7	17.6	
02/28/02	16(A)EW41	16(A)EW42	16(B)EW13	16(B)EW14
	101	0.81	98.1	0.19
04/23/02	16(A)EW43	16(A)EW44	16(B)EW15	0.24
	338	0.96	12	0.19
05/29/02	16(A)EW45	16(A)EW46	16(B)EW17	16(B)EW18
	104	0.28	78.9	0.076

Notes:

All units are mg/l

The NWS-Earle Sewer Treatment Plant NJPDES Permit Discharge Limit for TPH is 10 ppm.

ND = not detected above the laboratory detection limit.

NA = not applicable (no sample collected)

APPENDIX A
GRAPHS OF OIL/WATER EXTRACTED TO DATE

BIOSLURPER UNIT 1 OIL/WATER RECOVERED VERSUS OPERATIONAL TIME

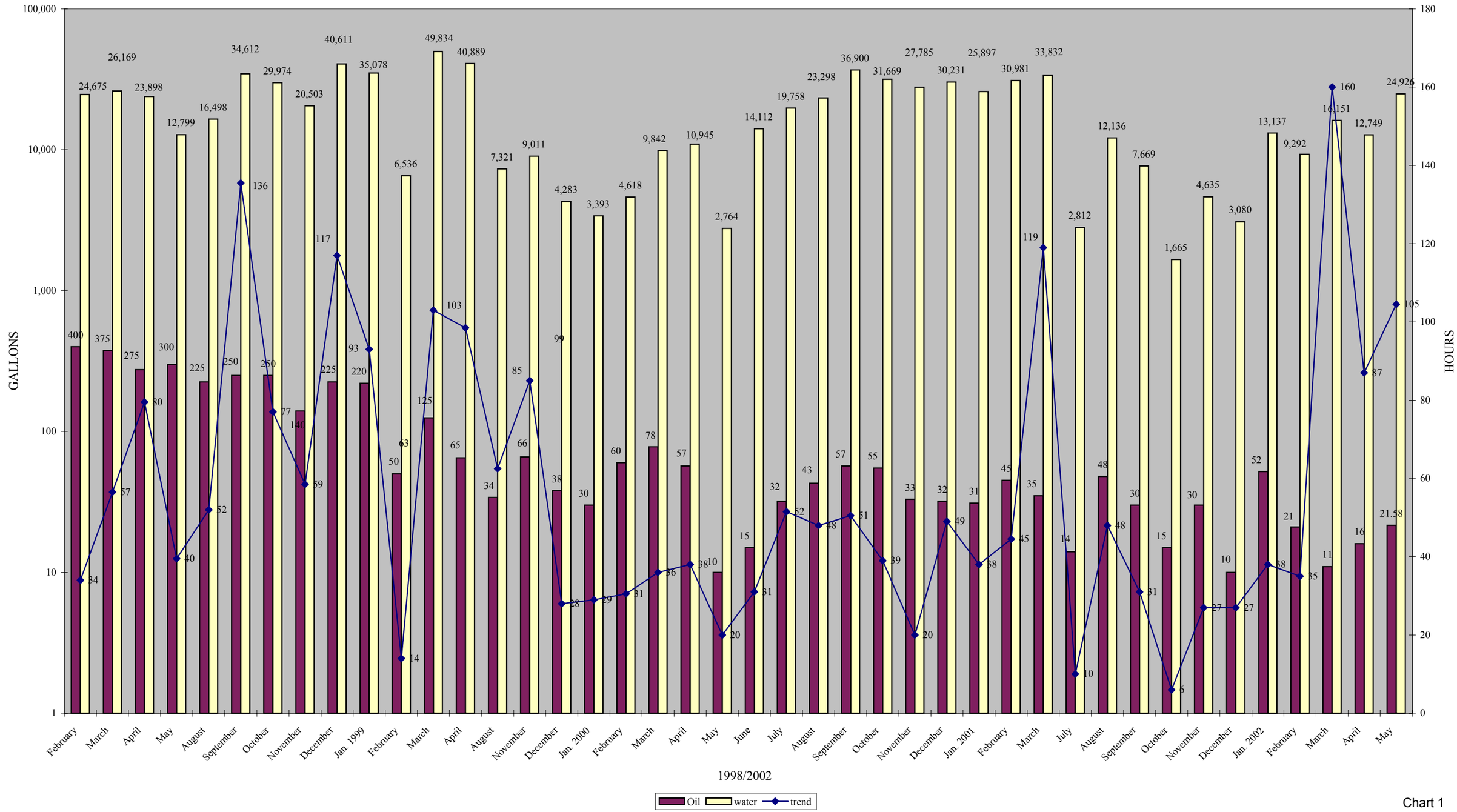


Chart 1
BIOS 1 Chart

BIOSLURPER UNIT 2 OIL/WATER RECOVERED VERSUS OPERATIONAL TIME

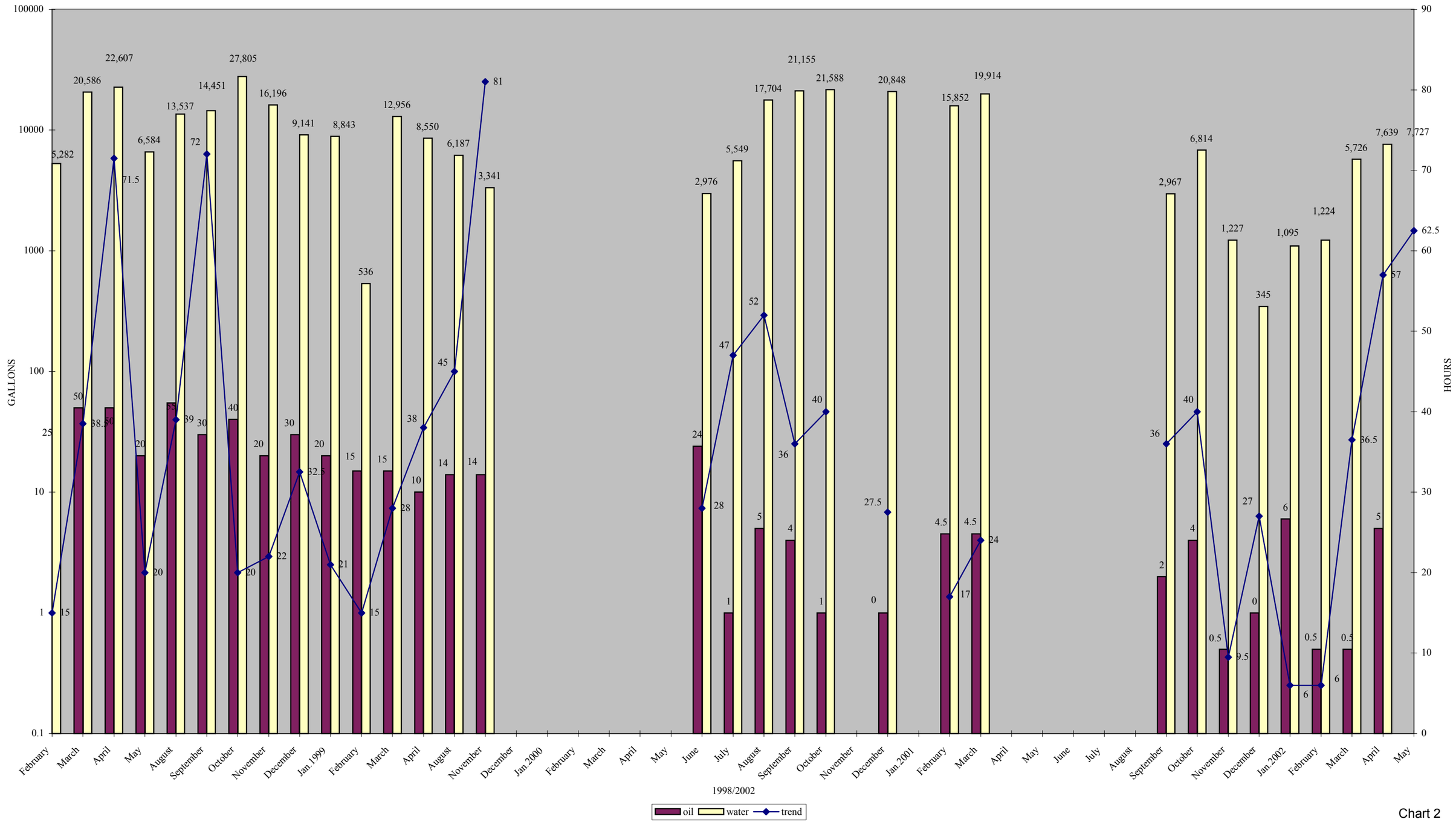
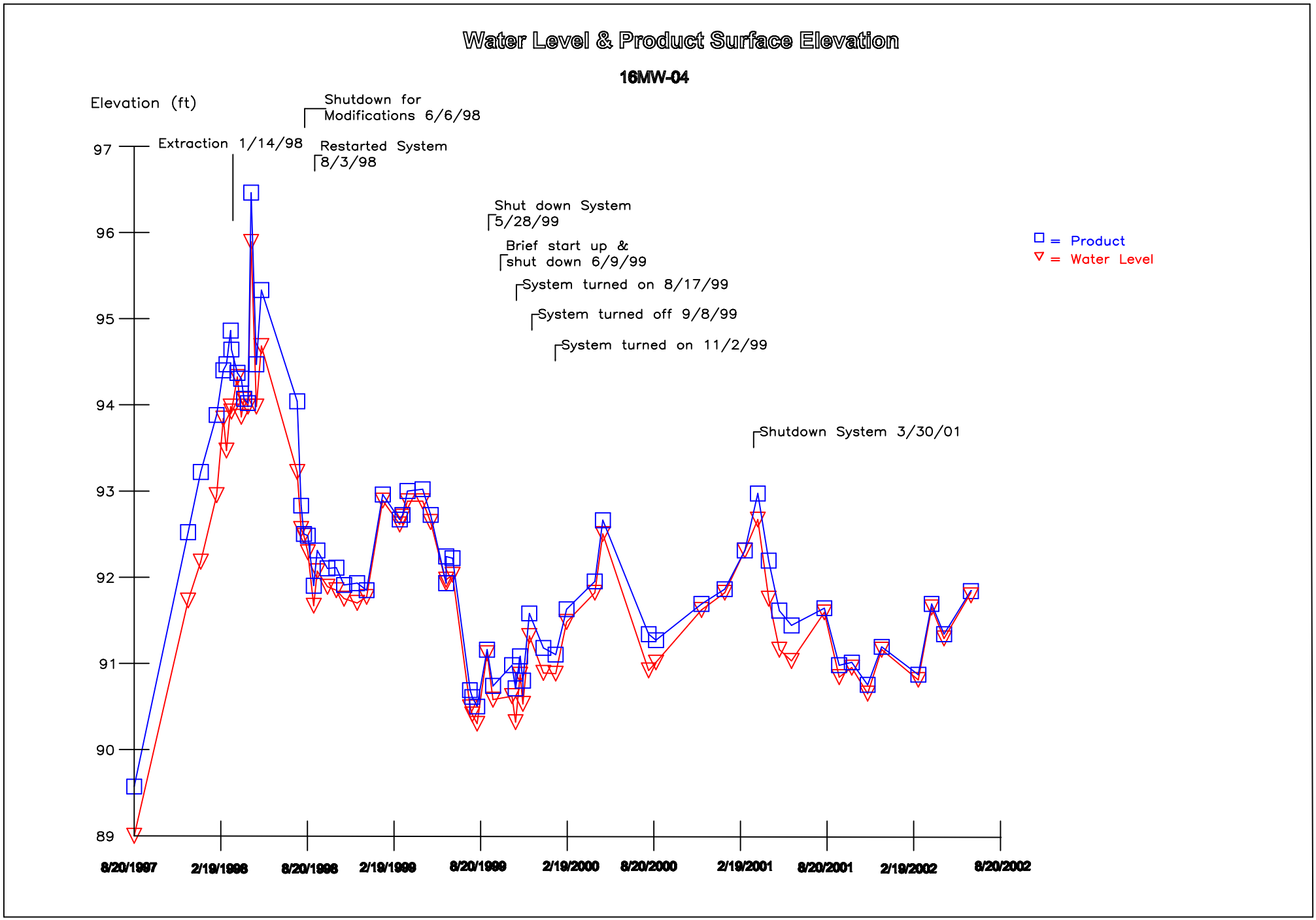
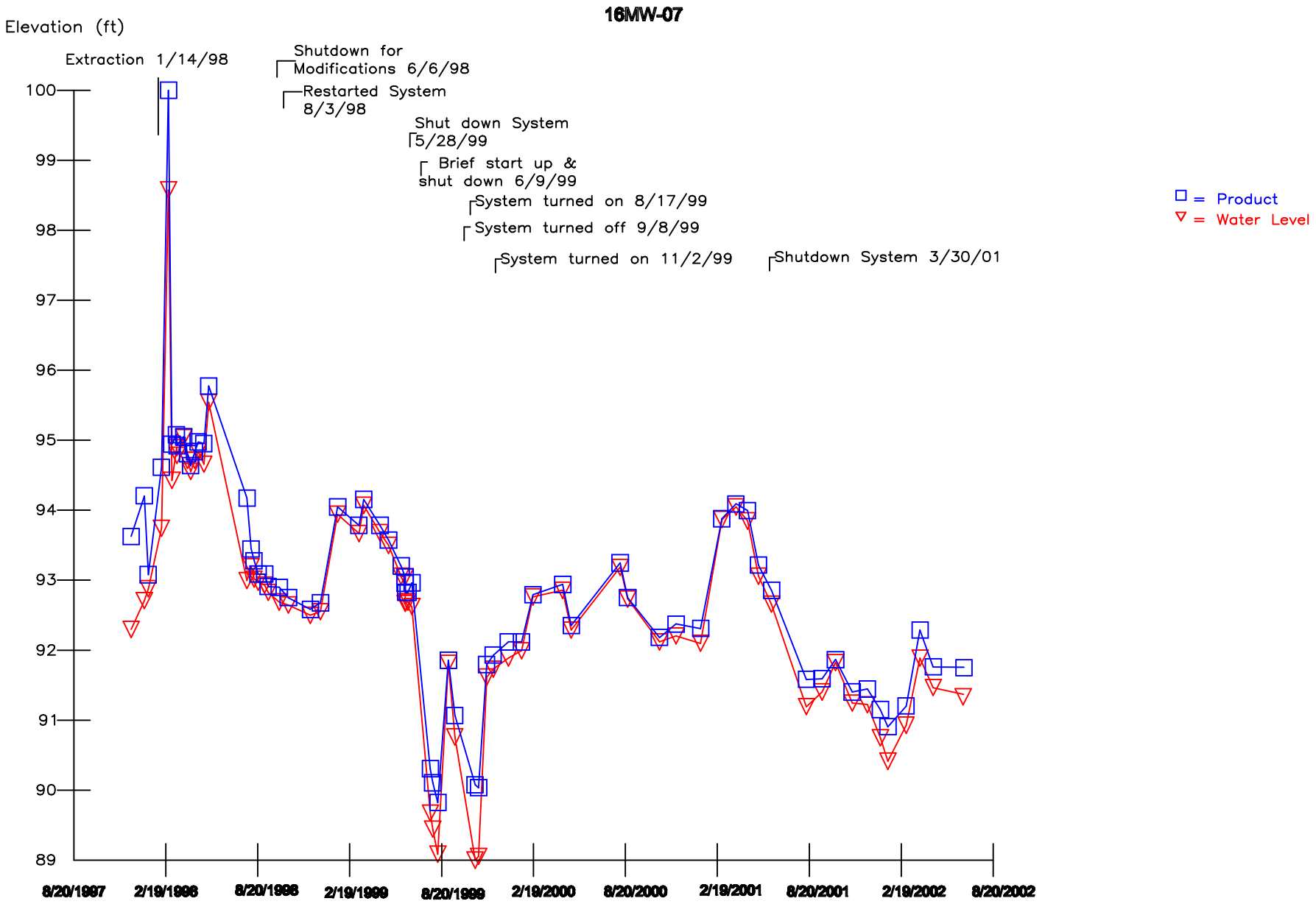
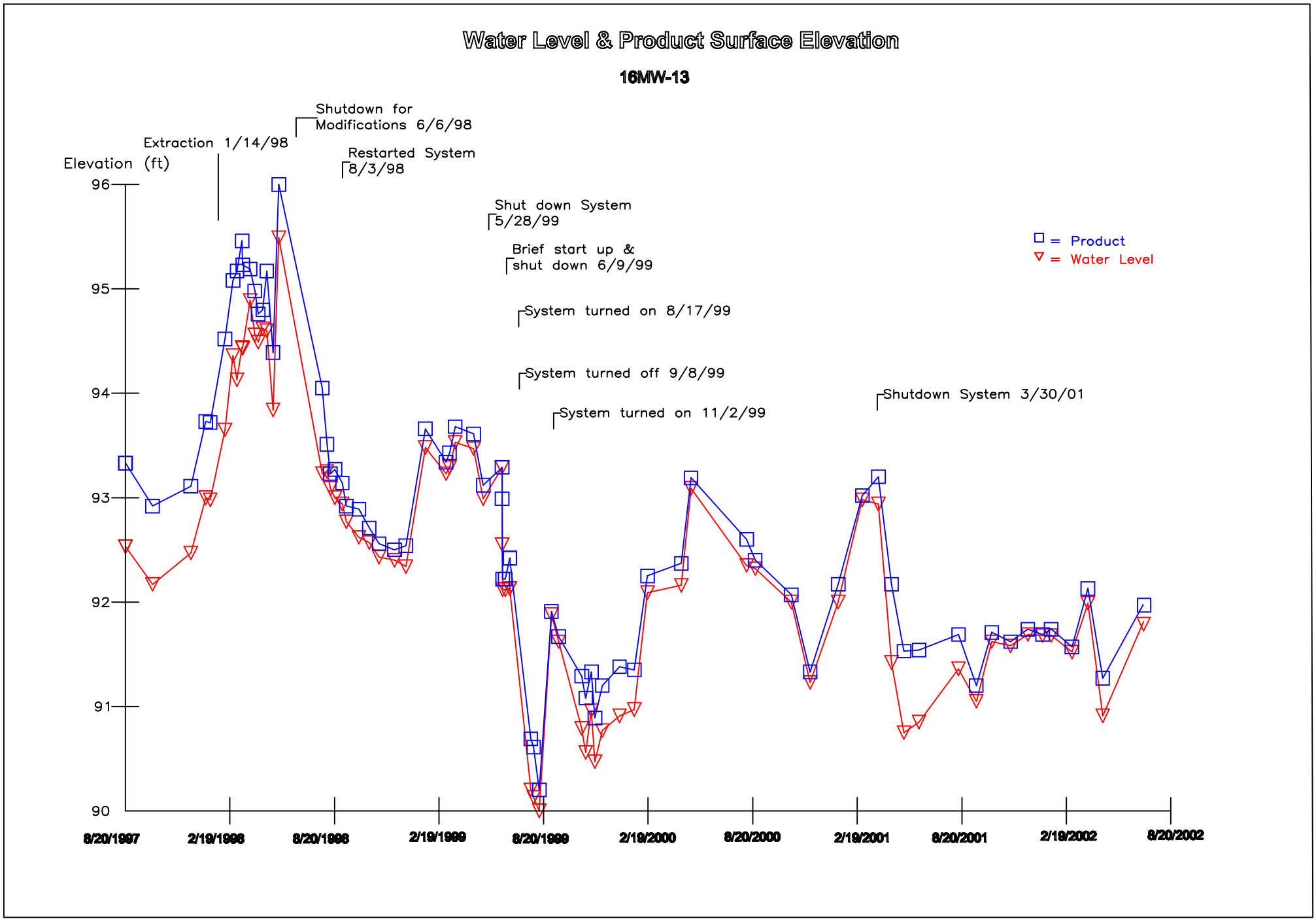


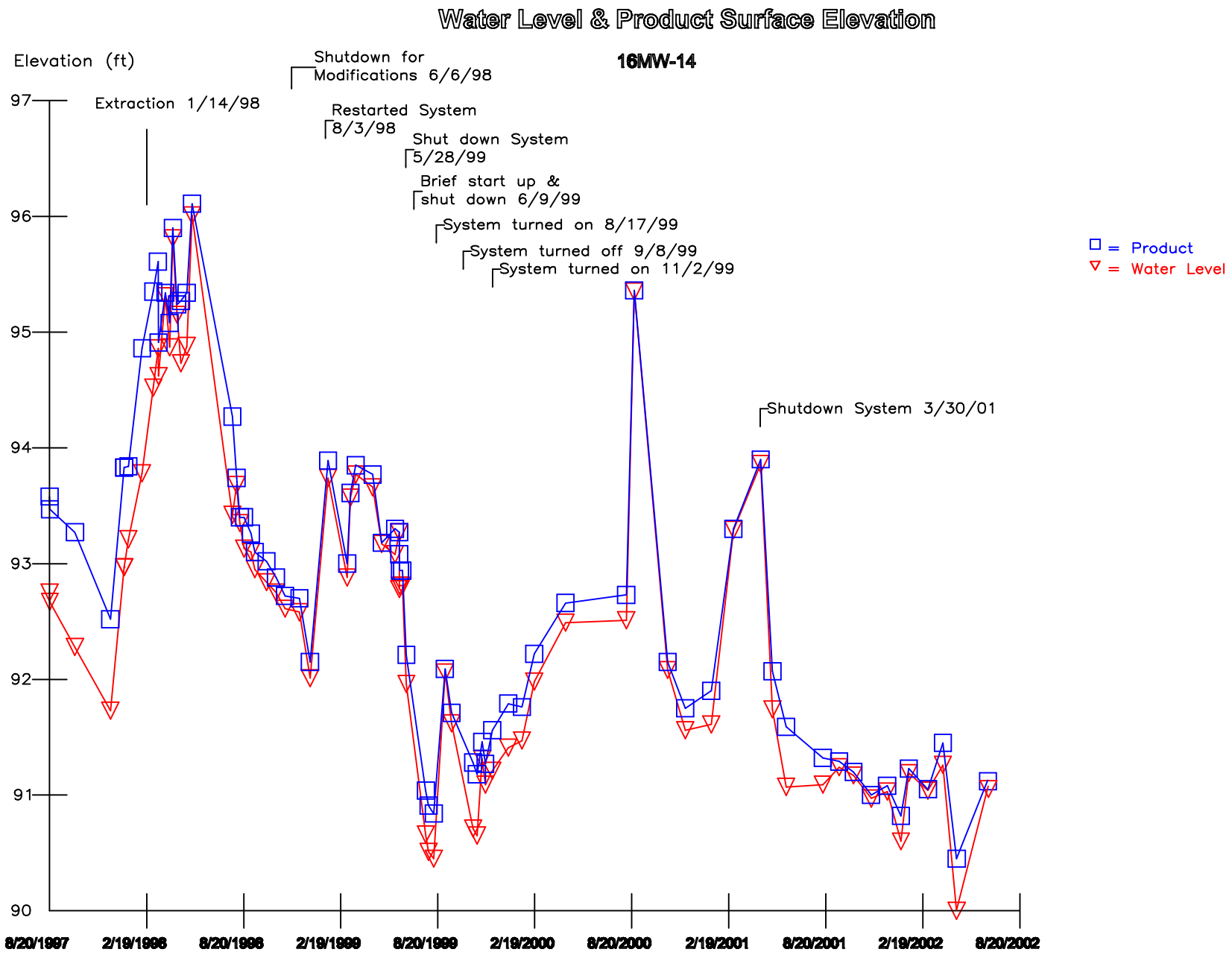
Chart 2
BIOS 2 Chart

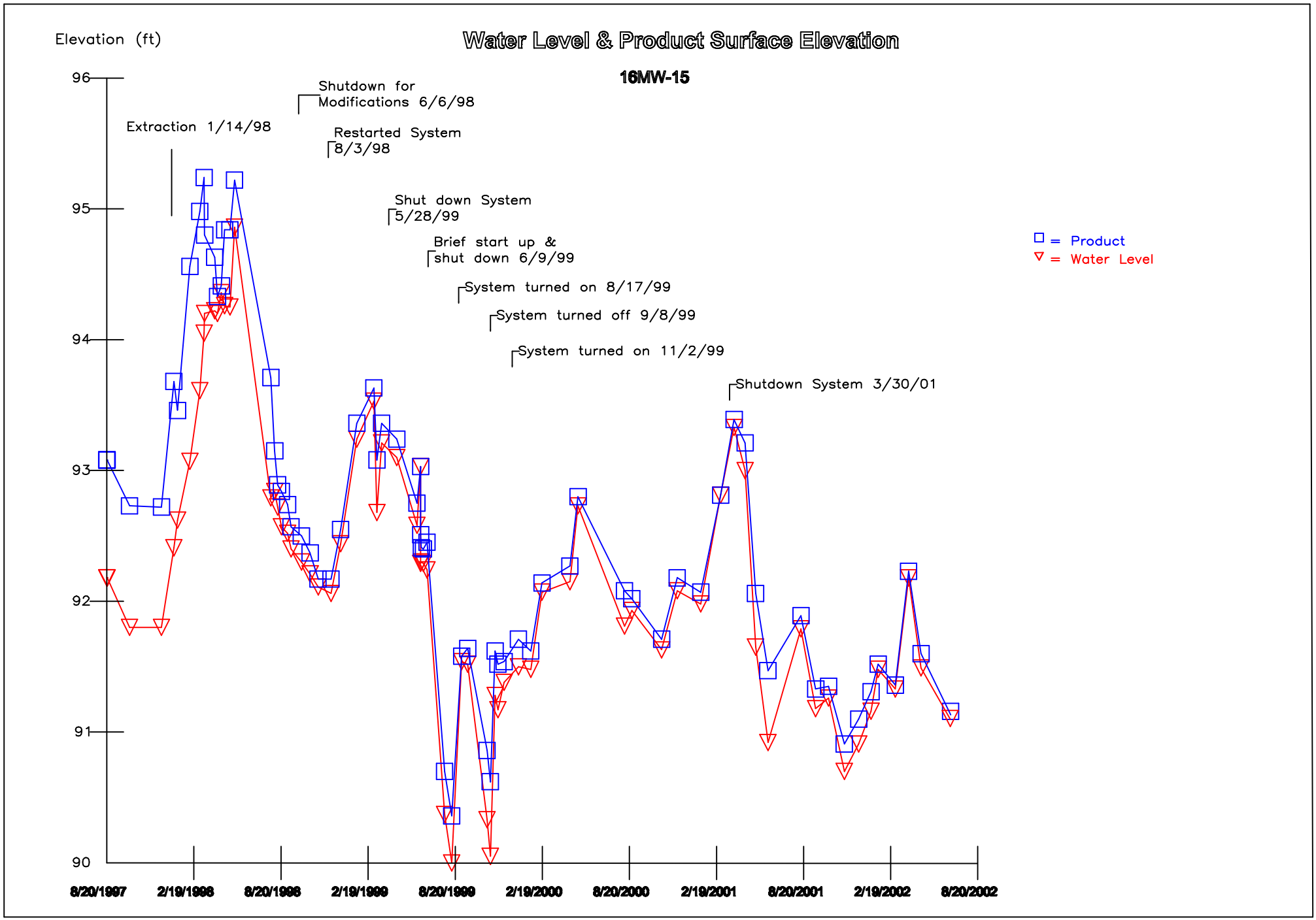
APPENDIX B
GRAPHS OF WATER LEVELS AND PRODUCT THICKNESS DATA FROM EXTRACTION WELLS

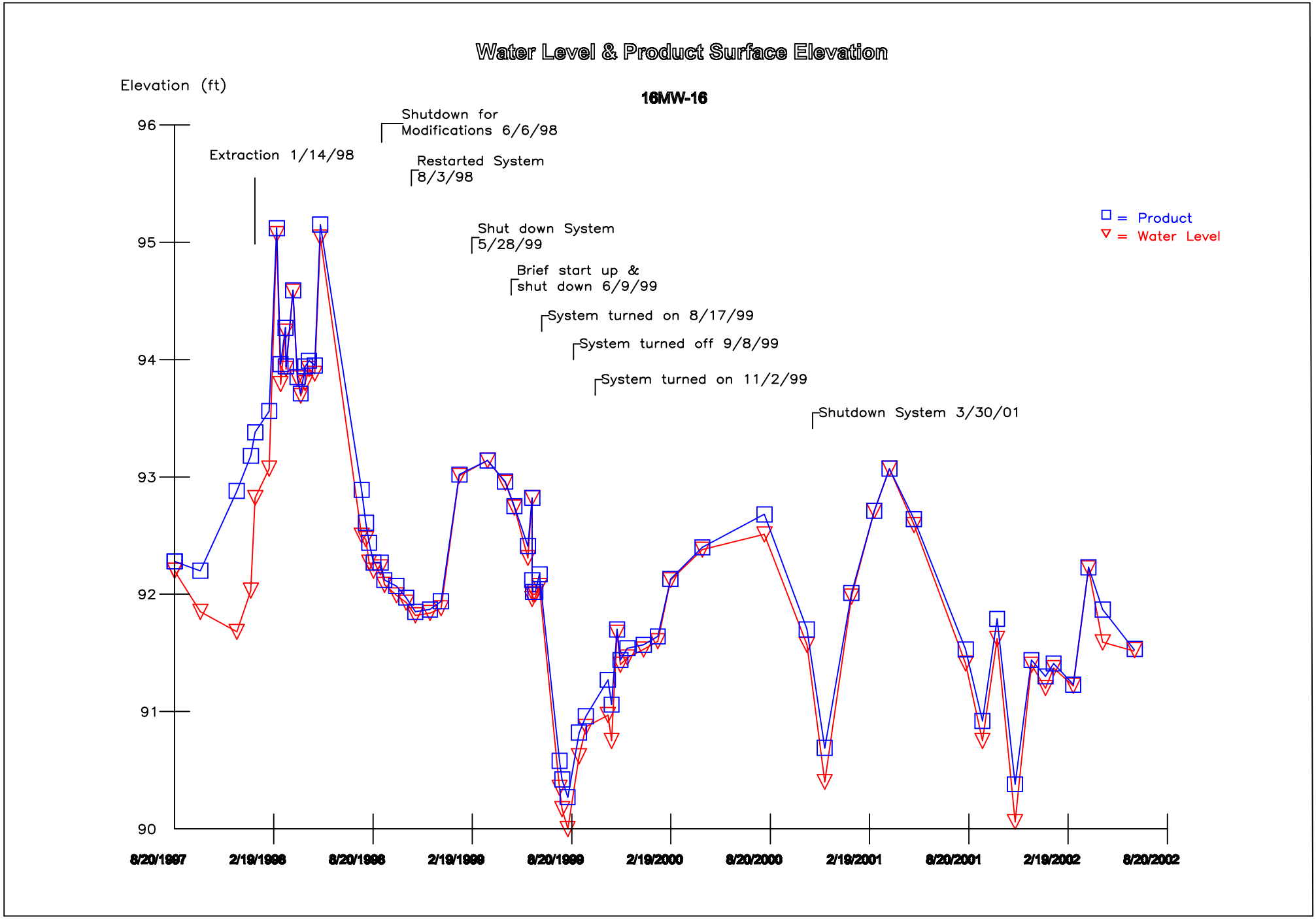

Water Level & Product Surface Elevation
16MW-04
Elevation (ft)
97
96
95
94
93
92
91
90
89
Extraction 1/14/98
Shutdown for Modifications 6/6/98
Restarted System 8/3/98
Shut down System 5/28/99
Brief start up & shut down 6/9/99
System turned on 8/17/99
System turned off 9/8/99
System turned on 11/2/99
Shutdown System 3/30/01
= Product
= Water Level
8/20/1997
2/19/1998
8/20/1998
2/19/1999
8/20/1999
2/19/2000
8/20/2000
2/19/2001
8/20/2001
2/19/2002
8/20/2002

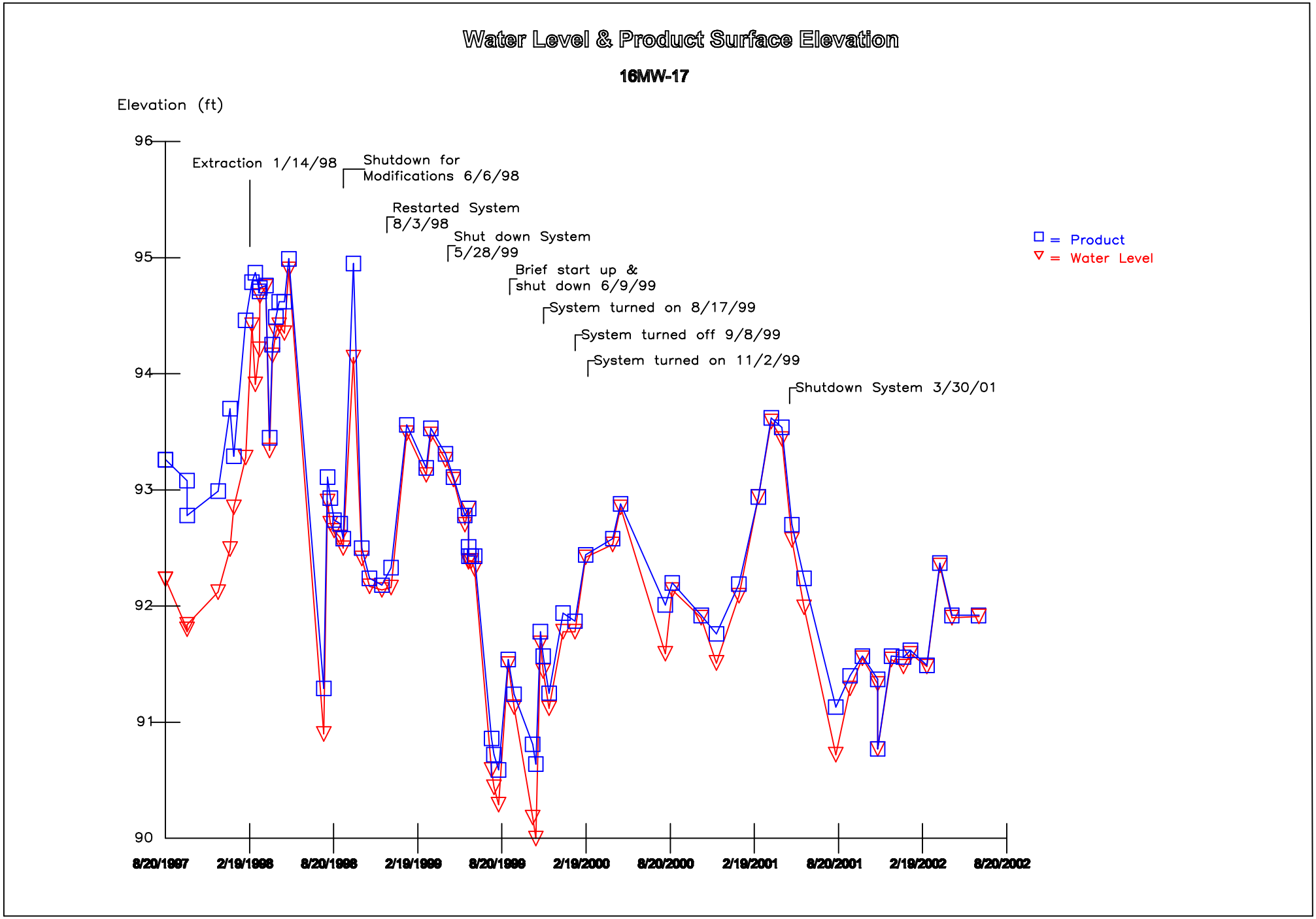

Water Level & Product Surface Elevation
16MW-07
Elevation (ft)
Extraction 1/14/98
Shutdown for Modifications 6/6/98
Restarted System 8/3/98
Shut down System 5/28/99
Brief start up & shut down 6/9/99
System turned on 8/17/99
System turned off 9/8/99
System turned on 11/2/99
Shutdown System 3/30/01
= Product
= Water Level
100
99
98
97
96
95
94
93
92
91
90
89
8/20/1997
2/19/1998
8/20/1998
2/19/1999
8/20/1999
2/19/2000
8/20/2000
2/19/2001
8/20/2001
2/19/2002
8/20/2002

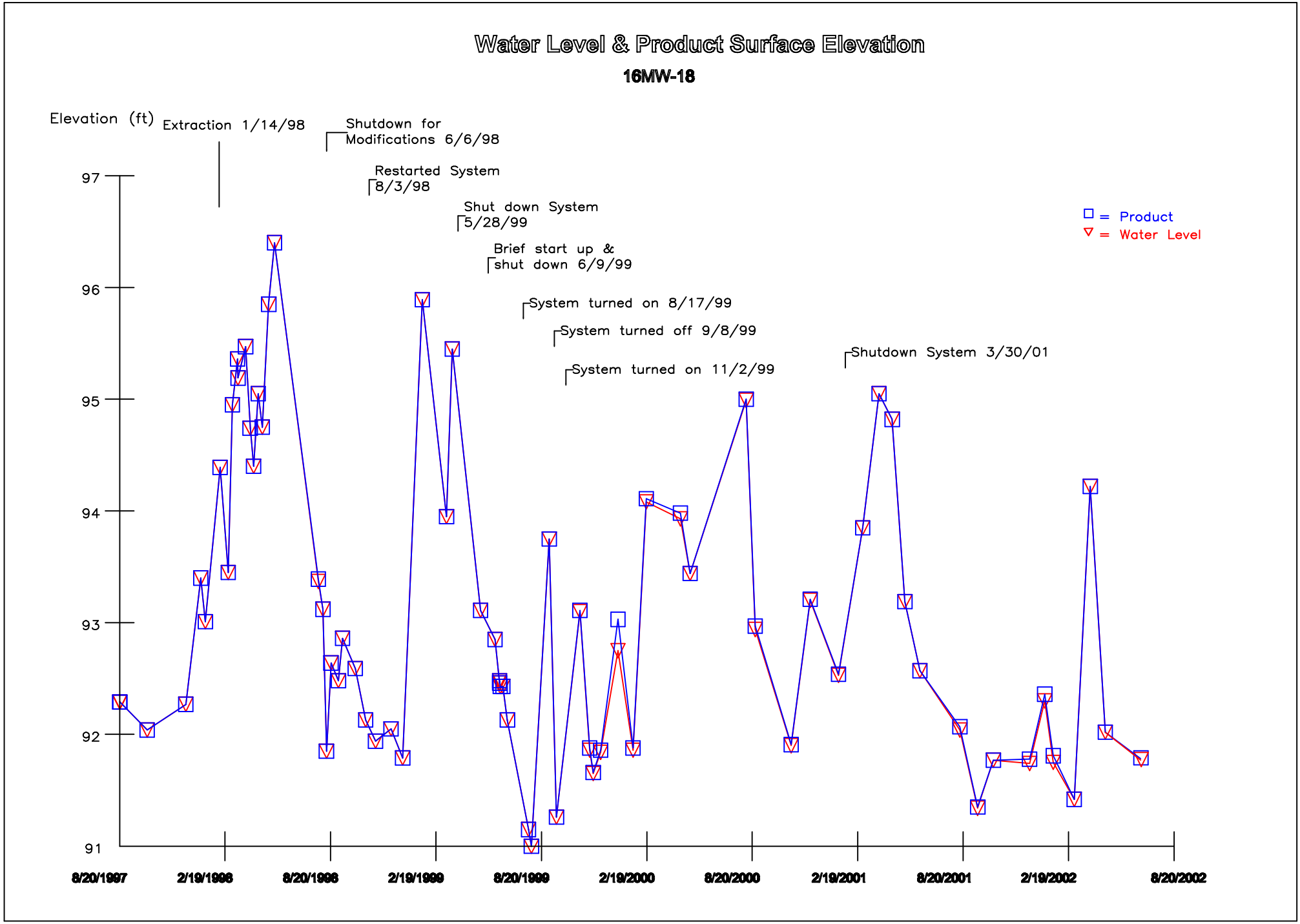

Water Level & Product Surface Elevation
16MW-13
Elevation (ft)
96
95
94
93
92
91
90
Extraction 1/14/98
Shutdown for Modifications 6/6/98
Restarted System 8/3/98
Shut down System 5/28/99
Brief start up & shut down 6/9/99
System turned on 8/17/99
System turned off 9/8/99
System turned on 11/2/99
Shutdown System 3/30/01
= Product
= Water Level
8/20/1997
2/19/1998
8/20/1998
2/19/1999
8/20/1999
2/19/2000
8/20/2000
2/19/2001
8/20/2001
2/19/2002
8/20/2002

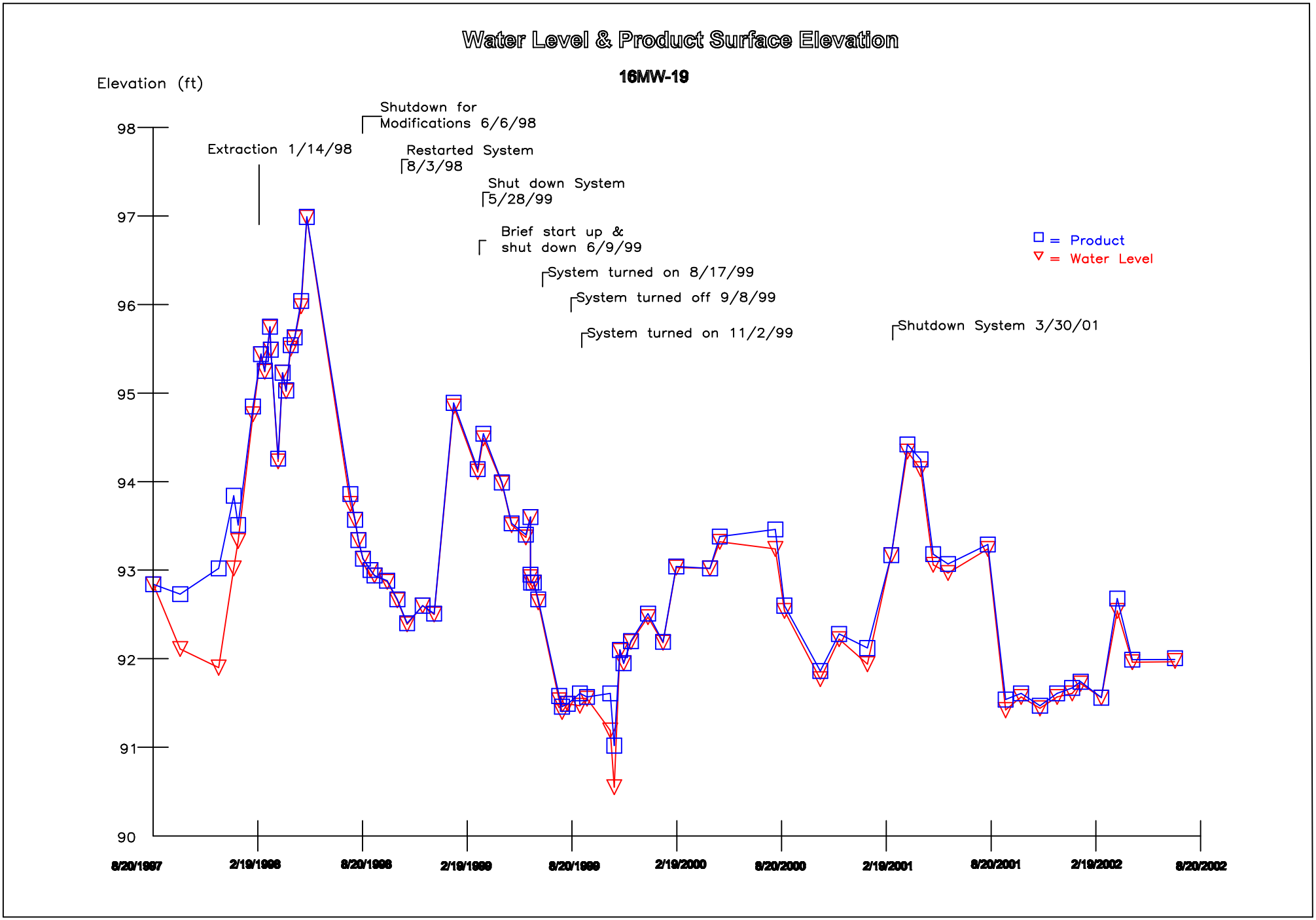

Water Level & Product Surface Elevation
16MW-14
Elevation (ft)
97
96
95
94
93
92
91
90
Extraction 1/14/98
Shutdown for Modifications 6/6/98
Restarted System 8/3/98
Shut down System 5/28/99
Brief start up & shut down 6/9/99
System turned on 8/17/99
System turned off 9/8/99
System turned on 11/2/99
Shutdown System 3/30/01
= Product
= Water Level
8/20/1997
2/19/1998
8/20/1998
2/19/1999
8/20/1999
2/19/2000
8/20/2000
2/19/2001
8/20/2001
2/19/2002
8/20/2002

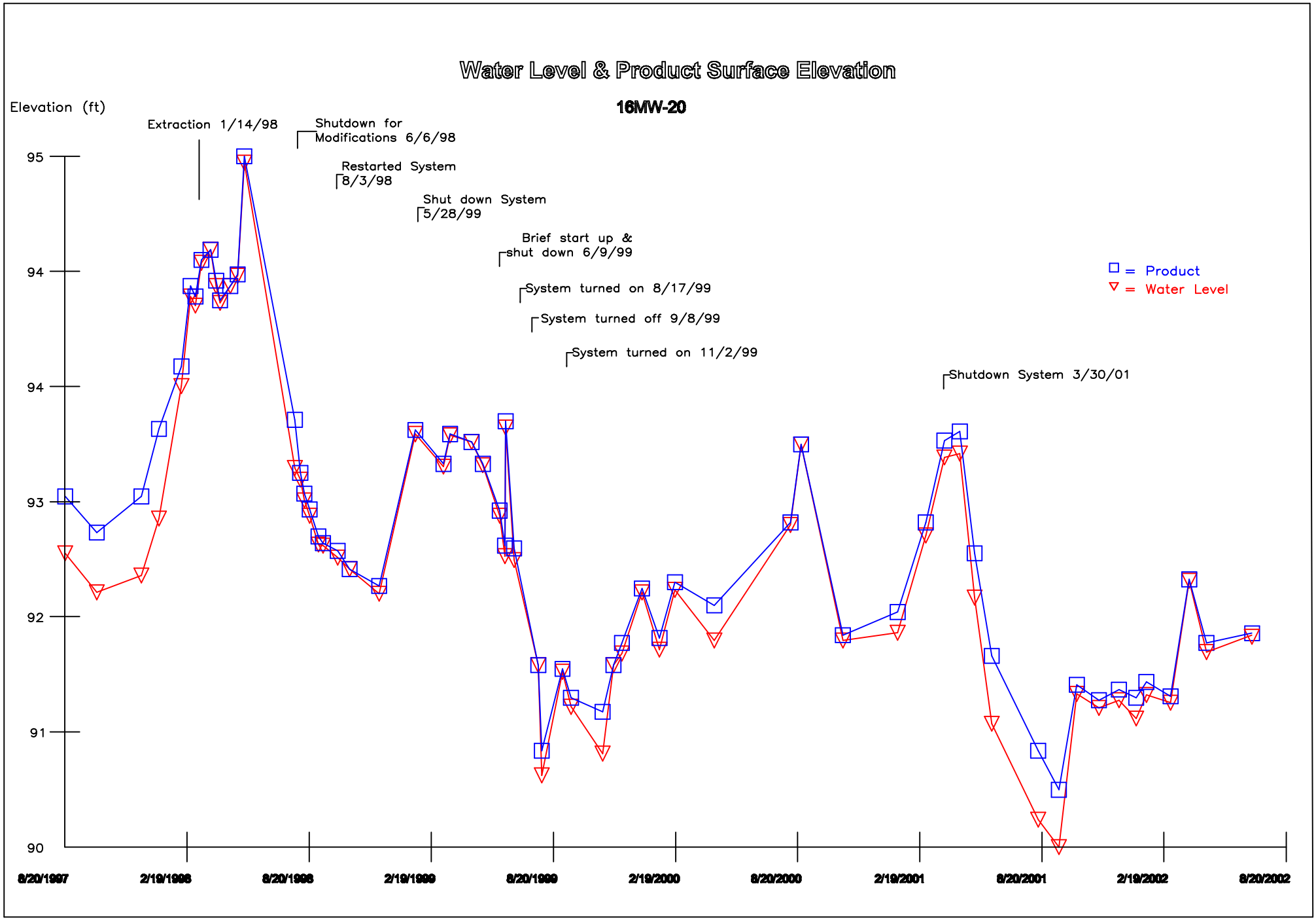

Water Level & Product Surface Elevation
16MW-15
Elevation (ft)
96
95
94
93
92
91
90
Extraction 1/14/98
Shutdown for Modifications 6/6/98
Restarted System 8/3/98
Shut down System 5/28/99
Brief start up & shut down 6/9/99
System turned on 8/17/99
System turned off 9/8/99
System turned on 11/2/99
Shutdown System 3/30/01
= Product
= Water Level
8/20/1997
2/19/1998
8/20/1998
2/19/1999
8/20/1999
2/19/2000
8/20/2000
2/19/2001
8/20/2001
2/19/2002
8/20/2002

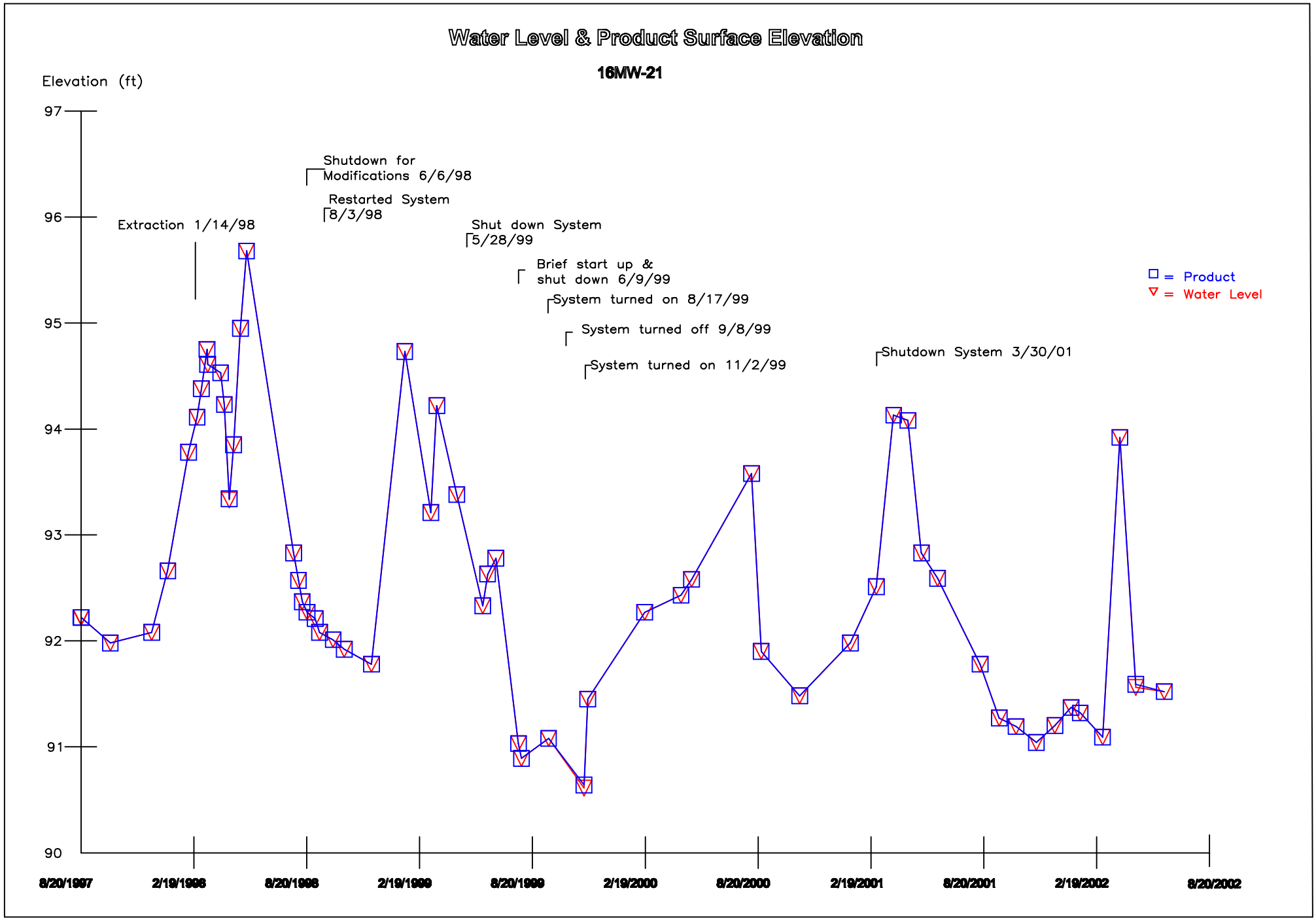

Water Level & Product Surface Elevation
16MW-16
Elevation (ft)
96
95
94
93
92
91
90
Extraction 1/14/98
Shutdown for Modifications 6/6/98
Restarted System 8/3/98
Shut down System 5/28/99
Brief start up & shut down 6/9/99
System turned on 8/17/99
System turned off 9/8/99
System turned on 11/2/99
Shutdown System 3/30/01
= Product
= Water Level
8/20/1997
2/19/1998
8/20/1998
2/19/1999
8/20/1999
2/19/2000
8/20/2000
2/19/2001
8/20/2001
2/19/2002
8/20/2002


Water Level & Product Surface Elevation
16MW-17
Elevation (ft)
96
95
94
93
92
91
90
Extraction 1/14/98
Shutdown for Modifications 6/6/98
Restarted System 8/3/98
Shut down System 5/28/99
Brief start up & shut down 6/9/99
System turned on 8/17/99
System turned off 9/8/99
System turned on 11/2/99
Shutdown System 3/30/01
= Product
= Water Level
8/20/1997
2/19/1998
8/20/1998
2/19/1999
8/20/1999
2/19/2000
8/20/2000
2/19/2001
8/20/2001
2/19/2002
8/20/2002


Water Level & Product Surface Elevation
16MW-18
Elevation (ft)
97
96
95
94
93
92
91
Extraction 1/14/98
Shutdown for Modifications 6/6/98
Restarted System 8/3/98
Shut down System 5/28/99
Brief start up & shut down 6/9/99
System turned on 8/17/99
System turned off 9/8/99
System turned on 11/2/99
Shutdown System 3/30/01
= Product
= Water Level
8/20/1997
2/19/1998
8/20/1998
2/19/1999
8/20/1999
2/19/2000
8/20/2000
2/19/2001
8/20/2001
2/19/2002
8/20/2002

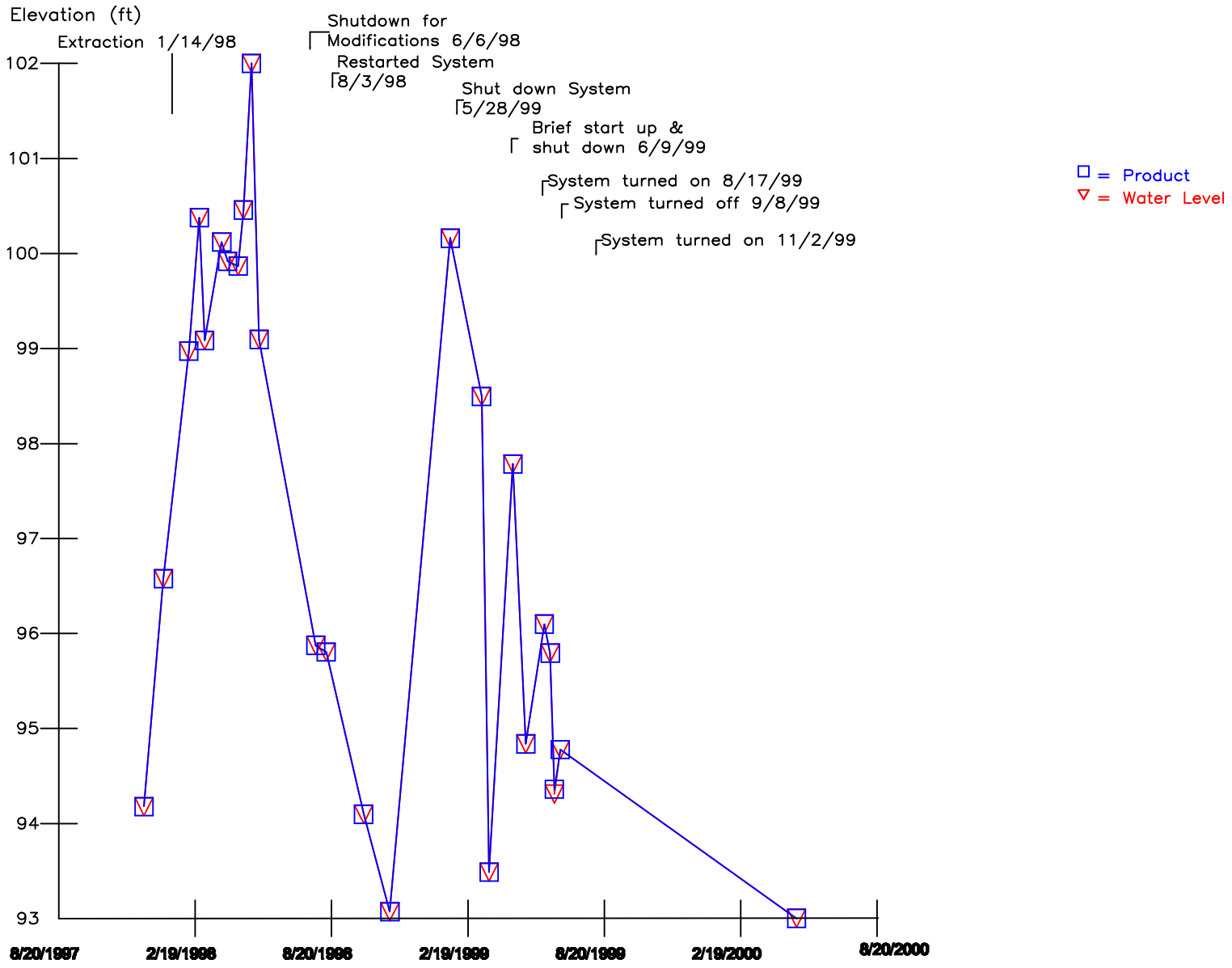

Water Level & Product Surface Elevation
16MW-19
Elevation (ft)
98
97
96
95
94
93
92
91
90
Extraction 1/14/98
Shutdown for Modifications 6/6/98
Restarted System 8/3/98
Shut down System 5/28/99
Brief start up & shut down 6/9/99
System turned on 8/17/99
System turned off 9/8/99
System turned on 11/2/99
Shutdown System 3/30/01
= Product
= Water Level
8/20/1997
2/19/1998
8/20/1998
2/19/1999
8/20/1999
2/19/2000
8/20/2000
2/19/2001
8/20/2001
2/19/2002
8/20/2002

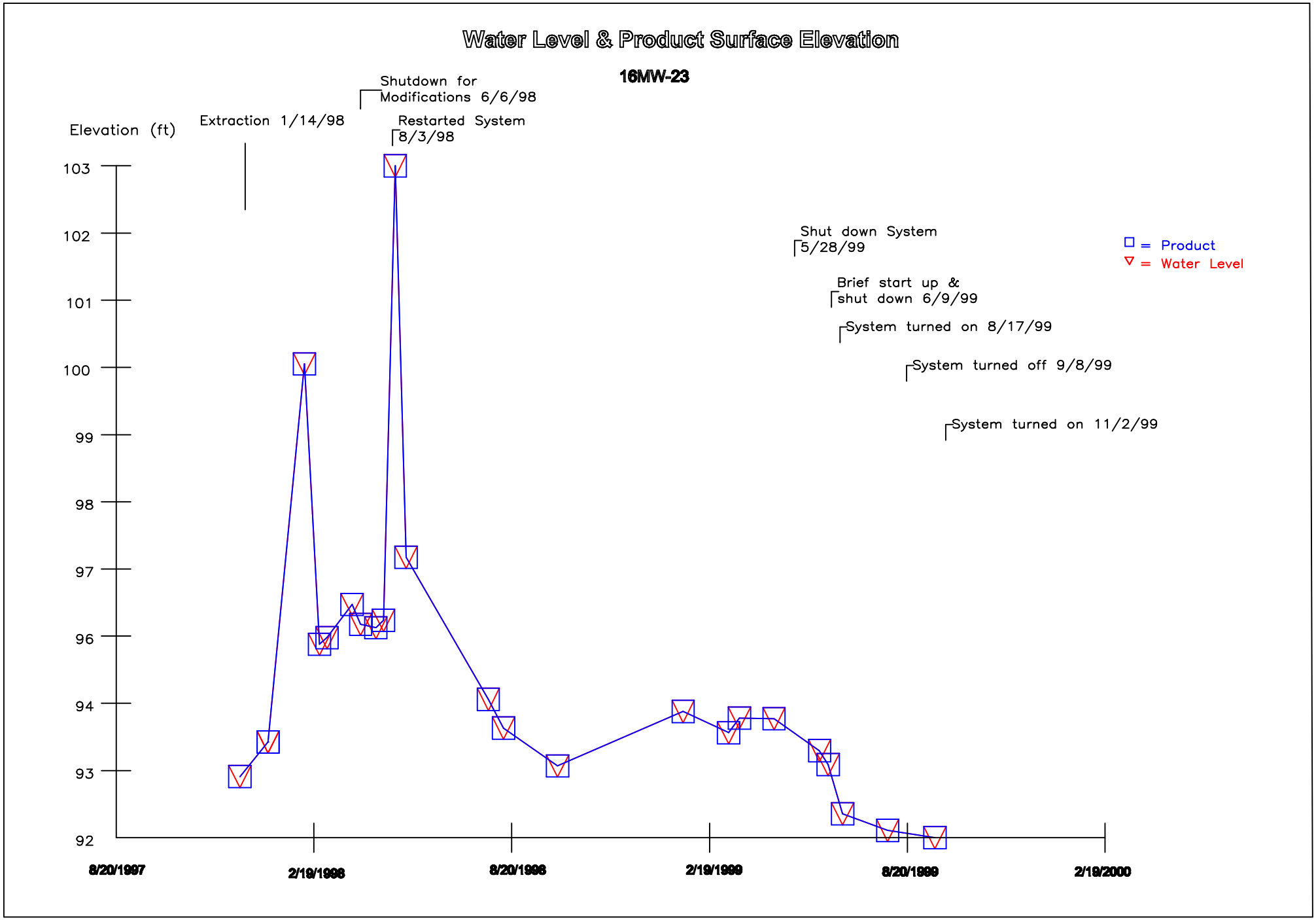

Water Level & Product Surface Elevation
16MW-20
Elevation (ft)
95
94
94
93
92
91
90
Extraction 1/14/98
Shutdown for Modifications 6/6/98
Restarted System 8/3/98
Shut down System 5/28/99
Brief start up & shut down 6/9/99
System turned on 8/17/99
System turned off 9/8/99
System turned on 11/2/99
Shutdown System 3/30/01
= Product
= Water Level
8/20/1997
2/19/1998
8/20/1998
2/19/1999
8/20/1999
2/19/2000
8/20/2000
2/19/2001
8/20/2001
2/19/2002
8/20/2002

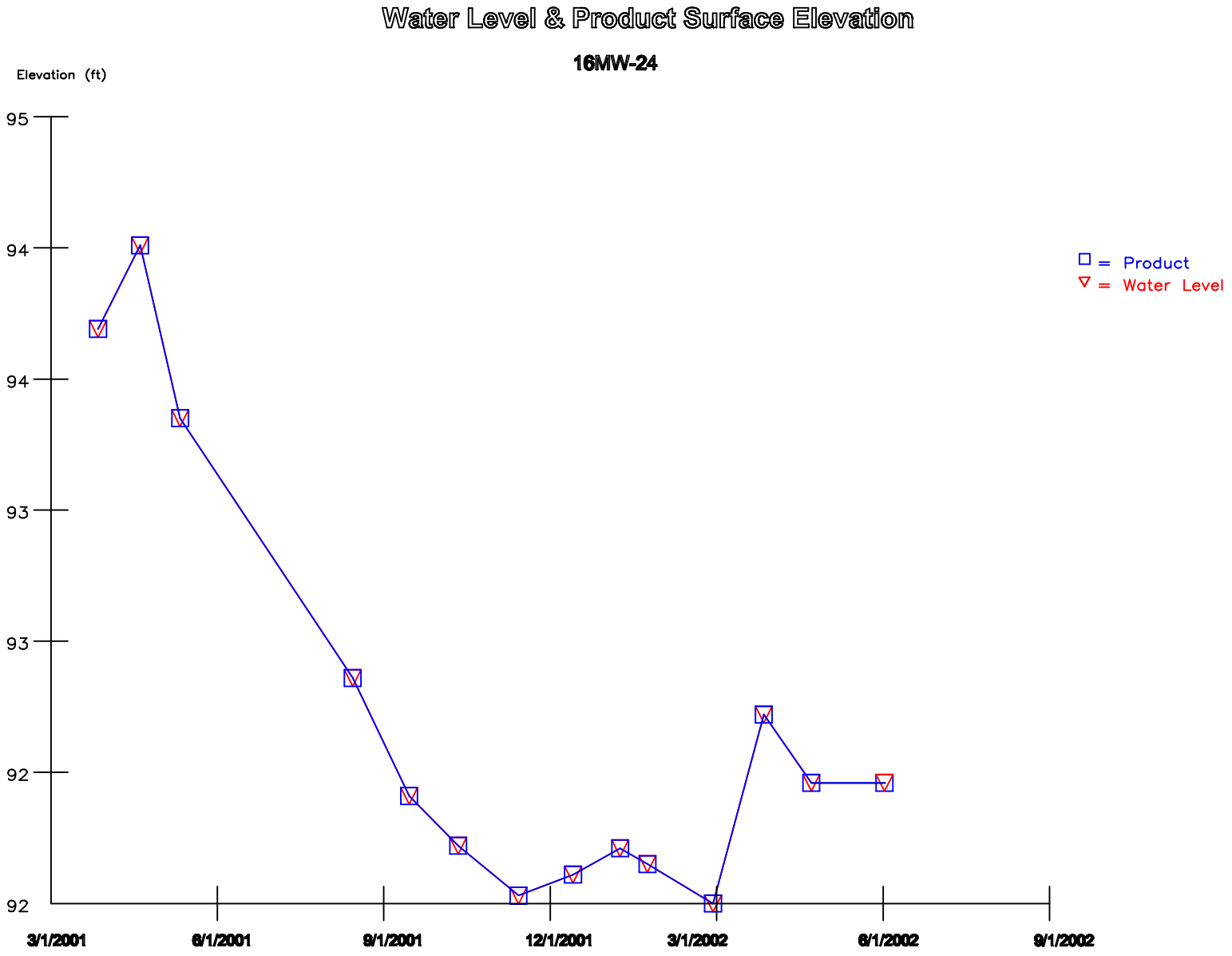

Water Level & Product Surface Elevation
16MW-21
Elevation (ft)
97
96
95
94
93
92
91
90
Extraction 1/14/98
Shutdown for Modifications 6/6/98
Restarted System 8/3/98
Shut down System 5/28/99
Brief start up & shut down 6/9/99
System turned on 8/17/99
System turned off 9/8/99
System turned on 11/2/99
Shutdown System 3/30/01
= Product
= Water Level
8/20/1997
2/19/1998
8/20/1998
2/19/1999
8/20/1999
2/19/2000
8/20/2000
2/19/2001
8/20/2001
2/19/2002
8/20/2002

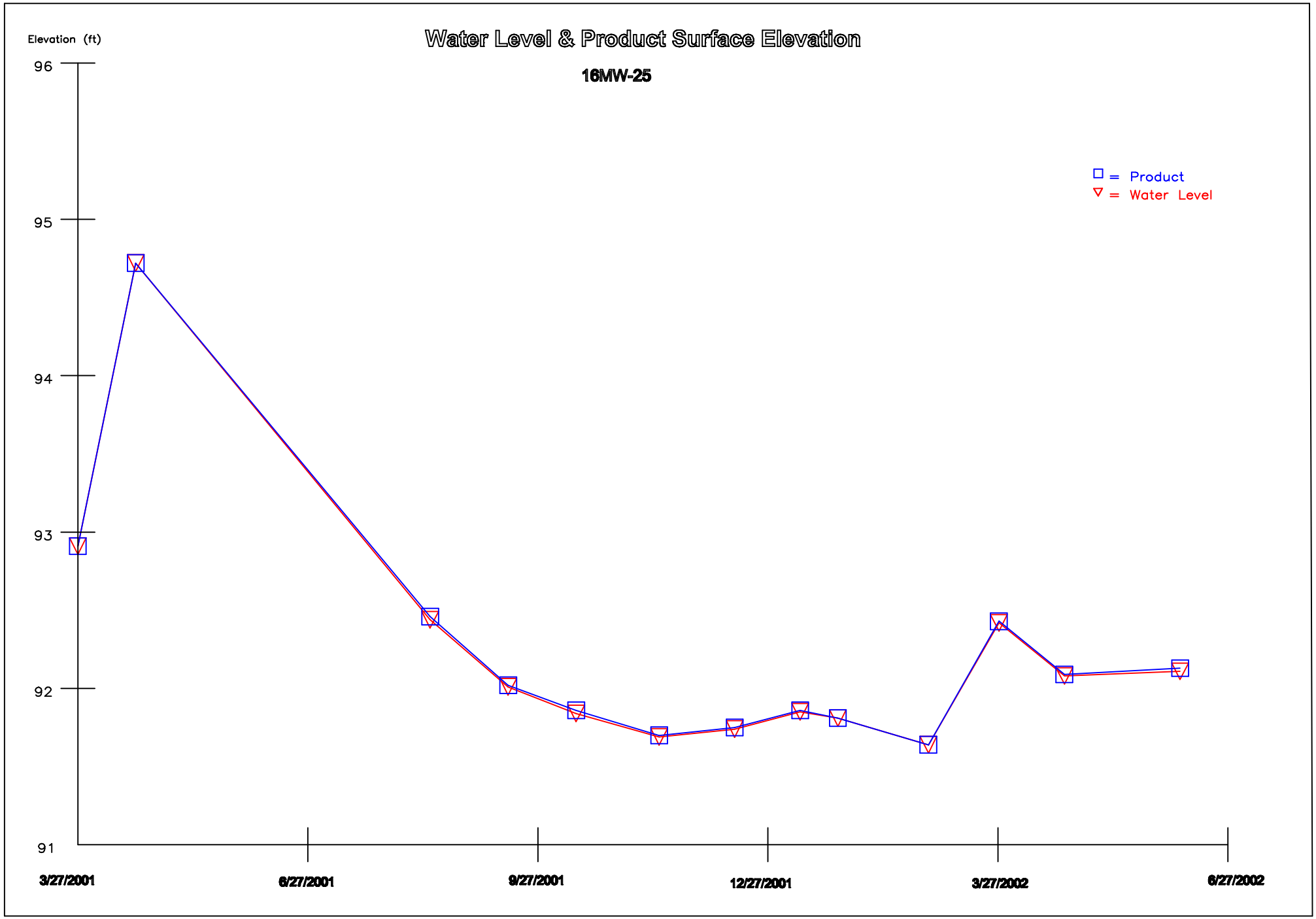
Water Level & Product Surface Elevation

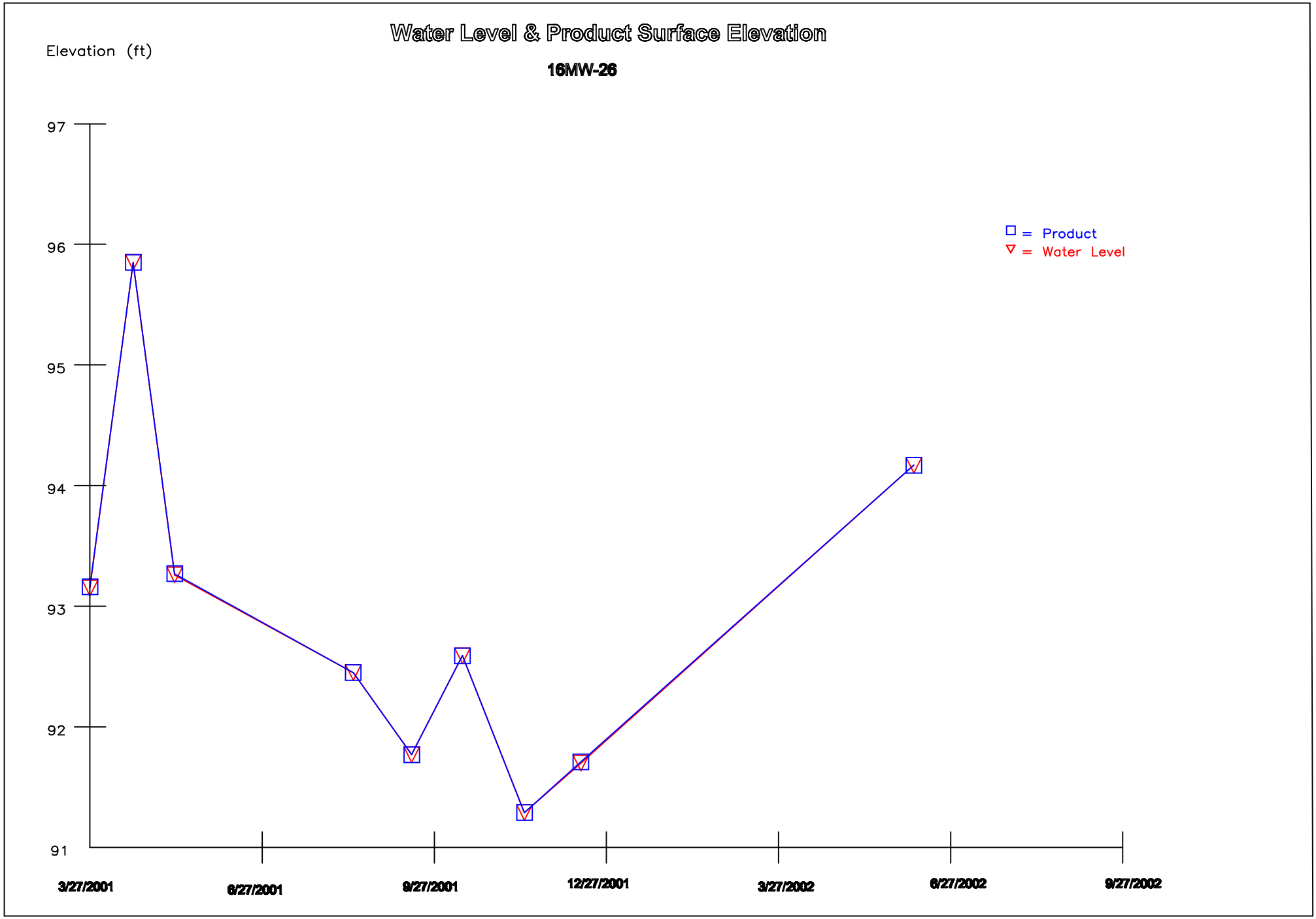
16MW-22

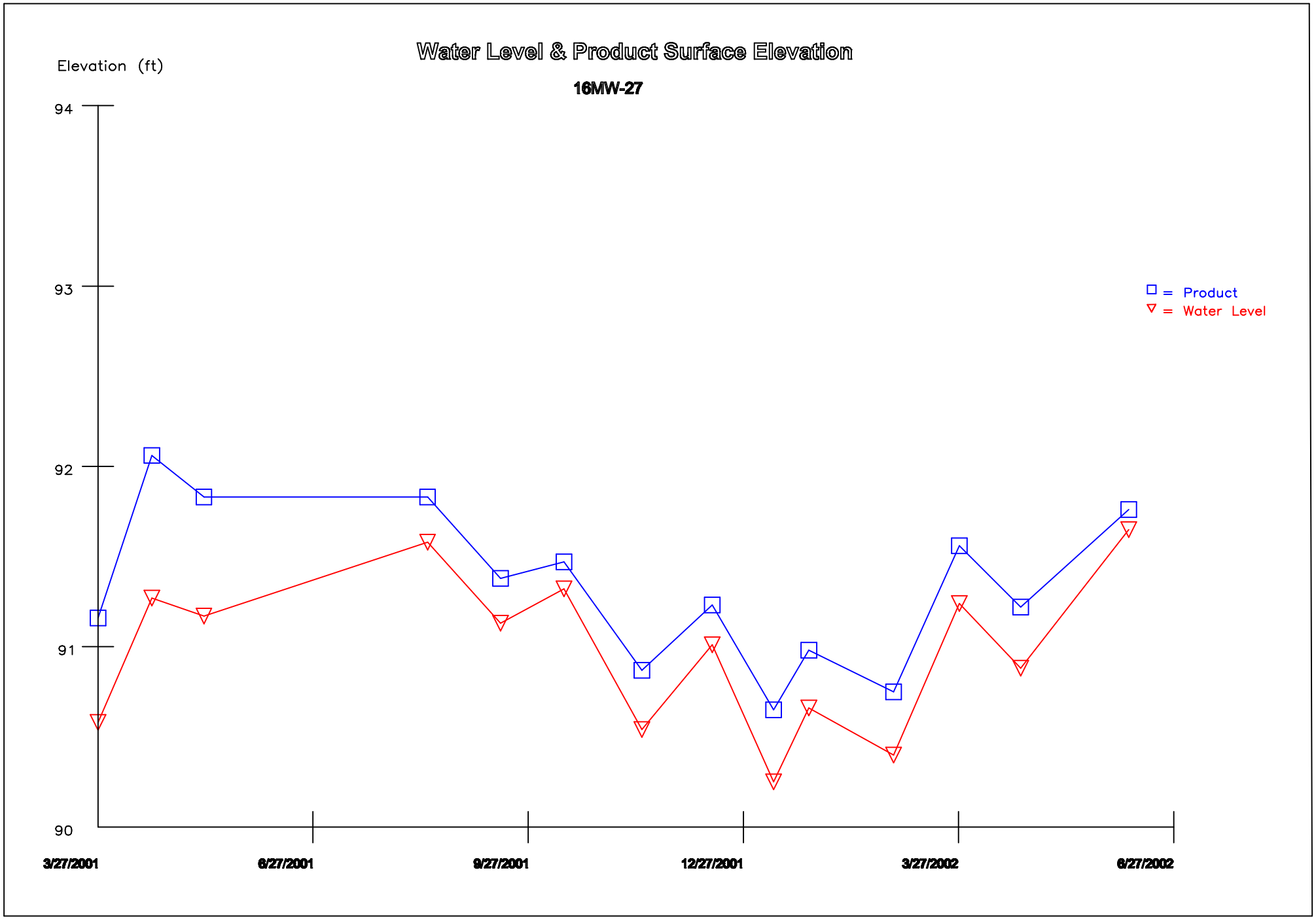


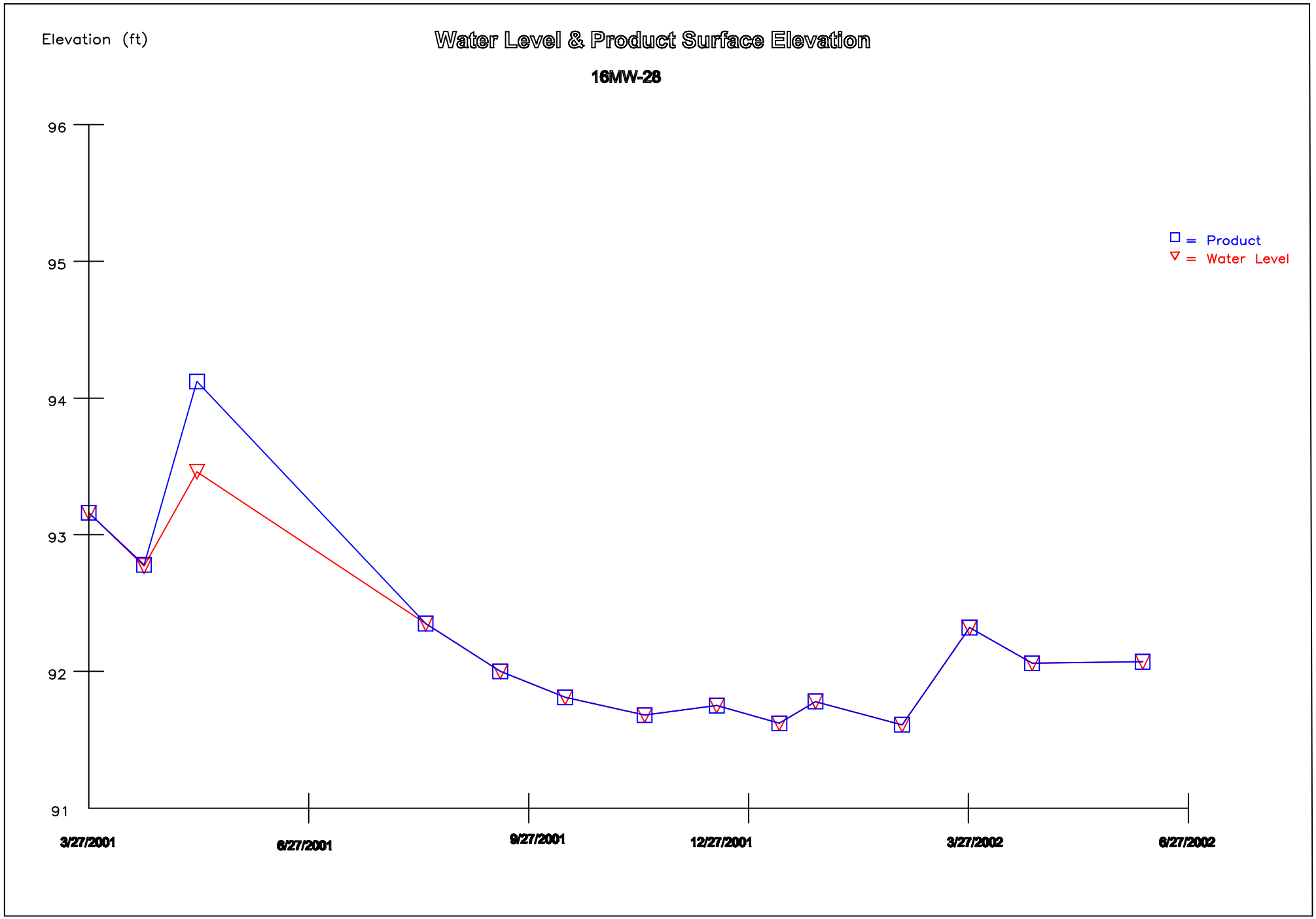

Water Level & Product Surface Elevation
16MW-23
Elevation (ft)
103
102
101
100
99
98
97
96
94
93
92
Extraction 1/14/98
Shutdown for Modifications 6/6/98
Restarted System 8/3/98
Shut down System 5/28/99
Brief start up & shut down 6/9/99
System turned on 8/17/99
System turned off 9/8/99
System turned on 11/2/99
= Product
= Water Level
8/20/1997
2/19/1998
8/20/1998
2/19/1999
8/20/1999
2/19/2000


Water Level & Product Surface Elevation
16MW-24
Elevation (ft)
95
94
94
93
93
92
92
3/1/2001
6/1/2001
9/1/2001
12/1/2001
3/1/2002
6/1/2002
9/1/2002
= Product
= Water Level


Water Level & Product Surface Elevation
16MW-25
Elevation (ft)
96
95
94
93
92
91
= Product
= Water Level
3/27/2001
6/27/2001
9/27/2001
12/27/2001
3/27/2002
6/27/2002


Water Level & Product Surface Elevation
16MW-26
Elevation (ft)
97
96
95
94
93
92
91
3/27/2001
6/27/2001
9/27/2001
12/27/2001
3/27/2002
6/27/2002
9/27/2002
= Product
= Water Level


Water Level & Product Surface Elevation
16MW-27
Elevation (ft)
94
93
92
91
90
3/27/2001
6/27/2001
9/27/2001
12/27/2001
3/27/2002
6/27/2002
= Product
= Water Level


Water Level & Product Surface Elevation
16MW-28
Elevation (ft)
96
95
94
93
92
91
3/27/2001
6/27/2001
9/27/2001
12/27/2001
3/27/2002
6/27/2002
= Product
= Water Level

Water Level & Product Thickness Data

PERIOD: From 10/06/1979 thru 06/08/2002 - Inclusive

SITE	DATE	MP ELEVATION (feet)	TIME	DEPTH TO WATER (feet)	FLOATING PRODUCT THICKNESS (feet)	WATER ELEV. (feet)	DELTA WATER ELEV (feet)	EQUIV. FRESH WATER HEAD (feet)
16MW-04	8/20/1997	101.23	11:34	11.93	0.58	89.31	NA	89.80
16MW-04	12/12/1997	101.23	00:00	9.19	0.79	92.04	2.74	92.71
16MW-04	1/7/1998	101.23	11:02	8.74	1.04	92.49	0.45	93.38
16MW-04	2/10/1998	101.23	00:00	7.98	0.94	93.26	0.76	94.05
16MW-04	2/24/1998	101.23	00:00	7.09	0.57	94.15	0.89	94.63
16MW-04	3/3/1998	101.23	00:00	7.45	1.00	93.78	-0.37	94.63
16MW-04	3/12/1998	101.23	00:00	6.95	0.89	94.29	0.51	95.04
16MW-04	3/13/1998	101.23	00:00	7.00	0.72	94.23	-0.05	94.84
16MW-04	3/26/1998	101.23	00:00	6.60	0.05	94.63	0.40	94.67
16MW-04	4/3/1998	101.23	00:00	7.07	0.45	94.17	-0.46	94.54
16MW-04	4/9/1998	101.23	00:00	6.86	0.01	94.37	0.20	94.38
16MW-04	4/17/1998	101.23	00:00	6.94	0.04	94.29	-0.08	94.32
16MW-04	4/24/1998	101.23	00:00	5.03	0.58	96.20	1.91	96.69
16MW-04	5/5/1998	101.23	00:00	6.94	0.49	94.29	-1.90	94.78
16MW-04	5/15/1998	101.23	00:00	6.24	0.65	94.99	0.69	95.54
16MW-04	7/30/1998	101.23	00:00	7.70	0.82	93.53	-1.46	94.23
16MW-04	8/7/1998	101.23	00:00	8.36	0.27	92.87	-0.66	93.10
16MW-04	8/13/1998	101.23	00:00	8.44	0.02	92.79	-0.08	92.81
16MW-04	8/21/1998	101.23	00:00	8.63	0.19	92.60	-0.19	92.76
16MW-04	9/3/1998	101.23	00:00	9.25	0.23	91.98	-0.62	92.18
16MW-04	9/10/1998	101.23	00:00	8.85	0.24	92.38	0.40	92.58
16MW-04	10/2/1998	101.23	00:00	9.03	0.21	92.20	-0.18	92.38
16MW-04	10/20/1998	101.23	00:00	9.07	0.26	92.16	-0.04	92.38
16MW-04	11/6/1998	101.23	00:00	9.17	0.16	92.06	-0.10	92.19
16MW-04	12/3/1998	101.23	00:00	9.23	0.24	92.01	-0.05	92.21
16MW-04	12/23/1998	101.23	00:00	9.15	0.08	92.08	0.07	92.15
16MW-04	1/26/1999	101.23	00:00	8.04	0.08	93.20	1.12	93.26
16MW-04	3/3/1999	101.23	00:00	8.31	0.06	92.92	-0.28	92.97
16MW-04	3/9/1999	101.23	00:00	8.22	0.02	93.01	0.09	93.03
16MW-04	3/19/1999	101.23	00:00	8.04	0.12	93.19	0.18	93.29
16MW-04	4/20/1999	101.23	00:00	8.04	0.14	93.19	0.00	93.31
16MW-04	5/7/1999	101.23	00:00	8.28	0.08	92.95	-0.24	93.02
16MW-04	6/9/1999	101.23	00:00	8.99	0.00	92.24	-0.71	92.24
16MW-04	6/9/1999	101.23	00:01	8.95	0.27	92.28	0.04	92.51
16MW-04	6/22/1999	101.23	08:55	8.89	0.19	92.34	0.06	92.50
16MW-04	7/29/1999	101.23	00:00	10.43	0.20	90.80	-1.54	90.97
16MW-04	8/3/1999	101.23	00:00	10.51	0.20	90.72	-0.08	90.89
16MW-04	8/13/1999	101.23	00:00	10.62	0.20	90.61	-0.11	90.78
16MW-04	9/3/1999	101.23	00:00	9.80	0.04	91.43	0.82	91.46

1- Change in Water Elevation since last reported measurement
2- Measurements based on mean sea level.

Water Level & Product Thickness Data

PERIOD: From 10/06/1979 thru 06/08/2002 - Inclusive

SITE	DATE	MP ELEVATION (feet)	TIME	DEPTH TO WATER (feet)	FLOATING PRODUCT THICKNESS (feet)	WATER ELEV. (feet)	DELTA WATER ELEV (feet)	EQUIV. FRESH WATER HEAD (feet)
16MW-04	9/15/1999	101.23	13:35	10.34	0.16	90.89	-0.54	91.03
16MW-04	10/26/1999	101.23	00:00	10.30	0.36	90.93	0.04	91.23
16MW-04	11/2/1999	101.23	00:00	10.60	0.39	90.63	-0.30	90.96
16MW-04	11/12/1999	101.23	00:00	10.05	0.21	91.18	0.55	91.36
16MW-04	11/18/1999	101.23	00:00	10.39	0.27	90.84	-0.34	91.07
16MW-04	12/1/1999	101.23	00:00	9.60	0.26	91.63	0.79	91.85
16MW-04	12/31/1999	101.23	00:00	10.03	0.29	91.20	-0.43	91.45
16MW-04	1/26/2000	101.23	00:00	10.04	0.22	91.19	-0.01	91.38
16MW-04	2/18/2000	101.23	00:00	9.44	0.15	91.79	0.60	91.92
16MW-04	4/17/2000	101.23	00:00	9.10	0.13	92.13	0.34	92.24
16MW-04	5/4/2000	101.23	00:00	8.42	0.16	92.81	0.68	92.95
16MW-04	8/9/2000	101.23	00:00	10.00	0.42	91.23	-1.58	91.59
16MW-04	8/24/2000	101.23	00:00	9.91	0.26	91.32	0.09	91.54
16MW-04	11/28/2000	101.23	00:00	9.30	0.07	91.93	0.61	91.99
16MW-04	1/16/2001	101.23	00:00	9.10	0.04	92.13	0.20	92.16
16MW-04	2/27/2001	101.23	00:00	8.61	0.00	92.62	0.49	92.62
16MW-04	3/27/2001	101.23	00:00	8.25	0.30	92.98	0.36	93.24
16MW-04	4/19/2001	101.23	00:00	9.17	0.44	92.06	-0.92	92.44
16MW-04	5/11/2001	101.23	00:00	9.76	0.45	91.47	-0.59	91.86
16MW-04	6/6/2001	101.23	00:00	9.89	0.41	91.34	-0.13	91.69
16MW-04	8/14/2001	101.23	00:00	9.33	0.05	91.90	0.56	91.94
16MW-04	9/14/2001	101.23	00:00	10.08	0.14	91.15	-0.75	91.27
16MW-04	10/11/2001	101.23	00:00	9.97	0.06	91.26	0.11	91.31
16MW-04	11/13/2001	101.23	00:00	10.27	0.10	90.96	-0.30	91.05
16MW-04	12/13/2001	101.23	00:00	9.76	0.03	91.47	0.51	91.49
16MW-04	2/28/2002	101.23	00:00	10.11	0.06	91.12	-0.35	91.17
16MW-04	3/28/2002	101.23	00:00	9.27	0.04	91.96	0.84	91.99
16MW-04	4/23/2002	101.23	00:00	9.63	0.05	91.60	-0.36	91.64
16MW-04	6/8/2002	101.23	00:00	9.48	0.00	91.75	0.15	91.75
16MW-13	8/20/1997	100.97	00:00	8.50	0.80	92.47	NA	93.15
16MW-13	8/20/1997	100.97	08:45	8.50	0.80	92.47	0.00	93.15
16MW-13	10/6/1997	100.97	10:45	8.86	0.75	92.11	-0.36	92.75
16MW-13	12/12/1997	100.97	08:30	8.57	0.65	92.41	0.29	92.96
16MW-13	1/7/1998	100.97	09:35	8.03	0.73	92.94	0.54	93.56
16MW-13	1/15/1998	100.97	07:30	8.06	0.75	92.92	-0.03	93.55
16MW-13	2/10/1998	100.97	00:00	7.39	0.88	93.59	0.67	94.33
16MW-13	2/24/1998	100.97	00:00	6.67	0.72	94.30	0.72	94.91
16MW-13	3/3/1998	100.97	00:00	6.90	1.04	94.07	-0.23	94.96

1- Change in Water Elevation since last reported measurement
2- Measurements based on mean sea level.

Water Level & Product Thickness Data

PERIOD: From 10/06/1979 thru 06/08/2002 - Inclusive

SITE	DATE	MP ELEVATION (feet)	TIME	DEPTH TO WATER (feet)	FLOATING PRODUCT THICKNESS (feet)	WATER ELEV. (feet)	DELTA WATER ELEV (feet)	EQUIV. FRESH WATER HEAD (feet)
16MW-13	3/12/1998	100.97	00:00	6.60	1.03	94.38	0.31	95.25
16MW-13	3/13/1998	100.97	00:00	6.61	0.81	94.37	-0.01	95.05
16MW-13	3/26/1998	100.97	00:00	6.14	0.30	94.83	0.46	95.09
16MW-13	4/3/1998	100.97	00:00	6.47	0.42	94.50	-0.33	94.86
16MW-13	4/9/1998	100.97	00:00	6.54	0.27	94.43	-0.07	94.66
16MW-13	4/17/1998	100.97	00:00	6.41	0.18	94.56	0.13	94.71
16MW-13	4/24/1998	100.97	00:00	6.44	0.58	94.54	-0.03	95.03
16MW-13	5/5/1998	100.97	00:00	7.19	0.55	93.78	-0.76	94.33
16MW-13	5/15/1998	100.97	00:00	5.55	0.52	95.43	1.65	95.94
16MW-13	7/30/1998	100.97	00:00	7.80	0.82	93.17	-2.25	93.87
16MW-13	8/7/1998	100.97	00:00	7.78	0.26	93.19	0.02	93.41
16MW-13	8/13/1998	100.97	00:00	7.94	0.14	93.03	-0.16	93.15
16MW-13	8/21/1998	100.97	00:00	8.03	0.27	92.94	-0.09	93.17
16MW-13	9/3/1998	100.97	00:00	8.09	0.20	92.88	-0.06	93.05
16MW-13	9/10/1998	100.97	00:00	8.26	0.15	92.71	-0.17	92.84
16MW-13	10/2/1998	100.97	00:00	8.41	0.27	92.56	-0.15	92.79
16MW-13	10/20/1998	100.97	00:00	8.46	0.14	92.51	-0.05	92.63
16MW-13	11/6/1998	100.97	00:00	8.61	0.14	92.37	-0.15	92.48
16MW-13	12/3/1998	100.97	00:00	8.64	0.11	92.34	-0.03	92.42
16MW-13	12/23/1998	100.97	00:00	8.69	0.20	92.28	-0.06	92.45
16MW-13	1/26/1999	100.97	00:00	7.55	0.18	93.42	1.14	93.57
16MW-13	3/3/1999	100.97	00:00	7.80	0.11	93.17	-0.25	93.26
16MW-13	3/9/1999	100.97	00:00	7.74	0.14	93.23	0.06	93.35
16MW-13	3/19/1999	100.97	00:00	7.51	0.16	93.47	0.24	93.60
16MW-13	4/20/1999	100.97	00:00	7.57	0.15	93.41	-0.06	93.53
16MW-13	5/7/1999	100.97	00:00	8.05	0.14	92.93	-0.48	93.04
16MW-13	6/9/1999	100.97	00:00	7.75	0.01	93.23	0.30	93.23
16MW-13	6/9/1999	100.97	00:01	8.48	0.44	92.49	-0.74	92.87
16MW-13	6/10/1999	100.97	00:00	8.91	0.10	92.06	-0.43	92.14
16MW-13	6/14/1999	100.97	13:05	8.91	0.10	92.06	0.00	92.14
16MW-13	6/22/1999	100.97	08:55	8.90	0.29	92.07	0.01	92.32
16MW-13	6/22/1999	100.97	09:45	8.90	0.29	92.07	0.00	92.32
16MW-13	7/29/1999	100.97	00:00	10.83	0.49	90.14	-1.93	90.56
16MW-13	8/3/1999	100.97	00:00	10.90	0.48	90.07	-0.07	90.48
16MW-13	8/13/1999	100.97	00:00	11.03	0.20	89.94	-0.13	90.11
16MW-13	9/3/1999	100.97	00:00	9.15	0.03	91.82	1.88	91.85
16MW-13	9/15/1999	100.97	13:30	9.41	0.05	91.56	-0.26	91.60
16MW-13	10/26/1999	100.97	00:00	10.24	0.50	90.73	-0.83	91.15
16MW-13	11/2/1999	100.97	00:00	10.47	0.52	90.50	-0.23	90.94

1- Change in Water Elevation since last reported measurement
2- Measurements based on mean sea level.

Water Level & Product Thickness Data

PERIOD: From 10/06/1979 thru 06/08/2002 - Inclusive

SITE	DATE	MP ELEVATION (feet)	TIME	DEPTH TO WATER (feet)	FLOATING PRODUCT THICKNESS (feet)	WATER ELEV. (feet)	DELTA WATER ELEV (feet)	EQUIV. FRESH WATER HEAD (feet)
16MW-13	11/12/1999	100.97	00:00	10.07	0.37	90.90	0.40	91.21
16MW-13	11/18/1999	100.97	00:00	10.56	0.42	90.41	-0.49	90.76
16MW-13	12/1/1999	100.97	00:00	10.26	0.43	90.71	0.30	91.07
16MW-13	12/31/1999	100.97	00:00	10.12	0.47	90.85	0.14	91.25
16MW-13	1/26/2000	100.97	00:00	10.06	0.38	90.91	0.06	91.24
16MW-13	2/18/2000	100.97	00:00	8.94	0.16	92.03	1.12	92.17
16MW-13	4/17/2000	100.97	00:00	8.87	0.21	92.10	0.07	92.28
16MW-13	5/4/2000	100.97	00:00	7.94	0.10	93.03	0.93	93.12
16MW-13	8/9/2000	100.97	00:00	8.68	0.25	92.29	-0.74	92.50
16MW-13	8/24/2000	100.97	00:00	8.71	0.08	92.26	-0.03	92.33
16MW-13	10/26/2000	100.97	00:00	9.03	0.07	91.94	-0.32	92.00
16MW-13	11/28/2000	100.97	00:00	9.80	0.10	91.17	-0.77	91.26
16MW-13	1/16/2001	100.97	00:00	9.03	0.17	91.94	0.77	92.09
16MW-13	2/27/2001	100.97	00:00	8.05	0.04	92.92	0.98	92.95
16MW-13	3/27/2001	100.97	00:00	8.09	0.26	92.88	-0.04	93.10
16MW-13	4/19/2001	100.97	00:00	9.61	0.75	91.36	-1.52	92.00
16MW-13	5/11/2001	100.97	00:00	10.28	0.78	90.69	-0.67	91.36
16MW-13	6/6/2001	100.97	00:00	10.18	0.69	90.79	0.10	91.38
16MW-13	8/14/2001	100.97	00:00	9.67	0.33	91.30	0.51	91.58
16MW-13	9/14/2001	100.97	00:00	9.98	0.15	90.99	-0.31	91.12
16MW-13	10/11/2001	100.97	00:00	9.41	0.09	91.56	0.57	91.63
16MW-13	11/13/2001	100.97	00:00	9.45	0.04	91.52	-0.04	91.56
16MW-13	12/13/2001	100.97	00:00	9.34	0.05	91.63	0.11	91.67
16MW-13	1/8/2002	100.97	00:00	9.35	0.01	91.62	-0.01	91.63
16MW-13	1/23/2002	100.97	00:00	9.35	0.06	91.62	0.00	91.67
16MW-13	2/28/2002	100.97	00:00	9.51	0.05	91.46	-0.16	91.50
16MW-13	3/28/2002	100.97	00:00	9.04	0.14	91.93	0.47	92.05
16MW-13	4/23/2002	100.97	00:00	10.12	0.36	90.85	-1.08	91.16
16MW-13	6/8/2002	100.97	00:00	9.40	0.15	91.57	0.72	91.70
16MW-14	8/20/1997	100.66	00:00	8.16	0.83	92.50	NA	93.21
16MW-14	8/20/1997	100.66	08:48	8.24	0.80	92.42	-0.08	93.10
16MW-14	10/6/1997	100.66	10:45	8.63	0.99	92.03	-0.39	92.87
16MW-14	12/12/1997	100.66	08:30	9.18	0.79	91.48	-0.55	92.15
16MW-14	1/7/1998	100.66	09:49	7.94	0.86	92.72	1.24	93.45
16MW-14	1/7/1998	100.66	09:56	7.94	0.86	92.72	0.00	93.45
16MW-14	1/15/1998	100.66	07:30	7.71	0.64	92.96	0.24	93.50
16MW-14	2/10/1998	100.66	00:00	7.13	1.08	93.53	0.58	94.45
16MW-14	3/3/1998	100.66	00:00	6.40	0.84	94.27	0.73	94.98

1- Change in Water Elevation since last reported measurement
2- Measurements based on mean sea level.

Water Level & Product Thickness Data

PERIOD: From 10/06/1979 thru 06/08/2002 - Inclusive

SITE	DATE	MP ELEVATION (feet)	TIME	DEPTH TO WATER (feet)	FLOATING PRODUCT THICKNESS (feet)	WATER ELEV. (feet)	DELTA WATER ELEV (feet)	EQUIV. FRESH WATER HEAD (feet)
16MW-14	3/12/1998	100.66	00:00	6.05	0.75	94.61	0.35	95.25
16MW-14	3/13/1998	100.66	00:00	6.29	0.29	94.37	-0.24	94.62
16MW-14	3/26/1998	100.66	00:00	5.60	0.03	95.06	0.69	95.09
16MW-14	4/3/1998	100.66	00:00	6.04	0.21	94.62	-0.44	94.80
16MW-14	4/9/1998	100.66	00:00	5.10	0.09	95.56	0.94	95.63
16MW-14	4/17/1998	100.66	00:00	5.77	0.10	94.90	-0.66	94.98
16MW-14	4/24/1998	100.66	00:00	6.19	0.55	94.48	-0.42	94.94
16MW-14	5/5/1998	100.66	00:00	6.03	0.46	94.63	0.16	95.02
16MW-14	5/15/1998	100.66	00:00	4.90	0.10	95.76	1.13	95.85
16MW-14	7/30/1998	100.66	00:00	7.49	0.85	93.17	-2.59	93.89
16MW-14	8/7/1998	100.66	00:00	7.23	0.06	93.43	0.27	93.48
16MW-14	8/13/1998	100.66	00:00	7.56	0.05	93.10	-0.33	93.14
16MW-14	8/21/1998	100.66	00:00	7.78	0.27	92.88	-0.22	93.11
16MW-14	9/3/1998	100.66	00:00	7.81	0.16	92.85	-0.03	92.99
16MW-14	9/10/1998	100.66	00:00	7.96	0.15	92.70	-0.15	92.83
16MW-14	10/2/1998	100.66	00:00	8.07	0.18	92.59	-0.11	92.74
16MW-14	10/20/1998	100.66	00:00	8.17	0.14	92.50	-0.09	92.61
16MW-14	11/6/1998	100.66	00:00	8.31	0.12	92.36	-0.14	92.45
16MW-14	12/3/1998	100.66	00:00	8.34	0.13	92.33	-0.03	92.43
16MW-14	12/23/1998	100.66	00:00	8.90	0.14	91.76	-0.57	91.88
16MW-14	1/26/1999	100.66	00:00	7.17	0.15	93.49	1.73	93.62
16MW-14	3/3/1999	100.66	00:00	8.04	0.13	92.63	-0.87	92.73
16MW-14	3/9/1999	100.66	00:00	7.34	0.04	93.32	0.70	93.35
16MW-14	3/19/1999	100.66	00:00	7.15	0.09	93.52	0.19	93.59
16MW-14	4/20/1999	100.66	00:00	7.25	0.11	93.41	-0.11	93.50
16MW-14	5/7/1999	100.66	00:00	7.74	0.01	92.92	-0.49	92.93
16MW-14	6/1/1999	100.66	00:00	7.83	0.22	92.83	-0.09	93.01
16MW-14	6/9/1999	100.66	00:00	7.64	0.00	93.02	0.19	93.02
16MW-14	6/9/1999	100.66	00:01	8.13	0.30	92.53	-0.49	92.78
16MW-14	6/10/1999	100.66	00:00	8.10	0.13	92.56	0.03	92.67
16MW-14	6/14/1999	100.66	13:10	8.10	0.13	92.56	0.00	92.67
16MW-14	6/22/1999	100.66	09:00	8.95	0.25	91.71	-0.85	91.93
16MW-14	7/29/1999	100.66	00:00	10.25	0.38	90.41	-1.30	90.73
16MW-14	8/3/1999	100.66	00:00	10.40	0.40	90.26	-0.15	90.60
16MW-14	8/13/1999	100.66	00:00	10.46	0.39	90.20	-0.06	90.53
16MW-14	9/3/1999	100.66	00:00	8.85	0.03	91.81	1.61	91.84
16MW-14	9/15/1999	100.66	13:40	9.29	0.09	91.37	-0.44	91.45
16MW-14	10/26/1999	100.66	00:00	10.20	0.57	90.46	-0.91	90.95
16MW-14	11/2/1999	100.66	00:00	10.26	0.53	90.40	-0.06	90.85

1- Change in Water Elevation since last reported measurement
2- Measurements based on mean sea level.

Water Level & Product Thickness Data

PERIOD: From 10/06/1979 thru 06/08/2002 - Inclusive

SITE	DATE	MP ELEVATION (feet)	TIME	DEPTH TO WATER (feet)	FLOATING PRODUCT THICKNESS (feet)	WATER ELEV. (feet)	DELTA WATER ELEV (feet)	EQUIV. FRESH WATER HEAD (feet)
16MW-14	11/12/1999	100.66	00:00	9.60	0.15	91.06	0.66	91.19
16MW-14	11/18/1999	100.66	00:00	9.82	0.18	90.84	-0.22	90.99
16MW-14	12/1/1999	100.66	00:00	9.70	0.35	90.96	0.12	91.26
16MW-14	12/31/1999	100.66	00:00	9.50	0.38	91.16	0.20	91.48
16MW-14	1/26/2000	100.66	00:00	9.44	0.29	91.22	0.06	91.46
16MW-14	2/18/2000	100.66	00:00	8.93	0.24	91.73	0.51	91.94
16MW-14	4/17/2000	100.66	00:00	8.42	0.17	92.24	0.51	92.38
16MW-14	5/4/2000	100.66	00:00	NM	NA	NA	NA	NA
16MW-14	8/9/2000	100.66	00:00	8.40	0.22	92.26	-8.40	92.45
16MW-14	8/24/2000	100.66	00:00	5.56	0.01	95.10	2.84	95.11
16MW-14	10/26/2000	100.66	00:00	8.83	0.07	91.83	-3.27	91.89
16MW-14	11/28/2000	100.66	00:00	9.35	0.19	91.31	-0.52	91.47
16MW-14	1/16/2001	100.66	00:00	9.30	0.29	91.36	0.05	91.61
16MW-14	2/27/2001	100.66	00:00	7.62	0.01	93.04	1.68	93.04
16MW-14	4/19/2001	100.66	00:00	7.05	0.04	93.61	0.57	93.64
16MW-14	5/11/2001	100.66	00:00	9.17	0.33	91.49	-2.12	91.77
16MW-14	6/6/2001	100.66	00:00	9.84	0.52	90.82	-0.67	91.26
16MW-14	8/14/2001	100.66	00:00	9.82	0.23	90.84	0.02	91.04
16MW-14	9/14/2001	100.66	00:00	9.67	0.05	90.99	0.15	91.03
16MW-14	10/11/2001	100.66	00:00	9.74	0.03	90.92	-0.07	90.95
16MW-14	11/13/2001	100.66	00:00	9.94	0.03	90.72	-0.20	90.75
16MW-14	12/13/2001	100.66	00:00	9.88	0.05	90.78	0.06	90.82
16MW-14	1/8/2002	100.66	00:00	10.31	0.22	90.35	-0.43	90.53
16MW-14	1/23/2002	100.66	00:00	9.72	0.04	90.94	0.59	90.98
16MW-14	2/28/2002	100.66	00:00	9.87	0.01	90.79	-0.15	90.80
16MW-14	3/28/2002	100.66	00:00	9.65	0.19	91.01	0.22	91.17
16MW-14	4/23/2002	100.66	00:00	10.91	0.45	89.75	-1.26	90.13
16MW-14	6/8/2002	100.66	00:00	9.63	0.07	91.03	1.28	91.09
16MW-15	8/20/1997	100.98	00:00	8.80	0.90	92.18	NA	92.95
16MW-15	8/20/1997	100.98	08:55	8.80	0.90	92.18	0.00	92.95
16MW-15	8/20/1997	100.98	09:12	8.80	0.90	92.18	0.00	92.95
16MW-15	10/6/1997	100.98	10:45	9.18	0.93	91.80	-0.39	92.59
16MW-15	12/12/1997	100.98	08:30	9.19	0.93	91.80	0.00	92.58
16MW-15	1/7/1998	100.98	10:05	8.57	1.27	92.41	0.62	93.49
16MW-15	1/15/1998	100.98	07:30	8.36	0.84	92.62	0.21	93.34
16MW-15	2/10/1998	100.98	00:00	7.92	1.50	93.07	0.45	94.34
16MW-15	3/3/1998	100.98	00:00	7.38	1.38	93.61	0.54	94.78
16MW-15	3/12/1998	100.98	00:00	6.93	1.19	94.05	0.45	95.06

1- Change in Water Elevation since last reported measurement
2- Measurements based on mean sea level.

Water Level & Product Thickness Data

PERIOD: From 10/06/1979 thru 06/08/2002 - Inclusive

SITE	DATE	MP ELEVATION (feet)	TIME	DEPTH TO WATER (feet)	FLOATING PRODUCT THICKNESS (feet)	WATER ELEV. (feet)	DELTA WATER ELEV (feet)	EQUIV. FRESH WATER HEAD (feet)
16MW-15	3/13/1998	100.98	00:00	6.79	0.61	94.20	0.15	94.71
16MW-15	4/3/1998	100.98	00:00	6.77	0.42	94.22	0.02	94.57
16MW-15	4/9/1998	100.98	00:00	6.79	0.14	94.20	-0.02	94.31
16MW-15	4/17/1998	100.98	00:00	6.63	0.06	94.36	0.16	94.40
16MW-15	4/24/1998	100.98	00:00	6.72	0.58	94.26	-0.09	94.76
16MW-15	5/5/1998	100.98	00:00	6.73	0.59	94.25	-0.01	94.84
16MW-15	5/15/1998	100.98	00:00	6.12	0.36	94.86	0.61	95.17
16MW-15	7/30/1998	100.98	00:00	8.19	0.92	92.79	-2.07	93.57
16MW-15	8/7/1998	100.98	00:00	8.14	0.31	92.84	0.06	93.10
16MW-15	8/13/1998	100.98	00:00	8.26	0.17	92.72	-0.12	92.87
16MW-15	8/21/1998	100.98	00:00	8.41	0.27	92.57	-0.15	92.80
16MW-15	9/3/1998	100.98	00:00	8.46	0.22	92.52	-0.05	92.71
16MW-15	9/10/1998	100.98	00:00	8.59	0.18	92.40	-0.13	92.54
16MW-15	10/2/1998	100.98	00:00	8.69	0.21	92.30	-0.10	92.47
16MW-15	10/20/1998	100.98	00:00	8.77	0.16	92.21	-0.09	92.35
16MW-15	11/6/1998	100.98	00:00	8.87	0.06	92.11	-0.10	92.16
16MW-15	12/3/1998	100.98	00:00	8.93	0.12	92.06	-0.05	92.15
16MW-15	12/23/1998	100.98	00:00	8.54	0.11	92.44	0.39	92.53
16MW-15	1/26/1999	100.98	00:00	7.75	0.13	93.24	0.80	93.34
16MW-15	3/3/1999	100.98	00:00	7.46	0.11	93.53	0.29	93.61
16MW-15	3/9/1999	100.98	00:00	8.30	0.40	92.68	-0.85	93.02
16MW-15	3/19/1999	100.98	00:00	7.77	0.15	93.21	0.53	93.34
16MW-15	4/20/1999	100.98	00:00	7.88	0.14	93.10	-0.11	93.22
16MW-15	6/1/1999	100.98	00:00	8.40	0.17	92.58	-0.52	92.73
16MW-15	6/9/1999	100.98	00:00	7.95	0.00	93.03	0.45	93.03
16MW-15	6/9/1999	100.98	00:01	8.70	0.23	92.29	-0.74	92.48
16MW-15	6/10/1999	100.98	00:00	8.68	0.11	92.30	0.02	92.39
16MW-15	6/14/1999	100.98	13:15	8.69	0.11	92.29	-0.01	92.38
16MW-15	6/22/1999	100.98	09:00	8.74	0.21	92.24	-0.05	92.42
16MW-15	7/29/1999	100.98	00:00	10.61	0.33	90.37	-1.87	90.65
16MW-15	8/13/1999	100.98	00:00	10.98	0.36	90.00	-0.37	90.31
16MW-15	9/3/1999	100.98	00:00	9.44	0.04	91.54	1.54	91.57
16MW-15	9/15/1999	100.98	13:45	9.46	0.12	91.52	-0.02	91.62
16MW-15	10/26/1999	100.98	00:00	10.65	0.53	90.33	-1.19	90.78
16MW-15	11/2/1999	100.98	00:00	10.93	0.57	90.05	-0.28	90.54
16MW-15	11/12/1999	100.98	00:00	9.70	0.34	91.28	1.23	91.57
16MW-15	11/18/1999	100.98	00:00	9.81	0.35	91.17	-0.11	91.47
16MW-15	12/1/1999	100.98	00:00	9.60	0.16	91.38	0.21	91.52
16MW-15	12/31/1999	100.98	00:00	9.48	0.21	91.50	0.12	91.68

1- Change in Water Elevation since last reported measurement
2- Measurements based on mean sea level.

Water Level & Product Thickness Data

PERIOD: From 10/06/1979 thru 06/08/2002 - Inclusive

SITE	DATE	MP ELEVATION (feet)	TIME	DEPTH TO WATER (feet)	FLOATING PRODUCT THICKNESS (feet)	WATER ELEV. (feet)	DELTA WATER ELEV (feet)	EQUIV. FRESH WATER HEAD (feet)
16MW-15	1/26/2000	100.98	00:00	9.50	0.14	91.48	-0.02	91.60
16MW-15	2/18/2000	100.98	00:00	8.91	0.07	92.07	0.59	92.13
16MW-15	4/17/2000	100.98	00:00	8.83	0.12	92.15	0.08	92.25
16MW-15	5/4/2000	100.98	00:00	8.25	0.07	92.73	0.58	92.79
16MW-15	8/9/2000	100.98	00:00	9.17	0.27	91.81	-0.92	92.04
16MW-15	8/24/2000	100.98	13:50	9.05	0.09	91.93	0.12	92.00
16MW-15	10/26/2000	100.98	00:00	9.35	0.08	91.63	-0.30	91.69
16MW-15	11/28/2000	100.98	00:00	8.90	0.10	92.08	0.45	92.17
16MW-15	1/16/2001	100.98	00:00	9.00	0.09	91.98	-0.10	92.06
16MW-15	2/27/2001	100.98	00:00	8.17	0.00	92.81	0.83	92.81
16MW-15	3/27/2001	100.98	00:00	7.65	0.06	93.33	0.52	93.38
16MW-15	4/19/2001	100.98	00:00	7.98	0.21	93.00	-0.33	93.18
16MW-15	5/11/2001	100.98	00:00	9.33	0.41	91.65	-1.35	92.00
16MW-15	6/6/2001	100.98	00:00	10.06	0.55	90.92	-0.73	91.39
16MW-15	8/14/2001	100.98	00:00	9.19	0.10	91.79	0.87	91.88
16MW-15	9/14/2001	100.98	00:00	9.80	0.15	91.18	-0.61	91.30
16MW-15	10/11/2001	100.98	00:00	9.72	0.09	91.26	0.08	91.33
16MW-15	11/13/2001	100.98	00:00	10.28	0.21	90.70	-0.56	90.88
16MW-15	12/13/2001	100.98	00:00	10.07	0.19	90.91	0.21	91.07
16MW-15	1/8/2002	100.98	00:00	9.82	0.15	91.16	0.25	91.29
16MW-15	1/23/2002	100.98	00:00	9.50	0.04	91.48	0.32	91.51
16MW-15	2/28/2002	100.98	00:00	9.65	0.03	91.33	-0.15	91.36
16MW-15	3/28/2002	100.98	00:00	8.80	0.05	92.18	0.85	92.22
16MW-15	4/23/2002	100.98	00:00	9.49	0.11	91.49	-0.69	91.58
16MW-15	6/8/2002	100.98	00:00	9.40	0.08	91.58	0.09	91.64
16MW-16	8/20/1997	98.82	00:00	6.77	0.08	92.05	NA	92.12
16MW-16	8/20/1997	98.82	09:12	6.77	0.08	92.05	0.00	92.12
16MW-16	10/6/1997	98.82	10:45	7.13	0.36	91.70	-0.36	92.00
16MW-16	12/12/1997	98.82	08:30	7.29	1.20	91.53	-0.17	92.55
16MW-16	1/7/1998	98.82	10:10	6.94	1.15	91.88	0.35	92.86
16MW-16	1/15/1998	98.82	07:30	6.15	0.56	92.67	0.79	93.15
16MW-16	2/10/1998	98.82	00:00	5.90	0.49	92.92	0.25	93.34
16MW-16	2/24/1998	98.82	00:00	3.90	0.05	94.92	2.00	94.96
16MW-16	3/3/1998	98.82	00:00	5.18	0.17	93.64	-1.28	93.78
16MW-16	3/12/1998	98.82	00:00	4.73	0.03	94.09	0.46	94.12
16MW-16	3/13/1998	98.82	00:00	5.05	0.02	93.77	-0.33	93.79
16MW-16	3/26/1998	98.82	00:00	4.39	0.01	94.43	0.66	94.44
16MW-16	4/3/1998	98.82	00:00	5.13	0.01	93.69	-0.74	93.70

1- Change in Water Elevation since last reported measurement
2- Measurements based on mean sea level.

Water Level & Product Thickness Data

PERIOD: From 10/06/1979 thru 06/08/2002 - Inclusive

SITE	DATE	MP ELEVATION (feet)	TIME	DEPTH TO WATER (feet)	FLOATING PRODUCT THICKNESS (feet)	WATER ELEV. (feet)	DELTA WATER ELEV (feet)	EQUIV. FRESH WATER HEAD (feet)
16MW-16	4/9/1998	98.82	00:00	5.28	0.02	93.54	-0.15	93.56
16MW-16	4/17/1998	98.82	00:00	5.17	0.14	93.65	0.11	93.77
16MW-16	4/24/1998	98.82	00:00	5.06	0.08	93.77	0.12	93.83
16MW-16	5/5/1998	98.82	00:00	5.10	0.08	93.73	-0.04	93.80
16MW-16	5/15/1998	98.82	00:00	3.93	0.11	94.89	1.17	94.98
16MW-16	7/30/1998	98.82	00:00	6.47	0.39	92.35	-2.54	92.68
16MW-16	8/7/1998	98.82	00:00	6.50	0.14	92.32	-0.03	92.44
16MW-16	8/13/1998	98.82	00:00	6.70	0.17	92.12	-0.20	92.26
16MW-16	8/21/1998	98.82	00:00	6.77	0.07	92.05	-0.07	92.11
16MW-16	9/3/1998	98.82	00:00	6.74	0.04	92.08	0.03	92.11
16MW-16	9/10/1998	98.82	00:00	6.89	0.04	91.93	-0.15	91.96
16MW-16	10/2/1998	98.82	00:00	6.98	0.08	91.84	-0.09	91.91
16MW-16	10/20/1998	98.82	00:00	7.04	0.04	91.78	-0.06	91.81
16MW-16	11/6/1998	98.82	00:00	7.15	0.03	91.67	-0.11	91.69
16MW-16	12/3/1998	98.82	00:00	7.14	0.04	91.69	0.02	91.72
16MW-16	12/23/1998	98.82	00:00	7.09	0.06	91.73	0.05	91.78
16MW-16	1/26/1999	98.82	00:00	5.96	0.01	92.86	1.13	92.87
16MW-16	3/19/1999	98.82	00:00	5.84	0.01	92.99	0.12	92.99
16MW-16	4/20/1999	98.82	00:00	6.02	0.01	92.80	-0.19	92.81
16MW-16	5/7/1999	98.82	00:00	6.23	0.01	92.59	-0.21	92.60
16MW-16	6/1/1999	98.82	00:00	6.66	0.10	92.16	-0.43	92.24
16MW-16	6/9/1999	98.82	00:00	6.15	0.00	92.67	0.51	92.67
16MW-16	6/9/1999	98.82	00:01	7.01	0.16	91.81	-0.86	91.94
16MW-16	6/10/1999	98.82	00:00	6.98	0.03	91.85	0.04	91.87
16MW-16	6/14/1999	98.82	13:40	6.98	0.03	91.85	0.00	91.87
16MW-16	6/22/1999	98.82	09:30	6.90	0.10	91.92	0.08	92.00
16MW-16	7/29/1999	98.82	00:00	8.62	0.23	90.20	-1.72	90.39
16MW-16	8/3/1999	98.82	00:00	8.80	0.25	90.02	-0.18	90.23
16MW-16	8/13/1999	98.82	00:00	8.97	0.27	89.85	-0.17	90.08
16MW-16	9/3/1999	98.82	00:00	8.35	0.20	90.47	0.62	90.64
16MW-16	9/15/1999	98.82	14:20	8.10	0.09	90.72	0.25	90.79
16MW-16	10/26/1999	98.82	00:00	8.00	0.30	90.82	0.10	91.08
16MW-16	11/2/1999	98.82	00:00	8.22	0.31	90.60	-0.22	90.86
16MW-16	11/12/1999	98.82	00:00	7.30	0.03	91.52	0.92	91.54
16MW-16	11/18/1999	98.82	00:00	7.57	0.04	91.25	-0.27	91.29
16MW-16	12/1/1999	98.82	00:00	7.51	0.08	91.31	0.06	91.38
16MW-16	12/31/1999	98.82	00:00	7.44	0.04	91.38	0.07	91.41
16MW-16	1/26/2000	98.82	00:00	7.37	0.04	91.45	0.07	91.49
16MW-16	2/18/2000	98.82	00:00	6.85	0.01	91.97	0.52	91.98

1- Change in Water Elevation since last reported measurement
2- Measurements based on mean sea level.

Water Level & Product Thickness Data

PERIOD: From 10/06/1979 thru 06/08/2002 - Inclusive

SITE	DATE	MP ELEVATION (feet)	TIME	DEPTH TO WATER (feet)	FLOATING PRODUCT THICKNESS (feet)	WATER ELEV. (feet)	DELTA WATER ELEV (feet)	EQUIV. FRESH WATER HEAD (feet)
16MW-16	4/17/2000	98.82	00:00	6.59	0.02	92.23	0.26	92.25
16MW-16	8/9/2000	98.82	00:00	6.46	0.17	92.36	0.13	92.51
16MW-16	8/24/2000	98.82	13:50	O	NA	NA	NA	NA
16MW-16	10/26/2000	98.82	00:00	7.40	0.13	91.42	-7.40	91.53
16MW-16	11/28/2000	98.82	00:00	8.57	0.29	90.25	-1.17	90.49
16MW-16	1/16/2001	98.82	00:00	6.99	0.03	91.83	1.58	91.85
16MW-16	2/27/2001	98.82	00:00	6.26	0.00	92.56	0.73	92.56
16MW-16	3/27/2001	98.82	00:00	5.90	0.00	92.92	0.36	92.92
16MW-16	5/11/2001	98.82	00:00	6.38	0.05	92.44	-0.48	92.48
16MW-16	8/14/2001	98.82	00:00	7.56	0.12	91.26	-1.18	91.36
16MW-16	9/14/2001	98.82	00:00	8.22	0.17	90.60	-0.66	90.75
16MW-16	10/11/2001	98.82	00:00	7.35	0.17	91.47	0.87	91.62
16MW-16	11/13/2001	98.82	00:00	8.91	0.32	89.91	-1.56	90.18
16MW-16	12/13/2001	98.82	00:00	7.57	0.04	91.25	1.34	91.28
16MW-16	1/8/2002	98.82	00:00	7.77	0.10	91.05	-0.20	91.13
16MW-16	1/23/2002	98.82	00:00	7.60	0.04	91.22	0.17	91.25
16MW-16	2/28/2002	98.82	00:00	7.75	0.01	91.07	-0.15	91.07
16MW-16	3/28/2002	98.82	00:00	6.75	0.01	92.07	1.00	92.08
16MW-16	4/23/2002	98.82	00:00	7.38	0.28	91.44	-0.63	91.68
16MW-16	6/8/2002	98.82	00:00	7.35	0.01	91.47	0.03	91.48
16MW-17	8/20/1997	99.79	00:00	7.77	1.04	92.03	NA	92.91
16MW-17	8/20/1997	99.79	09:07	7.77	1.04	92.03	0.00	92.91
16MW-17	10/6/1997	99.79	00:00	8.19	1.28	91.60	-0.43	92.69
16MW-17	10/6/1997	99.79	10:45	8.15	0.94	91.64	0.04	92.44
16MW-17	12/12/1997	99.79	08:30	7.88	0.88	91.92	0.28	92.66
16MW-17	1/7/1998	99.79	10:23	7.51	1.22	92.29	0.37	93.32
16MW-17	1/15/1998	99.79	07:30	7.14	0.44	92.65	0.37	93.03
16MW-17	2/10/1998	99.79	00:00	6.71	1.18	93.08	0.43	94.09
16MW-17	2/24/1998	99.79	00:00	5.58	0.38	94.22	1.13	94.54
16MW-17	3/3/1998	99.79	00:00	6.08	0.96	93.71	-0.50	94.53
16MW-17	3/12/1998	99.79	00:00	5.78	0.50	94.01	0.30	94.44
16MW-17	3/13/1998	99.79	00:00	5.33	0.08	94.47	0.45	94.53
16MW-17	3/26/1998	99.79	00:00	5.25	0.02	94.55	0.08	94.56
16MW-17	4/3/1998	99.79	00:00	6.65	0.11	93.14	-1.40	93.23
16MW-17	4/9/1998	99.79	00:00	5.84	0.10	93.96	0.81	94.04
16MW-17	4/17/1998	99.79	00:00	5.64	0.14	94.16	0.20	94.27
16MW-17	4/24/1998	99.79	00:00	5.58	0.21	94.22	0.06	94.39
16MW-17	5/5/1998	99.79	00:00	5.64	0.27	94.15	-0.07	94.42

1- Change in Water Elevation since last reported measurement
2- Measurements based on mean sea level.

Water Level & Product Thickness Data

PERIOD: From 10/06/1979 thru 06/08/2002 - Inclusive

SITE	DATE	MP ELEVATION (feet)	TIME	DEPTH TO WATER (feet)	FLOATING PRODUCT THICKNESS (feet)	WATER ELEV. (feet)	DELTA WATER ELEV (feet)	EQUIV. FRESH WATER HEAD (feet)
16MW-17	5/15/1998	99.79	00:00	5.09	0.09	94.70	0.55	94.78
16MW-17	7/30/1998	99.79	00:00	9.09	0.39	90.70	-4.00	91.03
16MW-17	8/7/1998	99.79	00:00	7.09	0.21	92.70	2.00	92.88
16MW-17	8/13/1998	99.79	00:00	7.28	0.22	92.51	-0.19	92.70
16MW-17	8/21/1998	99.79	00:00	7.34	0.09	92.45	-0.06	92.52
16MW-17	9/3/1998	99.79	00:00	7.40	0.12	92.39	-0.06	92.49
16MW-17	9/10/1998	99.79	00:00	7.49	0.08	92.30	-0.09	92.37
16MW-17	10/2/1998	99.79	00:00	5.85	0.81	93.94	1.64	94.63
16MW-17	10/20/1998	99.79	00:00	7.58	0.09	92.21	-1.73	92.29
16MW-17	11/6/1998	99.79	00:00	7.82	0.07	91.97	-0.24	92.03
16MW-17	12/3/1998	99.79	00:00	7.86	0.05	91.94	-0.03	91.97
16MW-17	12/23/1998	99.79	00:00	7.84	0.18	91.96	0.02	92.10
16MW-17	1/26/1999	99.79	00:00	6.51	0.08	93.29	1.33	93.35
16MW-17	3/9/1999	99.79	00:00	6.86	0.06	92.93	-0.35	92.98
16MW-17	3/19/1999	99.79	00:00	6.52	0.06	93.28	0.34	93.32
16MW-17	4/20/1999	99.79	00:00	6.74	0.06	93.06	-0.22	93.10
16MW-17	5/7/1999	99.79	00:00	6.90	0.02	92.89	-0.17	92.91
16MW-17	6/1/1999	99.79	00:00	7.29	0.08	92.50	-0.39	92.57
16MW-17	6/9/1999	99.79	00:00	7.15	0.00	92.64	0.14	92.64
16MW-17	6/9/1999	99.79	00:01	7.61	0.13	92.18	-0.46	92.29
16MW-17	6/10/1999	99.79	00:00	7.61	0.05	92.19	0.00	92.22
16MW-17	6/14/1999	99.79	13:30	7.61	0.05	92.19	0.00	92.22
16MW-17	6/22/1999	99.79	09:20	7.67	0.11	92.12	-0.07	92.22
16MW-17	7/29/1999	99.79	00:00	9.40	0.27	90.39	-1.73	90.62
16MW-17	8/3/1999	99.79	00:00	9.55	0.28	90.24	-0.15	90.48
16MW-17	8/13/1999	99.79	00:00	9.70	0.30	90.09	-0.15	90.35
16MW-17	9/3/1999	99.79	00:00	8.49	0.04	91.30	1.21	91.34
16MW-17	9/15/1999	99.79	14:05	8.86	0.11	90.93	-0.37	91.03
16MW-17	10/26/1999	99.79	00:00	9.81	0.63	89.98	-0.95	90.51
16MW-17	11/2/1999	99.79	00:00	9.99	0.64	89.80	-0.18	90.34
16MW-17	11/12/1999	99.79	00:00	8.31	0.10	91.48	1.68	91.57
16MW-17	11/18/1999	99.79	00:00	8.55	0.13	91.24	-0.24	91.35
16MW-17	12/1/1999	99.79	00:00	8.87	0.13	90.92	-0.32	91.03
16MW-17	12/31/1999	99.79	00:00	8.21	0.16	91.58	0.66	91.72
16MW-17	1/26/2000	99.79	00:00	8.21	0.09	91.58	0.00	91.66
16MW-17	2/18/2000	99.79	00:00	7.57	0.02	92.22	0.64	92.24
16MW-17	4/17/2000	99.79	00:00	7.46	0.05	92.33	0.11	92.37
16MW-17	5/4/2000	99.79	00:00	7.14	0.03	92.65	0.32	92.67
16MW-17	8/9/2000	99.79	00:00	8.40	0.42	91.39	-1.26	91.75

1- Change in Water Elevation since last reported measurement
2- Measurements based on mean sea level.

Water Level & Product Thickness Data

PERIOD: From 10/06/1979 thru 06/08/2002 - Inclusive

SITE	DATE	MP ELEVATION (feet)	TIME	DEPTH TO WATER (feet)	FLOATING PRODUCT THICKNESS (feet)	WATER ELEV. (feet)	DELTA WATER ELEV (feet)	EQUIV. FRESH WATER HEAD (feet)
16MW-17	8/24/2000	99.79	00:00	7.85	0.06	91.94	0.55	91.99
16MW-17	10/26/2000	99.79	00:00	8.09	0.02	91.70	-0.24	91.72
16MW-17	11/28/2000	99.79	00:00	8.48	0.25	91.31	-0.39	91.53
16MW-17	1/16/2001	99.79	00:00	7.90	0.10	91.89	0.58	91.98
16MW-17	2/27/2001	99.79	00:00	7.05	0.00	92.74	0.85	92.74
16MW-17	3/27/2001	99.79	00:00	6.40	0.03	93.39	0.65	93.41
16MW-17	4/19/2001	99.79	00:00	6.55	0.10	93.24	-0.15	93.33
16MW-17	5/11/2001	99.79	00:00	7.42	0.13	92.37	-0.87	75.90
16MW-17	6/6/2001	99.79	00:00	8.00	0.25	91.79	-0.58	74.26
16MW-17	8/14/2001	99.79	00:00	9.27	0.41	90.52	-1.27	90.87
16MW-17	9/14/2001	99.79	00:00	8.70	0.11	91.09	0.57	91.18
16MW-17	10/11/2001	99.79	00:00	8.44	0.02	91.35	0.26	91.36
16MW-17	11/13/2001	99.79	00:00	8.66	0.04	91.13	-0.22	91.16
16MW-17	11/13/2001	99.79	00:00	9.22	0.00	90.57	-0.56	90.57
16MW-17	12/13/2001	99.79	00:00	8.45	0.03	91.34	0.77	91.36
16MW-17	1/8/2002	99.79	00:00	8.51	0.08	91.28	-0.06	91.35
16MW-17	1/23/2002	99.79	00:00	8.40	0.03	91.39	0.11	91.42
16MW-17	2/28/2002	99.79	00:00	8.51	0.01	91.28	-0.11	91.29
16MW-17	3/28/2002	99.79	00:00	7.64	0.02	92.15	0.87	92.16
16MW-17	4/23/2002	99.79	00:00	8.09	0.02	91.70	-0.45	91.72
16MW-17	6/8/2002	99.79	00:00	8.08	0.01	91.71	0.01	91.72
16MW-18	8/20/1997	100.69	00:00	7.96	0.00	92.73	NA	92.73
16MW-18	8/20/1997	100.69	09:03	7.96	0.00	92.73	0.00	92.73
16MW-18	10/6/1997	100.69	10:45	8.21	0.00	92.48	-0.25	92.48
16MW-18	12/12/1997	100.69	08:30	7.98	0.00	92.71	0.23	92.71
16MW-18	1/7/1998	100.69	10:30	6.85	0.00	93.84	1.13	93.84
16MW-18	1/15/1998	100.69	07:30	7.24	0.00	93.45	-0.39	93.45
16MW-18	2/10/1998	100.69	00:00	5.86	0.00	94.83	1.38	94.83
16MW-18	2/24/1998	100.69	00:00	6.80	0.00	93.89	-0.94	93.89
16MW-18	3/3/1998	100.69	00:00	5.30	0.00	95.39	1.50	95.39
16MW-18	3/12/1998	100.69	00:00	4.89	0.00	95.80	0.41	95.80
16MW-18	3/13/1998	100.69	00:00	5.06	0.00	95.63	-0.17	95.63
16MW-18	3/26/1998	100.69	00:00	4.78	0.00	95.91	0.28	95.91
16MW-18	4/3/1998	100.69	00:00	5.51	0.00	95.18	-0.73	95.18
16MW-18	4/9/1998	100.69	00:00	5.85	0.00	94.84	-0.34	94.84
16MW-18	4/17/1998	100.69	00:00	5.20	0.00	95.49	0.65	95.49
16MW-18	4/24/1998	100.69	00:00	5.50	0.00	95.19	-0.30	95.19
16MW-18	5/5/1998	100.69	00:00	4.40	0.00	96.29	1.10	96.29

1- Change in Water Elevation since last reported measurement
2- Measurements based on mean sea level.

Water Level & Product Thickness Data

PERIOD: From 10/06/1979 thru 06/08/2002 - Inclusive

SITE	DATE	MP ELEVATION (feet)	TIME	DEPTH TO WATER (feet)	FLOATING PRODUCT THICKNESS (feet)	WATER ELEV. (feet)	DELTA WATER ELEV (feet)	EQUIV. FRESH WATER HEAD (feet)
16MW-18	5/15/1998	100.69	00:00	3.85	0.00	96.84	0.55	96.84
16MW-18	7/30/1998	100.69	00:00	6.88	0.02	93.81	-3.03	93.83
16MW-18	8/7/1998	100.69	00:00	7.13	0.00	93.56	-0.26	93.56
16MW-18	8/13/1998	100.69	00:00	8.40	0.00	92.29	-1.27	92.29
16MW-18	8/21/1998	100.69	00:00	7.61	0.00	93.08	0.79	93.08
16MW-18	9/3/1998	100.69	00:00	7.77	0.00	92.92	-0.16	92.92
16MW-18	9/10/1998	100.69	00:00	7.39	0.00	93.30	0.38	93.30
16MW-18	10/2/1998	100.69	00:00	7.66	0.00	93.03	-0.27	93.03
16MW-18	10/20/1998	100.69	00:00	8.12	0.00	92.57	-0.46	92.57
16MW-18	11/6/1998	100.69	00:00	8.31	0.00	92.38	-0.19	92.38
16MW-18	12/3/1998	100.69	00:00	8.20	0.00	92.49	0.11	92.49
16MW-18	12/23/1998	100.69	00:00	8.47	0.01	92.23	-0.27	92.23
16MW-18	1/26/1999	100.69	00:00	4.36	0.00	96.33	4.11	96.33
16MW-18	3/9/1999	100.69	00:00	6.30	0.00	94.39	-1.94	94.39
16MW-18	3/19/1999	100.69	00:00	4.80	0.00	95.89	1.50	95.89
16MW-18	5/7/1999	100.69	00:00	7.14	0.00	93.55	-2.34	93.55
16MW-18	6/1/1999	100.69	00:00	7.40	0.00	93.29	-0.26	93.29
16MW-18	6/9/1999	100.69	00:00	7.79	0.00	92.90	-0.39	92.90
16MW-18	6/9/1999	100.69	00:01	7.77	0.00	92.92	0.02	92.92
16MW-18	6/10/1999	100.69	00:00	7.82	0.00	92.87	-0.05	92.87
16MW-18	6/14/1999	100.69	13:25	7.82	0.00	92.87	0.00	92.87
16MW-18	6/22/1999	100.69	09:15	8.12	0.00	92.57	-0.30	92.57
16MW-18	7/29/1999	100.69	00:00	9.10	0.00	91.59	-0.98	91.59
16MW-18	8/3/1999	100.69	00:00	9.25	0.00	91.44	-0.15	91.44
16MW-18	9/3/1999	100.69	00:00	6.50	0.00	94.19	2.75	94.19
16MW-18	9/15/1999	100.69	14:00	8.99	0.00	91.70	-2.49	91.70
16MW-18	10/26/1999	100.69	00:00	7.15	0.01	93.54	1.84	93.55
16MW-18	11/12/1999	100.69	00:00	8.39	0.02	92.30	-1.24	92.32
16MW-18	11/18/1999	100.69	00:00	8.60	0.01	92.09	-0.21	92.10
16MW-18	12/1/1999	100.69	00:00	8.41	0.02	92.28	0.19	92.29
16MW-18	12/31/1999	100.69	00:00	7.50	0.28	93.19	0.91	93.42
16MW-18	1/26/2000	100.69	00:00	8.39	0.02	92.30	-0.89	92.32
16MW-18	2/18/2000	100.69	00:00	6.17	0.03	94.52	2.22	94.55
16MW-18	4/17/2000	100.69	00:00	6.32	0.05	94.37	-0.15	94.41
16MW-18	5/4/2000	100.69	00:00	6.81	0.00	93.88	-0.49	93.88
16MW-18	8/9/2000	100.69	00:00	5.26	0.01	95.43	1.55	95.44
16MW-18	8/24/2000	100.69	14:00	7.31	0.03	93.38	-2.05	93.40
16MW-18	10/26/2000	100.69	00:00	8.35	0.01	92.34	-1.04	92.35
16MW-18	11/28/2000	100.69	00:00	7.05	0.01	93.64	1.30	93.65

1- Change in Water Elevation since last reported measurement
2- Measurements based on mean sea level.

Water Level & Product Thickness Data

PERIOD: From 10/06/1979 thru 06/08/2002 - Inclusive

SITE	DATE	MP ELEVATION (feet)	TIME	DEPTH TO WATER (feet)	FLOATING PRODUCT THICKNESS (feet)	WATER ELEV. (feet)	DELTA WATER ELEV (feet)	EQUIV. FRESH WATER HEAD (feet)
16MW-18	1/16/2001	100.69	00:00	7.72	0.01	92.97	-0.67	92.97
16MW-18	2/27/2001	100.69	00:00	6.40	0.00	94.29	1.32	94.29
16MW-18	3/27/2001	100.69	00:00	5.20	0.00	95.49	1.20	95.49
16MW-18	4/19/2001	100.69	00:00	5.43	0.00	95.26	-0.23	95.26
16MW-18	5/11/2001	100.69	00:00	7.06	0.00	93.63	-1.63	93.63
16MW-18	6/6/2001	100.69	00:00	7.68	0.00	93.01	-0.62	93.01
16MW-18	8/14/2001	100.69	00:00	8.21	0.03	92.48	-0.53	92.50
16MW-18	9/14/2001	100.69	00:00	8.91	0.01	91.78	-0.70	91.79
16MW-18	10/11/2001	100.69	00:00	8.48	0.00	92.21	0.43	92.21
16MW-18	12/13/2001	100.69	00:00	8.51	0.04	92.18	-0.03	92.22
16MW-18	1/8/2002	100.69	00:00	7.95	0.06	92.74	0.56	92.79
16MW-18	1/23/2002	100.69	00:00	8.50	0.06	92.19	-0.55	92.24
16MW-18	2/28/2002	100.69	00:00	8.83	0.00	91.86	-0.33	91.86
16MW-18	3/28/2002	100.69	00:00	6.03	0.00	94.66	2.80	94.66
16MW-18	4/23/2002	100.69	00:00	8.23	0.00	92.46	-2.20	92.46
16MW-18	6/8/2002	100.69	00:00	8.91	0.01	91.78	-0.68	91.79
16MW-19	8/20/1997	100.54	08:57	7.70	0.00	92.84	NA	92.84
16MW-19	10/6/1997	100.54	10:45	8.43	0.62	92.11	-0.73	92.64
16MW-19	12/12/1997	100.54	08:30	8.65	1.13	91.90	-0.22	92.85
16MW-19	1/7/1998	100.54	10:37	7.53	0.83	93.02	1.12	93.72
16MW-19	1/15/1998	100.54	07:30	7.21	0.18	93.33	0.31	93.48
16MW-19	2/10/1998	100.54	00:00	5.79	0.10	94.76	1.43	94.84
16MW-19	2/24/1998	100.54	00:00	5.10	0.00	95.44	0.69	95.44
16MW-19	3/3/1998	100.54	00:00	5.31	0.02	95.24	-0.21	95.25
16MW-19	3/12/1998	100.54	00:00	4.81	0.02	95.74	0.50	95.75
16MW-19	3/13/1998	100.54	00:00	5.05	0.00	95.49	-0.25	95.49
16MW-19	3/26/1998	100.54	00:00	6.31	0.03	94.23	-1.26	94.26
16MW-19	4/3/1998	100.54	00:00	5.31	0.00	95.23	1.00	95.23
16MW-19	4/9/1998	100.54	00:00	5.52	0.01	95.02	-0.21	95.03
16MW-19	4/17/1998	100.54	00:00	5.04	0.04	95.50	0.48	95.54
16MW-19	4/24/1998	100.54	00:00	4.92	0.01	95.62	0.12	95.63
16MW-19	5/5/1998	100.54	00:00	4.56	0.06	95.98	0.36	96.04
16MW-19	5/15/1998	100.54	00:00	3.56	0.01	96.98	0.99	96.99
16MW-19	7/30/1998	100.54	00:00	6.79	0.11	93.75	-3.23	93.84
16MW-19	8/7/1998	100.54	00:00	6.97	0.00	93.57	-0.18	93.57
16MW-19	8/13/1998	100.54	00:00	7.21	0.01	93.34	-0.24	93.34
16MW-19	8/21/1998	100.54	00:00	7.41	0.00	93.13	-0.21	93.13
16MW-19	9/3/1998	100.54	00:00	7.54	0.00	93.00	-0.13	93.00

1- Change in Water Elevation since last reported measurement
2- Measurements based on mean sea level.

Water Level & Product Thickness Data

PERIOD: From 10/06/1979 thru 06/08/2002 - Inclusive

SITE	DATE	MP ELEVATION (feet)	TIME	DEPTH TO WATER (feet)	FLOATING PRODUCT THICKNESS (feet)	WATER ELEV. (feet)	DELTA WATER ELEV (feet)	EQUIV. FRESH WATER HEAD (feet)
16MW-19	9/10/1998	100.54	00:00	7.60	0.00	92.94	-0.06	92.94
16MW-19	10/2/1998	100.54	00:00	7.67	0.01	92.87	-0.07	92.88
16MW-19	10/20/1998	100.54	00:00	7.88	0.01	92.66	-0.21	92.67
16MW-19	11/6/1998	100.54	00:00	8.15	0.01	92.39	-0.27	92.40
16MW-19	12/3/1998	100.54	00:00	7.94	0.00	92.60	0.21	92.60
16MW-19	12/23/1998	100.54	00:00	8.05	0.02	92.50	-0.10	92.51
16MW-19	1/26/1999	100.54	00:00	5.69	0.04	94.85	2.36	94.88
16MW-19	3/9/1999	100.54	00:00	6.43	0.03	94.11	-0.74	94.14
16MW-19	3/19/1999	100.54	00:00	6.05	0.05	94.49	0.38	94.53
16MW-19	4/20/1999	100.54	00:00	6.56	0.01	93.98	-0.51	93.99
16MW-19	5/7/1999	100.54	00:00	7.04	0.03	93.51	-0.47	93.53
16MW-19	6/1/1999	100.54	00:00	7.17	0.03	93.37	-0.14	93.39
16MW-19	6/9/1999	100.54	00:00	6.94	0.00	93.60	0.23	93.60
16MW-19	6/9/1999	100.54	00:01	7.62	0.03	92.92	-0.68	92.95
16MW-19	6/10/1999	100.54	00:00	7.68	0.00	92.86	-0.06	92.86
16MW-19	6/14/1999	100.54	13:20	7.68	0.00	92.86	0.00	92.86
16MW-19	6/22/1999	100.54	09:10	7.90	0.03	92.64	-0.22	92.66
16MW-19	7/29/1999	100.54	00:00	9.01	0.05	91.53	-1.11	91.57
16MW-19	8/3/1999	100.54	00:00	9.14	0.06	91.40	-0.13	91.45
16MW-19	8/13/1999	100.54	00:00	9.05	0.00	91.49	0.09	91.49
16MW-19	9/3/1999	100.54	00:00	9.07	0.14	91.47	-0.02	91.59
16MW-19	9/15/1999	100.54	13:55	8.99	0.02	91.55	0.08	91.57
16MW-19	10/26/1999	100.54	00:00	9.35	0.42	91.19	-0.36	91.54
16MW-19	11/2/1999	100.54	00:00	9.99	0.47	90.55	-0.64	90.95
16MW-19	11/12/1999	100.54	00:00	8.45	0.01	92.09	1.54	92.10
16MW-19	11/18/1999	100.54	00:00	8.59	0.00	91.95	-0.14	91.95
16MW-19	12/1/1999	100.54	00:00	8.35	0.01	92.19	0.24	92.20
16MW-19	12/31/1999	100.54	00:00	8.07	0.04	92.47	0.28	92.50
16MW-19	1/26/2000	100.54	00:00	8.36	0.01	92.18	-0.29	92.19
16MW-19	2/18/2000	100.54	00:00	7.51	0.01	93.03	0.85	93.04
16MW-19	4/17/2000	100.54	00:00	7.52	0.00	93.02	-0.01	93.02
16MW-19	5/4/2000	100.54	00:00	7.22	0.06	93.32	0.30	93.37
16MW-19	8/9/2000	100.54	00:00	7.30	0.22	93.24	-0.08	93.42
16MW-19	8/24/2000	100.54	13:55	8.00	0.06	92.54	-0.70	92.59
16MW-19	10/26/2000	100.54	00:00	8.77	0.09	91.77	-0.77	91.84
16MW-19	11/28/2000	100.54	00:00	8.32	0.06	92.22	0.45	92.27
16MW-19	1/16/2001	100.54	00:00	8.60	0.18	91.94	-0.28	92.09
16MW-19	2/27/2001	100.54	00:00	7.37	0.00	93.17	1.23	93.17
16MW-19	3/27/2001	100.54	00:00	6.20	0.08	94.34	1.17	94.41

1- Change in Water Elevation since last reported measurement
2- Measurements based on mean sea level.

Water Level & Product Thickness Data

PERIOD: From 10/06/1979 thru 06/08/2002 - Inclusive

SITE	DATE	MP ELEVATION (feet)	TIME	DEPTH TO WATER (feet)	FLOATING PRODUCT THICKNESS (feet)	WATER ELEV. (feet)	DELTA WATER ELEV (feet)	EQUIV. FRESH WATER HEAD (feet)
16MW-19	4/19/2001	100.54	00:00	6.40	0.11	94.14	-0.20	94.23
16MW-19	5/11/2001	100.54	00:00	7.48	0.12	93.06	-1.08	93.16
16MW-19	6/6/2001	100.54	00:00	7.57	0.10	92.97	-0.09	93.06
16MW-19	8/14/2001	100.54	00:00	7.30	0.05	93.24	0.27	93.28
16MW-19	9/14/2001	100.54	00:00	9.12	0.12	91.42	-1.82	91.52
16MW-19	10/11/2001	100.54	00:00	8.97	0.04	91.57	0.15	91.60
16MW-19	11/13/2001	100.54	00:00	9.10	0.03	91.44	-0.13	91.47
16MW-19	12/13/2001	100.54	00:00	8.97	0.04	91.57	0.13	91.60
16MW-19	1/8/2002	100.54	00:00	8.93	0.06	91.61	0.04	91.66
16MW-19	1/23/2002	100.54	00:00	8.82	0.02	91.72	0.11	91.73
16MW-19	2/28/2002	100.54	00:00	8.98	0.00	91.56	-0.16	91.56
16MW-19	3/28/2002	100.54	00:00	8.00	0.14	92.54	0.98	92.66
16MW-19	4/23/2002	100.54	00:00	8.58	0.03	91.96	-0.58	91.98
16MW-19	6/8/2002	100.54	00:00	8.55	0.03	91.99	0.03	92.01
16MW-20	8/20/1997	100.82	09:26	8.55	0.45	92.28	NA	92.65
16MW-20	10/6/1997	100.82	10:45	8.84	0.46	91.98	-0.30	92.37
16MW-20	12/12/1997	100.82	08:30	8.71	0.61	92.11	0.13	92.63
16MW-20	1/7/1998	100.82	10:49	8.28	0.70	92.55	0.44	93.14
16MW-20	2/10/1998	100.82	00:00	7.25	0.15	93.57	1.02	93.70
16MW-20	2/24/1998	100.82	00:00	6.56	0.08	94.26	0.69	94.33
16MW-20	3/3/1998	100.82	00:00	6.63	0.07	94.19	-0.07	94.25
16MW-20	3/12/1998	100.82	00:00	6.30	0.02	94.52	0.33	94.54
16MW-20	3/26/1998	100.82	00:00	6.20	0.00	94.62	0.10	94.62
16MW-20	4/3/1998	100.82	00:00	6.48	0.04	94.34	-0.28	94.37
16MW-20	4/9/1998	100.82	00:00	6.61	0.02	94.21	-0.13	94.23
16MW-20	4/24/1998	100.82	00:00	6.48	0.00	94.34	0.13	94.34
16MW-20	5/5/1998	100.82	00:00	6.40	0.01	94.42	0.08	94.43
16MW-20	5/15/1998	100.82	00:00	5.54	0.06	95.29	0.86	95.33
16MW-20	7/30/1998	100.82	00:00	7.88	0.37	92.94	-2.34	93.25
16MW-20	8/7/1998	100.82	00:00	7.97	0.05	92.85	-0.09	92.89
16MW-20	8/13/1998	100.82	00:00	8.13	0.05	92.69	-0.17	92.73
16MW-20	8/21/1998	100.82	00:00	8.25	0.05	92.57	-0.12	92.61
16MW-20	9/3/1998	100.82	00:00	8.47	0.06	92.35	-0.22	92.40
16MW-20	9/10/1998	100.82	00:00	8.48	0.02	92.34	-0.01	92.36
16MW-20	10/2/1998	100.82	00:00	8.57	0.05	92.25	-0.10	92.29
16MW-20	10/20/1998	100.82	00:00	8.66	0.00	92.16	-0.09	92.16
16MW-20	12/3/1998	100.82	00:00	8.85	0.06	91.97	-0.19	92.02
16MW-20	1/26/1999	100.82	00:00	7.62	0.03	93.20	1.23	93.22

1- Change in Water Elevation since last reported measurement
2- Measurements based on mean sea level.

Water Level & Product Thickness Data

PERIOD: From 10/06/1979 thru 06/08/2002 - Inclusive

SITE	DATE	MP ELEVATION (feet)	TIME	DEPTH TO WATER (feet)	FLOATING PRODUCT THICKNESS (feet)	WATER ELEV. (feet)	DELTA WATER ELEV (feet)	EQUIV. FRESH WATER HEAD (feet)
16MW-20	3/9/1999	100.82	00:00	7.88	0.03	92.95	-0.26	92.97
16MW-20	3/19/1999	100.82	00:00	7.63	0.01	93.19	0.25	93.20
16MW-20	4/20/1999	100.82	00:00	7.69	0.01	93.14	-0.06	93.14
16MW-20	5/7/1999	100.82	00:00	7.87	0.02	92.96	-0.18	92.97
16MW-20	6/1/1999	100.82	00:00	8.25	0.04	92.57	-0.39	92.60
16MW-20	6/9/1999	100.82	00:01	8.56	0.08	92.26	-0.31	92.33
16MW-20	6/10/1999	100.82	00:00	7.57	0.05	93.25	0.99	93.29
16MW-20	6/22/1999	100.82	09:35	8.59	0.09	92.23	-1.02	92.30
16MW-20	7/29/1999	100.82	00:00	9.40	0.00	91.42	-0.81	91.42
16MW-20	8/3/1999	100.82	00:00	10.25	0.19	90.57	-0.85	90.73
16MW-20	9/3/1999	100.82	00:00	9.45	0.02	91.37	0.80	91.38
16MW-20	9/15/1999	100.82	14:30	9.72	0.07	91.10	-0.27	91.16
16MW-20	11/2/1999	100.82	00:00	10.08	0.32	90.74	-0.36	91.01
16MW-20	11/18/1999	100.82	00:00	9.40	0.00	91.42	0.68	91.42
16MW-20	12/1/1999	100.82	00:00	9.31	0.08	91.51	0.09	91.58
16MW-20	12/31/1999	100.82	00:00	8.84	0.03	91.98	0.47	92.01
16MW-20	1/26/2000	100.82	00:00	9.28	0.09	91.54	-0.44	91.62
16MW-20	2/18/2000	100.82	00:00	8.82	0.06	92.00	0.46	92.05
16MW-20	4/17/2000	100.82	00:00	9.21	0.27	91.61	-0.39	91.84
16MW-20	8/9/2000	100.82	00:00	8.32	0.02	92.50	0.89	92.52
16MW-20	8/24/2000	100.82	14:15	7.70	0.00	93.12	0.62	93.12
16MW-20	10/26/2000	100.82	00:00	9.21	0.04	91.61	-1.51	91.64
16MW-20	1/16/2001	100.82	00:00	9.15	0.16	91.67	0.06	91.81
16MW-20	2/27/2001	100.82	00:00	8.40	0.10	92.42	0.75	92.50
16MW-20	3/27/2001	100.82	00:00	7.80	0.13	93.02	0.60	93.13
16MW-20	4/19/2001	100.82	00:00	7.77	0.17	93.05	0.03	93.20
16MW-20	5/11/2001	100.82	00:00	8.88	0.34	91.94	-1.11	92.23
16MW-20	6/6/2001	100.82	00:00	9.85	0.52	90.97	-0.97	91.41
16MW-20	8/14/2001	100.82	00:00	10.59	0.53	90.23	-0.74	90.68
16MW-20	9/14/2001	100.82	00:00	10.80	0.44	90.02	-0.21	90.40
16MW-20	10/11/2001	100.82	00:00	9.62	0.07	91.20	1.18	91.26
16MW-20	11/13/2001	100.82	00:00	9.73	0.06	91.09	-0.11	91.14
16MW-20	12/13/2001	100.82	00:00	9.67	0.08	91.15	0.06	91.21
16MW-20	1/8/2002	100.82	00:00	9.81	0.16	91.01	-0.14	91.15
16MW-20	1/23/2002	100.82	00:00	9.63	0.10	91.19	0.18	91.28
16MW-20	2/28/2002	100.82	00:00	9.69	0.05	91.13	-0.06	91.17
16MW-20	3/28/2002	100.82	00:00	8.75	0.01	92.07	0.94	92.07
16MW-20	4/23/2002	100.82	00:00	9.30	0.07	91.52	-0.55	91.58
16MW-20	6/8/2002	100.82	00:00	9.19	0.03	91.63	0.11	91.65

1- Change in Water Elevation since last reported measurement
2- Measurements based on mean sea level.

PERIOD: From 10/06/1979 thru 06/08/2002 - Inclusive

SITE	DATE	MP ELEVATION (feet)	TIME	DEPTH TO WATER (feet)	FLOATING PRODUCT THICKNESS (feet)	WATER ELEV. (feet)	DELTA WATER ELEV (feet)	EQUIV. FRESH WATER HEAD (feet)
16MW-21	8/20/1997	99.78	00:00	7.56	0.00	92.22	NA	92.22
16MW-21	8/20/1997	99.78	09:35	7.56	0.00	92.22	0.00	92.22
16MW-21	10/6/1997	99.78	10:45	7.80	0.00	91.98	-0.24	91.98
16MW-21	12/12/1997	99.78	08:30	7.70	0.00	92.08	0.10	92.08
16MW-21	1/7/1998	99.78	10:58	7.12	0.00	92.66	0.58	92.66
16MW-21	2/10/1998	99.78	00:00	6.00	0.00	93.78	1.12	93.78
16MW-21	2/24/1998	99.78	00:00	5.67	0.00	94.11	0.33	94.11
16MW-21	3/3/1998	99.78	00:00	5.40	0.00	94.38	0.27	94.38
16MW-21	3/12/1998	99.78	00:00	5.03	0.00	94.75	0.37	94.75
16MW-21	3/13/1998	99.78	00:00	5.17	0.00	94.61	-0.14	94.61
16MW-21	4/3/1998	99.78	00:00	5.25	0.00	94.53	-0.08	94.53
16MW-21	4/9/1998	99.78	00:00	5.55	0.00	94.23	-0.30	94.23
16MW-21	4/17/1998	99.78	00:00	6.45	0.01	93.33	-0.90	93.34
16MW-21	4/24/1998	99.78	00:00	5.93	0.00	93.85	0.52	93.85
16MW-21	5/5/1998	99.78	00:00	4.83	0.00	94.95	1.10	94.95
16MW-21	5/15/1998	99.78	00:00	4.10	0.00	95.68	0.73	95.68
16MW-21	7/30/1998	99.78	00:00	6.95	0.00	92.83	-2.85	92.83
16MW-21	8/7/1998	99.78	00:00	7.21	0.00	92.57	-0.26	92.57
16MW-21	8/13/1998	99.78	00:00	7.41	0.00	92.37	-0.20	92.37
16MW-21	8/21/1998	99.78	00:00	7.51	0.00	92.27	-0.10	92.27
16MW-21	9/3/1998	99.78	00:00	7.57	0.00	92.21	-0.06	92.21
16MW-21	9/10/1998	99.78	00:00	7.70	0.00	92.08	-0.13	92.08
16MW-21	10/2/1998	99.78	00:00	7.77	0.00	92.01	-0.07	92.01
16MW-21	10/20/1998	99.78	00:00	7.86	0.00	91.92	-0.09	91.92
16MW-21	12/3/1998	99.78	00:00	8.00	0.00	91.78	-0.14	91.78
16MW-21	1/26/1999	99.78	00:00	5.05	0.00	94.73	2.95	94.73
16MW-21	3/9/1999	99.78	00:00	6.57	0.00	93.21	-1.52	93.21
16MW-21	3/19/1999	99.78	00:00	5.56	0.00	94.22	1.01	94.22
16MW-21	4/20/1999	99.78	00:00	6.40	0.00	93.38	-0.84	93.38
16MW-21	6/1/1999	99.78	00:00	7.45	0.00	92.33	-1.05	92.33
16MW-21	6/9/1999	99.78	00:01	7.15	0.00	92.63	0.30	92.63
16MW-21	6/22/1999	99.78	09:40	7.00	0.00	92.78	0.15	92.78
16MW-21	7/29/1999	99.78	00:00	8.75	0.00	91.03	-1.75	91.03
16MW-21	8/3/1999	99.78	00:00	8.89	0.00	90.89	-0.14	90.89
16MW-21	9/15/1999	99.78	14:35	8.70	0.00	91.08	0.19	91.08
16MW-21	11/12/1999	99.78	00:00	9.17	0.03	90.61	-0.47	90.64
16MW-21	11/18/1999	99.78	00:00	8.33	0.00	91.45	0.84	91.45
16MW-21	2/18/2000	99.78	00:00	7.51	0.00	92.27	0.82	92.27

1- Change in Water Elevation since last reported measurement
2- Measurements based on mean sea level.

Water Level & Product Thickness Data

PERIOD: From 10/06/1979 thru 06/08/2002 - Inclusive

SITE	DATE	MP ELEVATION (feet)	TIME	DEPTH TO WATER (feet)	FLOATING PRODUCT THICKNESS (feet)	WATER ELEV. (feet)	DELTA WATER ELEV (feet)	EQUIV. FRESH WATER HEAD (feet)
16MW-21	4/17/2000	99.78	00:00	7.35	0.00	92.43	0.16	92.43
16MW-21	5/4/2000	99.78	00:00	7.20	0.00	92.58	0.15	92.58
16MW-21	8/9/2000	99.78	00:00	6.20	0.00	93.58	1.00	93.58
16MW-21	8/24/2000	99.78	14:20	7.88	0.00	91.90	-1.68	91.90
16MW-21	10/26/2000	99.78	00:00	8.30	0.00	91.48	-0.42	91.48
16MW-21	1/16/2001	99.78	00:00	7.80	0.00	91.98	0.50	91.98
16MW-21	2/27/2001	99.78	00:00	7.27	0.00	92.51	0.53	92.51
16MW-21	3/27/2001	99.78	00:00	5.65	0.00	94.13	1.62	94.13
16MW-21	4/19/2001	99.78	00:00	5.70	0.00	94.08	-0.05	94.08
16MW-21	5/11/2001	99.78	00:00	6.95	0.00	92.83	-1.25	92.83
16MW-21	6/6/2001	99.78	00:00	7.19	0.00	92.59	-0.24	92.59
16MW-21	8/14/2001	99.78	00:00	8.00	0.00	91.78	-0.81	91.78
16MW-21	9/14/2001	99.78	00:00	8.51	0.00	91.27	-0.51	91.27
16MW-21	10/11/2001	99.78	00:00	8.59	0.00	91.19	-0.08	91.19
16MW-21	11/13/2001	99.78	00:00	8.74	0.00	91.04	-0.15	91.04
16MW-21	12/13/2001	99.78	00:00	8.58	0.00	91.20	0.16	91.20
16MW-21	1/8/2002	99.78	00:00	8.41	0.00	91.37	0.17	91.37
16MW-21	1/23/2002	99.78	00:00	8.46	0.00	91.32	-0.05	91.32
16MW-21	2/28/2002	99.78	00:00	8.69	0.00	91.09	-0.23	91.09
16MW-21	3/28/2002	99.78	00:00	5.86	0.00	93.92	2.83	93.92
16MW-21	4/23/2002	99.78	00:00	8.22	0.03	91.56	-2.36	91.58
16MW-21	6/8/2002	99.78	00:00	8.26	0.00	91.52	-0.04	91.52
16MW-22	12/12/1997	102.22	00:00	7.70	0.00	94.52	NA	94.52
16MW-22	1/7/1998	102.22	00:00	5.34	0.00	96.88	2.36	96.88
16MW-22	2/10/1998	102.22	00:00	2.98	0.00	99.24	2.36	99.24
16MW-22	2/24/1998	102.22	00:00	1.60	0.00	100.62	1.38	100.62
16MW-22	3/3/1998	102.22	00:00	2.87	0.00	99.35	-1.27	99.35
16MW-22	3/26/1998	102.22	00:00	1.85	0.00	100.37	1.02	100.37
16MW-22	4/3/1998	102.22	00:00	2.05	0.00	100.17	-0.20	100.17
16MW-22	4/17/1998	102.22	00:00	2.10	0.00	100.12	-0.05	100.12
16MW-22	4/24/1998	102.22	00:00	1.52	0.00	100.70	0.58	100.70
16MW-22	5/5/1998	102.22	00:00	0.00	0.00	102.22	1.52	102.22
16MW-22	5/15/1998	102.22	00:00	2.86	0.00	99.36	-2.86	99.36
16MW-22	7/30/1998	102.22	00:00	6.03	0.00	96.19	-3.17	96.19
16MW-22	8/13/1998	102.22	00:00	6.10	0.00	96.12	-0.07	96.12
16MW-22	10/2/1998	102.22	00:00	7.78	0.00	94.44	-1.68	94.44
16MW-22	11/6/1998	102.22	00:00	8.79	0.00	93.43	-1.01	93.43
16MW-22	1/26/1999	102.22	00:00	1.81	0.00	100.41	6.98	100.41

1- Change in Water Elevation since last reported measurement
2- Measurements based on mean sea level.

Water Level & Product Thickness Data

PERIOD: From 10/06/1979 thru 06/08/2002 - Inclusive

SITE	DATE	MP ELEVATION (feet)	TIME	DEPTH TO WATER (feet)	FLOATING PRODUCT THICKNESS (feet)	WATER ELEV. (feet)	DELTA WATER ELEV (feet)	EQUIV. FRESH WATER HEAD (feet)
16MW-22	3/9/1999	102.22	00:00	3.45	0.00	98.77	-1.64	98.77
16MW-22	3/19/1999	102.22	00:00	8.38	0.00	93.84	-4.93	93.84
16MW-22	4/20/1999	102.22	00:00	4.15	0.00	98.07	4.23	98.07
16MW-22	5/7/1999	102.22	00:00	7.05	0.00	95.17	-2.90	95.17
16MW-22	6/1/1999	102.22	00:00	5.81	0.00	96.41	1.24	96.41
16MW-22	6/9/1999	102.22	00:01	6.11	0.00	96.11	-0.30	96.11
16MW-22	6/14/1999	102.22	13:45	7.57	0.05	94.65	-1.46	94.69
16MW-22	6/22/1999	102.22	10:15	7.11	0.00	95.11	0.46	95.11
16MW-22	5/4/2000	102.22	00:00	8.86	0.00	93.36	-1.75	93.36
16MW-23	12/12/1997	102.58	08:30	9.19	0.00	93.39	NA	93.39
16MW-23	1/7/1998	102.58	09:35	8.67	0.00	93.91	0.52	93.91
16MW-23	1/7/1998	102.58	09:49	8.67	0.00	93.91	0.00	93.91
16MW-23	2/10/1998	102.58	00:00	2.98	0.00	99.60	5.69	99.60
16MW-23	2/24/1998	102.58	00:00	7.20	0.00	95.38	-4.22	95.38
16MW-23	3/3/1998	102.58	00:00	7.10	0.00	95.48	0.10	95.48
16MW-23	3/26/1998	102.58	00:00	6.60	0.00	95.98	0.50	95.98
16MW-23	4/3/1998	102.58	00:00	6.90	0.00	95.68	-0.30	95.68
16MW-23	4/17/1998	102.58	00:00	6.95	0.00	95.63	-0.05	95.63
16MW-23	4/24/1998	102.58	00:00	6.84	0.00	95.74	0.11	95.74
16MW-23	5/5/1998	102.58	00:00	0.00	0.00	102.58	6.84	102.58
16MW-23	5/15/1998	102.58	00:00	5.89	0.00	96.69	-5.89	96.69
16MW-23	7/30/1998	102.58	00:00	8.03	0.00	94.55	-2.14	94.55
16MW-23	8/13/1998	102.58	00:00	8.46	0.00	94.12	-0.43	94.12
16MW-23	10/2/1998	102.58	00:00	9.03	0.00	93.55	-0.57	93.55
16MW-23	1/26/1999	102.58	00:00	8.21	0.00	94.37	0.82	94.37
16MW-23	3/9/1999	102.58	00:00	8.53	0.00	94.05	-0.32	94.05
16MW-23	3/19/1999	102.58	00:00	8.31	0.00	94.27	0.22	94.27
16MW-23	4/20/1999	102.58	00:00	8.32	0.00	94.26	-0.01	94.26
16MW-23	6/1/1999	102.58	00:00	8.80	0.00	93.78	-0.48	93.78
16MW-23	6/9/1999	102.58	00:01	9.01	0.00	93.57	-0.21	93.57
16MW-23	6/22/1999	102.58	10:00	9.75	0.00	92.83	-0.74	92.83
16MW-23	8/3/1999	102.58	00:00	10.00	0.00	92.58	-0.25	92.58
16MW-23	9/15/1999	102.58	15:00	10.11	0.00	92.47	-0.11	92.47
16MW-23	4/17/2000	102.58	00:00	NM	NA	NA	NA	NA
16MW-23	5/4/2000	102.58	00:00	D	NA	NA	NA	NA
16MW-24	3/27/2001	102.06	00:00	8.15	0.00	93.91	NA	93.91
16MW-24	4/19/2001	102.06	00:00	7.83	0.00	94.23	0.32	94.23

1- Change in Water Elevation since last reported measurement
2- Measurements based on mean sea level.

Water Level & Product Thickness Data

PERIOD: From 10/06/1979 thru 06/08/2002 - Inclusive

SITE	DATE	MP ELEVATION (feet)	TIME	DEPTH TO WATER (feet)	FLOATING PRODUCT THICKNESS (feet)	WATER ELEV. (feet)	DELTA WATER ELEV (feet)	EQUIV. FRESH WATER HEAD (feet)
16MW-24	5/11/2001	102.06	00:00	8.49	0.00	93.57	-0.66	93.57
16MW-24	8/14/2001	102.06	00:00	9.48	0.00	92.58	-0.99	92.58
16MW-24	9/14/2001	102.06	00:00	9.93	0.00	92.13	-0.45	92.13
16MW-24	10/11/2001	102.06	00:00	10.12	0.00	91.94	-0.19	91.94
16MW-24	11/13/2001	102.06	00:00	10.31	0.00	91.75	-0.19	91.75
16MW-24	12/13/2001	102.06	00:00	10.23	0.00	91.83	0.08	91.83
16MW-24	1/8/2002	102.06	00:00	10.13	0.00	91.93	0.10	91.93
16MW-24	1/23/2002	102.06	00:00	10.19	0.00	91.87	-0.06	91.87
16MW-24	2/28/2002	102.06	00:00	10.34	0.00	91.72	-0.15	91.72
16MW-24	3/28/2002	102.06	00:00	9.62	0.00	92.44	0.72	92.44
16MW-24	4/23/2002	102.06	00:00	9.88	0.00	92.18	-0.26	92.18
16MW-24	6/8/2002	102.06	00:00	9.88	0.00	92.18	0.00	92.18
16MW-25	3/27/2001	100.92	00:00	8.01	0.00	92.91	NA	92.91
16MW-25	4/19/2001	100.92	00:00	6.20	0.00	94.72	1.81	94.72
16MW-25	8/14/2001	100.92	00:00	8.48	0.02	92.44	-2.28	92.45
16MW-25	9/14/2001	100.92	00:00	8.91	0.01	92.01	-0.43	92.02
16MW-25	10/11/2001	100.92	00:00	9.08	0.02	91.84	-0.17	91.85
16MW-25	11/13/2001	100.92	00:00	9.23	0.01	91.69	-0.15	91.70
16MW-25	12/13/2001	100.92	00:00	9.18	0.01	91.74	0.05	91.75
16MW-25	1/8/2002	100.92	00:00	9.07	0.01	91.85	0.11	91.85
16MW-25	1/23/2002	100.92	00:00	9.11	0.00	91.81	-0.04	91.81
16MW-25	2/28/2002	100.92	00:00	9.28	0.00	91.64	-0.17	91.64
16MW-25	3/28/2002	100.92	00:00	8.50	0.01	92.42	0.78	92.43
16MW-25	4/23/2002	100.92	00:00	8.84	0.01	92.08	-0.34	92.09
16MW-25	6/8/2002	100.92	00:00	8.81	0.02	92.11	0.03	92.12
16MW-26	3/27/2001	101.67	00:00	8.52	0.01	93.15	NA	93.15
16MW-26	4/19/2001	101.67	00:00	5.82	0.00	95.85	2.70	95.85
16MW-26	5/11/2001	101.67	00:00	8.41	0.01	93.26	-2.59	93.26
16MW-26	8/14/2001	101.67	00:00	9.22	0.00	92.45	-0.81	92.45
16MW-26	9/14/2001	101.67	00:00	9.90	0.00	91.77	-0.68	91.77
16MW-26	10/11/2001	101.67	00:00	9.08	0.00	92.59	0.82	92.59
16MW-26	11/13/2001	101.67	00:00	10.38	0.00	91.29	-1.30	91.29
16MW-26	12/13/2001	101.67	00:00	9.97	0.01	91.70	0.41	91.70
16MW-26	6/8/2002	101.67	00:00	7.50	0.00	94.17	2.47	94.17
16MW-27	3/27/2001	100.80	00:00	10.22	0.58	90.58	NA	91.07
16MW-27	4/19/2001	100.80	00:00	9.53	0.79	91.27	0.69	91.95

1- Change in Water Elevation since last reported measurement
2- Measurements based on mean sea level.

Water Level & Product Thickness Data

PERIOD: From 10/06/1979 thru 06/08/2002 - Inclusive

SITE	DATE	MP ELEVATION (feet)	TIME	DEPTH TO WATER (feet)	FLOATING PRODUCT THICKNESS (feet)	WATER ELEV. (feet)	DELTA WATER ELEV (feet)	EQUIV. FRESH WATER HEAD (feet)
16MW-27	5/11/2001	100.80	00:00	9.63	0.66	91.17	-0.10	91.73
16MW-27	8/14/2001	100.80	00:00	9.22	0.25	91.58	0.41	91.79
16MW-27	9/14/2001	100.80	00:00	9.67	0.25	91.13	-0.45	91.34
16MW-27	10/11/2001	100.80	00:00	9.48	0.15	91.32	0.19	91.45
16MW-27	11/13/2001	100.80	00:00	10.26	0.33	90.54	-0.78	90.82
16MW-27	12/13/2001	100.80	00:00	9.79	0.22	91.01	0.47	91.19
16MW-27	1/8/2002	100.80	00:00	10.55	0.40	90.25	-0.76	90.59
16MW-27	1/23/2002	100.80	00:00	10.14	0.32	90.66	0.41	90.93
16MW-27	2/28/2002	100.80	00:00	10.40	0.35	90.40	-0.26	90.70
16MW-27	3/28/2002	100.80	00:00	9.56	0.32	91.24	0.84	91.51
16MW-27	4/23/2002	100.80	00:00	9.92	0.34	90.88	-0.36	91.17
16MW-27	6/8/2002	100.80	00:00	9.15	0.11	91.65	0.77	91.75
16MW-28	3/27/2001	100.62	00:00	7.46	0.00	93.16	NA	93.16
16MW-28	4/19/2001	100.62	00:00	7.85	0.01	92.77	-0.39	92.78
16MW-28	5/11/2001	100.62	00:00	7.16	0.66	93.46	0.69	94.02
16MW-28	8/14/2001	100.62	00:00	8.27	0.00	92.35	-1.11	92.35
16MW-28	9/14/2001	100.62	00:00	8.62	0.00	92.00	-0.35	92.00
16MW-28	10/11/2001	100.62	00:00	8.81	0.00	91.81	-0.19	91.81
16MW-28	11/13/2001	100.62	00:00	8.94	0.00	91.68	-0.13	91.68
16MW-28	12/13/2001	100.62	00:00	8.87	0.00	91.75	0.07	91.75
16MW-28	1/8/2002	100.62	00:00	9.00	0.00	91.62	-0.13	91.62
16MW-28	1/23/2002	100.62	00:00	8.84	0.00	91.78	0.16	91.78
16MW-28	2/28/2002	100.62	00:00	9.01	0.00	91.61	-0.17	91.61
16MW-28	3/28/2002	100.62	00:00	8.30	0.00	92.32	0.71	92.32
16MW-28	4/23/2002	100.62	00:00	8.56	0.00	92.06	-0.26	92.06
16MW-28	6/8/2002	100.62	00:00	8.55	0.00	92.07	0.01	92.07
C17MW-07	10/6/1979	100.16	00:00	8.19	1.28	91.97	NA	93.06
C17MW-07	12/12/1997	100.16	00:00	7.91	1.26	92.25	0.28	93.32
C17MW-07	1/7/1998	100.16	00:00	7.52	1.42	92.64	0.39	93.85
C17MW-07	1/15/1998	100.16	00:00	7.37	0.20	92.80	0.16	92.96
C17MW-07	2/10/1998	100.16	00:00	6.55	0.84	93.62	0.82	94.33
C17MW-07	2/24/1998	100.16	00:00	1.95	1.35	98.21	4.60	99.36
C17MW-07	3/3/1998	100.16	00:00	5.89	0.49	94.27	-3.94	94.69
C17MW-07	3/12/1998	100.16	00:00	5.45	0.18	94.71	0.44	94.86
C17MW-07	3/13/1998	100.16	00:00	5.56	0.14	94.61	-0.11	94.72
C17MW-07	3/26/1998	100.16	00:00	5.31	0.01	94.85	0.24	94.86
C17MW-07	4/3/1998	100.16	00:00	5.62	0.09	94.54	-0.31	94.61

1- Change in Water Elevation since last reported measurement
2- Measurements based on mean sea level.

Water Level & Product Thickness Data

PERIOD: From 10/06/1979 thru 06/08/2002 - Inclusive

SITE	DATE	MP ELEVATION (feet)	TIME	DEPTH TO WATER (feet)	FLOATING PRODUCT THICKNESS (feet)	WATER ELEV. (feet)	DELTA WATER ELEV (feet)	EQUIV. FRESH WATER HEAD (feet)
C17MW-07	4/9/1998	100.16	00:00	5.77	0.08	94.39	-0.15	94.46
C17MW-07	4/17/1998	100.16	00:00	5.62	0.12	94.54	0.15	94.64
C17MW-07	4/24/1998	100.16	00:00	5.50	0.13	94.66	0.12	94.77
C17MW-07	5/5/1998	100.16	00:00	5.67	0.28	94.49	-0.17	94.77
C17MW-07	5/15/1998	100.16	00:00	4.83	0.22	95.33	0.83	95.52
C17MW-07	7/30/1998	100.16	00:00	7.25	1.12	92.91	-2.42	93.86
C17MW-07	8/7/1998	100.16	00:00	7.07	0.25	93.10	0.19	93.30
C17MW-07	8/13/1998	100.16	00:00	7.23	0.25	92.93	-0.17	93.14
C17MW-07	8/21/1998	100.16	00:00	7.27	0.11	92.89	-0.04	92.98
C17MW-07	9/3/1998	100.16	00:00	7.31	0.15	92.85	-0.04	92.98
C17MW-07	9/10/1998	100.16	00:00	7.42	0.09	92.75	-0.11	92.82
C17MW-07	10/2/1998	100.16	00:00	7.55	0.21	92.62	-0.13	92.79
C17MW-07	10/20/1998	100.16	00:00	7.58	0.10	92.58	-0.04	92.67
C17MW-07	12/3/1998	100.16	00:00	7.72	0.08	92.44	-0.14	92.51
C17MW-07	12/23/1998	100.16	00:00	7.67	0.12	92.49	0.05	92.59
C17MW-07	1/26/1999	100.16	00:00	6.35	0.10	93.81	1.32	93.90
C17MW-07	3/9/1999	100.16	00:00	6.61	0.11	93.55	-0.26	93.64
C17MW-07	3/19/1999	100.16	00:00	6.23	0.08	93.93	0.39	94.00
C17MW-07	4/20/1999	100.16	00:00	6.61	0.11	93.56	-0.38	93.64
C17MW-07	5/7/1999	100.16	00:00	6.78	0.08	93.39	-0.17	93.45
C17MW-07	6/1/1999	100.16	00:00	7.19	0.14	92.97	-0.42	93.09
C17MW-07	6/9/1999	100.16	00:00	7.20	0.00	92.96	-0.01	92.96
C17MW-07	6/9/1999	100.16	00:01	7.57	0.28	92.60	-0.37	92.83
C17MW-07	6/10/1999	100.16	00:00	7.54	0.13	92.62	0.03	92.73
C17MW-07	6/14/1999	100.16	13:35	7.54	0.13	92.62	0.00	92.73
C17MW-07	6/22/1999	100.16	09:25	7.60	0.32	92.56	-0.06	92.83
C17MW-07	7/29/1999	100.16	00:00	10.40	0.60	89.76	-2.80	90.27
C17MW-07	8/3/1999	100.16	00:00	10.62	0.63	89.54	-0.22	90.08
C17MW-07	8/13/1999	100.16	00:00	10.96	0.70	89.20	-0.34	89.20
C17MW-07	9/3/1999	100.16	00:00	8.37	0.04	91.79	2.59	91.83
C17MW-07	9/15/1999	100.16	14:15	9.37	0.29	90.79	-1.00	90.82
C17MW-07	10/26/1999	100.16	00:00	11.04	1.02	89.12	-1.67	89.99
C17MW-07	11/2/1999	100.16	00:00	10.99	0.93	89.17	0.05	89.17
C17MW-07	11/18/1999	100.16	00:00	8.56	0.17	91.60	2.43	91.74
C17MW-07	12/1/1999	100.16	00:00	8.45	0.19	91.71	0.11	91.87
C17MW-07	12/31/1999	100.16	00:00	8.30	0.22	91.86	0.15	92.05
C17MW-07	1/26/2000	100.16	00:00	8.20	0.12	91.96	0.10	92.06
C17MW-07	2/18/2000	100.16	00:00	7.47	0.03	92.69	0.73	92.72
C17MW-07	4/17/2000	100.16	00:00	7.38	0.08	92.78	0.09	92.85

1- Change in Water Elevation since last reported measurement
2- Measurements based on mean sea level.

Water Level & Product Thickness Data

PERIOD: From 10/06/1979 thru 06/08/2002 - Inclusive

SITE	DATE	MP ELEVATION (feet)	TIME	DEPTH TO WATER (feet)	FLOATING PRODUCT THICKNESS (feet)	WATER ELEV. (feet)	DELTA WATER ELEV (feet)	EQUIV. FRESH WATER HEAD (feet)
C17MW-07	5/4/2000	100.16	00:00	7.92	0.06	92.24	-0.54	92.29
C17MW-07	8/9/2000	100.16	00:00	7.07	0.06	93.09	0.85	93.14
C17MW-07	8/24/2000	100.16	00:00	7.50	0.02	92.66	-0.43	92.68
C17MW-07	10/26/2000	100.16	00:00	8.08	0.06	92.08	-0.58	92.13
C17MW-07	11/28/2000	100.16	00:00	8.00	0.16	92.16	0.08	92.30
C17MW-07	1/16/2001	100.16	00:00	8.10	0.20	92.06	-0.10	92.23
C17MW-07	2/27/2001	100.16	00:00	6.42	0.01	93.74	1.68	93.74
C17MW-07	3/27/2001	100.16	00:00	6.25	0.04	93.91	0.17	93.95
C17MW-07	4/19/2001	100.16	00:00	6.44	0.14	93.72	-0.19	93.84
C17MW-07	5/11/2001	100.16	00:00	7.19	0.15	92.97	-0.75	93.10
C17MW-07	6/6/2001	100.16	00:00	7.57	0.19	92.59	-0.38	92.75
C17MW-07	8/14/2001	100.16	00:00	8.96	0.37	91.20	-1.39	91.52
C17MW-07	9/14/2001	100.16	00:00	8.76	0.18	91.40	0.20	91.55
C17MW-07	10/11/2001	100.16	00:00	8.36	0.04	91.80	0.40	91.83
C17MW-07	11/13/2001	100.16	00:00	8.91	0.15	91.25	-0.55	91.38
C17MW-07	12/13/2001	100.16	00:00	8.93	0.21	91.23	-0.02	91.41
C17MW-07	1/8/2002	100.16	00:00	9.38	0.38	90.78	-0.45	91.11
C17MW-07	1/23/2002	100.16	00:00	9.70	0.47	90.46	-0.32	90.86
C17MW-07	2/28/2002	100.16	00:00	9.21	0.26	90.95	0.49	91.17
C17MW-07	3/28/2002	100.16	00:00	8.30	0.38	91.86	0.91	92.18
C17MW-07	4/23/2002	100.16	00:00	8.70	0.28	91.46	-0.40	91.70
C17MW-07	6/8/2002	100.16	00:00	8.80	0.34	91.36	-0.10	91.65

1- Change in Water Elevation since last reported measurement
2- Measurements based on mean sea level.

APPENDIX C
ANALYTICAL SUMMARY TABLES FOR AIR DISCHARGES AND ASSOCIATED DATA

U.S. Navy RAC Contract No. N62472-99-D-0032
Naval Weapons Station-Earle: Bioslurper No. 1
Analytical Results of Air Samples

Bioslurper Unit #1

SAMPLE NO. 16(A)VD(02)18-A **Sample Date:** 4/2/2002 **Compound**	**Molecular Weight (lbs/lbs-mol)**	**Conversion Constant (cu. ft/lbs-mol)**	**Time Conversion (min/hr)**	**Weekly Flow Rate (cu. ft/min)**	**Compound Conc. (ppm(v))**	**Compound Emission Limit ppm(v)**	**Output Rate (lbs/hr)**	**Emission Limits (lbs/hr)**
Acetone	58.1	384.6	60.0	68.0	0.000	N/A	0.00E+00	
Benzene	78.0	384.6	60.0	68.0	**0.000**	**7.0**	**0.00E+00**	**8.00E-03**
Toluene	92.0	384.6	60.0	68.0	0.010	N/A	9.76E-06	
Ethylbenzene	106.0	384.6	60.0	68.0	0.000	N/A	0.00E+00	
m,p-Xylenes	106.0	384.6	60.0	68.0	0.000	N/A	0.00E+00	
o-Xylene	106.0	384.6	60.0	68.0	0.000	N/A	0.00E+00	
1,3,5-Trimethylbenzene	120.0	384.6	60.0	68.0	0.000	N/A	0.00E+00	
1,2,4-Trimethylbenzene	120.0	384.6	60.0	68.0	0.000	N/A	0.00E+00	
			Total Emissions:		**0.01**	**27.5**	**9.76E-06**	**3.50E-02**

Formula: Output Rate per Compound = $\frac{\text{(Mol. Wt.)x(Time Conv.)x(Concentration)x(Flow Rate)}}{\text{(Conv. Constant)x}10^6}$

Note: Sample collected after carbon treatment.

U.S. Navy RAC Contract No. N62472-99-D-0032
Naval Weapons Station-Earle: Bioslurper No. 2
Analytical Results of Air Samples

Bioslurper Unit #2

SAMPLE NO. 16(B)VD(02)-07-2 **Sample Date:** 3/28/2002 **Compound**	**Molecular Weight (lbs/lbs-mol)**	**Conversion Constant (cu. ft/lbs-mol)**	**Time Conversion (min/hr)**	**Weekly Flow Rate (cu. ft/min)**	**Compound Conc. (ppm(v))**	**Compound Emission Limit ppm(v)**	**Output Rate (lbs/hr)**	**Emission Limits (lbs/hr)**
Acetone	58.1	384.6	60.0	68.0	0.000	N/A	0.00E+00	
Benzene	78.0	384.6	60.0	68.0	**0.140**	**7.0**	**1.16E-04**	**8.00E-03**
Toluene	92.0	384.6	60.0	68.0	0.015	N/A	1.46E-05	
Ethylbenzene	106.0	384.6	60.0	68.0	0.560	N/A	6.30E-04	
m,p-Xylenes	106.0	384.6	60.0	68.0	0.910	N/A	1.02E-03	
o-Xylene	106.0	384.6	60.0	68.0	0.150	N/A	1.69E-04	
1,3,5-Trimethylbenzene	120.0	384.6	60.0	68.0	0.450	N/A	5.73E-04	
1,2,4-Trimethylbenzene	120.0	384.6	60.0	68.0	2.800	N/A	3.56E-03	
			Total Emissions:		**5.03**	**27.5**	**6.09E-03**	**3.50E-02**

Formula: Output Rate per Compound = $\frac{(\text{Mol. Wt.})\text{x}(\text{Time Conv.})\text{x}(\text{Concentration})\text{x}(\text{Flow Rate})}{(\text{Conv. Constant})\text{x}10^6}$

Note: Sample collected after carbon treatment.

U.S. Navy RAC Contract No. N62472-99-D-0032
Naval Weapons Station-Earle: Bioslurper No. 1
Analytical Results of Air Samples

Bioslurper Unit #1

SAMPLE NO. 16(A)VD0(01)-20 **Sample Date:** 4/23/2002 **Compound**	**Molecular Weight (lbs/lbs-mol)**	**Conversion Constant (cu. ft/lbs-mol)**	**Time Conversion (min/hr)**	**Weekly Flow Rate (cu. ft/min)**	**Compound Conc. (ppm(v))**	**Compound Emission Limit ppm(v)**	**Output Rate (lbs/hr)**	**Emission Limits (lbs/hr)**
Acetone	58.1	384.6	60.0	68.0	0.0	N/A	0.00E+00	
Benzene	78.0	384.6	60.0	68.0	**0.000**	**7.0**	**0.00E+00**	**8.00E-03**
Toluene	92.0	384.6	60.0	68.0	0.0	N/A	0.00E+00	
Ethylbenzene	106.0	384.6	60.0	68.0	0.000	N/A	0.00E+00	
m,p-Xylenes	106.0	384.6	60.0	68.0	0.00	N/A	0.00E+00	
o-Xylene	106.0	384.6	60.0	68.0	0.000	N/A	0.00E+00	
1,3,5-Trimethylbenzene	120.0	384.6	60.0	68.0	0.000	N/A	0.00E+00	
1,2,4-Trimethylbenzene	120.0	384.6	60.0	68.0	0.000	N/A	0.00E+00	
			Total Emissions:		**0.00**	**27.5**	**0.00E+00**	**3.50E-02**

Formula: Output Rate per Compound = $\frac{(\text{Mol. Wt.})\text{x}(\text{Time Conv.})\text{x}(\text{Concentration})\text{x}(\text{Flow Rate})}{(\text{Conv. Constant})\text{x}10^6}$

Note: Sample collected after carbon treatment.

U.S. Navy RAC Contract No. N62472-99-D-0032
Naval Weapons Station-Earle: Bioslurper No. 2
Analytical Results of Air Samples

Bioslurper Unit #2

SAMPLE NO. 16(B)VD(02)-08 **Sample Date:** 4/23/2002 **Compound**	**Molecular Weight (lbs/lbs-mol)**	**Conversion Constant (cu. ft/lbs-mol)**	**Time Conversion (min/hr)**	**Weekly Flow Rate (cu. ft/min)**	**Compound Conc. (ppm(v))**	**Compound Emission Limit ppm(v)**	**Output Rate (lbs/hr)**	**Emission Limits (lbs/hr)**
Acetone	58.1	384.6	60.0	68.0	0.000	N/A	0.00E+00	
Benzene	78.0	384.6	60.0	68.0	**0.087**	**7.0**	**7.20E-05**	**8.00E-03**
Toluene	92.0	384.6	60.0	68.0	0.012	N/A	1.17E-05	
Ethylbenzene	106.0	384.6	60.0	68.0	0.510	N/A	5.73E-04	
m,p-Xylenes	106.0	384.6	60.0	68.0	0.640	N/A	7.20E-04	
o-Xylene	106.0	384.6	60.0	68.0	0.120	N/A	1.35E-04	
1,3,5-Trimethylbenzene	120.0	384.6	60.0	68.0	0.350	N/A	4.46E-04	
1,2,4-Trimethylbenzene	120.0	384.6	60.0	68.0	2.200	N/A	2.80E-03	
			Total Emissions:		**3.92**	**27.5**	**4.76E-03**	**3.50E-02**

Formula: Output Rate per Compound = $\frac{\text{(Mol. Wt.)x(Time Conv.)x(Concentration)x(Flow Rate)}}{\text{(Conv. Constant)x}10^6}$

Note: Sample collected after carbon treatment.

U.S. Navy RAC Contract No. N62472-99-D-0032
Naval Weapons Station-Earle: Bioslurper No. 1
Analytical Results of Air Samples

Bioslurper Unit #1

SAMPLE NO. 16(A)VD(02)-21 **Sample Date:** 5/29/2002 **Compound**	**Molecular Weight (lbs/lbs-mol)**	**Conversion Constant (cu. ft/lbs-mol)**	**Time Conversion (min/hr)**	**Weekly Flow Rate (cu. ft/min)**	**Compound Conc. (ppm(v))**	**Compound Emission Limit ppm(v)**	**Output Rate (lbs/hr)**	**Emission Limits (lbs/hr)**
Acetone	58.1	384.6	60.0	43.0	0.011	N/A	4.29E-06	
Benzene	78.0	384.6	60.0	43.0	**0.006**	**7.0**	**3.35E-06**	**8.00E-03**
Toluene	92.0	384.6	60.0	43.0	0.001	N/A	5.86E-07	
Ethylbenzene	106.0	384.6	60.0	43.0	0.002	N/A	1.71E-06	
m,p-Xylenes	106.0	384.6	60.0	43.0	0.008	N/A	5.83E-06	
o-Xylene	106.0	384.6	60.0	43.0	0.002	N/A	1.56E-06	
1,3,5-Trimethylbenzene	120.0	384.6	60.0	43.0	0.002	N/A	1.29E-06	
1,2,4-Trimethylbenzene	120.0	384.6	60.0	43.0	0.004	N/A	3.22E-06	
			Total Emissions:		**0.04**	**27.5**	**2.18E-05**	**3.50E-02**

Formula: Output Rate per Compound = $\frac{(\text{Mol. Wt.})\text{x}(\text{Time Conv.})\text{x}(\text{Concentration})\text{x}(\text{Flow Rate})}{(\text{Conv. Constant})\text{x}10^6}$

Note: Sample collected after carbon treatment.

U.S. Navy RAC Contract No. N62472-99-D-0032
Naval Weapons Station-Earle: Bioslurper No. 2
Analytical Results of Air Samples

Bioslurper Unit #2

SAMPLE NO. 16(B)VD(02)-09 **Sample Date:** 10/30/2000 **Compound**	**Molecular Weight (lbs/lbs-mol)**	**Conversion Constant (cu. ft/lbs-mol)**	**Time Conversion (min/hr)**	**Weekly Flow Rate (cu. ft/min)**	**Compound Conc. (ppm(v))**	**Compound Emission Limit ppm(v)**	**Output Rate (lbs/hr)**	**Emission Limits (lbs/hr)**
Acetone	58.1	384.6	60.0	68.0	0.0	N/A	0.00E+00	
Benzene	78.0	384.6	60.0	68.0	**0.064**	**7.0**	**5.30E-05**	**8.00E-03**
Toluene	92.0	384.6	60.0	68.0	0.0	N/A	0.00E+00	
Ethylbenzene	106.0	384.6	60.0	68.0	0.710	N/A	7.98E-04	
m,p-Xylenes	106.0	384.6	60.0	68.0	1.60	N/A	1.80E-03	
o-Xylene	106.0	384.6	60.0	68.0	0.130	N/A	1.46E-04	
1,3,5-Trimethylbenzene	120.0	384.6	60.0	68.0	1.300	N/A	1.65E-03	
1,2,4-Trimethylbenzene	120.0	384.6	60.0	68.0	5.700	N/A	7.26E-03	
			Total Emissions:		**9.50**	**27.5**	**1.17E-02**	**3.50E-02**

Formula: Output Rate per Compound = $\frac{(\text{Mol. Wt.})\text{x}(\text{Time Conv.})\text{x}(\text{Concentration})\text{x}(\text{Flow Rate})}{(\text{Conv. Constant})\text{x}10^6}$

Note: Sample collected after carbon treatment.

NWS-EARLE
BIOSLURPER UNIT #1 AND #2
TPH REMOVED VIA VAPOR EXTRACTION

6/27/2002

BIOSLURPER UNIT 1

OPERATED (hours):		160
AVERAGE FLOW RATE (cfm):		40
TPH CONCENTRATION (mg/m^3):		1500
(as per analytical)	3/28/2002	
		35.97 =POUNDS OF TPH

BIOSLURPER UNIT 2

OPERATED (hours):		36.5
AVERAGE FLOW RATE (cfm):		53
TPH CONCENTRATION (mg/m^3):		340
(as per analytical)	3/28/2002	
		2.46 =POUNDS OF TPH

POUNDS OF TPH=
AVERAGE FLOW RATE (cfm) * $0.02832 m^3/ft^3$ * **TPH CONC**(mg/m^3) * 0.001g/mg * 0.002205 lbs/g * 60 min/hr * **OPERATED** (hours)

NWS-EARLE
BIOSLURPER UNIT #1 AND #2
TPH REMOVED VIA VAPOR EXTRACTION

6/27/2002

BIOSLURPER UNIT 1

OPERATED (hours):	87	
AVERAGE FLOW RATE (cfm):	42	
TPH CONCENTRATION (mg/m^3):	4100	
(as per analytical)	4/23/2002	
	56.13	=POUNDS OF TPH

BIOSLURPER UNIT 2

OPERATED (hours):	57	
AVERAGE FLOW RATE (cfm):	53	
TPH CONCENTRATION (mg/m^3):	470	
(as per analytical)	4/23/2002	
	5.32	=POUNDS OF TPH

POUNDS OF TPH=

AVERAGE FLOW RATE (cfm) * $0.02832 m^3/ft^3$ * **TPH CONC**(mg/m^3) * 0.001g/mg * 0.002205 lbs/g * 60 min/hr * **OPERATED** (hours)

NWS-EARLE
BIOSLURPER UNIT #1 AND #2
TPH REMOVED VIA VAPOR EXTRACTION

6/27/2002

BIOSLURPER UNIT 1

OPERATED (hours):		104.5
AVERAGE FLOW RATE (cfm):		43
TPH CONCENTRATION (mg/m^3):		7600
(as per analytical)	5/29/2002	
		127.95 =POUNDS OF TPH

BIOSLURPER UNIT 2

OPERATED (hours):		62.5
AVERAGE FLOW RATE (cfm):		53
TPH CONCENTRATION (mg/m^3):		880
(as per analytical)	5/29/2002	
		10.92 =POUNDS OF TPH

POUNDS OF TPH=

AVERAGE FLOW RATE (cfm) * $0.02832 m^3/ft^3$ * **TPH CONC**(mg/m^3) * 0.001g/mg * 0.002205 lbs/g * 60 min/hr * **OPERATED** (hours)

MARCH
BS

Table 1

Client Sample ID	Lab Sample ID	Date Collected	Date Received	Date Extracted	Sample Holding Time (Days)	Date Analyzed	Sample Extract Holding Time (Days)	Sample Condition
26AS-23-A-	0203605B-01A	3/28/2002	3/29/2002	NA	5	4/ 2/2002	NA	Good
26AS-22-P-	0203605B-02A	3/28/2002	3/29/2002	NA	5	4/ 2/2002	NA	Good
16(A)VD(02)17-P	0203605B-03A	3/28/2002	3/29/2002	NA	5	4/ 2/2002	NA	Good
16(A)VD(02)18-A	0203605B-04A	3/28/2002	3/29/2002	NA	5	4/ 2/2002	NA	Good
16(B)VD(02)07-2	0203605B-05A	3/28/2002	3/29/2002	NA	5	4/ 2/2002	NA	Good
Lab Blank	0203605B-06A	NA	NA	NA	NA	4/ 2/2002	NA	Good
LCS	0203605B-07A	NA	NA	NA	NA	4/ 2/2002	NA	Good

AIR TOXICS LTD.

SAMPLE NAME: 16(A)VD(02)17-P

ID#: 0203605B-03A

EPA METHOD TO-3 GC/FID

File Name:	a0402[illegible]	Date of Collection:	3/28/02
Dil. Factor:	89.3	Date of Analysis:	4/2/02

Compound	Rpt. Limit (ppmv)	Rpt. Limit (uG/L)	Amount (ppmv)	Amount (uG/L)
TPH (C2+ Hydrocarbons) ref. to Gasoline	2.2	9.3	360	1500

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Fluorobenzene (FID)	112	75-125

AIR TOXICS LTD.

SAMPLE NAME: 16(A)VD(02)18-A

ID#: 0203605B-04A

EPA METHOD TO-3 GC/FID

File Name:	d0402f	Date of Collection:	3/28/02
Dil Factor:	1.44	Date of Analysis:	4/2/02

Compound	Rpt. Limit (ppmv)	Rpt. Limit (uG/L)	Amount (ppmv)	Amount (uG/L)
TPH (C2+ Hydrocarbons) ref. to Gasoline	0.034	0.14	0.043	0.18

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Fluorobenzene (FID)	90	75-125

AIR TOXICS LTD.

SAMPLE NAME: 16(B)VD(02)07-2

ID#: 0203605B-05A

EPA METHOD TO-3 GC/FID

File Name:	0204208	Date of Collection:	3/28/02
DF: Factor:	10.4	Date of Analysis:	4/2/02

Compound	Rpt. Limit (ppmv)	Rpt. Limit (uG/L)	Amount (ppmv)	Amount (uG/L)
TPH (C2+ Hydrocarbons) ref. to Gasoline	0.46	1.9	82	340

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Fluorobenzene (FID)	90	75-125

AIR TOXICS LTD.

SAMPLE NAME: 16(B)VD(02)07-2

ID#: 0203605A-05A

EPA METHOD TO-14 GC/MS FULL SCAN

File Name:	0140224	Date of Collection: 3/28/02
Dil. Factor:	17.1	Date of Analysis: 4/3/02

Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Freon 12	8.6	43	Not Detected	Not Detected
Freon 114	8.6	61	Not Detected	Not Detected
Chloromethane	8.6	18	Not Detected	Not Detected
Vinyl Chloride	8.6	22	130	350
Bromomethane	8.6	34	Not Detected	Not Detected
Chloroethane	8.6	23	Not Detected	Not Detected
Freon 11	8.6	49	Not Detected	Not Detected
1,1-Dichloroethene	8.6	34	Not Detected	Not Detected
Freon 113	8.6	67	Not Detected	Not Detected
Methylene Chloride	8.6	30	Not Detected	Not Detected
1,1-Dichloroethane	8.6	35	Not Detected	Not Detected
cis-1,2-Dichloroethene	8.6	34	Not Detected	Not Detected
Chloroform	8.6	42	Not Detected	Not Detected
1,1,1-Trichloroethane	8.6	47	Not Detected	Not Detected
Carbon Tetrachloride	8.6	55	Not Detected	Not Detected
Benzene	8.6	28	140	460
1,2-Dichloroethane	8.6	35	Not Detected	Not Detected
Trichloroethene	8.6	47	Not Detected	Not Detected
1,2-Dichloropropane	8.6	40	Not Detected	Not Detected
cis-1,3-Dichloropropene	8.6	39	Not Detected	Not Detected
Toluene	8.6	33	15	59
trans-1,3-Dichloropropene	8.6	39	Not Detected	Not Detected
1,1,2-Trichloroethane	8.6	47	Not Detected	Not Detected
Tetrachloroethene	8.6	59	Not Detected	Not Detected
Ethylene Dibromide	8.6	67	Not Detected	Not Detected
Chlorobenzene	8.6	40	Not Detected	Not Detected
Ethyl Benzene	8.6	38	560	2500
m,p-Xylene	8.6	38	910	4000
o-Xylene	8.6	38	150	660
Styrene	8.6	37	Not Detected	Not Detected
1,1,2,2-Tetrachloroethane	8.6	60	Not Detected	Not Detected
1,3,5-Trimethylbenzene	8.6	43	450	2200
1,2,4-Trimethylbenzene	8.6	43	2800	14000
1,3-Dichlorobenzene	8.6	52	Not Detected	Not Detected
1,4-Dichlorobenzene	8.6	52	Not Detected	Not Detected
Chlorotoluene	8.6	45	Not Detected	Not Detected
1,2-Dichlorobenzene	8.6	52	Not Detected	Not Detected
1,2,4-Trichlorobenzene	8.6	64	Not Detected	Not Detected
Hexachlorobutadiene	8.6	93	Not Detected	Not Detected
Propylene	34	60	Not Detected	Not Detected
1,3-Butadiene	34	77	Not Detected	Not Detected
Acetone	34	82	Not Detected	Not Detected

AIR TOXICS LTD.

SAMPLE NAME: 16(B)VD(02)07-2

ID#: 0203605A-05A

EPA METHOD TO-14 GC/MS FULL SCAN

File Name:	c040224	Date of Collection:	3/28/02
Dil. Factor:	17.1	Date of Analysis:	4/3/02

Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Carbon Disulfide	34	110	Not Detected	Not Detected
2-Propanol	34	85	Not Detected	Not Detected
trans-1,2-Dichloroethene	34	140	Not Detected	Not Detected
Vinyl Acetate	34	120	Not Detected	Not Detected
2-Butanone (Methyl Ethyl Ketone)	34	100	Not Detected	Not Detected
Hexane	34	120	780	2800
Tetrahydrofuran	34	100	Not Detected	Not Detected
Cyclohexane	34	120	800	2800
1,4-Dioxane	34	120	Not Detected	Not Detected
Bromodichloromethane	34	230	Not Detected	Not Detected
4-Methyl-2-pentanone	34	140	Not Detected	Not Detected
2-Hexanone	34	140	Not Detected	Not Detected
Dibromochloromethane	34	300	Not Detected	Not Detected
Bromoform	34	360	Not Detected	Not Detected
4-Ethyltoluene	34	170	1200	6200
Ethanol	34	65	Not Detected	Not Detected
Methyl tert-Butyl Ether	34	120	Not Detected	Not Detected
Heptane	34	140	460	1900

Q = Exceeds Quality Control limits of 70% to 130%, due to matrix effects.

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	114	70-130
Toluene-d8	92	70-130
4-Bromofluorobenzene	229 Q	70-130

AIR TOXICS LTD.

SAMPLE NAME: 16(A)VD(02)18-A

ID#: 0203605A-04A

EPA METHOD TO-14 GC/MS FULL SCAN

File Name: C040218 Date of Collection: 3/28/02
Dil. Factor: 1.34 Date of Analysis: 4/2/02

Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Freon 12	0.67	3.4	Not Detected	Not Detected
Freon 114	0.67	4.8	Not Detected	Not Detected
Chloromethane	0.67	1.4	Not Detected	Not Detected
Vinyl Chloride	0.67	1.7	Not Detected	Not Detected
Bromomethane	0.67	2.6	Not Detected	Not Detected
Chloroethane	0.67	1.8	Not Detected	Not Detected
Freon 11	0.67	3.8	Not Detected	Not Detected
1,1-Dichloroethene	0.67	2.7	Not Detected	Not Detected
Freon 113	0.67	5.2	Not Detected	Not Detected
Methylene Chloride	0.67	2.4	Not Detected	Not Detected
1,1-Dichloroethane	0.67	2.8	Not Detected	Not Detected
cis-1,2-Dichloroethene	0.67	2.7	Not Detected	Not Detected
Chloroform	0.67	3.3	Not Detected	Not Detected
1,1,1-Trichloroethane	0.67	3.7	Not Detected	Not Detected
Carbon Tetrachloride	0.67	4.3	Not Detected	Not Detected
Benzene	0.67	2.2	Not Detected	Not Detected
1,2-Dichloroethane	0.67	2.8	Not Detected	Not Detected
Trichloroethene	0.67	3.6	Not Detected	Not Detected
1,2-Dichloropropane	0.67	3.1	Not Detected	Not Detected
cis-1,3-Dichloropropene	0.67	3.1	Not Detected	Not Detected
Toluene	0.67	2.6	10	38
trans-1,3-Dichloropropene	0.67	3.1	Not Detected	Not Detected
1,1,2-Trichloroethane	0.67	3.7	Not Detected	Not Detected
Tetrachloroethene	0.67	4.6	Not Detected	Not Detected
Ethylene Dibromide	0.67	5.2	Not Detected	Not Detected
Chlorobenzene	0.67	3.1	Not Detected	Not Detected
Ethyl Benzene	0.67	3.0	Not Detected	Not Detected
m,p-Xylene	0.67	3.0	Not Detected	Not Detected
o-Xylene	0.67	3.0	Not Detected	Not Detected
Styrene	0.67	2.9	Not Detected	Not Detected
1,1,2,2-Tetrachloroethane	0.67	4.7	Not Detected	Not Detected
1,3,5-Trimethylbenzene	0.67	3.3	Not Detected	Not Detected
1,2,4-Trimethylbenzene	0.67	3.3	Not Detected	Not Detected
1,3-Dichlorobenzene	0.67	4.1	Not Detected	Not Detected
1,4-Dichlorobenzene	0.67	4.1	Not Detected	Not Detected
Chlorotoluene	0.67	3.5	Not Detected	Not Detected
1,2-Dichlorobenzene	0.67	4.1	Not Detected	Not Detected
1,2,4-Trichlorobenzene	0.67	5.0	Not Detected	Not Detected
Hexachlorobutadiene	0.67	7.3	Not Detected	Not Detected
Propylene	2.7	4.7	Not Detected	Not Detected
1,3-Butadiene	2.7	6.0	Not Detected	Not Detected
Acetone	2.7	6.5	Not Detected	Not Detected

AIR TOXICS LTD.

SAMPLE NAME: 16(A)VD(02)18-A

ID#: 0203605A-04A

EPA METHOD TO-14 GC/MS FULL SCAN

File Name: [illegible] Date of Collection: 3/28/02
Dil. Factor: 1.3 Date of Analysis: 4/2/02

Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Carbon Disulfide	2.7	8.5	Not Detected	Not Detected
2-Propanol	2.7	6.7	Not Detected	Not Detected
trans-1,2-Dichloroethene	2.7	11	Not Detected	Not Detected
Vinyl Acetate	2.7	9.6	Not Detected	Not Detected
2-Butanone (Methyl Ethyl Ketone)	2.7	8.0	Not Detected	Not Detected
Hexane	2.7	9.6	Not Detected	Not Detected
Tetrahydrofuran	2.7	8.0	Not Detected	Not Detected
Cyclohexane	2.7	9.4	Not Detected	Not Detected
1,4-Dioxane	2.7	9.8	Not Detected	Not Detected
Bromodichloromethane	2.7	18	Not Detected	Not Detected
4-Methyl-2-pentanone	2.7	11	Not Detected	Not Detected
2-Hexanone	2.7	11	Not Detected	Not Detected
Dibromochloromethane	2.7	23	Not Detected	Not Detected
Bromoform	2.7	28	Not Detected	Not Detected
4-Ethyltoluene	2.7	13	Not Detected	Not Detected
Ethanol	2.7	5.1	Not Detected	Not Detected
Methyl tert-Butyl Ether	2.7	9.8	Not Detected	Not Detected
Heptane	2.7	11	Not Detected	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	78	70-130
Toluene-d8	89	70-130
4-Bromofluorobenzene	95	70-130

AIR TOXICS LTD.

SAMPLE NAME: 16(A)VD(02)17-P

ID#: 0203605A-03A

EPA METHOD TO-14 GC/MS FULL SCAN

File Name:	c040223	Date of Collection:	3/28/02
Dil. Factor:	53.6	Date of Analysis:	4/3/02

Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Freon 12	27	130	Not Detected	Not Detected
Freon 114	27	190	Not Detected	Not Detected
Chloromethane	27	56	Not Detected	Not Detected
Vinyl Chloride	27	70	Not Detected	Not Detected
Bromomethane	27	100	Not Detected	Not Detected
Chloroethane	27	72	Not Detected	Not Detected
Freon 11	27	150	Not Detected	Not Detected
1,1-Dichloroethene	27	110	Not Detected	Not Detected
Freon 113	27	210	Not Detected	Not Detected
Methylene Chloride	27	95	Not Detected	Not Detected
1,1-Dichloroethane	27	110	Not Detected	Not Detected
cis-1,2-Dichloroethene	27	110	Not Detected	Not Detected
Chloroform	27	130	Not Detected	Not Detected
1,1,1-Trichloroethane	27	150	Not Detected	Not Detected
Carbon Tetrachloride	27	170	Not Detected	Not Detected
Benzene	27	87	2200	7200
1,2-Dichloroethane	27	110	Not Detected	Not Detected
Trichloroethene	27	150	Not Detected	Not Detected
1,2-Dichloropropane	27	120	Not Detected	Not Detected
cis-1,3-Dichloropropene	27	120	Not Detected	Not Detected
Toluene	27	100	390	1500
trans-1,3-Dichloropropene	27	120	Not Detected	Not Detected
1,1,2-Trichloroethane	27	150	Not Detected	Not Detected
Tetrachloroethene	27	180	Not Detected	Not Detected
Ethylene Dibromide	27	210	Not Detected	Not Detected
Chlorobenzene	27	120	Not Detected	Not Detected
Ethyl Benzene	27	120	950	4200
m,p-Xylene	27	120	3300	14000
o-Xylene	27	120	880	3900
Styrene	27	120	Not Detected	Not Detected
1,1,2,2-Tetrachloroethane	27	190	Not Detected	Not Detected
1,3,5-Trimethylbenzene	27	130	800	4000
1,2,4-Trimethylbenzene	27	130	2800	14000
1,3-Dichlorobenzene	27	160	Not Detected	Not Detected
1,4-Dichlorobenzene	27	160	Not Detected	Not Detected
Chlorotoluene	27	140	Not Detected	Not Detected
1,2-Dichlorobenzene	27	160	Not Detected	Not Detected
1,2,4-Trichlorobenzene	27	200	Not Detected	Not Detected
Hexachlorobutadiene	27	290	Not Detected	Not Detected
Propylene	110	190	Not Detected	Not Detected
1,3-Butadiene	110	240	Not Detected	Not Detected
Acetone	110	260	Not Detected	Not Detected

AIR TOXICS LTD.

SAMPLE NAME: 16(A)VD(02)17-P

ID#: 0203605A-03A

EPA METHOD TO-14 GC/MS FULL SCAN

File Name:	c040223	Date of Collection:	3/28/02
Dil. Factor:	53.6	Date of Analysis:	4/3/02

Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Carbon Disulfide	110	340	Not Detected	Not Detected
2-Propanol	110	270	Not Detected	Not Detected
trans-1,2-Dichloroethene	110	430	Not Detected	Not Detected
Vinyl Acetate	110	380	Not Detected	Not Detected
2-Butanone (Methyl Ethyl Ketone)	110	320	Not Detected	Not Detected
Hexane	110	380	6000	22000
Tetrahydrofuran	110	320	Not Detected	Not Detected
Cyclohexane	110	380	1100	3700
1,4-Dioxane	110	390	Not Detected	Not Detected
Bromodichloromethane	110	730	Not Detected	Not Detected
4-Methyl-2-pentanone	110	450	Not Detected	Not Detected
2-Hexanone	110	450	Not Detected	Not Detected
Dibromochloromethane	110	930	Not Detected	Not Detected
Bromoform	110	1100	Not Detected	Not Detected
4-Ethyltoluene	110	540	1800	9100
Ethanol	110	200	Not Detected	Not Detected
Methyl tert-Butyl Ether	110	390	Not Detected	Not Detected
Heptane	110	450	2500	11000

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	107	70-130
Toluene-d8	102	70-130
4-Bromofluorobenzene	125	70-130

Apric
BS

Table 1

Client Sample ID	Lab Sample ID	Date Collected	Date Received	Date Extracted	Sample Holding Time (Days)	Date Analyzed	Sample Extract Holding Time (Days)	Sample Condition
Prior-16(A)VD(02)19	0204536B-01A	4/23/2002	4/25/2002	NA	3	4/26/2002	NA	Good
A-16(A)VD(02)20	0204536B-02A	4/23/2002	4/25/2002	NA	3	4/26/2002	NA	Good
16(B)VD(02)08	0204536B-03A	4/23/2002	4/25/2002	NA	3	4/26/2002	NA	Good
Lab Blank	0204536B-04A	NA	NA	NA	NA	4/26/2002	NA	Good
LCS	0204536B-05A	NA	NA	NA	NA	4/26/2002	NA	Good

AIR TOXICS LTD.

SAMPLE NAME: 16(B)VD(02)08

ID#: 0204536A-03A

EPA METHOD TO-14 GC/MS FULL SCAN

File Name:	0042517	Date of Collection:	4/23/02
Dil. Factor:	11.3	Date of Analysis:	4/25/02

Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Freon 12	6.0	30	Not Detected	Not Detected
Freon 114	6.0	42	Not Detected	Not Detected
Chloromethane	6.0	12	Not Detected	Not Detected
Vinyl Chloride	6.0	15	160	420
Bromomethane	6.0	23	Not Detected	Not Detected
Chloroethane	6.0	16	Not Detected	Not Detected
Freon 11	6.0	34	Not Detected	Not Detected
1,1-Dichloroethene	6.0	24	Not Detected	Not Detected
Freon 113	6.0	46	Not Detected	Not Detected
Methylene Chloride	6.0	21	Not Detected	Not Detected
1,1-Dichloroethane	6.0	24	Not Detected	Not Detected
cis-1,2-Dichloroethene	6.0	24	6.0	24
Chloroform	6.0	30	Not Detected	Not Detected
1,1,1-Trichloroethane	6.0	33	Not Detected	Not Detected
Carbon Tetrachloride	6.0	38	Not Detected	Not Detected
Benzene	6.0	19	87	280
1,2-Dichloroethane	6.0	24	Not Detected	Not Detected
Trichloroethene	6.0	32	Not Detected	Not Detected
1,2-Dichloropropane	6.0	28	Not Detected	Not Detected
cis-1,3-Dichloropropene	6.0	27	Not Detected	Not Detected
Toluene	6.0	23	12	46
trans-1,3-Dichloropropene	6.0	27	Not Detected	Not Detected
1,1,2-Trichloroethane	6.0	33	Not Detected	Not Detected
Tetrachloroethene	6.0	41	Not Detected	Not Detected
Ethylene Dibromide	6.0	46	Not Detected	Not Detected
Chlorobenzene	6.0	28	Not Detected	Not Detected
Ethyl Benzene	6.0	26	510	2200
m,p-Xylene	6.0	26	640	2800
o-Xylene	6.0	26	120	520
Styrene	6.0	26	Not Detected	Not Detected
1,1,2,2-Tetrachloroethane	6.0	42	Not Detected	Not Detected
1,3,5-Trimethylbenzene	6.0	30	350	1700
1,2,4-Trimethylbenzene	6.0	30	2200	11000
1,3-Dichlorobenzene	6.0	36	Not Detected	Not Detected
1,4-Dichlorobenzene	6.0	36	Not Detected	Not Detected
Chlorotoluene	6.0	31	Not Detected	Not Detected
1,2-Dichlorobenzene	6.0	36	Not Detected	Not Detected
1,2,4-Trichlorobenzene	24	180	Not Detected	Not Detected
Hexachlorobutadiene	24	260	Not Detected	Not Detected
Propylene	24	42	Not Detected	Not Detected
1,3-Butadiene	24	54	Not Detected	Not Detected
Acetone	24	57	Not Detected	Not Detected

AIR TOXICS LTD.

SAMPLE NAME: 16(B)VD(02)08

ID#: 0204536A-03A

EPA METHOD TO-14 GC/MS FULL SCAN

File Name:	a042507	Date of Collection: 4/23/02
Dil Factor:	11.9	Date of Analysis: 4/25/02

Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Carbon Disulfide	24	75	Not Detected	Not Detected
2-Propanol	24	59	Not Detected	Not Detected
trans-1,2-Dichloroethene	24	96	Not Detected	Not Detected
Vinyl Acetate	24	85	Not Detected	Not Detected
2-Butanone (Methyl Ethyl Ketone)	24	71	Not Detected	Not Detected
Hexane	24	85	470	1700
Tetrahydrofuran	24	71	Not Detected	Not Detected
Cyclohexane	24	83	480	1700
1,4-Dioxane	24	87	Not Detected	Not Detected
Bromodichloromethane	24	160	Not Detected	Not Detected
4-Methyl-2-pentanone	24	99	Not Detected	Not Detected
2-Hexanone	24	99	Not Detected	Not Detected
Dibromochloromethane	24	210	Not Detected	Not Detected
Bromoform	24	250	Not Detected	Not Detected
4-Ethyltoluene	24	120	990	5000
Ethanol	24	46	Not Detected	Not Detected
Methyl tert-Butyl Ether	24	87	Not Detected	Not Detected
Heptane	24	99	430	1800

Q = Exceeds Quality Control limits of 70% to 130%, due to matrix effects.

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	129	70-130
Toluene-d8	122	70-130
4-Bromofluorobenzene	326 Q	70-130

AIR TOXICS LTD.

SAMPLE NAME: A-16(A)VD(02)20

ID#: 0204536A-02A

EPA METHOD TO-14 GC/MS FULL SCAN

File Name: a042516 | Date of Collection: 4/23/02
Dil. Factor: 1.3 | Date of Analysis: 4/25/02

Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Freon 12	0.67	3.4	Not Detected	Not Detected
Freon 114	0.67	4.8	Not Detected	Not Detected
Chloromethane	0.67	1.4	Not Detected	Not Detected
Vinyl Chloride	0.67	1.7	Not Detected	Not Detected
Bromomethane	0.67	2.6	Not Detected	Not Detected
Chloroethane	0.67	1.8	Not Detected	Not Detected
Freon 11	0.67	3.8	Not Detected	Not Detected
1,1-Dichloroethene	0.67	2.7	Not Detected	Not Detected
Freon 113	0.67	5.2	Not Detected	Not Detected
Methylene Chloride	0.67	2.4	0.87	3.1
1,1-Dichloroethane	0.67	2.8	Not Detected	Not Detected
cis-1,2-Dichloroethene	0.67	2.7	Not Detected	Not Detected
Chloroform	0.67	3.3	Not Detected	Not Detected
1,1,1-Trichloroethane	0.67	3.7	Not Detected	Not Detected
Carbon Tetrachloride	0.67	4.3	Not Detected	Not Detected
Benzene	0.67	2.2	Not Detected	Not Detected
1,2-Dichloroethane	0.67	2.8	Not Detected	Not Detected
Trichloroethene	0.67	3.6	Not Detected	Not Detected
1,2-Dichloropropane	0.67	3.1	Not Detected	Not Detected
cis-1,3-Dichloropropene	0.67	3.1	Not Detected	Not Detected
Toluene	0.67	2.6	Not Detected	Not Detected
trans-1,3-Dichloropropene	0.67	3.1	Not Detected	Not Detected
1,1,2-Trichloroethane	0.67	3.7	Not Detected	Not Detected
Tetrachloroethene	0.67	4.6	Not Detected	Not Detected
Ethylene Dibromide	0.67	5.2	Not Detected	Not Detected
Chlorobenzene	0.67	3.1	Not Detected	Not Detected
Ethyl Benzene	0.67	3.0	Not Detected	Not Detected
m,p-Xylene	0.67	3.0	Not Detected	Not Detected
o-Xylene	0.67	3.0	Not Detected	Not Detected
Styrene	0.67	2.9	Not Detected	Not Detected
1,1,2,2-Tetrachloroethane	0.67	4.7	Not Detected	Not Detected
1,3,5-Trimethylbenzene	0.67	3.3	Not Detected	Not Detected
1,2,4-Trimethylbenzene	0.67	3.3	Not Detected	Not Detected
1,3-Dichlorobenzene	0.67	4.1	Not Detected	Not Detected
1,4-Dichlorobenzene	0.67	4.1	Not Detected	Not Detected
Chlorotoluene	0.67	3.5	Not Detected	Not Detected
1,2-Dichlorobenzene	0.67	4.1	Not Detected	Not Detected
1,2,4-Trichlorobenzene	2.7	20	Not Detected	Not Detected
Hexachlorobutadiene	2.7	29	Not Detected	Not Detected
Propylene	2.7	4.7	Not Detected	Not Detected
1,3-Butadiene	2.7	6.0	Not Detected	Not Detected
Acetone	2.7	6.5	8.0	19

AIR TOXICS LTD.

SAMPLE NAME: A-16(A)VD(02)20

ID#: 0204536A-02A

EPA METHOD TO-14 GC/MS FULL SCAN

File Name: a042516 Date of Collection: 4/23/02
Dil Factor: 1.34 Date of Analysis: 4/25/02

Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Carbon Disulfide	2.7	8.5	5.5	17
2-Propanol	2.7	6.7	Not Detected	Not Detected
trans-1,2-Dichloroethene	2.7	11	Not Detected	Not Detected
Vinyl Acetate	2.7	9.6	Not Detected	Not Detected
2-Butanone (Methyl Ethyl Ketone)	2.7	8.0	3.2	9.7
Hexane	2.7	9.6	Not Detected	Not Detected
Tetrahydrofuran	2.7	8.0	Not Detected	Not Detected
Cyclohexane	2.7	9.4	Not Detected	Not Detected
1,4-Dioxane	2.7	9.8	Not Detected	Not Detected
Bromodichloromethane	2.7	18	Not Detected	Not Detected
4-Methyl-2-pentanone	2.7	11	Not Detected	Not Detected
2-Hexanone	2.7	11	Not Detected	Not Detected
Dibromochloromethane	2.7	23	Not Detected	Not Detected
Bromoform	2.7	28	Not Detected	Not Detected
4-Ethyltoluene	2.7	13	Not Detected	Not Detected
Ethanol	2.7	5.1	Not Detected	Not Detected
Methyl tert-Butyl Ether	2.7	9.8	Not Detected	Not Detected
Heptane	2.7	11	Not Detected	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	121	70-130
Toluene-d8	113	70-130
4-Bromofluorobenzene	100	70-130

AIR TOXICS LTD.

SAMPLE NAME: Prior-16(A)VD(02)19

ID#: 0204536A-01A

EPA METHOD TO-14 GC/MS FULL SCAN

File Name:	a042515	Date of Collection: 4/23/02
Dil. Factor:	134	Date of Analysis: 4/25/02

Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Freon 12	67	340	Not Detected	Not Detected
Freon 114	67	480	Not Detected	Not Detected
Chloromethane	67	140	Not Detected	Not Detected
Vinyl Chloride	67	170	Not Detected	Not Detected
Bromomethane	67	260	Not Detected	Not Detected
Chloroethane	67	180	Not Detected	Not Detected
Freon 11	67	380	Not Detected	Not Detected
1,1-Dichloroethene	67	270	Not Detected	Not Detected
Freon 113	67	520	Not Detected	Not Detected
Methylene Chloride	67	240	Not Detected	Not Detected
1,1-Dichloroethane	67	280	Not Detected	Not Detected
cis-1,2-Dichloroethene	67	270	Not Detected	Not Detected
Chloroform	67	330	Not Detected	Not Detected
1,1,1-Trichloroethane	67	370	Not Detected	Not Detected
Carbon Tetrachloride	67	430	Not Detected	Not Detected
Benzene	67	220	6300	20000
1,2-Dichloroethane	67	280	Not Detected	Not Detected
Trichloroethene	67	360	Not Detected	Not Detected
1,2-Dichloropropane	67	310	Not Detected	Not Detected
cis-1,3-Dichloropropene	67	310	Not Detected	Not Detected
Toluene	67	260	870	3300
trans-1,3-Dichloropropene	67	310	Not Detected	Not Detected
1,1,2-Trichloroethane	67	370	Not Detected	Not Detected
Tetrachloroethene	67	460	Not Detected	Not Detected
Ethylene Dibromide	67	520	Not Detected	Not Detected
Chlorobenzene	67	310	Not Detected	Not Detected
Ethyl Benzene	67	300	3500	16000
m,p-Xylene	67	300	11000	49000
o-Xylene	67	300	3000	13000
Styrene	67	290	Not Detected	Not Detected
1,1,2,2-Tetrachloroethane	67	470	Not Detected	Not Detected
1,3,5-Trimethylbenzene	67	330	2000	10000
1,2,4-Trimethylbenzene	67	330	6200	31000
1,3-Dichlorobenzene	67	410	Not Detected	Not Detected
1,4-Dichlorobenzene	67	410	Not Detected	Not Detected
Chlorotoluene	67	350	Not Detected	Not Detected
1,2-Dichlorobenzene	67	410	Not Detected	Not Detected
1,2,4-Trichlorobenzene	270	2000	Not Detected	Not Detected
Hexachlorobutadiene	270	2900	Not Detected	Not Detected
Propylene	270	470	Not Detected	Not Detected
1,3-Butadiene	270	600	Not Detected	Not Detected
Acetone	270	650	Not Detected	Not Detected

AIR TOXICS LTD.

SAMPLE NAME: Prior-16(A)VD(02)19

ID#: 0204536A-01A

EPA METHOD TO-14 GC/MS FULL SCAN

File Name: a042516	Date of Collection: 4/23/02
Dil. Factor: 134	Date of Analysis: 4/25/02

Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Carbon Disulfide	270	850	Not Detected	Not Detected
2-Propanol	270	670	Not Detected	Not Detected
trans-1,2-Dichloroethene	270	1100	Not Detected	Not Detected
Vinyl Acetate	270	960	Not Detected	Not Detected
2-Butanone (Methyl Ethyl Ketone)	270	800	Not Detected	Not Detected
Hexane	270	960	27000 E	98000 E
Tetrahydrofuran	270	800	Not Detected	Not Detected
Cyclohexane	270	940	6100	21000
1,4-Dioxane	270	980	Not Detected	Not Detected
Bromodichloromethane	270	1800	Not Detected	Not Detected
4-Methyl-2-pentanone	270	1100	Not Detected	Not Detected
2-Hexanone	270	1100	Not Detected	Not Detected
Dibromochloromethane	270	2300	Not Detected	Not Detected
Bromoform	270	2800	Not Detected	Not Detected
4-Ethyltoluene	270	1300	5400	27000
Ethanol	270	510	Not Detected	Not Detected
Methyl tert-Butyl Ether	270	980	Not Detected	Not Detected
Heptane	270	1100	9200	38000

E = Exceeds instrument calibration range.
Q = Exceeds Quality Control limits of 70% to 130%, due to matrix effects.
Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	132 Q	70-130
Toluene-d8	116	70-130
4-Bromofluorobenzene	129	70-130

AIR TOXICS LTD.

SAMPLE NAME: Prior-16(A)VD(02)19

ID#: 0204536B-01A

EPA METHOD TO-3 GC/FID

File Name:	d042607	Date of Collection: 4/23/02
Dil. Factor:	13.4	Date of Analysis: 4/26/02

Compound	Rpt. Limit (ppmv)	Rpt. Limit (uG/L)	Amount (ppmv)	Amount (uG/L)
TPH (C2+ Hydrocarbons) ref. to Gasoline	3.4	14	990	4100

Q = Exceeds Quality Control limits, possibly due to matrix effects.

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Fluorobenzene (FID)	126 Q	75-125

AIR TOXICS LTD.

SAMPLE NAME: A-16(A)VD(02)20

ID#: 0204536B-02A

EPA METHOD TO-3 GC/FID

File Name:	0042606	Date of Collection:	4/23/02
Dil. Factor:	34	Date of Analysis:	4/26/02

Compound	Rpt. Limit (ppmv)	Rpt. Limit (uG/L)	Amount (ppmv)	Amount (uG/L)
TPH (C2+ Hydrocarbons) ref. to Gasoline	0.034	0.14	0.24	1.0

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Fluorobenzene (FID)	95	75-125

AIR TOXICS LTD.

SAMPLE NAME: 16(B)VD(02)08

ID#: 0204536B-03A

EPA METHOD TO-3 GC/FID

File Name: d042609 Date of Collection: 4/23/02
Dil. Factor: 14.9 Date of Analysis: 4/26/02

Compound	Rpt. Limit (ppmv)	Rpt. Limit (uG/L)	Amount (ppmv)	Amount (uG/L)
TPH (C2+ Hydrocarbons) ref. to Gasoline	0.37	1.5	110	470

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Fluorobenzene (FID)	97	75-125

Table 1

Client Sample ID	Lab Sample ID	Date Collected	Date Received	Date Extracted	Sample Holding Time (Days)	Date Analyzed	Sample Extract Holding Time (Days)	Sample Condition
16 (A) VD (02)-20	0205602B-02A	5/29/2002	5/30/2002	NA	2	5/31/2002	NA	Good
16 (A) VD (02)-21	0205602B-03A	5/29/2002	5/30/2002	NA	2	5/31/2002	NA	Good
16 (A) VD (02)-21 Duplica	0205602B-03AA	5/29/2002	5/30/2002	NA	2	5/31/2002	NA	Good
16 (B) VD (02)-09	0205602B-04A	5/29/2002	5/30/2002	NA	2	5/31/2002	NA	Good
Lab Blank	0205602B-05A	NA	NA	NA	NA	5/31/2002	NA	Good
LCS	0205602B-06A	NA	NA	NA	NA	6/ 1/2002	NA	Good

AIR TOXICS LTD.

SAMPLE NAME: 16 (A) VD (02)-20

ID#: 0205602B-02A

EPA METHOD TO-3 GC/FID

File Name:	**d053127**	**Date of Collection:**	**5/29/02**
Dil. Factor:	**218**	**Date of Analysis:**	**5/31/02**

Compound	Rpt. Limit (ppmv)	Rpt. Limit (uG/L)	Amount (ppmv)	Amount (uG/L)
TPH (C2+ Hydrocarbons) ref. to Gasoline	5.4	23	1800	7600

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Fluorobenzene (FID)	124	75-125

AIR TOXICS LTD.

SAMPLE NAME: 16 (A) VD (02)-21

ID#: 0205602B-03A

EPA METHOD TO-3 GC/FID

File Name:	**d053125**	**Date of Collection:**	**5/29/02**
Dil. Factor:	**1.39**	**Date of Analysis:**	**5/31/02**

Compound	Rpt. Limit (ppmv)	Rpt. Limit (uG/L)	Amount (ppmv)	Amount (uG/L)
TPH (C2+ Hydrocarbons) ref. to Gasoline	0.035	0.14	0.65	2.7

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Fluorobenzene (FID)	92	75-125

AIR TOXICS LTD.

SAMPLE NAME: 16 (A) VD (02)-21 Duplicate

ID#: 0205602B-03AA

EPA METHOD TO-3 GC/FID

File Name:	**d053124**	**Date of Collection:**	**5/29/02**
Dil. Factor:	**17.4**	**Date of Analysis:**	**5/31/02**

Compound	Rpt. Limit (ppmv)	Rpt. Limit (uG/L)	Amount (ppmv)	Amount (uG/L)
TPH (C2+ Hydrocarbons) ref. to Gasoline	0.44	1.8	0.73	3.0

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Fluorobenzene (FID)	90	75-125

AIR TOXICS LTD.

SAMPLE NAME: 16 (B) VD (02)-09

ID#: 0205602B-04A

EPA METHOD TO-3 GC/FID

File Name:	**d053126**	**Date of Collection:**	**5/29/02**
Dil. Factor:	**28.8**	**Date of Analysis:**	**5/31/02**

Compound	Rpt. Limit (ppmv)	Rpt. Limit (uG/L)	Amount (ppmv)	Amount (uG/L)
TPH (C2+ Hydrocarbons) ref. to Gasoline	0.72	3.0	210	880

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Fluorobenzene (FID)	92	75-125

Table 1

Client Sample ID	Lab Sample ID	Date Collected	Date Received	Date Extracted	Sample Holding Time (Days)	Date Analyzed	Sample Extract Holding Time (Days)	Sample Condition
26-AS-27	0205602A-01A	5/29/2002	5/30/2002	NA	3	6/ 1/2002	NA	Good
16 (A) VD (02)-20	0205602A-02A	5/29/2002	5/30/2002	NA	4	6/ 2/2002	NA	Good
16 (A) VD (02)-21	0205602A-03A	5/29/2002	5/30/2002	NA	3	6/ 1/2002	NA	Good
16 (B) VD (02)-09	0205602A-04A	5/29/2002	5/30/2002	NA	5	6/ 3/2002	NA	Good
16 (B) VD (02)-09 Duplic	0205602A-04AA	5/29/2002	5/30/2002	NA	5	6/ 3/2002	NA	Good
26-AS-26	0205602A-05A	5/29/2002	5/30/2002	NA	3	6/ 1/2002	NA	Good
Lab Blank	0205602A-06A	NA	NA	NA	NA	6/ 1/2002	NA	Good
Lab Blank	0205602A-06B	NA	NA	NA	NA	6/ 2/2002	NA	Good
Lab Blank	0205602A-06C	NA	NA	NA	NA	6/ 3/2002	NA	Good
LCS	0205602A-07A	NA	NA	NA	NA	6/ 1/2002	NA	Good
LCS	0205602A-07B	NA	NA	NA	NA	6/ 2/2002	NA	Good
LCS	0205602A-07C	NA	NA	NA	NA	6/ 3/2002	NA	Good

AIR TOXICS LTD.

SAMPLE NAME: 16 (A) VD (02)-20

ID#: 0205602A-02A

EPA METHOD TO-14 GC/MS FULL SCAN

File Name:	f060211	Date of Collection: 5/29/02
Dil. Factor:	272	Date of Analysis: 6/2/02

Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Freon 12	140	680	Not Detected	Not Detected
Freon 114	140	970	Not Detected	Not Detected
Chloromethane	140	280	Not Detected	Not Detected
Vinyl Chloride	140	350	Not Detected	Not Detected
Bromomethane	140	540	Not Detected	Not Detected
Chloroethane	140	360	Not Detected	Not Detected
Freon 11	140	780	Not Detected	Not Detected
1,1-Dichloroethene	140	550	Not Detected	Not Detected
Freon 113	140	1000	Not Detected	Not Detected
Methylene Chloride	140	480	Not Detected	Not Detected
1,1-Dichloroethane	140	560	Not Detected	Not Detected
cis-1,2-Dichloroethene	140	550	Not Detected	Not Detected
Chloroform	140	670	Not Detected	Not Detected
1,1,1-Trichloroethane	140	750	Not Detected	Not Detected
Carbon Tetrachloride	140	870	Not Detected	Not Detected
Benzene	140	440	10000	34000
1,2-Dichloroethane	140	560	Not Detected	Not Detected
Trichloroethene	140	740	Not Detected	Not Detected
1,2-Dichloropropane	140	640	Not Detected	Not Detected
cis-1,3-Dichloropropene	140	630	Not Detected	Not Detected
Toluene	140	520	990	3800
trans-1,3-Dichloropropene	140	630	Not Detected	Not Detected
1,1,2-Trichloroethane	140	750	Not Detected	Not Detected
Tetrachloroethene	140	940	Not Detected	Not Detected
Ethylene Dibromide	140	1100	Not Detected	Not Detected
Chlorobenzene	140	640	Not Detected	Not Detected
Ethyl Benzene	140	600	3800	17000
m,p-Xylene	140	600	13000	57000
o-Xylene	140	600	3400	15000
Styrene	140	590	Not Detected	Not Detected
1,1,2,2-Tetrachloroethane	140	950	Not Detected	Not Detected
1,3,5-Trimethylbenzene	140	680	2500	13000
1,2,4-Trimethylbenzene	140	680	7400	37000
1,3-Dichlorobenzene	140	830	Not Detected	Not Detected
1,4-Dichlorobenzene	140	830	Not Detected	Not Detected
Chlorotoluene	140	720	Not Detected	Not Detected
1,2-Dichlorobenzene	140	830	Not Detected	Not Detected
1,2,4-Trichlorobenzene	540	4100	Not Detected	Not Detected
Hexachlorobutadiene	540	5900	Not Detected	Not Detected
Propylene	540	950	Not Detected	Not Detected
1,3-Butadiene	540	1200	Not Detected	Not Detected
Acetone	540	1300	Not Detected	Not Detected

AIR TOXICS LTD.

SAMPLE NAME: 16 (A) VD (02)-20

ID#: 0205602A-02A

EPA METHOD TO-14 GC/MS FULL SCAN

File Name:	f060211	Date of Collection: 5/29/02
Dil. Factor:	272	Date of Analysis: 6/2/02

Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Carbon Disulfide	540	1700	Not Detected	Not Detected
2-Propanol	540	1400	Not Detected	Not Detected
trans-1,2-Dichloroethene	540	2200	Not Detected	Not Detected
Vinyl Acetate	540	1900	Not Detected	Not Detected
2-Butanone (Methyl Ethyl Ketone)	540	1600	Not Detected	Not Detected
Hexane	540	1900	27000	96000
Tetrahydrofuran	540	1600	Not Detected	Not Detected
Cyclohexane	540	1900	5500	19000
1,4-Dioxane	540	2000	Not Detected	Not Detected
Bromodichloromethane	540	3700	Not Detected	Not Detected
4-Methyl-2-pentanone	540	2300	Not Detected	Not Detected
2-Hexanone	540	2300	Not Detected	Not Detected
Dibromochloromethane	540	4700	Not Detected	Not Detected
Bromoform	540	5700	Not Detected	Not Detected
4-Ethyltoluene	540	2700	4300	21000
Ethanol	540	1000	Not Detected	Not Detected
Methyl tert-Butyl Ether	540	2000	Not Detected	Not Detected
Heptane	540	2300	9100	38000

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	112	70-130
Toluene-d8	102	70-130
4-Bromofluorobenzene	102	70-130

AIR TOXICS LTD.

SAMPLE NAME: 16 (A) VD (02)-21

ID#: 0205602A-03A

EPA METHOD TO-14 GC/MS FULL SCAN

File Name:	f060114	Date of Collection: 5/29/02
Dil. Factor:	1.39	Date of Analysis: 6/1/02

Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Freon 12	0.70	3.5	Not Detected	Not Detected
Freon 114	0.70	4.9	Not Detected	Not Detected
Chloromethane	0.70	1.4	Not Detected	Not Detected
Vinyl Chloride	0.70	1.8	Not Detected	Not Detected
Bromomethane	0.70	2.7	Not Detected	Not Detected
Chloroethane	0.70	1.9	Not Detected	Not Detected
Freon 11	0.70	4.0	Not Detected	Not Detected
1,1-Dichloroethene	0.70	2.8	Not Detected	Not Detected
Freon 113	0.70	5.4	Not Detected	Not Detected
Methylene Chloride	0.70	2.4	Not Detected	Not Detected
1,1-Dichloroethane	0.70	2.8	Not Detected	Not Detected
cis-1,2-Dichloroethene	0.70	2.8	Not Detected	Not Detected
Chloroform	0.70	3.4	Not Detected	Not Detected
1,1,1-Trichloroethane	0.70	3.8	Not Detected	Not Detected
Carbon Tetrachloride	0.70	4.4	Not Detected	Not Detected
Benzene	0.70	2.2	6.4	21
1,2-Dichloroethane	0.70	2.8	Not Detected	Not Detected
Trichloroethene	0.70	3.8	Not Detected	Not Detected
1,2-Dichloropropane	0.70	3.3	Not Detected	Not Detected
cis-1,3-Dichloropropene	0.70	3.2	Not Detected	Not Detected
Toluene	0.70	2.7	0.95	3.6
trans-1,3-Dichloropropene	0.70	3.2	Not Detected	Not Detected
1,1,2-Trichloroethane	0.70	3.8	Not Detected	Not Detected
Tetrachloroethene	0.70	4.8	Not Detected	Not Detected
Ethylene Dibromide	0.70	5.4	Not Detected	Not Detected
Chlorobenzene	0.70	3.2	Not Detected	Not Detected
Ethyl Benzene	0.70	3.1	2.4	11
m,p-Xylene	0.70	3.1	8.2	36
o-Xylene	0.70	3.1	2.2	9.6
Styrene	0.70	3.0	Not Detected	Not Detected
1,1,2,2-Tetrachloroethane	0.70	4.8	Not Detected	Not Detected
1,3,5-Trimethylbenzene	0.70	3.5	1.6	7.8
1,2,4-Trimethylbenzene	0.70	3.5	4.0	20
1,3-Dichlorobenzene	0.70	4.2	Not Detected	Not Detected
1,4-Dichlorobenzene	0.70	4.2	Not Detected	Not Detected
Chlorotoluene	0.70	3.6	Not Detected	Not Detected
1,2-Dichlorobenzene	0.70	4.2	Not Detected	Not Detected
1,2,4-Trichlorobenzene	2.8	21	Not Detected	Not Detected
Hexachlorobutadiene	2.8	30	Not Detected	Not Detected
Propylene	2.8	4.9	Not Detected	Not Detected
1,3-Butadiene	2.8	6.2	Not Detected	Not Detected
Acetone	2.8	6.7	11	26

AIR TOXICS LTD.

SAMPLE NAME: 16 (A) VD (02)-21

ID#: 0205602A-03A

EPA METHOD TO-14 GC/MS FULL SCAN

File Name:	f060114	Date of Collection:	5/29/02
Dil. Factor:	1.39	Date of Analysis:	6/1/02

Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Carbon Disulfide	2.8	8.8	Not Detected	Not Detected
2-Propanol	2.8	6.9	Not Detected	Not Detected
trans-1,2-Dichloroethene	2.8	11	Not Detected	Not Detected
Vinyl Acetate	2.8	9.9	Not Detected	Not Detected
2-Butanone (Methyl Ethyl Ketone)	2.8	8.3	6.8	20
Hexane	2.8	10	13	48
Tetrahydrofuran	2.8	8.3	12	35
Cyclohexane	2.8	9.7	3.2	11
1,4-Dioxane	2.8	10	Not Detected	Not Detected
Bromodichloromethane	2.8	19	Not Detected	Not Detected
4-Methyl-2-pentanone	2.8	12	Not Detected	Not Detected
2-Hexanone	2.8	12	Not Detected	Not Detected
Dibromochloromethane	2.8	24	Not Detected	Not Detected
Bromoform	2.8	29	Not Detected	Not Detected
4-Ethyltoluene	2.8	14	Not Detected	Not Detected
Ethanol	2.8	5.3	Not Detected	Not Detected
Methyl tert-Butyl Ether	2.8	10	Not Detected	Not Detected
Heptane	2.8	12	Not Detected	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	115	70-130
Toluene-d8	99	70-130
4-Bromofluorobenzene	82	70-130

AIR TOXICS LTD.

SAMPLE NAME: 16 (B) VD (02)-09

ID#: 0205602A-04A

EPA METHOD TO-14 GC/MS FULL SCAN

File Name:	r060320	Date of Collection: 5/29/02
Dil. Factor:	57.6	Date of Analysis: 6/3/02

Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Freon 12	29	140	Not Detected	Not Detected
Freon 114	29	200	Not Detected	Not Detected
Chloromethane	29	60	Not Detected	Not Detected
Vinyl Chloride	29	75	160	420
Bromomethane	29	110	Not Detected	Not Detected
Chloroethane	29	77	Not Detected	Not Detected
Freon 11	29	160	Not Detected	Not Detected
1,1-Dichloroethene	29	120	Not Detected	Not Detected
Freon 113	29	220	Not Detected	Not Detected
Methylene Chloride	29	100	Not Detected	Not Detected
1,1-Dichloroethane	29	120	Not Detected	Not Detected
cis-1,2-Dichloroethene	29	120	Not Detected	Not Detected
Chloroform	29	140	Not Detected	Not Detected
1,1,1-Trichloroethane	29	160	Not Detected	Not Detected
Carbon Tetrachloride	29	180	Not Detected	Not Detected
Benzene	29	94	64	210
1,2-Dichloroethane	29	120	Not Detected	Not Detected
Trichloroethene	29	160	Not Detected	Not Detected
1,2-Dichloropropane	29	140	Not Detected	Not Detected
cis-1,3-Dichloropropene	29	130	Not Detected	Not Detected
Toluene	29	110	Not Detected	Not Detected
trans-1,3-Dichloropropene	29	130	Not Detected	Not Detected
1,1,2-Trichloroethane	29	160	Not Detected	Not Detected
Tetrachloroethene	29	200	Not Detected	Not Detected
Ethylene Dibromide	29	220	Not Detected	Not Detected
Chlorobenzene	29	130	Not Detected	Not Detected
Ethyl Benzene	29	130	710	3100
m,p-Xylene	29	130	1600	7100
o-Xylene	29	130	130	570
Styrene	29	120	Not Detected	Not Detected
1,1,2,2-Tetrachloroethane	29	200	Not Detected	Not Detected
1,3,5-Trimethylbenzene	29	140	1300	6400
1,2,4-Trimethylbenzene	29	140	5700	28000
1,3-Dichlorobenzene	29	180	Not Detected	Not Detected
1,4-Dichlorobenzene	29	180	Not Detected	Not Detected
Chlorotoluene	29	150	Not Detected	Not Detected
1,2-Dichlorobenzene	29	180	Not Detected	Not Detected
1,2,4-Trichlorobenzene	120	870	Not Detected	Not Detected
Hexachlorobutadiene	120	1200	Not Detected	Not Detected
Propylene	120	200	Not Detected	Not Detected
1,3-Butadiene	120	260	Not Detected	Not Detected
Acetone	120	280	Not Detected	Not Detected

AIR TOXICS LTD.

SAMPLE NAME: 16 (B) VD (02)-09

ID#: 0205602A-04A

EPA METHOD TO-14 GC/MS FULL SCAN

File Name:	r060320	Date of Collection: 5/29/02
Dil. Factor:	57.6	Date of Analysis: 6/3/02

Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Carbon Disulfide	120	360	Not Detected	Not Detected
2-Propanol	120	290	Not Detected	Not Detected
trans-1,2-Dichloroethene	120	460	Not Detected	Not Detected
Vinyl Acetate	120	410	Not Detected	Not Detected
2-Butanone (Methyl Ethyl Ketone)	120	340	Not Detected	Not Detected
Hexane	120	410	240	880
Tetrahydrofuran	120	340	Not Detected	Not Detected
Cyclohexane	120	400	240	830
1,4-Dioxane	120	420	Not Detected	Not Detected
Bromodichloromethane	120	780	Not Detected	Not Detected
4-Methyl-2-pentanone	120	480	Not Detected	Not Detected
2-Hexanone	120	480	Not Detected	Not Detected
Dibromochloromethane	120	1000	Not Detected	Not Detected
Bromoform	120	1200	Not Detected	Not Detected
4-Ethyltoluene	120	580	2500	12000
Ethanol	120	220	Not Detected	Not Detected
Methyl tert-Butyl Ether	120	420	Not Detected	Not Detected
Heptane	120	480	300	1300

Q = Exceeds Quality Control limits of 70% to 130%, due to matrix effects.

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	109	70-130
Toluene-d8	109	70-130
4-Bromofluorobenzene	156 Q	70-130

AIR TOXICS LTD.

SAMPLE NAME: 16 (B) VD (02)-09 Duplicate

ID#: 0205602A-04AA

EPA METHOD TO-14 GC/MS FULL SCAN

File Name:	r060321	Date of Collection: 5/29/02
Dil. Factor:	57.6	Date of Analysis: 6/3/02

Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Freon 12	29	140	Not Detected	Not Detected
Freon 114	29	200	Not Detected	Not Detected
Chloromethane	29	60	Not Detected	Not Detected
Vinyl Chloride	29	75	180	460
Bromomethane	29	110	Not Detected	Not Detected
Chloroethane	29	77	Not Detected	Not Detected
Freon 11	29	160	Not Detected	Not Detected
1,1-Dichloroethene	29	120	Not Detected	Not Detected
Freon 113	29	220	Not Detected	Not Detected
Methylene Chloride	29	100	Not Detected	Not Detected
1,1-Dichloroethane	29	120	Not Detected	Not Detected
cis-1,2-Dichloroethene	29	120	Not Detected	Not Detected
Chloroform	29	140	Not Detected	Not Detected
1,1,1-Trichloroethane	29	160	Not Detected	Not Detected
Carbon Tetrachloride	29	180	Not Detected	Not Detected
Benzene	29	94	65	210
1,2-Dichloroethane	29	120	Not Detected	Not Detected
Trichloroethene	29	160	Not Detected	Not Detected
1,2-Dichloropropane	29	140	Not Detected	Not Detected
cis-1,3-Dichloropropene	29	130	Not Detected	Not Detected
Toluene	29	110	Not Detected	Not Detected
trans-1,3-Dichloropropene	29	130	Not Detected	Not Detected
1,1,2-Trichloroethane	29	160	Not Detected	Not Detected
Tetrachloroethene	29	200	Not Detected	Not Detected
Ethylene Dibromide	29	220	Not Detected	Not Detected
Chlorobenzene	29	130	Not Detected	Not Detected
Ethyl Benzene	29	130	720	3200
m,p-Xylene	29	130	1600	7100
o-Xylene	29	130	130	560
Styrene	29	120	Not Detected	Not Detected
1,1,2,2-Tetrachloroethane	29	200	Not Detected	Not Detected
1,3,5-Trimethylbenzene	29	140	1300	6400
1,2,4-Trimethylbenzene	29	140	5800	29000
1,3-Dichlorobenzene	29	180	Not Detected	Not Detected
1,4-Dichlorobenzene	29	180	Not Detected	Not Detected
Chlorotoluene	29	150	Not Detected	Not Detected
1,2-Dichlorobenzene	29	180	Not Detected	Not Detected
1,2,4-Trichlorobenzene	120	870	Not Detected	Not Detected
Hexachlorobutadiene	120	1200	Not Detected	Not Detected
Propylene	120	200	Not Detected	Not Detected
1,3-Butadiene	120	260	Not Detected	Not Detected
Acetone	120	280	Not Detected	Not Detected

AIR TOXICS LTD.

SAMPLE NAME: 16 (B) VD (02)-09 Duplicate

ID#: 0205602A-04AA

EPA METHOD TO-14 GC/MS FULL SCAN

File Name:	r060321	Date of Collection:	5/29/02
Dil. Factor:	57.6	Date of Analysis:	6/3/02

Compound	Rpt. Limit (ppbv)	Rpt. Limit (uG/m3)	Amount (ppbv)	Amount (uG/m3)
Carbon Disulfide	120	360	Not Detected	Not Detected
2-Propanol	120	290	Not Detected	Not Detected
trans-1,2-Dichloroethene	120	460	Not Detected	Not Detected
Vinyl Acetate	120	410	Not Detected	Not Detected
2-Butanone (Methyl Ethyl Ketone)	120	340	Not Detected	Not Detected
Hexane	120	410	260	930
Tetrahydrofuran	120	340	Not Detected	Not Detected
Cyclohexane	120	400	240	860
1,4-Dioxane	120	420	Not Detected	Not Detected
Bromodichloromethane	120	780	Not Detected	Not Detected
4-Methyl-2-pentanone	120	480	Not Detected	Not Detected
2-Hexanone	120	480	Not Detected	Not Detected
Dibromochloromethane	120	1000	Not Detected	Not Detected
Bromoform	120	1200	Not Detected	Not Detected
4-Ethyltoluene	120	580	2500	12000
Ethanol	120	220	Not Detected	Not Detected
Methyl tert-Butyl Ether	120	420	Not Detected	Not Detected
Heptane	120	480	320	1400

Q = Exceeds Quality Control limits of 70% to 130%, due to matrix effects.

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	108	70-130
Toluene-d8	109	70-130
4-Bromofluorobenzene	156 Q	70-130

APPENDIX D
ANALYTICAL RESULTS FOR EFFLUENT SAMPLES

NWS-EARLE
BIOSLURPER UNIT #1 AND #2
TPH EXTRACTED VIA GROUNDWATER TREATMENT

6/27/2002

BIOSLURPER UNIT 1

TPH INFLUENT* (mg/L):	276	
TPH EFFLUENT* (mg/L):	0.7	
GALLONS GROUNDWATER TREATED:	9292	
* as per analytical	2/27/2002	
average if more than one sample		
	21.35	=POUNDS OF TPH

BIOSLURPER UNIT 2

TPH INFLUENT* (mg/L):	17.6	
TPH EFFLUENT* (mg/L):	0.19	
GALLONS GROUNDWATER TREATED:	1224	
* as per analytical	2/27/2002	
average if more than one sample		
	0.18	=POUNDS OF TPH

POUNDS OF TPH=
Gallons Groundwater Treated * (3.785 L/gal) *(TPH INFLUENT (mg/L) -TPH EFFLUENT (mg/l))*0.001g/mg*0.002205 pounds/g)

NWS-EARLE
BIOSLURPER UNIT #1 AND #2
TPH EXTRACTED VIA GROUNDWATER TREATMENT

6/27/2002

BIOSLURPER UNIT 1

TPH INFLUENT* (mg/L):	101
TPH EFFLUENT* (mg/L):	0.81
GALLONS GROUNDWATER TREATED:	16151

* as per analytical 3/28/2002
average if more than one sample

13.51 =POUNDS OF TPH

BIOSLURPER UNIT 2

TPH INFLUENT* (mg/L):	98.1
TPH EFFLUENT* (mg/L):	0.24
GALLONS GROUNDWATER TREATED:	5726

* as per analytical 3/28/2002
average if more than one sample

4.68 =POUNDS OF TPH

POUNDS OF TPH=
Gallons Groundwater Treated * (3.785 L/gal) *(TPH INFLUENT (mg/L) -TPH EFFLUENT (mg/l))*0.001g/mg*0.002205 pounds/g)

NWS-EARLE
BIOSLURPER UNIT #1 AND #2
TPH EXTRACTED VIA GROUNDWATER TREATMENT

6/27/2002

BIOSLURPER UNIT 1

TPH INFLUENT* (mg/L):	338
TPH EFFLUENT* (mg/L):	0.96
GALLONS GROUNDWATER TREATED:	12749
* as per analytical	4/23/2002
average if more than one sample	
	35.86 =POUNDS OF TPH

BIOSLURPER UNIT 2

TPH INFLUENT* (mg/L):	12
TPH EFFLUENT* (mg/L):	0.19
GALLONS GROUNDWATER TREATED:	7639
* as per analytical	4/23/2002
average if more than one sample	
	0.75 =POUNDS OF TPH

POUNDS OF TPH=
Gallons Groundwater Treated * (3.785 L/gal) *(TPH INFLUENT (mg/L) -TPH EFFLUENT (mg/l))*0.001g/mg*0.002205 pounds/g)

NWS-EARLE
BIOSLURPER UNIT #1 AND #2
TPH EXTRACTED VIA GROUNDWATER TREATMENT

6/27/2002

BIOSLURPER UNIT 1

TPH INFLUENT* (mg/L):	104
TPH EFFLUENT* (mg/L):	0.28
GALLONS GROUNDWATER TREATED:	24926

* as per analytical 5/29/2002
average if more than one sample

21.58 =POUNDS OF TPH

BIOSLURPER UNIT 2

TPH INFLUENT* (mg/L):	78.9
TPH EFFLUENT* (mg/L):	0.076
GALLONS GROUNDWATER TREATED:	7727

* as per analytical 5/29/2002
average if more than one sample

5.08 =POUNDS OF TPH

POUNDS OF TPH=
Gallons Groundwater Treated * (3.785 L/gal) *(TPH INFLUENT (mg/L) -TPH EFFLUENT (mg/l))*0.001g/mg*0.002205 pounds/g)

Environmental Chemical Corporation

SAMPLE RESULTS

Customer:	FOSTER WHEELER ENVIRONMENTAL CORPORATION	Cust. Proj. No.:	MOA NO. 032876
Source:	NWS EARLE	Login No.:	L4185
Analysis:	**TPH Diesel by GC**	Date Received:	28-FEB-02
Method:	Mod. EPA 8015B	Date Analyzed:	01-MAR-02
Prep Method:	EPA 3510C	Prep Date:	28-FEB-02
Lab Notebook No:	1296 P.24	**Preparation Batch:**	WG8981
Initial Cal ID	2DZ0301	**Instrument Batch:**	WG8986

LAB I.D.	CUSTOMER SAMPLE NO. & LOCATION	MATRIX	TPH	MDL (mg/l)	RL (mg/l)	DILUTION	VALUE / FLAG (mg/l)		Surrogate Recovery (%)
L4185-1	16(A)EW02(39) #1P	Misc. H2O	NonVolatile (Diesel range)	0.076	11.3	50	276	D	N-Nonacosane 99.6
L4185-2	16(A)EW02(40) #1A	Misc. H2O	NonVolatile (Diesel range)	0.066	0.20	1	0.70		N-Nonacosane 70.6
L4185-3	16(B)EW02(11) #2P	Misc. H2O	NonVolatile (Diesel range)	0.066	2.0	10	17.6	D	N-Nonacosane 81.5
L4185-4	16(B)EW02(12) #2A	Misc. H2O	NonVolatile (Diesel range)	0.066	0.20	1	0.19	J	N-Nonacosane 75.0

RL - Reporting Limit

MDL - Method Detection Limit

D - Diluted

J - Estimated Value

Comments: 1) Surrogate Percent Recovery Limits: N-Nonacosane 64-140

000014

Environmental Chemical Corporation

SAMPLE NUMBER
16(A)EW02(39)

Customer: FOSTER WHEELER ENVIRONMENTAL CORPORATION
Project. No.: MOA NO. 032876
Source: NWS EARLE
Location: #1P
Analysis: **EPA Method 8260B Volatiles by GC/MS**

Preparation Batch:	**WG8979**	Instrument Batch:	**WG8980**
Matrix:	Misc. H2O	Lab Sample ID.:	**L4185-1**
Lab Notebook No:	1308,p.11	Date Sampled:	27-FEB-02
Initial Cal. ID.:	3VREG34S	Date Received:	28-FEB-02
Final Volume:	5.0 ml	Date Extracted:	28-FEB-02
Initial Volume:	5.0 ml	Date Analyzed:	28-FEB-02
Prep. Method:	EPA 5030B		
pH:	2 su		

SAMPLE RESULTS

	CAS NO.	COMPOUND	MDL (ug/l)	R L (ug/l)	RESULTS (ug/l)	DILUTION	FLAG
1.	630-20-6	1,1,1,2-tetrachloroethane	0.30	2.0	---	1	U
2.	71-55-6	1,1,1-trichloroethane	0.34	2.0	---	1	U
3.	79-34-5	1,1,2,2-tetrachloroethane	0.20	2.0	---	1	U
4.	79-00-5	1,1,2-trichloroethane	0.19	2.0	---	1	U
5.	75-34-3	1,1-dichloroethane	0.21	2.0	---	1	U
6.	75-35-4	1,1-dichloroethene	0.45	2.0	---	1	U
7.	563-58-6	1,1-dichloropropene	0.32	2.0	---	1	U
8.	87-61-6	1,2,3-trichlorobenzene	0.59	2.0	---	1	U
9.	96-18-4	1,2,3-trichloropropane	0.48	2.0	---	1	U
10.	120-82-1	1,2,4-trichlorobenzene	0.65	2.0	---	1	U
11.	95-63-6	1,2,4-trimethylbenzene	0.21	20.0	1380	10	D,B
12.	96-12-8	1,2-dibromo-3-chloropropane	0.67	2.0	---	1	U
13.	106-93-4	1,2-dibromoethane	0.37	2.0	---	1	U
14.	95-50-1	1,2-dichlorobenzene	0.28	2.0	---	1	U
15.	107-06-2	1,2-dichloroethane	0.31	2.0	---	1	U
16.	78-87-5	1,2-dichloropropane	0.20	2.0	---	1	U
17.	108-67-8	1,3,5-trimethylbenzene	0.36	20.0	419	10	D
18.	541-73-1	1,3-dichlorobenzene	0.33	2.0	---	1	U
19.	142-28-9	1,3-dichloropropane	0.31	2.0	---	1	U
20.	106-46-7	1,4-dichlorobenzene	0.35	2.0	---	1	U
21.	594-20-7	2,2-dichloropropane	0.48	2.0	---	1	U
22.	78-93-3	2-Butanone	4.4	20.0	---	1	U
23.	591-78-6	2-Hexanone	0.45	10.0	---	1	U
24.	95-49-8	2-chlorotoluene	0.34	2.0	---	1	U
25.	108-10-1	4-Methyl-2-pentanone	0.43	20.0	---	1	U

Comments: 1) Sample results are reported as rounded values. Percent recoveries are calculated using raw values and are reported rounded to zero decimal places.

Environmental Chemical Corporation

SAMPLE NUMBER

16(A)EW02(39)

Customer: FOSTER WHEELER ENVIRONMENTAL CORPORATION

Project. No.: MOA NO. 032876

Source: NWS EARLE

Location: #1P

Analysis: **EPA Method 8260B Volatiles by GC/MS**

Preparation Batch:	**WG8979**	Instrument Batch:	**WG8980**
Matrix:	Misc. H2O	Lab Sample ID.:	**L4185-1**
Lab Notebook No:	1308,p.11	Date Sampled:	27-FEB-02
Initial Cal. ID.:	3VREG34S	Date Received:	28-FEB-02
Final Volume:	5.0 ml	Date Extracted:	28-FEB-02
Initial Volume:	5.0 ml	Date Analyzed:	28-FEB-02
Prep. Method:	EPA 5030B		
pH:	2 su		

SAMPLE RESULTS

	CAS NO.	COMPOUND	MDL (ug/l)	R L (ug/l)	RESULTS (ug/l)	DILUTION	FLAG
26.	106-43-4	4-chlorotoluene	0.32	2.0	---	1	U
27.	99-87-6	4-isopropyltoluene	0.33	2.0	173	1	
28.	67-64-1	Acetone	12.0	40.0	---	1	U
29.	75-15-0	Carbon Disulfide	0.29	2.0	---	1	U
30.	1634-04-4	MTBE	0.33	2.0	22.1	1	
31.	71-43-2	benzene	0.20	2.0	98.3	1	
32.	108-86-1	bromobenzene	0.27	2.0	---	1	U
33.	74-97-5	bromochloromethane	0.33	2.0	---	1	U
34.	75-27-4	bromodichloromethane	0.34	2.0	---	1	U
35.	75-25-2	bromoform	0.27	2.0	---	1	U
36.	74-83-9	bromomethane	0.75	3.0	---	1	U
37.	56-23-5	carbon tetrachloride	0.30	2.0	---	1	U
38.	108-90-7	chlorobenzene	0.22	2.0	---	1	U
39.	75-00-3	chloroethane	0.30	2.0	---	1	U
40.	67-66-3	chloroform	0.44	2.0	1.1	1	J
41.	74-87-3	chloromethane	0.44	2.0	---	1	U
42.	156-59-2	cis-1,2-dichloroethene	0.29	2.0	---	1	U
43.	10061-01-5	cis-1,3-dichloropropene	0.41	2.0	---	1	U
44.	124-48-1	dibromochloromethane	0.23	2.0	---	1	U
45.	74-95-3	dibromomethane	0.25	2.0	---	1	U
46.	75-71-8	dichlorodifluoromethane	0.26	2.0	---	1	U
47.	100-41-4	ethylbenzene	0.28	20.0	204	10	D
48.	87-68-3	hexachlorobutadiene	0.58	2.0	---	1	U
49.	98-82-8	isopropylbenzene	0.41	2.0	101	1	
50.	106-42-3	m,p-xylene	0.63	40.0	708	10	D,B

Comments: 1) Sample results are reported as rounded values. Percent recoveries are calculated using raw values and are reported rounded to zero decimal places.

Environmental Chemical Corporation

SAMPLE NUMBER
16(A)EW02(39)

Customer: FOSTER WHEELER ENVIRONMENTAL CORPORATION
Project. No.: MOA NO. 032876
Source: NWS EARLE
Location: #1P
Analysis: **EPA Method 8260B Volatiles by GC/MS**

Preparation Batch:	**WG8979**	Instrument Batch:	**WG8980**
Matrix:	Misc. H2O	Lab Sample ID.:	**L4185-1**
Lab Notebook No:	1308,p.11	Date Sampled:	27-FEB-02
Initial Cal. ID.:	3VREG34S	Date Received:	28-FEB-02
Final Volume:	5.0 ml	Date Extracted:	28-FEB-02
Initial Volume:	5.0 ml	Date Analyzed:	28-FEB-02
Prep. Method:	EPA 5030B		
pH:	2 su		

SAMPLE RESULTS

	CAS NO.	COMPOUND	MDL (ug/l)	R L (ug/l)	RESULTS (ug/l)	DILUTION	FLAG
51.	75-09-2	methylene chloride	0.60	2.0	---	1	U
52.	104-51-8	n-butylbenzene	0.40	2.0	---	1	U
53.	103-65-1	n-propylbenzene	0.35	20.0	152	10	D
54.	91-20-3	naphthalene	0.34	20.0	1580	10	D
55.	95-47-6	o-xylene	0.31	20.0	234	10	D
56.	135-98-8	sec-butylbenzene	0.38	2.0	183	1	
57.	100-42-5	styrene	0.43	2.0	---	1	U
58.	98-06-6	tert-butylbenzene	0.40	2.0	13.2	1	
59.	127-18-4	tetrachloroethene	0.33	2.0	---	1	U
60.	108-88-3	toluene	0.31	2.0	18.4	1	
61.	156-60-5	trans-1,2-dichloroethene	0.34	2.0	---	1	U
62.	10061-02-6	trans-1,3-dichloropropene	0.34	2.0	---	1	U
63.	79-01-6	trichloroethene	0.30	2.0	---	1	U
64.	75-69-4	trichlorofluoromethane	0.22	2.0	---	1	U
65.	75-01-4	vinyl chloride	0.49	2.0	---	1	U

SURROGATE STANDARD	RECOVERY (%)	ACCEPTABLE (%)	SPIKE
1,2-dichloroethane-d4	83	62-139	50.0 ug/l
4-bromofluorobenzene	125	75-125	50.0 ug/l
dibromofluoromethane	91	75-125	50.0 ug/l
toluene-d8	115	75-125	50.0 ug/l

RL - Reporting Limit
MDL - Method Detection Limit
B - Blank Contamination
D - Diluted
J - Estimated Value
U - Below MDL

Comments: 1) Sample results are reported as rounded values. Percent recoveries are calculated using raw values and are reported rounded to zero decimal places.

Environmental Chemical Corporation

SAMPLE NUMBER
16(A)EW02(39)

Customer: FOSTER WHEELER ENVIRONMENTAL CORPORATION
Project. No.: MOA NO. 032876
Source: NWS EARLE
Location: #1P
Analysis: **EPA Method 8260B Volatiles by GC/MS**

Preparation Batch:	**WG8979**	Instrument Batch:	**WG8980**
Matrix:	Misc. H2O	Lab Sample I.D.:	**L4185-1**
Lab Notebook No:	1308,p.11	Date Sampled:	27-FEB-02
Initial Cal I.D.:	3VREG34S	Date Received:	28-FEB-02
Final Volume:	5.0 ml	Date Extracted:	28-FEB-02
Initial Volume:	5.0 ml	Date Analyzed:	28-FEB-02
Prep. Method:	EPA 5030B		
pH:	2 su		

TENTATIVELY IDENTIFIED COMPOUNDS

	CAS NO.	COMPOUND	RETENTION TIME (MIN)	EST. CONC (ug/l)
1.	620-14-4	Benzene, 1-ethyl-3-methyl-	17.42	316
2.	124-18-5	Decane	17.64	614
3.	611-14-3	Benzene, 1-ethyl-2-methyl-	17.93	259
4.	526-73-8	Benzene, 1,2,3-trimethyl-	19.00	227
5.	1120-21-4	Undecane	19.84	917
6.	2958-76-1	Naphthalene, decahydro-2-methyl-	20.69	221
7.	4292-92-6	Cyclohexane, pentyl-	20.88	282
8.	488-23-3	Benzene, 1,2,3,4-tetramethyl-	21.06	305
9.	112-40-3	Dodecane	21.84	460
10.	-----	C13H28	22.12	353

Comments: These compounds are not part of the target list. They were tentatively identified in the sample chromatogram. The concentrations are estimated.

Environmental Chemical Corporation

SAMPLE NUMBER
16(A)EW02(40)

Customer: FOSTER WHEELER ENVIRONMENTAL CORPORATION
Project. No.: MOA NO. 032876
Source: NWS EARLE
Location: #1A
Analysis: **EPA Method 8260B Volatiles by GC/MS**

Preparation Batch:	**WG8979**	Instrument Batch:	**WG8980**
Matrix:	Misc. H2O	Lab Sample ID.:	**L4185-2**
Lab Notebook No:	1308,p.11	Date Sampled:	27-FEB-02
Initial Cal. ID.:	3VREG34S	Date Received:	28-FEB-02
Final Volume:	5.0 ml	Date Extracted:	28-FEB-02
Initial Volume:	5.0 ml	Date Analyzed:	28-FEB-02
Prep. Method:	EPA 5030B		
pH:	2 su		

SAMPLE RESULTS

	CAS NO.	COMPOUND	MDL (ug/l)	R L (ug/l)	RESULTS (ug/l)	DILUTION	FLAG
1.	630-20-6	1,1,1,2-tetrachloroethane	0.30	2.0	---	1	U
2.	71-55-6	1,1,1-trichloroethane	0.34	2.0	---	1	U
3.	79-34-5	1,1,2,2-tetrachloroethane	0.20	2.0	---	1	U
4.	79-00-5	1,1,2-trichloroethane	0.19	2.0	---	1	U
5.	75-34-3	1,1-dichloroethane	0.21	2.0	---	1	U
6.	75-35-4	1,1-dichloroethene	0.45	2.0	---	1	U
7.	563-58-6	1,1-dichloropropene	0.32	2.0	---	1	U
8.	87-61-6	1,2,3-trichlorobenzene	0.59	2.0	---	1	U
9.	96-18-4	1,2,3-trichloropropane	0.48	2.0	---	1	U
10.	120-82-1	1,2,4-trichlorobenzene	0.65	2.0	---	1	U
11.	95-63-6	1,2,4-trimethylbenzene	0.21	2.0	24.6	1	B
12.	96-12-8	1,2-dibromo-3-chloropropane	0.67	2.0	---	1	U
13.	106-93-4	1,2-dibromoethane	0.37	2.0	---	1	U
14.	95-50-1	1,2-dichlorobenzene	0.28	2.0	---	1	U
15.	107-06-2	1,2-dichloroethane	0.31	2.0	2.2	1	
16.	78-87-5	1,2-dichloropropane	0.20	2.0	---	1	U
17.	108-67-8	1,3,5-trimethylbenzene	0.36	2.0	6.9	1	
18.	541-73-1	1,3-dichlorobenzene	0.33	2.0	---	1	U
19.	142-28-9	1,3-dichloropropane	0.31	2.0	---	1	U
20.	106-46-7	1,4-dichlorobenzene	0.35	2.0	---	1	U
21.	594-20-7	2,2-dichloropropane	0.48	2.0	---	1	U
22.	78-93-3	2-Butanone	4.4	20.0	---	1	U
23.	591-78-6	2-Hexanone	0.45	10.0	---	1	U
24.	95-49-8	2-chlorotoluene	0.34	2.0	---	1	U
25.	108-10-1	4-Methyl-2-pentanone	0.43	20.0	---	1	U

Comments: 1) Sample results are reported as rounded values. Percent recoveries are calculated using raw values and are reported rounded to zero decimal places.

Environmental Chemical Corporation

SAMPLE NUMBER
16(A)EW02(40)

Customer: FOSTER WHEELER ENVIRONMENTAL CORPORATION
Project. No.: MOA NO. 032876
Source: NWS EARLE
Location: #1A
Analysis: **EPA Method 8260B Volatiles by GC/MS**

Preparation Batch:	**WG8979**	Instrument Batch:	**WG8980**
Matrix:	Misc. H2O	Lab Sample ID.:	**L4185-2**
Lab Notebook No:	1308,p.11	Date Sampled:	27-FEB-02
Initial Cal. ID.:	3VREG34S	Date Received:	28-FEB-02
Final Volume:	5.0 ml	Date Extracted:	28-FEB-02
Initial Volume:	5.0 ml	Date Analyzed:	28-FEB-02
Prep. Method:	EPA 5030B		
pH:	2 su		

SAMPLE RESULTS

	CAS NO.	COMPOUND	MDL (ug/l)	R L (ug/l)	RESULTS (ug/l)	DILUTION	FLAG
26.	106-43-4	4-chlorotoluene	0.32	2.0	---	1	U
27.	99-87-6	4-isopropyltoluene	0.33	2.0	0.88	1	J
28.	67-64-1	Acetone	12.0	40.0	15.2	1	J
29.	75-15-0	Carbon Disulfide	0.29	2.0	---	1	U
30.	1634-04-4	MTBE	0.33	2.0	23.2	1	
31.	71-43-2	benzene	0.20	2.0	79.9	1	
32.	108-86-1	bromobenzene	0.27	2.0	---	1	U
33.	74-97-5	bromochloromethane	0.33	2.0	---	1	U
34.	75-27-4	bromodichloromethane	0.34	2.0	---	1	U
35.	75-25-2	bromoform	0.27	2.0	---	1	U
36.	74-83-9	bromomethane	0.75	3.0	---	1	U
37.	56-23-5	carbon tetrachloride	0.30	2.0	---	1	U
38.	108-90-7	chlorobenzene	0.22	2.0	---	1	U
39.	75-00-3	chloroethane	0.30	2.0	---	1	U
40.	67-66-3	chloroform	0.44	2.0	---	1	U
41.	74-87-3	chloromethane	0.44	2.0	---	1	U
42.	156-59-2	cis-1,2-dichloroethene	0.29	2.0	---	1	U
43.	10061-01-5	cis-1,3-dichloropropene	0.41	2.0	---	1	U
44.	124-48-1	dibromochloromethane	0.23	2.0	---	1	U
45.	74-95-3	dibromomethane	0.25	2.0	---	1	U
46.	75-71-8	dichlorodifluoromethane	0.26	2.0	---	1	U
47.	100-41-4	ethylbenzene	0.28	2.0	5.2	1	
48.	87-68-3	hexachlorobutadiene	0.58	2.0	---	1	U
49.	98-82-8	isopropylbenzene	0.41	2.0	0.88	1	J
50.	106-42-3	m,p-xylene	0.63	4.0	63.4	1	B

Comments: 1) Sample results are reported as rounded values. Percent recoveries are calculated using raw values and are reported rounded to zero decimal places.

Environmental Chemical Corporation

SAMPLE NUMBER
16(A)EW02(40)

Customer: FOSTER WHEELER ENVIRONMENTAL CORPORATION
Project. No.: MOA NO. 032876
Source: NWS EARLE
Location: #1A
Analysis: **EPA Method 8260B Volatiles by GC/MS**

Preparation Batch:	**WG8979**	Instrument Batch:	**WG8980**
Matrix:	Misc. H2O	Lab Sample ID.:	**L4185-2**
Lab Notebook No:	1308,p.11	Date Sampled:	27-FEB-02
Initial Cal. ID.:	3VREG34S	Date Received:	28-FEB-02
Final Volume:	5.0 ml	Date Extracted:	28-FEB-02
Initial Volume:	5.0 ml	Date Analyzed:	28-FEB-02
Prep. Method:	EPA 5030B		
pH:	2 su		

SAMPLE RESULTS

	CAS NO.	COMPOUND	MDL (ug/l)	R L (ug/l)	RESULTS (ug/l)	DILUTION	FLAG
51.	75-09-2	methylene chloride	0.60	2.0	0.62	1	J,B
52.	104-51-8	n-butylbenzene	0.40	2.0	---	1	U
53.	103-65-1	n-propylbenzene	0.35	2.0	0.53	1	J
54.	91-20-3	naphthalene	0.34	2.0	5.3	1	
55.	95-47-6	o-xylene	0.31	2.0	31.8	1	
56.	135-98-8	sec-butylbenzene	0.38	2.0	0.64	1	J
57.	100-42-5	styrene	0.43	2.0	---	1	U
58.	98-06-6	tert-butylbenzene	0.40	2.0	---	1	U
59.	127-18-4	tetrachloroethene	0.33	2.0	---	1	U
60.	108-88-3	toluene	0.31	2.0	6.3	1	
61.	156-60-5	trans-1,2-dichloroethene	0.34	2.0	---	1	U
62.	10061-02-6	trans-1,3-dichloropropene	0.34	2.0	---	1	U
63.	79-01-6	trichloroethene	0.30	2.0	---	1	U
64.	75-69-4	trichlorofluoromethane	0.22	2.0	---	1	U
65.	75-01-4	vinyl chloride	0.49	2.0	---	1	U

SURROGATE STANDARD	RECOVERY (%)	ACCEPTABLE (%)	SPIKE
1,2-dichloroethane-d4	87	62-139	50.0 ug/l
4-bromofluorobenzene	100	75-125	50.0 ug/l
dibromofluoromethane	93	75-125	50.0 ug/l
toluene-d8	99	75-125	50.0 ug/l

RL - Reporting Limit
MDL - Method Detection Limit
B - Blank Contamination
J - Estimated Value
U - Below MDL

Comments: 1) Sample results are reported as rounded values. Percent recoveries are calculated using raw values and are reported rounded to zero decimal places.

Environmental Chemical Corporation

SAMPLE NUMBER

16(A)EW02(40)

Customer: FOSTER WHEELER ENVIRONMENTAL CORPORATION

Project. No.: MOA NO. 032876

Source: NWS EARLE

Location: #1A

Analysis: **EPA Method 8260B Volatiles by GC/MS**

Preparation Batch:	**WG8979**	Instrument Batch:	**WG8980**
Matrix:	Misc. H2O	Lab Sample I.D.:	**L4185-2**
Lab Notebook No:	1308,p.11	Date Sampled:	27-FEB-02
Initial Cal I.D.:	3VREG34S	Date Received:	28-FEB-02
Final Volume:	5.0 ml	Date Extracted:	28-FEB-02
Initial Volume:	5.0 ml	Date Analyzed:	28-FEB-02
Prep. Method:	EPA 5030B		
pH:	2 su		

TENTATIVELY IDENTIFIED COMPOUNDS

	CAS NO.	COMPOUND	RETENTION TIME (MIN)	EST. CONC (ug/l)
1.	513-35-9	2-Butene, 2-methyl-	4.38	10.1
2.	-----	C6H14O3	12.14	31.8
3.	620-14-4	Benzene, 1-ethyl-3-methyl-	17.40	24.0
4.	611-14-3	Benzene, 1-ethyl-2-methyl-	17.92	16.1
5.	526-73-8	Benzene, 1,2,3-trimethyl-	18.99	29.8
6.	496-11-7	Indane	19.34	18.9

Comments: These compounds are not part of the target list. They were tentatively identified in the sample chromatogram. The concentrations are estimated.

Environmental Chemical Corporation

SAMPLE NUMBER
16(B)EW02(11)

Customer: FOSTER WHEELER ENVIRONMENTAL CORPORATION
Project. No.: MOA NO. 032876
Source: NWS EARLE
Location: #2P
Analysis: **EPA Method 8260B Volatiles by GC/MS**

Preparation Batch:	**WG8979**	Instrument Batch:	**WG8980**
Matrix:	Misc. H2O	Lab Sample ID.:	**L4185-3**
Lab Notebook No:	1308,p.11	Date Sampled:	27-FEB-02
Initial Cal. ID.:	3VREG34S	Date Received:	28-FEB-02
Final Volume:	5.0 ml	Date Extracted:	28-FEB-02
Initial Volume:	5.0 ml	Date Analyzed:	28-FEB-02
Prep. Method:	EPA 5030B		
pH:	2 su		

SAMPLE RESULTS

	CAS NO.	COMPOUND	MDL (ug/l)	R L (ug/l)	RESULTS (ug/l)	DILUTION	FLAG
1.	630-20-6	1,1,1,2-tetrachloroethane	0.30	2.0	---	1	U
2.	71-55-6	1,1,1-trichloroethane	0.34	2.0	---	1	U
3.	79-34-5	1,1,2,2-tetrachloroethane	0.20	2.0	---	1	U
4.	79-00-5	1,1,2-trichloroethane	0.19	2.0	---	1	U
5.	75-34-3	1,1-dichloroethane	0.21	2.0	---	1	U
6.	75-35-4	1,1-dichloroethene	0.45	2.0	---	1	U
7.	563-58-6	1,1-dichloropropene	0.32	2.0	---	1	U
8.	87-61-6	1,2,3-trichlorobenzene	0.59	2.0	---	1	U
9.	96-18-4	1,2,3-trichloropropane	0.48	2.0	---	1	U
10.	120-82-1	1,2,4-trichlorobenzene	0.65	2.0	---	1	U
11.	95-63-6	1,2,4-trimethylbenzene	0.21	2.0	114	1	B
12.	96-12-8	1,2-dibromo-3-chloropropane	0.67	2.0	---	1	U
13.	106-93-4	1,2-dibromoethane	0.37	2.0	---	1	U
14.	95-50-1	1,2-dichlorobenzene	0.28	2.0	---	1	U
15.	107-06-2	1,2-dichloroethane	0.31	2.0	---	1	U
16.	78-87-5	1,2-dichloropropane	0.20	2.0	---	1	U
17.	108-67-8	1,3,5-trimethylbenzene	0.36	2.0	29.9	1	
18.	541-73-1	1,3-dichlorobenzene	0.33	2.0	---	1	U
19.	142-28-9	1,3-dichloropropane	0.31	2.0	---	1	U
20.	106-46-7	1,4-dichlorobenzene	0.35	2.0	---	1	U
21.	594-20-7	2,2-dichloropropane	0.48	2.0	---	1	U
22.	78-93-3	2-Butanone	4.4	20.0	6.0	1	J
23.	591-78-6	2-Hexanone	0.45	10.0	---	1	U
24.	95-49-8	2-chlorotoluene	0.34	2.0	---	1	U
25.	108-10-1	4-Methyl-2-pentanone	0.43	20.0	---	1	U

Comments: 1) Sample results are reported as rounded values. Percent recoveries are calculated using raw values and are reported rounded to zero decimal places.

Environmental Chemical Corporation

SAMPLE NUMBER

16(B)EW02(11)

Customer: FOSTER WHEELER ENVIRONMENTAL CORPORATION

Project. No.: MOA NO. 032876

Source: NWS EARLE

Location: #2P

Analysis: **EPA Method 8260B Volatiles by GC/MS**

Preparation Batch:	**WG8979**	Instrument Batch:	**WG8980**
Matrix:	Misc. H2O	Lab Sample ID.:	**L4185-3**
Lab Notebook No:	1308,p.11	Date Sampled:	27-FEB-02
Initial Cal. ID.:	3VREG34S	Date Received:	28-FEB-02
Final Volume:	5.0 ml	Date Extracted:	28-FEB-02
Initial Volume:	5.0 ml	Date Analyzed:	28-FEB-02
Prep. Method:	EPA 5030B		
pH:	2 su		

SAMPLE RESULTS

	CAS NO.	COMPOUND	MDL (ug/l)	R L (ug/l)	RESULTS (ug/l)	DILUTION	FLAG
26.	106-43-4	4-chlorotoluene	0.32	2.0	---	1	U
27.	99-87-6	4-isopropyltoluene	0.33	2.0	7.1	1	
28.	67-64-1	Acetone	12.0	40.0	---	1	U
29.	75-15-0	Carbon Disulfide	0.29	2.0	---	1	U
30.	1634-04-4	MTBE	0.33	2.0	0.66	1	J
31.	71-43-2	benzene	0.20	2.0	1.7	1	J
32.	108-86-1	bromobenzene	0.27	2.0	---	1	U
33.	74-97-5	bromochloromethane	0.33	2.0	---	1	U
34.	75-27-4	bromodichloromethane	0.34	2.0	---	1	U
35.	75-25-2	bromoform	0.27	2.0	---	1	U
36.	74-83-9	bromomethane	0.75	3.0	---	1	U
37.	56-23-5	carbon tetrachloride	0.30	2.0	---	1	U
38.	108-90-7	chlorobenzene	0.22	2.0	---	1	U
39.	75-00-3	chloroethane	0.30	2.0	---	1	U
40.	67-66-3	chloroform	0.44	2.0	---	1	U
41.	74-87-3	chloromethane	0.44	2.0	---	1	U
42.	156-59-2	cis-1,2-dichloroethene	0.29	2.0	---	1	U
43.	10061-01-5	cis-1,3-dichloropropene	0.41	2.0	---	1	U
44.	124-48-1	dibromochloromethane	0.23	2.0	---	1	U
45.	74-95-3	dibromomethane	0.25	2.0	---	1	U
46.	75-71-8	dichlorodifluoromethane	0.26	2.0	---	1	U
47.	100-41-4	ethylbenzene	0.28	2.0	15.3	1	
48.	87-68-3	hexachlorobutadiene	0.58	2.0	---	1	U
49.	98-82-8	isopropylbenzene	0.41	2.0	4.7	1	
50.	106-42-3	m,p-xylene	0.63	4.0	37.8	1	B

Comments: 1) Sample results are reported as rounded values. Percent recoveries are calculated using raw values and are reported rounded to zero decimal places.

Environmental Chemical Corporation

SAMPLE NUMBER
16(B)EW02(11)

Customer: FOSTER WHEELER ENVIRONMENTAL CORPORATION
Project. No.: MOA NO. 032876
Source: NWS EARLE
Location: #2P
Analysis: **EPA Method 8260B Volatiles by GC/MS**

Preparation Batch:	**WG8979**	Instrument Batch:	**WG8980**
Matrix:	Misc. H2O	Lab Sample ID.:	**L4185-3**
Lab Notebook No:	1308,p.11	Date Sampled:	27-FEB-02
Initial Cal. ID.:	3VREG34S	Date Received:	28-FEB-02
Final Volume:	5.0 ml	Date Extracted:	28-FEB-02
Initial Volume:	5.0 ml	Date Analyzed:	28-FEB-02
Prep. Method:	EPA 5030B		
pH:	2 su		

SAMPLE RESULTS

	CAS NO.	COMPOUND	MDL (ug/l)	R L (ug/l)	RESULTS (ug/l)	DILUTION	FLAG
51.	75-09-2	methylene chloride	0.60	2.0	0.64	1	J,B
52.	104-51-8	n-butylbenzene	0.40	2.0	---	1	U
53.	103-65-1	n-propylbenzene	0.35	2.0	6.9	1	
54.	91-20-3	naphthalene	0.34	10.0	311	5	D
55.	95-47-6	o-xylene	0.31	2.0	17.2	1	
56.	135-98-8	sec-butylbenzene	0.38	2.0	5.0	1	
57.	100-42-5	styrene	0.43	2.0	---	1	U
58.	98-06-6	tert-butylbenzene	0.40	2.0	0.79	1	J
59.	127-18-4	tetrachloroethene	0.33	2.0	---	1	U
60.	108-88-3	toluene	0.31	2.0	5.1	1	
61.	156-60-5	trans-1,2-dichloroethene	0.34	2.0	---	1	U
62.	10061-02-6	trans-1,3-dichloropropene	0.34	2.0	---	1	U
63.	79-01-6	trichloroethene	0.30	2.0	---	1	U
64.	75-69-4	trichlorofluoromethane	0.22	2.0	---	1	U
65.	75-01-4	vinyl chloride	0.49	2.0	---	1	U

SURROGATE STANDARD	RECOVERY (%)	ACCEPTABLE (%)	SPIKE
1,2-dichloroethane-d4	83	62-139	50.0 ug/l
4-bromofluorobenzene	90	75-125	50.0 ug/l
dibromofluoromethane	94	75-125	50.0 ug/l
toluene-d8	95	75-125	50.0 ug/l

RL - Reporting Limit
B - Blank Contamination
J - Estimated Value
MDL - Method Detection Limit
D - Diluted
U - Below MDL

Comments: 1) Sample results are reported as rounded values. Percent recoveries are calculated using raw values and are reported rounded to zero decimal places.

Environmental Chemical Corporation

SAMPLE NUMBER
16(B)EW02(11)

Customer: FOSTER WHEELER ENVIRONMENTAL CORPORATION
Project. No.: MOA NO. 032876
Source: NWS EARLE
Location: #2P
Analysis: **EPA Method 8260B Volatiles by GC/MS**

Preparation Batch:	**WG8979**	Instrument Batch:	**WG8980**
Matrix:	Misc. H2O	Lab Sample I.D.:	**L4185-3**
Lab Notebook No:	1308,p.11	Date Sampled:	27-FEB-02
Initial Cal I.D.:	3VREG34S	Date Received:	28-FEB-02
Final Volume:	5.0 ml	Date Extracted:	28-FEB-02
Initial Volume:	5.0 ml	Date Analyzed:	28-FEB-02
Prep. Method:	EPA 5030B		
pH:	2 su		

TENTATIVELY IDENTIFIED COMPOUNDS

	CAS NO.	COMPOUND	RETENTION TIME (MIN)	EST. CONC (ug/l)
1.	611-14-3	Benzene, 1-ethyl-2-methyl-	17.40	65.2
2.	526-73-8	Benzene, 1,2,3-trimethyl-	18.99	74.5
3.	300-57-2	Benzene, 2-propenyl-	19.34	54.8
4.	535-77-3	Benzene, 1-methyl-3-(1-methylethyl	19.53	80.8
5.	95-93-2	Benzene, 1,2,4,5-tetramethyl-	21.05	68.2
6.	2039-89-6	Benzene, 2-ethenyl-1,4-dimethyl-	21.81	146
7.	119-64-2	Naphthalene, 1,2,3,4-tetrahydro-	22.11	91.8
8.	6682-71-9	1H-Indene, 2,3-dihydro-4,7-dimethy	23.41	53.6
9.	90-12-0	Naphthalene, 1-methyl-	23.88	113
10.	91-57-6	Naphthalene, 2-methyl-	24.05	80.4

Comments: These compounds are not part of the target list. They were tentatively identified in the sample chromatogram. The concentrations are estimated.

Environmental Chemical Corporation

SAMPLE NUMBER
16(B)EW02(12)

Customer: FOSTER WHEELER ENVIRONMENTAL CORPORATION
Project. No.: MOA NO. 032876
Source: NWS EARLE
Location: #2A
Analysis: **EPA Method 8260B Volatiles by GC/MS**

Preparation Batch:	**WG8979**	Instrument Batch:	**WG8980**
Matrix:	Misc. H2O	Lab Sample ID.:	**L4185-4**
Lab Notebook No:	1308,p.11	Date Sampled:	27-FEB-02
Initial Cal. ID.:	3VREG34S	Date Received:	28-FEB-02
Final Volume:	5.0 ml	Date Extracted:	28-FEB-02
Initial Volume:	5.0 ml	Date Analyzed:	28-FEB-02
Prep. Method:	EPA 5030B		
pH:	2 su		

SAMPLE RESULTS

	CAS NO.	COMPOUND	MDL (ug/l)	R L (ug/l)	RESULTS (ug/l)	DILUTION	FLAG
1.	630-20-6	1,1,1,2-tetrachloroethane	0.30	2.0	---	1	U
2.	71-55-6	1,1,1-trichloroethane	0.34	2.0	---	1	U
3.	79-34-5	1,1,2,2-tetrachloroethane	0.20	2.0	---	1	U
4.	79-00-5	1,1,2-trichloroethane	0.19	2.0	---	1	U
5.	75-34-3	1,1-dichloroethane	0.21	2.0	---	1	U
6.	75-35-4	1,1-dichloroethene	0.45	2.0	---	1	U
7.	563-58-6	1,1-dichloropropene	0.32	2.0	---	1	U
8.	87-61-6	1,2,3-trichlorobenzene	0.59	2.0	---	1	U
9.	96-18-4	1,2,3-trichloropropane	0.48	2.0	---	1	U
10.	120-82-1	1,2,4-trichlorobenzene	0.65	2.0	---	1	U
11.	95-63-6	1,2,4-trimethylbenzene	0.21	2.0	0.55	1	J,B
12.	96-12-8	1,2-dibromo-3-chloropropane	0.67	2.0	---	1	U
13.	106-93-4	1,2-dibromoethane	0.37	2.0	---	1	U
14.	95-50-1	1,2-dichlorobenzene	0.28	2.0	---	1	U
15.	107-06-2	1,2-dichloroethane	0.31	2.0	---	1	U
16.	78-87-5	1,2-dichloropropane	0.20	2.0	---	1	U
17.	108-67-8	1,3,5-trimethylbenzene	0.36	2.0	---	1	U
18.	541-73-1	1,3-dichlorobenzene	0.33	2.0	---	1	U
19.	142-28-9	1,3-dichloropropane	0.31	2.0	---	1	U
20.	106-46-7	1,4-dichlorobenzene	0.35	2.0	---	1	U
21.	594-20-7	2,2-dichloropropane	0.48	2.0	---	1	U
22.	78-93-3	2-Butanone	4.4	20.0	---	1	U
23.	591-78-6	2-Hexanone	0.45	10.0	---	1	U
24.	95-49-8	2-chlorotoluene	0.34	2.0	---	1	U
25.	108-10-1	4-Methyl-2-pentanone	0.43	20.0	---	1	U

Comments: 1) Sample results are reported as rounded values. Percent recoveries are calculated using raw values and are reported rounded to zero decimal places.

Environmental Chemical Corporation

SAMPLE NUMBER
16(B)EW02(12)

Customer: FOSTER WHEELER ENVIRONMENTAL CORPORATION
Project. No.: MOA NO. 032876
Source: NWS EARLE
Location: #2A
Analysis: **EPA Method 8260B Volatiles by GC/MS**

Preparation Batch:	**WG8979**	Instrument Batch:	**WG8980**
Matrix:	Misc. H2O	Lab Sample ID.:	**L4185-4**
Lab Notebook No:	1308,p.11	Date Sampled:	27-FEB-02
Initial Cal. ID.:	3VREG34S	Date Received:	28-FEB-02
Final Volume:	5.0 ml	Date Extracted:	28-FEB-02
Initial Volume:	5.0 ml	Date Analyzed:	28-FEB-02
Prep. Method:	EPA 5030B		
pH:	2 su		

SAMPLE RESULTS

	CAS NO.	COMPOUND	MDL (ug/l)	R L (ug/l)	RESULTS (ug/l)	DILUTION	FLAG
26.	106-43-4	4-chlorotoluene	0.32	2.0	---	1	U
27.	99-87-6	4-isopropyltoluene	0.33	2.0	---	1	U
28.	67-64-1	Acetone	12.0	40.0	---	1	U
29.	75-15-0	Carbon Disulfide	0.29	2.0	---	1	U
30.	1634-04-4	MTBE	0.33	2.0	---	1	U
31.	71-43-2	benzene	0.20	2.0	---	1	U
32.	108-86-1	bromobenzene	0.27	2.0	---	1	U
33.	74-97-5	bromochloromethane	0.33	2.0	---	1	U
34.	75-27-4	bromodichloromethane	0.34	2.0	---	1	U
35.	75-25-2	bromoform	0.27	2.0	---	1	U
36.	74-83-9	bromomethane	0.75	3.0	---	1	U
37.	56-23-5	carbon tetrachloride	0.30	2.0	---	1	U
38.	108-90-7	chlorobenzene	0.22	2.0	---	1	U
39.	75-00-3	chloroethane	0.30	2.0	---	1	U
40.	67-66-3	chloroform	0.44	2.0	---	1	U
41.	74-87-3	chloromethane	0.44	2.0	---	1	U
42.	156-59-2	cis-1,2-dichloroethene	0.29	2.0	---	1	U
43.	10061-01-5	cis-1,3-dichloropropene	0.41	2.0	---	1	U
44.	124-48-1	dibromochloromethane	0.23	2.0	---	1	U
45.	74-95-3	dibromomethane	0.25	2.0	---	1	U
46.	75-71-8	dichlorodifluoromethane	0.26	2.0	---	1	U
47.	100-41-4	ethylbenzene	0.28	2.0	---	1	U
48.	87-68-3	hexachlorobutadiene	0.58	2.0	---	1	U
49.	98-82-8	isopropylbenzene	0.41	2.0	---	1	U
50.	106-42-3	m,p-xylene	0.63	4.0	---	1	U

Comments: 1) Sample results are reported as rounded values. Percent recoveries are calculated using raw values and are reported rounded to zero decimal places.

Environmental Chemical Corporation

SAMPLE NUMBER
16(B)EW02(12)

Customer: FOSTER WHEELER ENVIRONMENTAL CORPORATION
Project. No.: MOA NO. 032876
Source: NWS EARLE
Location: #2A
Analysis: **EPA Method 8260B Volatiles by GC/MS**

Preparation Batch:	**WG8979**	Instrument Batch:	**WG8980**
Matrix:	Misc. H2O	Lab Sample ID.:	**L4185-4**
Lab Notebook No:	1308,p.11	Date Sampled:	27-FEB-02
Initial Cal. ID.:	3VREG34S	Date Received:	28-FEB-02
Final Volume:	5.0 ml	Date Extracted:	28-FEB-02
Initial Volume:	5.0 ml	Date Analyzed:	28-FEB-02
Prep. Method:	EPA 5030B		
pH:	2 su		

SAMPLE RESULTS

	CAS NO.	COMPOUND	MDL (ug/l)	R L (ug/l)	RESULTS (ug/l)	DILUTION	FLAG
51.	75-09-2	methylene chloride	0.60	2.0	---	1	U
52.	104-51-8	n-butylbenzene	0.40	2.0	---	1	U
53.	103-65-1	n-propylbenzene	0.35	2.0	---	1	U
54.	91-20-3	naphthalene	0.34	2.0	0.39	1	J
55.	95-47-6	o-xylene	0.31	2.0	---	1	U
56.	135-98-8	sec-butylbenzene	0.38	2.0	---	1	U
57.	100-42-5	styrene	0.43	2.0	---	1	U
58.	98-06-6	tert-butylbenzene	0.40	2.0	---	1	U
59.	127-18-4	tetrachloroethene	0.33	2.0	---	1	U
60.	108-88-3	toluene	0.31	2.0	---	1	U
61.	156-60-5	trans-1,2-dichloroethene	0.34	2.0	---	1	U
62.	10061-02-6	trans-1,3-dichloropropene	0.34	2.0	---	1	U
63.	79-01-6	trichloroethene	0.30	2.0	---	1	U
64.	75-69-4	trichlorofluoromethane	0.22	2.0	---	1	U
65.	75-01-4	vinyl chloride	0.49	2.0	---	1	U

SURROGATE STANDARD	RECOVERY (%)	ACCEPTABLE (%)	SPIKE
1,2-dichloroethane-d4	84	62-139	50.0 ug/l
4-bromofluorobenzene	98	75-125	50.0 ug/l
dibromofluoromethane	92	75-125	50.0 ug/l
toluene-d8	99	75-125	50.0 ug/l

RL - Reporting Limit
MDL - Method Detection Limit
B - Blank Contamination
J - Estimated Value
U - Below MDL

Comments: 1) Sample results are reported as rounded values. Percent recoveries are calculated using raw values and are reported rounded to zero decimal places.

SIMALABS
INTERNATIONAL

SAMPLE RESULTS

Customer: FOSTER WHEELER ENVIRONMENTAL CORPORATION
Source: NWS EARLE
Analysis: **TPH Diesel by GC**
Method: EPA 8015B
Prep Method: EPA 8015B
Lab Notebook No: 1296 P.28
Initial Cal ID 2DZ0301

Cust. Proj. No.: MOA NO. 032876
Login No.: L4308
Date Received: 29-MAR-02
Date Analyzed: 29-MAR-02
Prep Date: 29-MAR-02
Preparation Batch: WG9501
Instrument Batch: WG9500

LAB I.D.	CUSTOMER SAMPLE NO. & LOCATION	MATRIX	TPH	MDL (mg/l)	RL (mg/l)	DILUTION	VALUE / FLAG (mg/l)		Surrogate Recovery (%)
L4308-1	16A(EW)02-42 NWS EARLE	Misc. H2O	NonVolatile (Diesel range)	0.068	0.20	1	0.81		N-Nonacosane 74
L4308-2	16A(EW)02-41 NWS EARLE	Misc. H2O	NonVolatile (Diesel range)	0.071	5.4	25	101	D	N-Nonacosane 81
L4308-3	16B(EW)02-13 NWS EARLE	Misc. H2O	NonVolatile (Diesel range)	0.068	5.1	25	98.1	D	N-Nonacosane 76
L4308-4	16B(EW)02-14 NWS EARLE	Misc. H2O	NonVolatile (Diesel range)	0.070	0.21	1	0.24		N-Nonacosane 81

RL - Reporting Limit
MDL - Method Detection Limit
D - Diluted

Comments: 1) Surrogate Percent Recovery Limits: N-Nonacosane 64-140

SIMALABS

INTERNATIONAL

SAMPLE NUMBER

16A(EW)02-42

Customer: FOSTER WHEELER ENVIRONMENTAL CORPORATION

Project. No.: MOA NO. 032876

Source: NWS EARLE

Location: NWS EARLE

Analysis: **EPA Method 8260B Volatiles by GC/MS**

Preparation Batch:	**WG9505**	Instrument Batch:	**WG9506**
Matrix:	Misc. H2O	Lab Sample ID.:	**L4308-1**
Lab Notebook No:	1308, P.31&32	Date Sampled:	28-MAR-02
Initial Cal. ID.:	3VREG35S	Date Received:	29-MAR-02
Final Volume:	5.0 ml	Date Extracted:	01-APR-02
Initial Volume:	5.0 ml	Date Analyzed:	01-APR-02
Prep. Method:	EPA 5030B		
pH:	2 su		

SAMPLE RESULTS

	CAS NO.	COMPOUND	MDL (ug/l)	R L (ug/l)	RESULTS (ug/l)	DILUTION	FLAG
1.	630-20-6	1,1,1,2-tetrachloroethane	0.30	2.0	---	1	U
2.	71-55-6	1,1,1-trichloroethane	0.34	2.0	---	1	U
3.	79-34-5	1,1,2,2-tetrachloroethane	0.20	2.0	---	1	U
4.	79-00-5	1,1,2-trichloroethane	0.19	2.0	---	1	U
5.	75-34-3	1,1-dichloroethane	0.21	2.0	---	1	U
6.	75-35-4	1,1-dichloroethene	0.45	2.0	---	1	U
7.	563-58-6	1,1-dichloropropene	0.32	2.0	---	1	U
8.	87-61-6	1,2,3-trichlorobenzene	0.59	2.0	---	1	U
9.	96-18-4	1,2,3-trichloropropane	0.48	2.0	---	1	U
10.	120-82-1	1,2,4-trichlorobenzene	0.65	2.0	---	1	U
11.	95-63-6	1,2,4-trimethylbenzene	0.21	2.0	36.1	1	
12.	96-12-8	1,2-dibromo-3-chloropropane	0.67	2.0	---	1	U
13.	106-93-4	1,2-dibromoethane	0.37	2.0	---	1	U
14.	95-50-1	1,2-dichlorobenzene	0.28	2.0	---	1	U
15.	107-06-2	1,2-dichloroethane	0.31	2.0	---	1	U
16.	78-87-5	1,2-dichloropropane	0.20	2.0	---	1	U
17.	108-67-8	1,3,5-trimethylbenzene	0.36	2.0	9.0	1	
18.	541-73-1	1,3-dichlorobenzene	0.33	2.0	---	1	U
19.	142-28-9	1,3-dichloropropane	0.31	2.0	---	1	U
20.	106-46-7	1,4-dichlorobenzene	0.35	2.0	---	1	U
21.	594-20-7	2,2-dichloropropane	0.48	2.0	---	1	U
22.	78-93-3	2-Butanone	4.4	20.0	---	1	U
23.	591-78-6	2-Hexanone	0.45	10.0	---	1	U
24.	95-49-8	2-chlorotoluene	0.34	2.0	---	1	U
25.	108-10-1	4-Methyl-2-pentanone	0.43	20.0	---	1	U

Comments: 1) Sample results are reported as rounded values. Percent recoveries are calculated using raw values and are reported rounded to zero decimal places.

SIMALABS
INTERNATIONAL

SAMPLE NUMBER
16A(EW)02-42

Customer: FOSTER WHEELER ENVIRONMENTAL CORPORATION
Project. No.: MOA NO. 032876
Source: NWS EARLE
Location: NWS EARLE
Analysis: **EPA Method 8260B Volatiles by GC/MS**

Preparation Batch:	**WG9505**	Instrument Batch:	**WG9506**
Matrix:	Misc. H2O	Lab Sample ID.:	**L4308-1**
Lab Notebook No:	1308, P.31&32	Date Sampled:	28-MAR-02
Initial Cal. ID.:	3VREG35S	Date Received:	29-MAR-02
Final Volume:	5.0 ml	Date Extracted:	01-APR-02
Initial Volume:	5.0 ml	Date Analyzed:	01-APR-02
Prep. Method:	EPA 5030B		
pH:	2 su		

SAMPLE RESULTS

	CAS NO.	COMPOUND	MDL (ug/l)	R L (ug/l)	RESULTS (ug/l)	DILUTION	FLAG
26.	106-43-4	4-chlorotoluene	0.32	2.0	---	1	U
27.	99-87-6	4-isopropyltoluene	0.33	2.0	1.0	1	J
28.	67-64-1	Acetone	12.0	400	2410	10	D
29.	75-15-0	Carbon Disulfide	0.29	2.0	---	1	U
30.	1634-04-4	MTBE	0.33	2.0	26.3	1	
31.	71-43-2	benzene	0.20	2.0	56.0	1	
32.	108-86-1	bromobenzene	0.27	2.0	---	1	U
33.	74-97-5	bromochloromethane	0.33	2.0	---	1	U
34.	75-27-4	bromodichloromethane	0.34	2.0	---	1	U
35.	75-25-2	bromoform	0.27	2.0	---	1	U
36.	74-83-9	bromomethane	0.75	3.0	---	1	U
37.	56-23-5	carbon tetrachloride	0.30	2.0	---	1	U
38.	108-90-7	chlorobenzene	0.22	2.0	---	1	U
39.	75-00-3	chloroethane	0.30	2.0	---	1	U
40.	67-66-3	chloroform	0.44	2.0	---	1	U
41.	74-87-3	chloromethane	0.44	2.0	---	1	U
42.	156-59-2	cis-1,2-dichloroethene	0.29	2.0	---	1	U
43.	10061-01-5	cis-1,3-dichloropropene	0.41	2.0	---	1	U
44.	124-48-1	dibromochloromethane	0.23	2.0	---	1	U
45.	74-95-3	dibromomethane	0.25	2.0	---	1	U
46.	75-71-8	dichlorodifluoromethane	0.26	2.0	---	1	U
47.	100-41-4	ethylbenzene	0.28	2.0	5.2	1	
48.	87-68-3	hexachlorobutadiene	0.58	2.0	---	1	U
49.	98-82-8	isopropylbenzene	0.41	2.0	2.3	1	
50.	106-42-3	m,p-xylene	0.63	4.0	22.9	1	

Comments: 1) Sample results are reported as rounded values. Percent recoveries are calculated using raw values and are reported rounded to zero decimal places.

SIMALABS
INTERNATIONAL

SAMPLE NUMBER
16A(EW)02-42

Customer: FOSTER WHEELER ENVIRONMENTAL CORPORATION
Project. No.: MOA NO. 032876
Source: NWS EARLE
Location: NWS EARLE
Analysis: **EPA Method 8260B Volatiles by GC/MS**

Preparation Batch: **WG9505**
Matrix: Misc. H2O
Lab Notebook No: 1308, P.31&32
Initial Cal. ID.: 3VREG35S
Final Volume: 5.0 ml
Initial Volume: 5.0 ml
Prep. Method: EPA 5030B
pH: 2 su

Instrument Batch: **WG9506**
Lab Sample ID.: **L4308-1**
Date Sampled: 28-MAR-02
Date Received: 29-MAR-02
Date Extracted: 01-APR-02
Date Analyzed: 01-APR-02

SAMPLE RESULTS

	CAS NO.	COMPOUND	MDL (ug/l)	R L (ug/l)	RESULTS (ug/l)	DILUTION	FLAG
51.	75-09-2	methylene chloride	0.60	2.0	---	1	U
52.	104-51-8	n-butylbenzene	0.40	2.0	---	1	U
53.	103-65-1	n-propylbenzene	0.35	2.0	1.0	1	J
54.	91-20-3	naphthalene	0.34	2.0	6.4	1	B
55.	95-47-6	o-xylene	0.31	2.0	36.8	1	
56.	135-98-8	sec-butylbenzene	0.38	2.0	0.82	1	J
57.	100-42-5	styrene	0.43	2.0	---	1	U
58.	98-06-6	tert-butylbenzene	0.40	2.0	---	1	U
59.	127-18-4	tetrachloroethene	0.33	2.0	---	1	U
60.	108-88-3	toluene	0.31	2.0	2.1	1	
61.	156-60-5	trans-1,2-dichloroethene	0.34	2.0	---	1	U
62.	10061-02-6	trans-1,3-dichloropropene	0.34	2.0	---	1	U
63.	79-01-6	trichloroethene	0.30	2.0	---	1	U
64.	75-69-4	trichlorofluoromethane	0.22	2.0	---	1	U
65.	75-01-4	vinyl chloride	0.49	2.0	---	1	U

SURROGATE STANDARD	RECOVERY (%)	ACCEPTABLE (%)	SPIKE
1,2-dichloroethane-d4	85	62-139	50.0 ug/l
4-bromofluorobenzene	87	75-125	50.0 ug/l
dibromofluoromethane	89	75-125	50.0 ug/l
toluene-d8	90	75-125	50.0 ug/l

RL - Reporting Limit
MDL - Method Detection Limit
B - Blank Contamination
D - Diluted
J - Estimated Value
U - Below MDL

Comments: 1) Sample results are reported as rounded values. Percent recoveries are calculated using raw values and are reported rounded to zero decimal places.

SIMALABS

INTERNATIONAL

SAMPLE NUMBER

16A(EW)02-42

Customer: FOSTER WHEELER ENVIRONMENTAL CORPORATION

Project. No.: MOA NO. 032876

Source: NWS EARLE

Location: NWS EARLE

Analysis: **EPA Method 8260B Volatiles by GC/MS**

Preparation Batch:	**WG9505**	Instrument Batch:	**WG9506**
Matrix:	Misc. H2O	Lab Sample I.D.:	**L4308-1**
Lab Notebook No:	1308, P.31&32	Date Sampled:	28-MAR-02
Initial Cal I.D.:	3VREG35S	Date Received:	29-MAR-02
Final Volume:	5.0 ml	Date Extracted:	01-APR-02
Initial Volume:	5.0 ml	Date Analyzed:	01-APR-02
Prep. Method:	EPA 5030B		
pH:	2 su		

TENTATIVELY IDENTIFIED COMPOUNDS

	CAS NO.	COMPOUND	RETENTION TIME (MIN)	EST. CONC (ug/l)
1.	67-63-0	Isopropyl Alcohol	5.12	10.7
2.	620-14-4	Benzene, 1-ethyl-3-methyl-	17.40	30.7
3.	611-14-3	Benzene, 1-ethyl-2-methyl-	17.92	23.8
4.	526-73-8	Benzene, 1,2,3-trimethyl-	18.99	51.2
5.	496-11-7	Indane	19.34	26.8
6.	767-58-8	Indan, 1-methyl-	20.41	11.2
7.	2039-89-6	Benzene, 2-ethenyl-1,4-dimethyl-	21.81	17.6
8.	119-64-2	Naphthalene, 1,2,3,4-tetrahydro-	22.11	12.1

Comments: These compounds are not part of the target list. They were tentatively identified in the sample chromatogram. The concentrations are estimated.

SIMALABS
INTERNATIONAL

SAMPLE NUMBER
16A(EW)02-41

Customer: FOSTER WHEELER ENVIRONMENTAL CORPORATION
Project. No.: MOA NO. 032876
Source: NWS EARLE
Location: NWS EARLE
Analysis: **EPA Method 8260B Volatiles by GC/MS**

Preparation Batch: **WG9505**
Matrix: Misc. H2O
Lab Notebook No: 1308, P.31&32
Initial Cal. ID.: 3VREG35S
Final Volume: 5.0 ml
Initial Volume: 5.0 ml
Prep. Method: EPA 5030B
pH: 2 su

Instrument Batch: **WG9506**
Lab Sample ID.: **L4308-2**
Date Sampled: 28-MAR-02
Date Received: 29-MAR-02
Date Extracted: 01-APR-02
Date Analyzed: 01-APR-02

SAMPLE RESULTS

	CAS NO.	COMPOUND	MDL (ug/l)	R L (ug/l)	RESULTS (ug/l)	DILUTION	FLAG
1.	630-20-6	1,1,1,2-tetrachloroethane	0.30	2.0	---	1	U
2.	71-55-6	1,1,1-trichloroethane	0.34	2.0	---	1	U
3.	79-34-5	1,1,2,2-tetrachloroethane	0.20	2.0	---	1	U
4.	79-00-5	1,1,2-trichloroethane	0.19	2.0	---	1	U
5.	75-34-3	1,1-dichloroethane	0.21	2.0	---	1	U
6.	75-35-4	1,1-dichloroethene	0.45	2.0	---	1	U
7.	563-58-6	1,1-dichloropropene	0.32	2.0	---	1	U
8.	87-61-6	1,2,3-trichlorobenzene	0.59	2.0	---	1	U
9.	96-18-4	1,2,3-trichloropropane	0.48	2.0	---	1	U
10.	120-82-1	1,2,4-trichlorobenzene	0.65	2.0	---	1	U
11.	95-63-6	1,2,4-trimethylbenzene	0.21	10.0	254	5	D
12.	96-12-8	1,2-dibromo-3-chloropropane	0.67	2.0	---	1	U
13.	106-93-4	1,2-dibromoethane	0.37	2.0	---	1	U
14.	95-50-1	1,2-dichlorobenzene	0.28	2.0	---	1	U
15.	107-06-2	1,2-dichloroethane	0.31	2.0	---	1	U
16.	78-87-5	1,2-dichloropropane	0.20	2.0	---	1	U
17.	108-67-8	1,3,5-trimethylbenzene	0.36	2.0	107	1	
18.	541-73-1	1,3-dichlorobenzene	0.33	2.0	---	1	U
19.	142-28-9	1,3-dichloropropane	0.31	2.0	---	1	U
20.	106-46-7	1,4-dichlorobenzene	0.35	2.0	---	1	U
21.	594-20-7	2,2-dichloropropane	0.48	2.0	---	1	U
22.	78-93-3	2-Butanone	4.4	20.0	---	1	U
23.	591-78-6	2-Hexanone	0.45	10.0	---	1	U
24.	95-49-8	2-chlorotoluene	0.34	2.0	---	1	U
25.	108-10-1	4-Methyl-2-pentanone	0.43	20.0	---	1	U

Comments: 1) Sample results are reported as rounded values. Percent recoveries are calculated using raw values and are reported rounded to zero decimal places.

SIMALABS

INTERNATIONAL

SAMPLE NUMBER

16A(EW)02-41

Customer: FOSTER WHEELER ENVIRONMENTAL CORPORATION

Project. No.: MOA NO. 032876

Source: NWS EARLE

Location: NWS EARLE

Analysis: **EPA Method 8260B Volatiles by GC/MS**

Preparation Batch:	**WG9505**	Instrument Batch:	**WG9506**
Matrix:	Misc. H2O	Lab Sample ID.:	**L4308-2**
Lab Notebook No:	1308, P.31&32	Date Sampled:	28-MAR-02
Initial Cal. ID.:	3VREG35S	Date Received:	29-MAR-02
Final Volume:	5.0 ml	Date Extracted:	01-APR-02
Initial Volume:	5.0 ml	Date Analyzed:	01-APR-02
Prep. Method:	EPA 5030B		
pH:	2 su		

SAMPLE RESULTS

	CAS NO.	COMPOUND	MDL (ug/l)	R L (ug/l)	RESULTS (ug/l)	DILUTION	FLAG
26.	106-43-4	4-chlorotoluene	0.32	2.0	---	1	U
27.	99-87-6	4-isopropyltoluene	0.33	2.0	29.9	1	
28.	67-64-1	Acetone	12.0	40.0	---	1	U
29.	75-15-0	Carbon Disulfide	0.29	2.0	---	1	U
30.	1634-04-4	MTBE	0.33	2.0	24.6	1	
31.	71-43-2	benzene	0.20	2.0	61.5	1	
32.	108-86-1	bromobenzene	0.27	2.0	---	1	U
33.	74-97-5	bromochloromethane	0.33	2.0	---	1	U
34.	75-27-4	bromodichloromethane	0.34	2.0	---	1	U
35.	75-25-2	bromoform	0.27	2.0	---	1	U
36.	74-83-9	bromomethane	0.75	3.0	---	1	U
37.	56-23-5	carbon tetrachloride	0.30	2.0	---	1	U
38.	108-90-7	chlorobenzene	0.22	2.0	---	1	U
39.	75-00-3	chloroethane	0.30	2.0	---	1	U
40.	67-66-3	chloroform	0.44	2.0	---	1	U
41.	74-87-3	chloromethane	0.44	2.0	---	1	U
42.	156-59-2	cis-1,2-dichloroethene	0.29	2.0	---	1	U
43.	10061-01-5	cis-1,3-dichloropropene	0.41	2.0	---	1	U
44.	124-48-1	dibromochloromethane	0.23	2.0	---	1	U
45.	74-95-3	dibromomethane	0.25	2.0	---	1	U
46.	75-71-8	dichlorodifluoromethane	0.26	2.0	---	1	U
47.	100-41-4	ethylbenzene	0.28	2.0	25.3	1	
48.	87-68-3	hexachlorobutadiene	0.58	2.0	---	1	U
49.	98-82-8	isopropylbenzene	0.41	2.0	11.8	1	
50.	106-42-3	m,p-xylene	0.63	4.0	163	1	

Comments: 1) Sample results are reported as rounded values. Percent recoveries are calculated using raw values and are reported rounded to zero decimal places.

SIMALABS

INTERNATIONAL

SAMPLE NUMBER

16A(EW)02-41

Customer: FOSTER WHEELER ENVIRONMENTAL CORPORATION

Project. No.: MOA NO. 032876

Source: NWS EARLE

Location: NWS EARLE

Analysis: **EPA Method 8260B Volatiles by GC/MS**

Preparation Batch:	**WG9505**	Instrument Batch:	**WG9506**
Matrix:	Misc. H2O	Lab Sample ID.:	**L4308-2**
Lab Notebook No:	1308, P.31&32	Date Sampled:	28-MAR-02
Initial Cal. ID.:	3VREG35S	Date Received:	29-MAR-02
Final Volume:	5.0 ml	Date Extracted:	01-APR-02
Initial Volume:	5.0 ml	Date Analyzed:	01-APR-02
Prep. Method:	EPA 5030B		
pH:	2 su		

SAMPLE RESULTS

	CAS NO.	COMPOUND	MDL (ug/l)	R L (ug/l)	RESULTS (ug/l)	DILUTION	FLAG
51.	75-09-2	methylene chloride	0.60	2.0	---	1	U
52.	104-51-8	n-butylbenzene	0.40	2.0	---	1	U
53.	103-65-1	n-propylbenzene	0.35	2.0	18.6	1	
54.	91-20-3	naphthalene	0.34	10.0	528	5	D,B
55.	95-47-6	o-xylene	0.31	2.0	72.7	1	
56.	135-98-8	sec-butylbenzene	0.38	2.0	25.8	1	
57.	100-42-5	styrene	0.43	2.0	2.2	1	
58.	98-06-6	tert-butylbenzene	0.40	2.0	2.3	1	
59.	127-18-4	tetrachloroethene	0.33	2.0	---	1	U
60.	108-88-3	toluene	0.31	2.0	10.5	1	
61.	156-60-5	trans-1,2-dichloroethene	0.34	2.0	---	1	U
62.	10061-02-6	trans-1,3-dichloropropene	0.34	2.0	---	1	U
63.	79-01-6	trichloroethene	0.30	2.0	---	1	U
64.	75-69-4	trichlorofluoromethane	0.22	2.0	---	1	U
65.	75-01-4	vinyl chloride	0.49	2.0	---	1	U

SURROGATE STANDARD	RECOVERY (%)	ACCEPTABLE (%)	SPIKE
1,2-dichloroethane-d4	87	62-139	50.0 ug/l
4-bromofluorobenzene	92	75-125	50.0 ug/l
dibromofluoromethane	88	75-125	50.0 ug/l
toluene-d8	94	75-125	50.0 ug/l

RL - Reporting Limit

MDL - Method Detection Limit

B - Blank Contamination

D - Diluted

U - Below MDL

Comments: 1) Sample results are reported as rounded values. Percent recoveries are calculated using raw values and are reported rounded to zero decimal places.

SIMALABS

INTERNATIONAL

SAMPLE NUMBER

16A(EW)02-41

Customer: FOSTER WHEELER ENVIRONMENTAL CORPORATION

Project. No.: MOA NO. 032876

Source: NWS EARLE

Location: NWS EARLE

Analysis: **EPA Method 8260B Volatiles by GC/MS**

Preparation Batch:	**WG9505**	Instrument Batch:	**WG9506**
Matrix:	Misc. H2O	Lab Sample I.D.:	**L4308-2**
Lab Notebook No:	1308, P.31&32	Date Sampled:	28-MAR-02
Initial Cal I.D.:	3VREG35S	Date Received:	29-MAR-02
Final Volume:	5.0 ml	Date Extracted:	01-APR-02
Initial Volume:	5.0 ml	Date Analyzed:	01-APR-02
Prep. Method:	EPA 5030B		
pH:	2 su		

TENTATIVELY IDENTIFIED COMPOUNDS

	CAS NO.	COMPOUND	RETENTION TIME (MIN)	EST. CONC (ug/l)
1.	620-14-4	Benzene, 1-ethyl-3-methyl-	17.40	183
2.	124-18-5	Decane	17.62	212
3.	526-73-8	Benzene, 1,2,3-trimethyl-	18.99	185
4.	934-80-5	Benzene, 4-ethyl-1,2-dimethyl-	19.53	272
5.	1120-21-4	Undecane	19.81	323
6.	527-53-7	Benzene, 1,2,3,5-tetramethyl-	21.05	222
7.	112-40-3	Dodecane	21.83	490
8.	119-64-2	Naphthalene, 1,2,3,4-tetrahydro-	22.11	308
9.	629-50-5	Tridecane	23.21	179
10.	91-57-6	Naphthalene, 2-methyl-	23.90	294

Comments: These compounds are not part of the target list. They were tentatively identified in the sample chromatogram. The concentrations are estimated.

SIMALABS

INTERNATIONAL

SAMPLE NUMBER

16B(EW)02-13

Customer: FOSTER WHEELER ENVIRONMENTAL CORPORATION

Project. No.: MOA NO. 032876

Source: NWS EARLE

Location: NWS EARLE

Analysis: **EPA Method 8260B Volatiles by GC/MS**

Preparation Batch:	**WG9505**	Instrument Batch:	**WG9506**
Matrix:	Misc. H2O	Lab Sample ID.:	**L4308-3**
Lab Notebook No:	1308, P.31&32	Date Sampled:	28-MAR-02
Initial Cal. ID.:	3VREG35S	Date Received:	29-MAR-02
Final Volume:	5.0 ml	Date Extracted:	01-APR-02
Initial Volume:	5.0 ml	Date Analyzed:	01-APR-02
Prep. Method:	EPA 5030B		
pH:	2 su		

SAMPLE RESULTS

	CAS NO.	COMPOUND	MDL (ug/l)	R L (ug/l)	RESULTS (ug/l)	DILUTION	FLAG
1.	630-20-6	1,1,1,2-tetrachloroethane	0.30	2.0	---	1	U
2.	71-55-6	1,1,1-trichloroethane	0.34	2.0	---	1	U
3.	79-34-5	1,1,2,2-tetrachloroethane	0.20	2.0	---	1	U
4.	79-00-5	1,1,2-trichloroethane	0.19	2.0	---	1	U
5.	75-34-3	1,1-dichloroethane	0.21	2.0	---	1	U
6.	75-35-4	1,1-dichloroethene	0.45	2.0	---	1	U
7.	563-58-6	1,1-dichloropropene	0.32	2.0	---	1	U
8.	87-61-6	1,2,3-trichlorobenzene	0.59	2.0	---	1	U
9.	96-18-4	1,2,3-trichloropropane	0.48	2.0	---	1	U
10.	120-82-1	1,2,4-trichlorobenzene	0.65	2.0	---	1	U
11.	95-63-6	1,2,4-trimethylbenzene	0.21	2.0	128	1	
12.	96-12-8	1,2-dibromo-3-chloropropane	0.67	2.0	---	1	U
13.	106-93-4	1,2-dibromoethane	0.37	2.0	---	1	U
14.	95-50-1	1,2-dichlorobenzene	0.28	2.0	---	1	U
15.	107-06-2	1,2-dichloroethane	0.31	2.0	---	1	U
16.	78-87-5	1,2-dichloropropane	0.20	2.0	---	1	U
17.	108-67-8	1,3,5-trimethylbenzene	0.36	2.0	23.7	1	
18.	541-73-1	1,3-dichlorobenzene	0.33	2.0	---	1	U
19.	142-28-9	1,3-dichloropropane	0.31	2.0	---	1	U
20.	106-46-7	1,4-dichlorobenzene	0.35	2.0	---	1	U
21.	594-20-7	2,2-dichloropropane	0.48	2.0	---	1	U
22.	78-93-3	2-Butanone	4.4	20.0	---	1	U
23.	591-78-6	2-Hexanone	0.45	10.0	---	1	U
24.	95-49-8	2-chlorotoluene	0.34	2.0	---	1	U
25.	108-10-1	4-Methyl-2-pentanone	0.43	20.0	---	1	U

Comments: 1) Sample results are reported as rounded values. Percent recoveries are calculated using raw values and are reported rounded to zero decimal places.

SIMALABS

INTERNATIONAL

SAMPLE NUMBER

16B(EW)02-13

Customer: FOSTER WHEELER ENVIRONMENTAL CORPORATION

Project. No.: MOA NO. 032876

Source: NWS EARLE

Location: NWS EARLE

Analysis: **EPA Method 8260B Volatiles by GC/MS**

Preparation Batch:	**WG9505**	Instrument Batch:	**WG9506**
Matrix:	Misc. H2O	Lab Sample ID.:	**L4308-3**
Lab Notebook No:	1308, P.31&32	Date Sampled:	28-MAR-02
Initial Cal. ID.:	3VREG35S	Date Received:	29-MAR-02
Final Volume:	5.0 ml	Date Extracted:	01-APR-02
Initial Volume:	5.0 ml	Date Analyzed:	01-APR-02
Prep. Method:	EPA 5030B		
pH:	2 su		

SAMPLE RESULTS

	CAS NO.	COMPOUND	MDL (ug/l)	R L (ug/l)	RESULTS (ug/l)	DILUTION	FLAG
26.	106-43-4	4-chlorotoluene	0.32	2.0	---	1	U
27.	99-87-6	4-isopropyltoluene	0.33	2.0	9.4	1	
28.	67-64-1	Acetone	12.0	40.0	---	1	U
29.	75-15-0	Carbon Disulfide	0.29	2.0	---	1	U
30.	1634-04-4	MTBE	0.33	2.0	0.72	1	J
31.	71-43-2	benzene	0.20	2.0	2.2	1	
32.	108-86-1	bromobenzene	0.27	2.0	---	1	U
33.	74-97-5	bromochloromethane	0.33	2.0	---	1	U
34.	75-27-4	bromodichloromethane	0.34	2.0	---	1	U
35.	75-25-2	bromoform	0.27	2.0	---	1	U
36.	74-83-9	bromomethane	0.75	3.0	---	1	U
37.	56-23-5	carbon tetrachloride	0.30	2.0	---	1	U
38.	108-90-7	chlorobenzene	0.22	2.0	---	1	U
39.	75-00-3	chloroethane	0.30	2.0	---	1	U
40.	67-66-3	chloroform	0.44	2.0	---	1	U
41.	74-87-3	chloromethane	0.44	2.0	---	1	U
42.	156-59-2	cis-1,2-dichloroethene	0.29	2.0	---	1	U
43.	10061-01-5	cis-1,3-dichloropropene	0.41	2.0	---	1	U
44.	124-48-1	dibromochloromethane	0.23	2.0	---	1	U
45.	74-95-3	dibromomethane	0.25	2.0	---	1	U
46.	75-71-8	dichlorodifluoromethane	0.26	2.0	---	1	U
47.	100-41-4	ethylbenzene	0.28	2.0	17.5	1	
48.	87-68-3	hexachlorobutadiene	0.58	2.0	---	1	U
49.	98-82-8	isopropylbenzene	0.41	2.0	6.9	1	
50.	106-42-3	m,p-xylene	0.63	4.0	38.3	1	

Comments: 1) Sample results are reported as rounded values. Percent recoveries are calculated using raw values and are reported rounded to zero decimal places.

SIMALABS

INTERNATIONAL

SAMPLE NUMBER

16B(EW)02-13

Customer: FOSTER WHEELER ENVIRONMENTAL CORPORATION

Project. No.: MOA NO. 032876

Source: NWS EARLE

Location: NWS EARLE

Analysis: **EPA Method 8260B Volatiles by GC/MS**

Preparation Batch:	**WG9505**	Instrument Batch:	**WG9506**
Matrix:	Misc. H2O	Lab Sample ID.:	**L4308-3**
Lab Notebook No:	1308, P.31&32	Date Sampled:	28-MAR-02
Initial Cal. ID.:	3VREG35S	Date Received:	29-MAR-02
Final Volume:	5.0 ml	Date Extracted:	01-APR-02
Initial Volume:	5.0 ml	Date Analyzed:	01-APR-02
Prep. Method:	EPA 5030B		
pH:	2 su		

SAMPLE RESULTS

	CAS NO.	COMPOUND	MDL (ug/l)	R L (ug/l)	RESULTS (ug/l)	DILUTION	FLAG
51.	75-09-2	methylene chloride	0.60	2.0	---	1	U
52.	104-51-8	n-butylbenzene	0.40	2.0	---	1	U
53.	103-65-1	n-propylbenzene	0.35	2.0	10.4	1	
54.	91-20-3	naphthalene	0.34	4.0	247	2	D,B
55.	95-47-6	o-xylene	0.31	2.0	11.4	1	
56.	135-98-8	sec-butylbenzene	0.38	2.0	7.0	1	
57.	100-42-5	styrene	0.43	2.0	0.47	1	J
58.	98-06-6	tert-butylbenzene	0.40	2.0	0.94	1	J
59.	127-18-4	tetrachloroethene	0.33	2.0	---	1	U
60.	108-88-3	toluene	0.31	2.0	4.0	1	
61.	156-60-5	trans-1,2-dichloroethene	0.34	2.0	---	1	U
62.	10061-02-6	trans-1,3-dichloropropene	0.34	2.0	---	1	U
63.	79-01-6	trichloroethene	0.30	2.0	9.0	1	
64.	75-69-4	trichlorofluoromethane	0.22	2.0	---	1	U
65.	75-01-4	vinyl chloride	0.49	2.0	---	1	U

SURROGATE STANDARD	RECOVERY (%)	ACCEPTABLE (%)	SPIKE
1,2-dichloroethane-d4	87	62-139	50.0 ug/l
4-bromofluorobenzene	87	75-125	50.0 ug/l
dibromofluoromethane	89	75-125	50.0 ug/l
toluene-d8	91	75-125	50.0 ug/l

RL - Reporting Limit

MDL - Method Detection Limit

B - Blank Contamination

D - Diluted

J - Estimated Value

U - Below MDL

Comments: 1) Sample results are reported as rounded values. Percent recoveries are calculated using raw values and are reported rounded to zero decimal places.

SIMALABS

INTERNATIONAL

SAMPLE NUMBER

16B(EW)02-13

Customer: FOSTER WHEELER ENVIRONMENTAL CORPORATION

Project. No.: MOA NO. 032876

Source: NWS EARLE

Location: NWS EARLE

Analysis: **EPA Method 8260B Volatiles by GC/MS**

Preparation Batch:	**WG9505**	Instrument Batch:	**WG9506**
Matrix:	Misc. H2O	Lab Sample I.D.:	**L4308-3**
Lab Notebook No:	1308, P.31&32	Date Sampled:	28-MAR-02
Initial Cal I.D.:	3VREG35S	Date Received:	29-MAR-02
Final Volume:	5.0 ml	Date Extracted:	01-APR-02
Initial Volume:	5.0 ml	Date Analyzed:	01-APR-02
Prep. Method:	EPA 5030B		
pH:	2 su		

TENTATIVELY IDENTIFIED COMPOUNDS

	CAS NO.	COMPOUND	RETENTION TIME (MIN)	EST. CONC (ug/l)
1.	541-05-9	Cyclotrisiloxane, hexamethyl-	13.12	104
2.	135-01-3	Benzene, 1,2-diethyl-	19.52	104
3.	767-58-8	Indan, 1-methyl-	20.41	107
4.	-----	C13H20O2	20.65	96.6
5.	95-93-2	Benzene, 1,2,4,5-tetramethyl-	21.04	138
6.	934-10-1	3-Phenylbut-1-ene	21.81	213
7.	17301-23-4	Undecane, 2,6-dimethyl-	22.11	178
8.	1075-22-5	1H-Indene, 2,3-dihydro-5,6-dimethy	23.41	121
9.	91-57-6	Naphthalene, 2-methyl-	23.90	222
10.	90-12-0	Naphthalene, 1-methyl-	24.07	144

Comments: These compounds are not part of the target list. They were tentatively identified in the sample chromatogram. The concentrations are estimated.

SIMALABS

INTERNATIONAL

SAMPLE NUMBER

16B(EW)02-14

Customer: FOSTER WHEELER ENVIRONMENTAL CORPORATION

Project. No.: MOA NO. 032876

Source: NWS EARLE

Location: NWS EARLE

Analysis: **EPA Method 8260B Volatiles by GC/MS**

Preparation Batch:	**WG9505**	Instrument Batch:	**WG9506**
Matrix:	Misc. H2O	Lab Sample ID.:	**L4308-4**
Lab Notebook No:	1308, P.31&32	Date Sampled:	28-MAR-02
Initial Cal. ID.:	3VREG35S	Date Received:	29-MAR-02
Final Volume:	5.0 ml	Date Extracted:	01-APR-02
Initial Volume:	5.0 ml	Date Analyzed:	01-APR-02
Prep. Method:	EPA 5030B		
pH:	2 su		

SAMPLE RESULTS

	CAS NO.	COMPOUND	MDL (ug/l)	R L (ug/l)	RESULTS (ug/l)	DILUTION	FLAG
1.	630-20-6	1,1,1,2-tetrachloroethane	0.30	2.0	---	1	U
2.	71-55-6	1,1,1-trichloroethane	0.34	2.0	---	1	U
3.	79-34-5	1,1,2,2-tetrachloroethane	0.20	2.0	---	1	U
4.	79-00-5	1,1,2-trichloroethane	0.19	2.0	---	1	U
5.	75-34-3	1,1-dichloroethane	0.21	2.0	---	1	U
6.	75-35-4	1,1-dichloroethene	0.45	2.0	---	1	U
7.	563-58-6	1,1-dichloropropene	0.32	2.0	---	1	U
8.	87-61-6	1,2,3-trichlorobenzene	0.59	2.0	---	1	U
9.	96-18-4	1,2,3-trichloropropane	0.48	2.0	---	1	U
10.	120-82-1	1,2,4-trichlorobenzene	0.65	2.0	---	1	U
11.	95-63-6	1,2,4-trimethylbenzene	0.21	2.0	---	1	U
12.	96-12-8	1,2-dibromo-3-chloropropane	0.67	2.0	---	1	U
13.	106-93-4	1,2-dibromoethane	0.37	2.0	---	1	U
14.	95-50-1	1,2-dichlorobenzene	0.28	2.0	---	1	U
15.	107-06-2	1,2-dichloroethane	0.31	2.0	---	1	U
16.	78-87-5	1,2-dichloropropane	0.20	2.0	---	1	U
17.	108-67-8	1,3,5-trimethylbenzene	0.36	2.0	---	1	U
18.	541-73-1	1,3-dichlorobenzene	0.33	2.0	---	1	U
19.	142-28-9	1,3-dichloropropane	0.31	2.0	---	1	U
20.	106-46-7	1,4-dichlorobenzene	0.35	2.0	---	1	U
21.	594-20-7	2,2-dichloropropane	0.48	2.0	---	1	U
22.	78-93-3	2-Butanone	4.4	20.0	---	1	U
23.	591-78-6	2-Hexanone	0.45	10.0	---	1	U
24.	95-49-8	2-chlorotoluene	0.34	2.0	---	1	U
25.	108-10-1	4-Methyl-2-pentanone	0.43	20.0	---	1	U

Comments: 1) Sample results are reported as rounded values. Percent recoveries are calculated using raw values and are reported rounded to zero decimal places.

SIMALABS

INTERNATIONAL

SAMPLE NUMBER

16B(EW)02-14

Customer: FOSTER WHEELER ENVIRONMENTAL CORPORATION

Project. No.: MOA NO. 032876

Source: NWS EARLE

Location: NWS EARLE

Analysis: **EPA Method 8260B Volatiles by GC/MS**

Preparation Batch:	**WG9505**	Instrument Batch:	**WG9506**
Matrix:	Misc. H2O	Lab Sample ID.:	**L4308-4**
Lab Notebook No:	1308, P.31&32	Date Sampled:	28-MAR-02
Initial Cal. ID.:	3VREG35S	Date Received:	29-MAR-02
Final Volume:	5.0 ml	Date Extracted:	01-APR-02
Initial Volume:	5.0 ml	Date Analyzed:	01-APR-02
Prep. Method:	EPA 5030B		
pH:	2 su		

SAMPLE RESULTS

	CAS NO.	COMPOUND	MDL (ug/l)	R L (ug/l)	RESULTS (ug/l)	DILUTION	FLAG
26.	106-43-4	4-chlorotoluene	0.32	2.0	---	1	U
27.	99-87-6	4-isopropyltoluene	0.33	2.0	---	1	U
28.	67-64-1	Acetone	12.0	40.0	---	1	U
29.	75-15-0	Carbon Disulfide	0.29	2.0	---	1	U
30.	1634-04-4	MTBE	0.33	2.0	---	1	U
31.	71-43-2	benzene	0.20	2.0	---	1	U
32.	108-86-1	bromobenzene	0.27	2.0	---	1	U
33.	74-97-5	bromochloromethane	0.33	2.0	---	1	U
34.	75-27-4	bromodichloromethane	0.34	2.0	---	1	U
35.	75-25-2	bromoform	0.27	2.0	---	1	U
36.	74-83-9	bromomethane	0.75	3.0	---	1	U
37.	56-23-5	carbon tetrachloride	0.30	2.0	---	1	U
38.	108-90-7	chlorobenzene	0.22	2.0	---	1	U
39.	75-00-3	chloroethane	0.30	2.0	---	1	U
40.	67-66-3	chloroform	0.44	2.0	---	1	U
41.	74-87-3	chloromethane	0.44	2.0	---	1	U
42.	156-59-2	cis-1,2-dichloroethene	0.29	2.0	---	1	U
43.	10061-01-5	cis-1,3-dichloropropene	0.41	2.0	---	1	U
44.	124-48-1	dibromochloromethane	0.23	2.0	---	1	U
45.	74-95-3	dibromomethane	0.25	2.0	---	1	U
46.	75-71-8	dichlorodifluoromethane	0.26	2.0	---	1	U
47.	100-41-4	ethylbenzene	0.28	2.0	---	1	U
48.	87-68-3	hexachlorobutadiene	0.58	2.0	---	1	U
49.	98-82-8	isopropylbenzene	0.41	2.0	---	1	U
50.	106-42-3	m,p-xylene	0.63	4.0	---	1	U

Comments: 1) Sample results are reported as rounded values. Percent recoveries are calculated using raw values and are reported rounded to zero decimal places.

SIMALABS

INTERNATIONAL

SAMPLE NUMBER

16B(EW)02-14

Customer: FOSTER WHEELER ENVIRONMENTAL CORPORATION

Project. No.: MOA NO. 032876

Source: NWS EARLE

Location: NWS EARLE

Analysis: **EPA Method 8260B Volatiles by GC/MS**

Preparation Batch:	**WG9505**	Instrument Batch:	**WG9506**
Matrix:	Misc. H2O	Lab Sample ID.:	**L4308-4**
Lab Notebook No:	1308, P.31&32	Date Sampled:	28-MAR-02
Initial Cal. ID.:	3VREG35S	Date Received:	29-MAR-02
Final Volume:	5.0 ml	Date Extracted:	01-APR-02
Initial Volume:	5.0 ml	Date Analyzed:	01-APR-02
Prep. Method:	EPA 5030B		
pH:	2 su		

SAMPLE RESULTS

	CAS NO.	COMPOUND	MDL (ug/l)	R L (ug/l)	RESULTS (ug/l)	DILUTION	FLAG
51.	75-09-2	methylene chloride	0.60	2.0	---	1	U
52.	104-51-8	n-butylbenzene	0.40	2.0	---	1	U
53.	103-65-1	n-propylbenzene	0.35	2.0	---	1	U
54.	91-20-3	naphthalene	0.34	2.0	---	1	U
55.	95-47-6	o-xylene	0.31	2.0	---	1	U
56.	135-98-8	sec-butylbenzene	0.38	2.0	---	1	U
57.	100-42-5	styrene	0.43	2.0	---	1	U
58.	98-06-6	tert-butylbenzene	0.40	2.0	---	1	U
59.	127-18-4	tetrachloroethene	0.33	2.0	---	1	U
60.	108-88-3	toluene	0.31	2.0	---	1	U
61.	156-60-5	trans-1,2-dichloroethene	0.34	2.0	---	1	U
62.	10061-02-6	trans-1,3-dichloropropene	0.34	2.0	---	1	U
63.	79-01-6	trichloroethene	0.30	2.0	---	1	U
64.	75-69-4	trichlorofluoromethane	0.22	2.0	---	1	U
65.	75-01-4	vinyl chloride	0.49	2.0	---	1	U

SURROGATE STANDARD	RECOVERY (%)	ACCEPTABLE (%)	SPIKE
1,2-dichloroethane-d4	87	62-139	50.0 ug/l
4-bromofluorobenzene	87	75-125	50.0 ug/l
dibromofluoromethane	90	75-125	50.0 ug/l
toluene-d8	91	75-125	50.0 ug/l

RL - Reporting Limit

MDL - Method Detection Limit

U - Below MDL

Comments: 1) Sample results are reported as rounded values. Percent recoveries are calculated using raw values and are reported rounded to zero decimal places.

SIMALABS

INTERNATIONAL

SAMPLE NUMBER

16B(EW)02-14

Customer: FOSTER WHEELER ENVIRONMENTAL CORPORATION

Project. No.: MOA NO. 032876

Source: NWS EARLE

Location: NWS EARLE

Analysis: **EPA Method 8260B Volatiles by GC/MS**

Preparation Batch:	**WG9505**	Instrument Batch:	**WG9506**
Matrix:	Misc. H2O	Lab Sample I.D.:	**L4308-4**
Lab Notebook No:	1308, P.31&32	Date Sampled:	28-MAR-02
Initial Cal I.D.:	3VREG35S	Date Received:	29-MAR-02
Final Volume:	5.0 ml	Date Extracted:	01-APR-02
Initial Volume:	5.0 ml	Date Analyzed:	01-APR-02
Prep. Method:	EPA 5030B		
pH:	2 su		

TENTATIVELY IDENTIFIED COMPOUNDS

	CAS NO.	COMPOUND	RETENTION TIME (MIN)	EST. CONC (ug/l)

Comments: These compounds are not part of the target list. They were tentatively identified in the sample chromatogram. The concentrations are estimated.

SIMALABS INTERNATIONAL

SAMPLE RESULTS

Customer: FOSTER WHEELER ENVIRONMENTAL CORPORATION
Source: NWS EARLE
Analysis: TPH Diesel by GC
Method: EPA 8015B
Prep Method: EPA 8015B
Lab Notebook No: 1296 P.36
Initial Cal ID: 2DZ0301

Cust. Proj. No.: MOA NO. 032876
Login No.: L4464
Date Received: 26-APR-02
Date Analyzed: 29-APR-02
Prep Date: 29-APR-02
Preparation Batch: WG10024
Instrument Batch: WG10028

LAB I.D.	CUSTOMER SAMPLE NO. & LOCATION	MATRIX	TPH	MDL (mg/l)	RL (mg/l)	DILUTION	VALUE / FLAG (mg/l)		Surrogate Recovery (%)
L4464-1	16 B BW(02)16 NWS EARLE	Waste H2O	NonVolatile (Diesel range)	0.068	0.20	1	0.19	J	N-Nonacosane 82 N-Triacontane 93
L4464-2	16(B)EW(02)15 NWS EARLE	Waste H2O	NonVolatile (Diesel range)	0.066	0.40	2	12.0	D	N-Nonacosane 80 N-Triacontane 91
L4464-3	16(A)BW(02)44 NWS EARLE	Waste H2O	NonVolatile (Diesel range)	0.068	0.20	1	0.96		N-Nonacosane 83 N-Triacontane 94
L4464-4	16(A)EW(02)43 NWS EARLE	Waste H2O	NonVolatile (Diesel range)	0.066	9.9	50	338	D	N-Nonacosane 80 N-Triacontane 90

RL - Reporting Limit
D - Diluted
MDL - Method Detection Limit
J - Estimated Value
U - Below MDL

Comments: 1) Surrogate Percent Recovery Limits: N-Nonacosane 64-140, N-Triacontane 40-140

SIMALABS

INTERNATIONAL

SAMPLE NUMBER

16 B EW(02)16

Project. No.: MOA NO. 032876

Customer: FOSTER WHEELER ENVIRONMENTAL CORPORATION

Source: NWS EARLE

Location: NWS EARLE

Analysis: EPA Method 8260B Volatiles by GC/MS

Preparation Batch: WG10004

Matrix: Waste H2O

Lab Notebook No: 1285,P.47

Initial Cal. ID.: 2VREG65S

Final Volume: 5.0 ml

Initial Volume: 5.0 ml

Prep. Method: EPA 5030B

pH: 2 su

Instrument Batch: WG10005

Lab Sample ID.: L4464-1

Date Sampled: 23-APR-02

Date Received: 26-APR-02

Date Extracted: 26-APR-02

Date Analyzed: 26-APR-02

SAMPLE RESULTS

	CAS NO.	COMPOUND	MDL (ug/l)	R L (ug/l)	RESULTS (ug/l)	DILUTION	FLAG
1.	630-20-6	1,1,1,2-tetrachloroethane	0.30	2.0	---	1	U
2.	71-55-6	1,1,1-trichloroethane	0.34	2.0	---	1	U
3.	79-34-5	1,1,2,2-tetrachloroethane	0.20	2.0	---	1	U
4.	79-00-5	1,1,2-trichloroethane	0.19	2.0	---	1	U
5.	75-34-3	1,1-dichloroethane	0.21	2.0	---	1	U
6.	75-35-4	1,1-dichloroethene	0.45	2.0	---	1	U
7.	563-58-6	1,1-dichloropropene	0.32	2.0	---	1	U
8.	87-61-6	1,2,3-trichlorobenzene	0.59	2.0	---	1	U
9.	96-18-4	1,2,3-trichloropropane	0.48	2.0	---	1	U
10.	120-82-1	1,2,4-trichlorobenzene	0.65	2.0	---	1	U
11.	95-63-6	1,2,4-trimethylbenzene	0.21	2.0	---	1	U
12.	96-12-8	1,2-dibromo-3-chloropropane	0.67	2.0	---	1	U
13.	106-93-4	1,2-dibromoethane	0.37	2.0	---	1	U
14.	95-50-1	1,2-dichlorobenzene	0.28	2.0	---	1	U
15.	107-06-2	1,2-dichloroethane	0.31	2.0	---	1	U
16.	78-87-5	1,2-dichloropropane	0.20	2.0	---	1	U
17.	108-67-8	1,3,5-trimethylbenzene	0.36	2.0	---	1	U
18.	541-73-1	1,3-dichlorobenzene	0.33	2.0	---	1	U
19.	142-28-9	1,3-dichloropropane	0.31	2.0	---	1	U
20.	106-46-7	1,4-dichlorobenzene	0.35	2.0	---	1	U
21.	594-20-7	2,2-dichloropropane	0.48	2.0	---	1	U
22.	78-93-3	2-Butanone	4.4	20.0	---	1	U
23.	591-78-6	2-Hexanone	0.45	10.0	---	1	U
24.	95-49-8	2-chlorotoluene	0.34	2.0	---	1	U
25.	108-10-1	4-Methyl-2-pentanone	0.43	20.0	---	1	U

Comments: 1) Sample results are reported as rounded values. Percent recoveries are calculated using raw values and are reported rounded to zero decimal places.

SIMALABS

INTERNATIONAL

SAMPLE NUMBER
16 B EW(02)16

Project. No.: MOA NO. 032876

Customer: FOSTER WHEELER ENVIRONMENTAL CORPORATION
Source: NWS EARLE
Location: NWS EARLE
Analysis: EPA Method 8260B Volatiles by GC/MS

Preparation Batch:	WG10004	Instrument Batch:	WG10005
Matrix:	Waste H2O	Lab Sample ID.:	L4464-1
Lab Notebook No:	1285,P.47	Date Sampled:	23-APR-02
Initial Cal. ID.:	2VREG65S	Date Received:	26-APR-02
Final Volume:	5.0 ml	Date Extracted:	26-APR-02
Initial Volume:	5.0 ml	Date Analyzed:	26-APR-02
Prep. Method:	EPA 5030B		
pH:	2 su		

SAMPLE RESULTS

	CAS NO.	COMPOUND	MDL (ug/l)	R L (ug/l)	RESULTS (ug/l)	DILUTION	FLAG
26.	106-43-4	4-chlorotoluene	0.32	2.0	---	1	U
27.	99-87-6	4-isopropyltoluene	0.33	2.0	---	1	U
28.	67-64-1	Acetone	12.0	40.0	---	1	U
29.	75-15-0	Carbon Disulfide	0.29	2.0	---	1	U
30.	1634-04-4	MTBE	0.33	2.0	---	1	U
31.	71-43-2	benzene	0.20	2.0	---	1	U
32.	108-86-1	bromobenzene	0.27	2.0	---	1	U
33.	74-97-5	bromochloromethane	0.33	2.0	---	1	U
34.	75-27-4	bromodichloromethane	0.34	2.0	0.51	1	J,B
35.	75-25-2	bromoform	0.27	2.0	0.47	1	J,B
36.	74-83-9	bromomethane	0.75	3.0	---	1	U
37.	56-23-5	carbon tetrachloride	0.30	2.0	---	1	U
38.	108-90-7	chlorobenzene	0.22	2.0	---	1	U
39.	75-00-3	chloroethane	0.30	2.0	---	1	U
40.	67-66-3	chloroform	0.44	2.0	---	1	U
41.	74-87-3	chloromethane	0.44	2.0	---	1	U
42.	156-59-2	cis-1,2-dichloroethene	0.29	2.0	---	1	U
43.	10061-01-5	cis-1,3-dichloropropene	0.41	2.0	---	1	U
44.	124-48-1	dibromochloromethane	0.23	2.0	0.84	1	J,B
45.	74-95-3	dibromomethane	0.25	2.0	---	1	U
46.	75-71-8	dichlorodifluoromethane	0.26	2.0	---	1	U
47.	100-41-4	ethylbenzene	0.28	2.0	---	1	U
48.	87-68-3	hexachlorobutadiene	0.58	2.0	---	1	U
49.	98-82-8	isopropylbenzene	0.41	2.0	---	1	U
50.	106-42-3	m,p-xylene	0.63	4.0	---	1	U

Comments: 1) Sample results are reported as rounded values. Percent recoveries are calculated using raw values and are reported rounded to zero decimal places.

SIMALABS

INTERNATIONAL

SAMPLE NUMBER
16 B EW(02)16

Project. No.: MOA NO. 032876

Customer: FOSTER WHEELER ENVIRONMENTAL CORPORATION
Source: NWS EARLE
Location: NWS EARLE
Analysis: EPA Method 8260B Volatiles by GC/MS

Preparation Batch:	WG10004	Instrument Batch:	WG10005
Matrix:	Waste H2O	Lab Sample ID.:	L4464-1
Lab Notebook No:	1285,P.47	Date Sampled:	23-APR-02
Initial Cal. ID.:	2VREG65S	Date Received:	26-APR-02
Final Volume:	5.0 ml	Date Extracted:	26-APR-02
Initial Volume:	5.0 ml	Date Analyzed:	26-APR-02
Prep. Method:	EPA 5030B		
pH:	2 su		

SAMPLE RESULTS

	CAS NO.	COMPOUND	MDL (ug/l)	R L (ug/l)	RESULTS (ug/l)	DILUTION	FLAG
51.	75-09-2	methylene chloride	0.60	2.0	---	1	U
52.	104-51-8	n-butylbenzene	0.40	2.0	---	1	U
53.	103-65-1	n-propylbenzene	0.35	2.0	---	1	U
54.	91-20-3	naphthalene	0.34	2.0	0.41	1	J,B
55.	95-47-6	o-xylene	0.31	2.0	---	1	U
56.	135-98-8	sec-butylbenzene	0.38	2.0	---	1	U
57.	100-42-5	styrene	0.43	2.0	---	1	U
58.	98-06-6	tert-butylbenzene	0.40	2.0	---	1	U
59.	127-18-4	tetrachloroethene	0.33	2.0	---	1	U
60.	108-88-3	toluene	0.31	2.0	---	1	U
61.	156-60-5	trans-1,2-dichloroethene	0.34	2.0	---	1	U
62.	10061-02-6	trans-1,3-dichloropropene	0.34	2.0	---	1	U
63.	79-01-6	trichloroethene	0.30	2.0	---	1	U
64.	75-69-4	trichlorofluoromethane	0.22	2.0	---	1	U
65.	75-01-4	vinyl chloride	0.49	2.0	---	1	U

SURROGATE STANDARD	RECOVERY (%)	ACCEPTABLE (%)	SPIKE
1,2-dichloroethane-d4	83	76-120	50.0 ug/l
4-bromofluorobenzene	101	79-120	50.0 ug/l
dibromofluoromethane	87	80-120	50.0 ug/l
toluene-d8	87	80-120	50.0 ug/l

RL - Reporting Limit
B - Blank Contamination
U - Below MDL
MDL - Method Detection Limit
J - Estimated Value

Comments: 1) Sample results are reported as rounded values. Percent recoveries are calculated using raw values and are reported rounded to zero decimal places.

SIMALABS

INTERNATIONAL

SAMPLE NUMBER

16 B EW(02)16

Project. No.: MOA NO. 032876

Customer: FOSTER WHEELER ENVIRONMENTAL CORPORATION

Source: NWS EARLE

Location: NWS EARLE

Analysis: EPA Method 8260B Volatiles by GC/MS

Preparation Batch:	WG10004	Instrument Batch:	WG10005
Matrix:	Waste H2O	Lab Sample I.D.:	L4464-1
Lab Notebook No:	1285,P.47	Date Sampled:	23-APR-02
Initial Cal I.D.:	2VREG65S	Date Received:	26-APR-02
Final Volume:	5.0 ml	Date Extracted:	26-APR-02
Initial Volume:	5.0 ml	Date Analyzed:	26-APR-02
Prep. Method:	EPA 5030B		
pH:	2 su		

TENTATIVELY IDENTIFIED COMPOUNDS

	CAS NO.	COMPOUND	RETENTION TIME (MIN)	EST. CONC (ug/l)

Comments: These compounds are not part of the target list. They were tentatively identified in the sample chromatogram. The concentrations are estimated.

SIMALABS

INTERNATIONAL

SAMPLE NUMBER
16(A)EW(02)44

Project. No.: MOA NO. 032876

Customer: FOSTER WHEELER ENVIRONMENTAL CORPORATION
Source: NWS EARLE
Location: NWS EARLE
Analysis: EPA Method 8260B Volatiles by GC/MS

Preparation Batch:	WG10004	Instrument Batch:	WG10005
Matrix:	Waste H2O	Lab Sample ID.:	L4464-3
Lab Notebook No:	1285,P.47	Date Sampled:	23-APR-02
Initial Cal. ID.:	2VREG65S	Date Received:	26-APR-02
Final Volume:	5.0 ml	Date Extracted:	29-APR-02
Initial Volume:	5.0 ml	Date Analyzed:	29-APR-02
Prep. Method:	EPA 5030B		
pH:	2 su		

SAMPLE RESULTS

	CAS NO.	COMPOUND	MDL (ug/l)	R L (ug/l)	RESULTS (ug/l)	DILUTION	FLAG
1.	630-20-6	1,1,1,2-tetrachloroethane	0.30	2.0	---	1	U
2.	71-55-6	1,1,1-trichloroethane	0.34	2.0	---	1	U
3.	79-34-5	1,1,2,2-tetrachloroethane	0.20	2.0	---	1	U
4.	79-00-5	1,1,2-trichloroethane	0.19	2.0	---	1	U
5.	75-34-3	1,1-dichloroethane	0.21	2.0	---	1	U
6.	75-35-4	1,1-dichloroethene	0.45	2.0	---	1	U
7.	563-58-6	1,1-dichloropropene	0.32	2.0	---	1	U
8.	87-61-6	1,2,3-trichlorobenzene	0.59	2.0	---	1	U
9.	96-18-4	1,2,3-trichloropropane	0.48	2.0	---	1	U
10.	120-82-1	1,2,4-trichlorobenzene	0.65	2.0	---	1	U
11.	95-63-6	1,2,4-trimethylbenzene	0.21	2.0	55.2	1	
12.	96-12-8	1,2-dibromo-3-chloropropane	0.67	2.0	---	1	U
13.	106-93-4	1,2-dibromoethane	0.37	2.0	---	1	U
14.	95-50-1	1,2-dichlorobenzene	0.28	2.0	---	1	U
15.	107-06-2	1,2-dichloroethane	0.31	2.0	---	1	U
16.	78-87-5	1,2-dichloropropane	0.20	2.0	---	1	U
17.	108-67-8	1,3,5-trimethylbenzene	0.36	2.0	12.6	1	
18.	541-73-1	1,3-dichlorobenzene	0.33	2.0	---	1	U
19.	142-28-9	1,3-dichloropropane	0.31	2.0	---	1	U
20.	106-46-7	1,4-dichlorobenzene	0.35	2.0	---	1	U
21.	594-20-7	2,2-dichloropropane	0.48	2.0	---	1	U
22.	78-93-3	2-Butanone	4.4	20.0	108	1	
23.	591-78-6	2-Hexanone	0.45	10.0	---	1	U
24.	95-49-8	2-chlorotoluene	0.34	2.0	---	1	U
25.	108-10-1	4-Methyl-2-pentanone	0.43	20.0	2.8	1	J

Comments: 1) Sample results are reported as rounded values. Percent recoveries are calculated using raw values and are reported rounded to zero decimal places.

SIMALABS INTERNATIONAL

SAMPLE NUMBER
16(A)EW(02)44

Project. No.: MOA NO. 032876

Customer: FOSTER WHEELER ENVIRONMENTAL CORPORATION
Source: NWS EARLE
Location: NWS EARLE
Analysis: EPA Method 8260B Volatiles by GC/MS

Preparation Batch: WG10004
Matrix: Waste H2O
Lab Notebook No: 1285,P.47
Initial Cal. ID.: 2VREG65S
Final Volume: 5.0 ml
Initial Volume: 5.0 ml
Prep. Method: EPA 5030B
pH: 2 su

Instrument Batch: WG10005
Lab Sample ID.: L4464-3
Date Sampled: 23-APR-02
Date Received: 26-APR-02
Date Extracted: 29-APR-02
Date Analyzed: 29-APR-02

SAMPLE RESULTS

	CAS NO.	COMPOUND	MDL (ug/l)	RL (ug/l)	RESULTS (ug/l)	DILUTION	FLAG
26.	106-43-4	4-chlorotoluene	0.32	2.0	---	1	U
27.	99-87-6	4-isopropyltoluene	0.33	2.0	1.4	1	J
28.	67-64-1	Acetone	12.0	40.0	63.0	1	
29.	75-15-0	Carbon Disulfide	0.29	2.0	---	1	U
30.	1634-04-4	MTBE	0.33	2.0	18.1	1	
31.	71-43-2	benzene	0.20	2.0	56.2	1	
32.	108-86-1	bromobenzene	0.27	2.0	---	1	U
33.	74-97-5	bromochloromethane	0.33	2.0	---	1	U
34.	75-27-4	bromodichloromethane	0.34	2.0	0.46	1	J,B
35.	75-25-2	bromoform	0.27	2.0	0.48	1	J,B
36.	74-83-9	bromomethane	0.75	3.0	---	1	U
37.	56-23-5	carbon tetrachloride	0.30	2.0	---	1	U
38.	108-90-7	chlorobenzene	0.22	2.0	---	1	U
39.	75-00-3	chloroethane	0.30	2.0	---	1	U
40.	67-66-3	chloroform	0.44	2.0	---	1	U
41.	74-87-3	chloromethane	0.44	2.0	---	1	U
42.	156-59-2	cis-1,2-dichloroethene	0.29	2.0	---	1	U
43.	10061-01-5	cis-1,3-dichloropropene	0.41	2.0	---	1	U
44.	124-48-1	dibromochloromethane	0.23	2.0	0.78	1	J,B
45.	74-95-3	dibromomethane	0.25	2.0	---	1	U
46.	75-71-8	dichlorodifluoromethane	0.26	2.0	---	1	U
47.	100-41-4	ethylbenzene	0.28	2.0	5.0	1	
48.	87-68-3	hexachlorobutadiene	0.58	2.0	---	1	U
49.	98-82-8	isopropylbenzene	0.41	2.0	2.9	1	
50.	106-42-3	m,p-xylene	0.63	4.0	26.7	1	

Comments: 1) Sample results are reported as rounded values. Percent recoveries are calculated using raw values and are reported rounded to zero decimal places.

SIMALABS INTERNATIONAL

SAMPLE NUMBER
16(A)EW(02)44

Project. No.: MOA NO. 032876

Customer: FOSTER WHEELER ENVIRONMENTAL CORPORATION
Source: NWS EARLE
Location: NWS EARLE
Analysis: EPA Method 8260B Volatiles by GC/MS

Preparation Batch: WG10004
Matrix: Waste H2O
Lab Notebook No: 1285,P.47
Initial Cal. ID.: 2VREG65S
Final Volume: 5.0 ml
Initial Volume: 5.0 ml
Prep. Method: EPA 5030B
pH: 2 su

Instrument Batch: WG10005
Lab Sample ID.: L4464-3
Date Sampled: 23-APR-02
Date Received: 26-APR-02
Date Extracted: 29-APR-02
Date Analyzed: 29-APR-02

SAMPLE RESULTS

	CAS NO.	COMPOUND	MDL (ug/l)	R L (ug/l)	RESULTS (ug/l)	DILUTION	FLAG
51.	75-09-2	methylene chloride	0.60	2.0	---	1	U
52.	104-51-8	n-butylbenzene	0.40	2.0	---	1	U
53.	103-65-1	n-propylbenzene	0.35	2.0	1.5	1	J
54.	91-20-3	naphthalene	0.34	2.0	10.0	1	B
55.	95-47-6	o-xylene	0.31	2.0	43.7	1	
56.	135-98-8	sec-butylbenzene	0.38	2.0	1.0	1	J
57.	100-42-5	styrene	0.43	2.0	---	1	U
58.	98-06-6	tert-butylbenzene	0.40	2.0	---	1	U
59.	127-18-4	tetrachloroethene	0.33	2.0	---	1	U
60.	108-88-3	toluene	0.31	2.0	2.6	1	
61.	156-60-5	trans-1,2-dichloroethene	0.34	2.0	---	1	U
62.	10061-02-6	trans-1,3-dichloropropene	0.34	2.0	---	1	U
63.	79-01-6	trichloroethene	0.30	2.0	---	1	U
64.	75-69-4	trichlorofluoromethane	0.22	2.0	---	1	U
65.	75-01-4	vinyl chloride	0.49	2.0	---	1	U

SURROGATE STANDARD	RECOVERY (%)	ACCEPTABLE (%)	SPIKE
1,2-dichloroethane-d4	78	76-120	50.0 ug/l
4-bromofluorobenzene	95	79-120	50.0 ug/l
dibromofluoromethane	83	80-120	50.0 ug/l
toluene-d8	84	80-120	50.0 ug/l

RL - Reporting Limit
MDL - Method Detection Limit
B - Blank Contamination
J - Estimated Value
U - Below MDL

Comments: 1) Sample results are reported as rounded values. Percent recoveries are calculated using raw values and are reported rounded to zero decimal places.

SIMALABS

INTERNATIONAL

SAMPLE NUMBER
16(A)EW(02)44

Customer: FOSTER WHEELER ENVIRONMENTAL CORPORATION
Project. No.: MOA NO. 032876
Source: NWS EARLE
Location: NWS EARLE
Analysis: EPA Method 8260B Volatiles by GC/MS

Preparation Batch:	WG10004	Instrument Batch:	WG10005
Matrix:	Waste H2O	Lab Sample I.D.:	L4464-3
Lab Notebook No:	1285,P.47	Date Sampled:	23-APR-02
Initial Cal I.D.:	2VREG65S	Date Received:	26-APR-02
Final Volume:	5.0 ml	Date Extracted:	29-APR-02
Initial Volume:	5.0 ml	Date Analyzed:	29-APR-02
Prep. Method:	EPA 5030B		
pH:	2 su		

TENTATIVELY IDENTIFIED COMPOUNDS

	CAS NO.	COMPOUND	RETENTION TIME (MIN)	EST. CONC (ug/l)
1.	78-78-4	Butane, 2-methyl-	2.33	10.7
2.	109-99-9	Furan, tetrahydro-	6.25	14.6
3.	611-14-3	Benzene, 1-ethyl-2-methyl-	15.29	28.4
4.	622-96-8	Benzene, 1-ethyl-4-methyl-	15.78	34.2
5.	526-73-8	Benzene, 1,2,3-trimethyl-	16.83	70.6
6.	496-11-7	Indane	17.15	30.2
7.	874-41-9	Benzene, 1-ethyl-2,4-dimethyl-	18.07	11.3
8.	767-58-8	Indan, 1-methyl-	18.21	14.0
9.	824-90-8	1-Phenyl-1-butene	19.60	31.4
10.	119-64-2	Naphthalene, 1,2,3,4-tetrahydro-	19.87	19.9

Comments: These compounds are not part of the target list. They were tentatively identified in the sample chromatogram. The concentrations are estimated.

SIMALABS

INTERNATIONAL

SAMPLE NUMBER
16(A)EW(02)43

Project. No.: MOA NO. 032876

Customer: FOSTER WHEELER ENVIRONMENTAL CORPORATION
Source: NWS EARLE
Location: NWS EARLE
Analysis: EPA Method 8260B Volatiles by GC/MS

Preparation Batch:	WG10004	Instrument Batch:	WG10005
Matrix:	Waste H2O	Lab Sample ID.:	L4464-4
Lab Notebook No:	1285,P.47	Date Sampled:	23-APR-02
Initial Cal. ID.:	2VREG65S	Date Received:	26-APR-02
Final Volume:	5.0 ml	Date Extracted:	29-APR-02
Initial Volume:	0.5 ml	Date Analyzed:	29-APR-02
Prep. Method:	EPA 5030B		
pH:	2 su		

SAMPLE RESULTS

	CAS NO.	COMPOUND	MDL (ug/l)	R L (ug/l)	RESULTS (ug/l)	DILUTION	FLAG
1.	630-20-6	1,1,1,2-tetrachloroethane	3.0	20.0	---	1	U
2.	71-55-6	1,1,1-trichloroethane	3.4	20.0	---	1	U
3.	79-34-5	1,1,2,2-tetrachloroethane	2.0	20.0	---	1	U
4.	79-00-5	1,1,2-trichloroethane	1.9	20.0	---	1	U
5.	75-34-3	1,1-dichloroethane	2.1	20.0	---	1	U
6.	75-35-4	1,1-dichloroethene	4.5	20.0	---	1	U
7.	563-58-6	1,1-dichloropropene	3.2	20.0	---	1	U
8.	87-61-6	1,2,3-trichlorobenzene	5.9	20.0	---	1	U
9.	96-18-4	1,2,3-trichloropropane	4.8	20.0	---	1	U
10.	120-82-1	1,2,4-trichlorobenzene	6.5	20.0	---	1	U
11.	95-63-6	1,2,4-trimethylbenzene	2.1	20.0	631	1	
12.	96-12-8	1,2-dibromo-3-chloropropane	6.7	20.0	---	1	U
13.	106-93-4	1,2-dibromoethane	3.7	20.0	---	1	U
14.	95-50-1	1,2-dichlorobenzene	2.8	20.0	---	1	U
15.	107-06-2	1,2-dichloroethane	3.1	20.0	---	1	U
16.	78-87-5	1,2-dichloropropane	2.0	20.0	---	1	U
17.	108-67-8	1,3,5-trimethylbenzene	3.6	20.0	176	1	
18.	541-73-1	1,3-dichlorobenzene	3.3	20.0	---	1	U
19.	142-28-9	1,3-dichloropropane	3.1	20.0	---	1	U
20.	106-46-7	1,4-dichlorobenzene	3.5	20.0	---	1	U
21.	594-20-7	2,2-dichloropropane	4.8	20.0	---	1	U
22.	78-93-3	2-Butanone	43.9	200	178	1	J
23.	591-78-6	2-Hexanone	4.5	100	---	1	U
24.	95-49-8	2-chlorotoluene	3.4	20.0	---	1	U
25.	108-10-1	4-Methyl-2-pentanone	4.3	200	---	1	U

Comments: 1) Sample results are reported as rounded values. Percent recoveries are calculated using raw values and are reported rounded to zero decimal places.

SIMALABS INTERNATIONAL

SAMPLE NUMBER
16(A)EW(02)43

Customer: FOSTER WHEELER ENVIRONMENTAL CORPORATION
Project. No.: MOA NO. 032876
Source: NWS EARLE
Location: NWS EARLE
Analysis: EPA Method 8260B Volatiles by GC/MS

Preparation Batch:	WG10004	Instrument Batch:	WG10005
Matrix:	Waste H2O	Lab Sample ID.:	L4464-4
Lab Notebook No:	1285,P.47	Date Sampled:	23-APR-02
Initial Cal. ID.:	2VREG65S	Date Received:	26-APR-02
Final Volume:	5.0 ml	Date Extracted:	29-APR-02
Initial Volume:	0.5 ml	Date Analyzed:	29-APR-02
Prep. Method:	EPA 5030B		
pH:	2 su		

SAMPLE RESULTS

	CAS NO.	COMPOUND	MDL (ug/l)	R L (ug/l)	RESULTS (ug/l)	DILUTION	FLAG
26.	106-43-4	4-chlorotoluene	3.2	20.0	---	1	U
27.	99-87-6	4-isopropyltoluene	3.3	20.0	56.9	1	
28.	67-64-1	Acetone	120	400	---	1	U
29.	75-15-0	Carbon Disulfide	2.9	20.0	---	1	U
30.	1634-04-4	MTBE	3.3	20.0	---	1	U
31.	71-43-2	benzene	2.0	20.0	107	1	
32.	108-86-1	bromobenzene	2.7	20.0	---	1	U
33.	74-97-5	bromochloromethane	3.3	20.0	---	1	U
34.	75-27-4	bromodichloromethane	3.4	20.0	5.3	1	J,B
35.	75-25-2	bromoform	2.7	20.0	4.9	1	J,B
36.	74-83-9	bromomethane	7.5	30.0	---	1	U
37.	56-23-5	carbon tetrachloride	3.0	20.0	---	1	U
38.	108-90-7	chlorobenzene	2.2	20.0	---	1	U
39.	75-00-3	chloroethane	3.0	20.0	---	1	U
40.	67-66-3	chloroform	4.4	20.0	---	1	U
41.	74-87-3	chloromethane	4.4	20.0	---	1	U
42.	156-59-2	cis-1,2-dichloroethene	2.9	20.0	---	1	U
43.	10061-01-5	cis-1,3-dichloropropene	4.1	20.0	---	1	U
44.	124-48-1	dibromochloromethane	2.3	20.0	8.6	1	J,B
45.	74-95-3	dibromomethane	2.5	20.0	---	1	U
46.	75-71-8	dichlorodifluoromethane	2.6	20.0	---	1	U
47.	100-41-4	ethylbenzene	2.8	20.0	96.7	1	
48.	87-68-3	hexachlorobutadiene	5.8	20.0	---	1	U
49.	98-82-8	isopropylbenzene	4.1	20.0	35.9	1	
50.	106-42-3	m,p-xylene	6.3	40.0	365	1	

Comments: 1) Sample results are reported as rounded values. Percent recoveries are calculated using raw values and are reported rounded to zero decimal places.

SIMALABS INTERNATIONAL

SAMPLE NUMBER
16(A)EW(02)43

Customer: FOSTER WHEELER ENVIRONMENTAL CORPORATION
Project. No.: MOA NO. 032876
Source: NWS EARLE
Location: NWS EARLE
Analysis: EPA Method 8260B Volatiles by GC/MS

Preparation Batch: WG10004
Matrix: Waste H2O
Lab Notebook No: 1285,P.47
Initial Cal. ID.: 2VREG65S
Final Volume: 5.0 ml
Initial Volume: 0.5 ml
Prep. Method: EPA 5030B
pH: 2 su

Instrument Batch: WG10005
Lab Sample ID.: L4464-4
Date Sampled: 23-APR-02
Date Received: 26-APR-02
Date Extracted: 29-APR-02
Date Analyzed: 29-APR-02

SAMPLE RESULTS

	CAS NO.	COMPOUND	MDL (ug/l)	R L (ug/l)	RESULTS (ug/l)	DILUTION	FLAG
51.	75-09-2	methylene chloride	6.0	20.0	---	1	U
52.	104-51-8	n-butylbenzene	4.0	20.0	---	1	U
53.	103-65-1	n-propylbenzene	3.5	20.0	68.4	1	
54.	91-20-3	naphthalene	3.4	20.0	1060	1	B
55.	95-47-6	o-xylene	3.1	20.0	146	1	
56.	135-98-8	sec-butylbenzene	3.8	20.0	58.2	1	
57.	100-42-5	styrene	4.3	20.0	---	1	U
58.	98-06-6	tert-butylbenzene	4.0	20.0	4.8	1	J
59.	127-18-4	tetrachloroethene	3.3	20.0	---	1	U
60.	108-88-3	toluene	3.1	20.0	23.6	1	
61.	156-60-5	trans-1,2-dichloroethene	3.4	20.0	---	1	U
62.	10061-02-6	trans-1,3-dichloropropene	3.4	20.0	---	1	U
63.	79-01-6	trichloroethene	3.0	20.0	---	1	U
64.	75-69-4	trichlorofluoromethane	2.2	20.0	---	1	U
65.	75-01-4	vinyl chloride	4.9	20.0	---	1	U

SURROGATE STANDARD	RECOVERY (%)	ACCEPTABLE (%)	SPIKE
1,2-dichloroethane-d4	83	76-120	500 ug/l
4-bromofluorobenzene	97	79-120	500 ug/l
dibromofluoromethane	82	80-120	500 ug/l
toluene-d8	84	80-120	500 ug/l

RL - Reporting Limit
B - Blank Contamination
U - Below MDL
MDL - Method Detection Limit
J - Estimated Value

Comments: 1) Sample results are reported as rounded values. Percent recoveries are calculated using raw values and are reported rounded to zero decimal places.

SIMALABS

INTERNATIONAL

SAMPLE NUMBER
16(A)EW(02)43

Customer: FOSTER WHEELER ENVIRONMENTAL CORPORATION
Project. No.: MOA NO. 032876
Source: NWS EARLE
Location: NWS EARLE
Analysis: EPA Method 8260B Volatiles by GC/MS

Preparation Batch:	WG10004	Instrument Batch:	WG10005
Matrix:	Waste H2O	Lab Sample I.D.:	L4464-4
Lab Notebook No:	1285,P.47	Date Sampled:	23-APR-02
Initial Cal I.D.:	2VREG65S	Date Received:	26-APR-02
Final Volume:	5.0 ml	Date Extracted:	29-APR-02
Initial Volume:	0.5 ml	Date Analyzed:	29-APR-02
Prep. Method:	EPA 5030B		
pH:	2 su		

TENTATIVELY IDENTIFIED COMPOUNDS

	CAS NO.	COMPOUND	RETENTION TIME (MIN)	EST. CONC (ug/l)
1.	124-18-5	Decane	15.59	13000
2.	620-14-4	Benzene, 1-ethyl-3-methyl-	16.83	7300
3.	1120-21-4	Undecane	17.75	22400
4.	95-93-2	Benzene, 1,2,4,5-tetramethyl-	18.86	11600
5.	934-10-1	3-Phenylbut-1-ene	19.60	10300
6.	112-40-3	Dodecane	19.74	20000
7.	17301-23-4	Undecane, 2,6-dimethyl-	20.02	8790
8.	4292-75-5	Cyclohexane, hexyl-	20.76	8140
9.	629-50-5	Tridecane	21.60	8610
10.	264-09-5	Benzocycloheptatriene	22.61	11200

Comments: These compounds are not part of the target list. They were tentatively identified in the sample chromatogram. The concentrations are estimated.

SIMALABS INTERNATIONAL

SAMPLE NUMBER
16(B)EW(02)15

Customer: FOSTER WHEELER ENVIRONMENTAL CORPORATION
Project. No.: MOA NO. 032876
Source: NWS EARLE
Location: NWS EARLE
Analysis: EPA Method 8260B Volatiles by GC/MS

Preparation Batch:	WG10004	Instrument Batch:	WG10005
Matrix:	Waste H2O	Lab Sample ID.:	L4464-2
Lab Notebook No:	1285,P.47	Date Sampled:	23-APR-02
Initial Cal. ID.:	2VREG65S	Date Received:	26-APR-02
Final Volume:	5.0 ml	Date Extracted:	26-APR-02
Initial Volume:	5.0 ml	Date Analyzed:	26-APR-02
Prep. Method:	EPA 5030B		
pH:	2 su		

SAMPLE RESULTS

	CAS NO.	COMPOUND	MDL (ug/l)	R L (ug/l)	RESULTS (ug/l)	DILUTION	FLAG
1.	630-20-6	1,1,1,2-tetrachloroethane	0.30	2.0	---	1	U
2.	71-55-6	1,1,1-trichloroethane	0.34	2.0	---	1	U
3.	79-34-5	1,1,2,2-tetrachloroethane	0.20	2.0	---	1	U
4.	79-00-5	1,1,2-trichloroethane	0.19	2.0	---	1	U
5.	75-34-3	1,1-dichloroethane	0.21	2.0	---	1	U
6.	75-35-4	1,1-dichloroethene	0.45	2.0	---	1	U
7.	563-58-6	1,1-dichloropropene	0.32	2.0	---	1	U
8.	87-61-6	1,2,3-trichlorobenzene	0.59	2.0	---	1	U
9.	96-18-4	1,2,3-trichloropropane	0.48	2.0	---	1	U
10.	120-82-1	1,2,4-trichlorobenzene	0.65	2.0	---	1	U
11.	95-63-6	1,2,4-trimethylbenzene	0.21	2.0	69.1	1	
12.	96-12-8	1,2-dibromo-3-chloropropane	0.67	2.0	---	1	U
13.	106-93-4	1,2-dibromoethane	0.37	2.0	---	1	U
14.	95-50-1	1,2-dichlorobenzene	0.28	2.0	---	1	U
15.	107-06-2	1,2-dichloroethane	0.31	2.0	---	1	U
16.	78-87-5	1,2-dichloropropane	0.20	2.0	---	1	U
17.	108-67-8	1,3,5-trimethylbenzene	0.36	2.0	13.8	1	
18.	541-73-1	1,3-dichlorobenzene	0.33	2.0	---	1	U
19.	142-28-9	1,3-dichloropropane	0.31	2.0	---	1	U
20.	106-46-7	1,4-dichlorobenzene	0.35	2.0	---	1	U
21.	594-20-7	2,2-dichloropropane	0.48	2.0	---	1	U
22.	78-93-3	2-Butanone	4.4	20.0	---	1	U
23.	591-78-6	2-Hexanone	0.45	10.0	---	1	U
24.	95-49-8	2-chlorotoluene	0.34	2.0	---	1	U
25.	108-10-1	4-Methyl-2-pentanone	0.43	20.0	---	1	U

Comments: 1) Sample results are reported as rounded values. Percent recoveries are calculated using raw values and are reported rounded to zero decimal places.

SIMALABS INTERNATIONAL

SAMPLE NUMBER
16(B)EW(02)15

Customer: FOSTER WHEELER ENVIRONMENTAL CORPORATION
Project. No.: MOA NO. 032876
Source: NWS EARLE
Location: NWS EARLE
Analysis: EPA Method 8260B Volatiles by GC/MS

Preparation Batch:	WG10004	Instrument Batch:	WG10005
Matrix:	Waste H2O	Lab Sample ID.:	L4464-2
Lab Notebook No:	1285,P.47	Date Sampled:	23-APR-02
Initial Cal. ID.:	2VREG65S	Date Received:	26-APR-02
Final Volume:	5.0 ml	Date Extracted:	26-APR-02
Initial Volume:	5.0 ml	Date Analyzed:	26-APR-02
Prep. Method:	EPA 5030B		
pH:	2 su		

SAMPLE RESULTS

	CAS NO.	COMPOUND	MDL (ug/l)	R L (ug/l)	RESULTS (ug/l)	DILUTION	FLAG
26.	106-43-4	4-chlorotoluene	0.32	2.0	---	1	U
27.	99-87-6	4-isopropyltoluene	0.33	2.0	3.5	1	
28.	67-64-1	Acetone	12.0	40.0	---	1	U
29.	75-15-0	Carbon Disulfide	0.29	2.0	---	1	U
30.	1634-04-4	MTBE	0.33	2.0	0.56	1	J
31.	71-43-2	benzene	0.20	2.0	1.3	1	J
32.	108-86-1	bromobenzene	0.27	2.0	---	1	U
33.	74-97-5	bromochloromethane	0.33	2.0	---	1	U
34.	75-27-4	bromodichloromethane	0.34	2.0	0.43	1	J,B
35.	75-25-2	bromoform	0.27	2.0	0.54	1	J,B
36.	74-83-9	bromomethane	0.75	3.0	---	1	U
37.	56-23-5	carbon tetrachloride	0.30	2.0	---	1	U
38.	108-90-7	chlorobenzene	0.22	2.0	---	1	U
39.	75-00-3	chloroethane	0.30	2.0	---	1	U
40.	67-66-3	chloroform	0.44	2.0	---	1	U
41.	74-87-3	chloromethane	0.44	2.0	---	1	U
42.	156-59-2	cis-1,2-dichloroethene	0.29	2.0	---	1	U
43.	10061-01-5	cis-1,3-dichloropropene	0.41	2.0	---	1	U
44.	124-48-1	dibromochloromethane	0.23	2.0	0.83	1	J,B
45.	74-95-3	dibromomethane	0.25	2.0	---	1	U
46.	75-71-8	dichlorodifluoromethane	0.26	2.0	---	1	U
47.	100-41-4	ethylbenzene	0.28	2.0	7.2	1	
48.	87-68-3	hexachlorobutadiene	0.58	2.0	---	1	U
49.	98-82-8	isopropylbenzene	0.41	2.0	2.0	1	
50.	106-42-3	m,p-xylene	0.63	4.0	21.8	1	

Comments: 1) Sample results are reported as rounded values. Percent recoveries are calculated using raw values and are reported rounded to zero decimal places.

SIMALABS INTERNATIONAL

SAMPLE NUMBER
16(B)EW(02)15

Project. No.: MOA NO. 032876

Customer: FOSTER WHEELER ENVIRONMENTAL CORPORATION
Source: NWS EARLE
Location: NWS EARLE
Analysis: EPA Method 8260B Volatiles by GC/MS

Preparation Batch: WG10004
Matrix: Waste H2O
Lab Notebook No: 1285,P.47
Initial Cal. ID.: 2VREG65S
Final Volume: 5.0 ml
Initial Volume: 5.0 ml
Prep. Method: EPA 5030B
pH: 2 su

Instrument Batch: WG10005
Lab Sample ID.: L4464-2
Date Sampled: 23-APR-02
Date Received: 26-APR-02
Date Extracted: 26-APR-02
Date Analyzed: 26-APR-02

SAMPLE RESULTS

	CAS NO.	COMPOUND	MDL (ug/l)	R L (ug/l)	RESULTS (ug/l)	DILUTION	FLAG
51.	75-09-2	methylene chloride	0.60	2.0	---	1	U
52.	104-51-8	n-butylbenzene	0.40	2.0	---	1	U
53.	103-65-1	n-propylbenzene	0.35	2.0	2.3	1	
54.	91-20-3	naphthalene	0.34	4.0	256	2	D,B
55.	95-47-6	o-xylene	0.31	2.0	8.7	1	
56.	135-98-8	sec-butylbenzene	0.38	2.0	1.9	1	J
57.	100-42-5	styrene	0.43	2.0	---	1	U
58.	98-06-6	tert-butylbenzene	0.40	2.0	0.45	1	J
59.	127-18-4	tetrachloroethene	0.33	2.0	---	1	U
60.	108-88-3	toluene	0.31	2.0	1.9	1	J
61.	156-60-5	trans-1,2-dichloroethene	0.34	2.0	---	1	U
62.	10061-02-6	trans-1,3-dichloropropene	0.34	2.0	---	1	U
63.	79-01-6	trichloroethene	0.30	2.0	---	1	U
64.	75-69-4	trichlorofluoromethane	0.22	2.0	---	1	U
65.	75-01-4	vinyl chloride	0.49	2.0	---	1	U

SURROGATE STANDARD	RECOVERY (%)	ACCEPTABLE (%)	SPIKE
1,2-dichloroethane-d4	86	76-120	50.0 ug/l
4-bromofluorobenzene	95	79-120	50.0 ug/l
dibromofluoromethane	88	80-120	50.0 ug/l
toluene-d8	86	80-120	50.0 ug/l

RL - Reporting Limit
B - Blank Contamination
J - Estimated Value

MDL - Method Detection Limit
D - Diluted
U - Below MDL

Comments: 1) Sample results are reported as rounded values. Percent recoveries are calculated using raw values and are reported rounded to zero decimal places.

SIMALABS

INTERNATIONAL

SAMPLE NUMBER
16(B)EW(02)15

Project. No.: MOA NO. 032876

Customer: FOSTER WHEELER ENVIRONMENTAL CORPORATION
Source: NWS EARLE
Location: NWS EARLE
Analysis: EPA Method 8260B Volatiles by GC/MS

Preparation Batch:	WG10004	Instrument Batch:	WG10005
Matrix:	Waste H2O	Lab Sample I.D.:	L4464-2
Lab Notebook No:	1285,P.47	Date Sampled:	23-APR-02
Initial Cal I.D.:	2VREG65S	Date Received:	26-APR-02
Final Volume:	5.0 ml	Date Extracted:	26-APR-02
Initial Volume:	5.0 ml	Date Analyzed:	26-APR-02
Prep. Method:	EPA 5030B		
pH:	2 su		

TENTATIVELY IDENTIFIED COMPOUNDS

	CAS NO.	COMPOUND	RETENTION TIME (MIN)	EST. CONC (ug/l)
1.	526-73-8	Benzene, 1,2,3-trimethyl-	16.83	53.4
2.	496-11-7	Indane	17.15	30.5
3.	1758-88-9	Benzene, 2-ethyl-1,4-dimethyl-	17.41	31.5
4.	934-80-5	Benzene, 4-ethyl-1,2-dimethyl-	18.07	46.7
5.	95-93-2	Benzene, 1,2,4,5-tetramethyl-	18.87	48.2
6.	1560-06-1	Benzene, 2-butenyl-	19.59	110
7.	119-64-2	Naphthalene, 1,2,3,4-tetrahydro-	19.87	42.0
8.	1680-51-9	Naphthalene, 1,2,3,4-tetrahydro-6-	21.82	47.5
9.	91-57-6	Naphthalene, 2-methyl-	22.61	110
10.	264-09-5	Benzocycloheptatriene	22.81	87.4

Comments: These compounds are not part of the target list. They were tentatively identified in the sample chromatogram. The concentrations are estimated.

May GW -

SIMALABS

INTERNATIONAL

SAMPLE RESULTS

Customer:	FOSTER WHEELER ENVIRONMENTAL CORPORATION	Cust. Proj. No.:	MOA NO. 032876
Source:	NWS EARLE	Login No.:	L4595
Analysis:	**TPH Diesel by GC**	Date Received:	30-MAY-02
Method:	EPA 8015B	Date Analyzed:	31-MAY-02
Prep Method:	EPA 3510C	Prep Date:	31-MAY-02
Lab Notebook No:	1296 P.44	**Preparation Batch:**	WG10519
Initial Cal ID	2DZ0520H	**Instrument Batch:**	WG10525

LAB I.D.	CUSTOMER SAMPLE NO. & LOCATION	MATRIX	TPH	MDL (mg/l)	RL (mg/l)	DILUTION	VALUE / FLAG (mg/l)		Surrogate Recovery (%)
L4595-1	16(B)EW-02-18 AFTER	Misc. H2O	NonVolatile (Diesel range)	0.067	0.20	1	0.076	J,B	N-Nonacosane 88
L4595-2	16(B)EW-02-17 PRIOR	Misc. H2O	NonVolatile (Diesel range)	0.066	2.0	10	78.9	D,B	N-Nonacosane 85
L4595-3	16(A)EW-02-45 PRIOR	Misc. H2O	NonVolatile (Diesel range)	0.068	5.1	25	104	D,B	N-Nonacosane 90
L4595-4	16(A)EW-02-46 AFTER	Misc. H2O	NonVolatile (Diesel range)	0.071	0.21	1	0.28	B	N-Nonacosane 85

RL - Reporting Limit

MDL - Method Detection Limit

B - Blank Contamination

D - Diluted

J - Estimated Value

Comments: 1) Surrogate Percent Recovery Limits: N-Nonacosane 64-140