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Final Bioslurper Status Report

March through May 2006

Naval Weapons Station Earle (NWS Earle)
Colts Neck, New Jersey
N62472-03-D-0802

Submitted:

4 August 2006

Prepared For:

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Subject: **US NAVY CONTRACT NO. N62472-03-D-0802**
CONTRACT DELIVERY ORDER NO. 0017, NWS EARLE, COLTS NECK, NJ
MAR - MAY 2006 FINAL BIOSLURPER STATUS REPORT

Dear Mr. Pagtalunan:

Please find enclosed one hard copy and one electronic copy of the Final Bioslurper Status Report for the reporting period of March through May 2006 prepared by ECOR Solutions, Inc. (ECOR).

Please contact either of the undersigned at 610-431-8731 if you have any questions or comments regarding this submittal.

Sincerely,
ECOR Solutions, Inc.

Amanda Bell
Project Supervisor

Richard K. Evans
Senior Project Supervisor

Enclosure - Electronic Deliverable (CD)

cc: Gary Lipsius - NJDEP
Eric Helms - NWS EARLE
Main File - ECOR

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1.0 INTRODUCTION

ECOR Solutions, Inc. (ECOR) is contracted by Naval Facilities Engineering Command (NAVFAC) Mid-Atlantic to operate two 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 present system operational data from 1 March 2006 through 31 May 2006 for Task Order No. 0017 under Contract No. N62472-03-D-0802.

This report summarizes the results of continued bioslurper operations at Site 16F at the NWS-Earle facility, including product recovery, groundwater recovery, and system water and vapor analytical results for both bioslurper systems. ECOR assumed system operation on 5 April 2004. Prior to that date, the systems were operated by Tetra Tech FW, Inc. (TtFW). Historical operational data and background information provided by TtFW are included in this report.

Bioslurper Unit No. 1 (located adjacent to the former location of Building C-16) was designed to primarily operate from extraction wells 16-MW-04, 16MW-13, 16MW-14, 16MW-15, 16MW-25, 16MW-26, and 16MW-27 and vapor extraction wells 16MW-22 and 16MW-23. Five additional newly installed extraction wells were connected to Bioslurper Unit No. 1 in February 2006 (extraction wells 16MW-31 through 16MW-35). Bioslurper Unit No. 2 (located north of Building C-50) was designed to normally utilize extraction wells 16MW-16, 16MW-17, 16MW-18, 16MW-19, 16MW-20, 16MW-21, and C17/20MW-07. Various extraction wells are utilized during system operation based upon the thickness of light non-aqueous phase liquid (LNAPL) present. Piping was also installed to allow operation of the extraction well network from either Bioslurper Unit during the initial system installation.

Due to minimal LNAPL recovery, Bioslurper Unit No. 2 was deactivated on 17 November 2004 as directed by the U.S. Navy. ECOR was advised by the U.S. Navy on 28 October 2004 that approval had been obtained from the New Jersey Department of Environmental Protection (NJDEP) to deactivate Bioslurper #2. Media from the liquid-phase treatment equipment (clay and carbon absorbers) was subsequently removed, and the usable clay vessels were installed in Bioslurper Unit No. 1. All other primary equipment remains installed at Bioslurper Unit No. 2. Since the subgrade piping network was designed to allow Bioslurper Unit No. 1 to utilize extraction wells normally associated with Bioslurper Unit No. 2 for LNAPL recovery, and recovery wells can be activated as LNAPL thicknesses warrant.

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 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 U.S. 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 known 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 LNAPL 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 LNAPL 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 LNAPL plume located south and southeast of Building C-16; 2) a smaller LNAPL plume northwest of Building C-50; and 3) the residual soil contamination associated with the former gas station site west of Building C-18.

The initial LNAPL phase is 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 LNAPL, the groundwater gradient, and the permeability of the aquifer media control the rate of LNAPL 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. An increased smear zone reduces the volume of the remaining mobile LNAPL.

Based on previous data gathered from water level measurements obtained in the recovery wells, the elevations in the wells vary as much as 3.90 to 7.29-feet below grade, with the average groundwater fluctuation of 5.79-feet in a well. Therefore the LNAPL 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 LNAPL 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 larger percentages of LNAPL occur within the smear zone versus the vadose zone.

As depicted in the current LNAPL thickness figures (**Figure 5-1** through **Figure 5-3**) the majority of remaining LNAPL is located in the southwest portion of the plume near former Building C-16, extending approximately 80 feet south. The concentration of the LNAPL appears to be underlying the parking lot area south of former Building C-16. LNAPL is also located east of former Building C-16 in the area between the railroad tracks (influenced by groundwater elevation). The western extent of the LNAPL plume is not completely defined. The estimated boundaries of the LNAPL plume generated from the SCAPS Investigation (dashed line in figures) have been used to define the original LNAPL plume boundary. Current data shows that the extent of the LNAPL plume has decreased significantly with treatment over time in the original extraction well network. Significant LNAPL thicknesses have been detected in the five extraction wells installed in November 2006.

The extent of the LNAPL plume located north of Building C-50 has not been verified with additional wells. The LNAPL boundary depicted is based on the SCAPS Investigation.

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 (16MW-22 and 16MW-23) 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 to 5 inches of mercury (Hg) is applied to each well. The velocity in the drop tube must be sufficient to lift water as an entrained fluid.

Extraction wells 16MW-04, 16MW-13, 16MW-14, 16MW-15, 16MW-17, 16MW-18, 16MW-19, 16MW-20, 16MW-25, 16MW-27, 16MW-32 through 16MW-35, and C17-C20-MW-07 were utilized for LNAPL recovery during the reporting period. The use of extraction wells was varied as LNAPL thicknesses changed. The extraction wells were operated with the one-inch diameter drop tube set immediately above the LNAPL level in the well.

Unit No. 2, located north of Building C-50, was not operated during the reporting period. Bioslurper Unit No. 2 was deactivated on 17 November 2004 due to a high pressure condition. Additionally, ECOR was advised by the U.S. Navy on 28 October 2004 that approval had been obtained from the New Jersey Department of Environmental Protection (NJDEP) to deactivate Bioslurper Unit No. 2. However, the extraction wells formerly associated with Bioslurper Unit No. 2 were utilized by the Bioslurper Unit No. 1 system during the reporting period.

5.0 SYSTEM OPERATIONS SUMMARY

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 Unit 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. **Table 1** summarizes LNAPL recovery, **Table 2** presents groundwater recovery data, **Table 3** calculates total petroleum hydrocarbon (TPH) recovery, and **Table 4** summarizes system water sample data. **Appendix A** contains graphs depicting the operational times and groundwater and LNAPL extracted on a monthly basis. **Appendix B** depicts groundwater and product elevations in the extraction wells. **Appendix C** summarizes air data, and **Appendix D** presents system water data.

5.1 March 2006

Bioslurper Unit No. 1 was operated normally during March 2006. During March 2006, Bioslurper Unit No. 1 was operated for 165 hours, recovering 12,963 gallons of groundwater. LNAPL was recovered, but due to emulsification with the iron fouling, the volume of recovered LNAPL was not quantifiable. System water and vapor samples were collected on 14 March 2006. Analytical results indicate that no permitted limits were exceeded.

Bioslurper Unit No. 2 was deactivated during November 2004. Reactivation is not planned.

Liquid level data was obtained from extraction wells associated with Bioslurper Units No. 1 and No. 2 on a weekly basis during March 2006. Extraction well use was varied based upon the LNAPL thicknesses measured each week. Recently connected extraction wells 16MW-34 and 16MW-35 were activated during March 2006.

5.2 April 2006

Bioslurper Unit No. 1 was operated normally during April 2006. A system shut down occurred on 17 April 2006 on a high level condition in the phase separator. This was caused by iron fouling on the level floats. The floats were cleaned and returned to service on 20 April 2006. During April 2006, Bioslurper Unit No. 1 was operated for 139 hours, recovering 4.5 gallons of LNAPL and 2,364 gallons of groundwater. System water and vapor samples were collected on 12 April 2006. Analytical results indicate that no permitted limits were exceeded.

Bioslurper Unit No. 2 was deactivated during November 2004. Reactivation is not planned.

Liquid level data was obtained from extraction wells associated with Bioslurper Units No. 1 and No. 2 on a weekly basis during April 2006. Extraction well use was varied based upon the LNAPL thicknesses measured each week.

5.3 May 2006

Bioslurper Unit No. 1 was operated intermittently during February 2006, during system expansion activities. The oil/water separator was cleaned on 9 May 2006, and recovered LNAPL was transported off site for disposal. The oil/water separator transfer pump became air bound on 10 May 2006. The pump was reprimed and returned to service on 11 May 2006. During May 2006, Bioslurper Unit No. 1 was operated for 158 hours, recovering 72.5 gallons of LNAPL and 11,814 gallons of groundwater. System water and vapor samples were collected on 17 May 2006. Analytical results indicate that no permitted limits were exceeded.

Bioslurper Unit No. 2 was deactivated during November 2004. Reactivation is not planned.

Liquid level data was obtained from extraction wells associated with Bioslurper Units No. 1 and No. 2 on a weekly basis during May 2006. Extraction well use was varied based upon the LNAPL thicknesses measured each week.

5.4 Evaluation of Site Conditions

Groundwater level and LNAPL thickness measurements are obtained periodically to establish product thickness isocontours. **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 5-3**, LNAPL thicknesses are the greatest in the area south of former Building C-16. The greatest LNAPL thickness observed at a recovery well during the reporting period was 6.37 feet (28 April 2006) at extraction well 16MW-33 (installed in November 2005). The NAPL thickness at extraction well 16MW-33 was reduced to 1.27 feet as of 25 May 2006. The observed thickness will fluctuate over time as LNAPL is recovered. The LNAPL thickness decrease in extraction well 16MW-33 combined with LNAPL thickness decreases in other extraction wells operated during the reporting period and the volume of LNAP recovered indicate that the system appears to be effectively recovering the LNAPL that is present in the extraction well network. During the reporting period, the greatest amount of recoverable LNAPL was observed in extraction wells 16MW-13, 16MW-33, and 16MW-35.

5.5 LNAPL Recovery Data

LNAPL recovery is presented in **Table 1. Appendix A** depicts the volume of LNAPL and groundwater extracted and the operational hours for each Bioslurper. During the reporting period, 77 gallons LNAPL were recovered. The system appears to be effectively removing LNAPL from the recovery wells. During normal operation of Bioslurper Unit No. 1, observed LNAPL thickness have decreased. The volume of LNAPL recovered is anticipated to increase compared to the previous year due to the addition of the new extraction wells (16MW-31 through 16MW-35). After several months of operation of the recently installed extraction wells, the volume of recovered LNAPL will likely decrease.

6.0 HYDROCARBON RECOVERY AND PERMIT COMPLIANCE

6.1 Vapor-phase Recovery and Permit Compliance

Vapor samples are collected on a monthly basis from both Bioslurper Units to evaluate hydrocarbon recovery and ensure discharges are in compliance with the New Jersey Department of Environmental Protection (NJDEP) air discharge permit. The vapor discharge is sampled for total VOCs (including benzene) and TPH. **Appendix C** summarizes the analytical results of the vapor samples and the permit limits and presents calculations for vapor-phase TPH recovery. **Appendix C** also contains the laboratory analytical results of the air samples. As indicated by the analytical results, Bioslurper Unit No. 1 was operating within the permit requirements established for air discharge during operation.

During the reporting period, 15.1 pounds of vapor-phase TPH were recovered at Bioslurper Unit No. 1. Bioslurper Unit No. 2 is deactivated.

6.2 Dissolved-phase Recovery and Permit Compliance

The effluent from Bioslurper Unit No.1 is processed through one bag filter (equipped with a 25-micron filter), two bentonite clay vessels (operating in series), and two liquid-phase granular activated carbon vessels (LGACs) (operating in series). The bag filter removes particulates (primarily precipitated iron), the clay units remove the higher molecular weight VOCs and TPH, and the activated carbon removes the remaining VOC and TPH compounds.

The groundwater influent, post bentonite vessels, mid-LGAC, and effluent from the Bioslurper Unit is sampled on a monthly basis to ensure the discharges are in compliance with the requirements set forth by the NWS Earle Sewer Treatment Plant (< 10 parts per million [ppm] TPH).

Table 4 summarizes the TPH results of the effluent samples. **Appendix D** contains dissolved-phase hydrocarbon recovery calculations and the laboratory analytical results of the system water samples.

During the reporting period, 9.7 pounds of dissolved-phase were recovered via groundwater extraction at Bioslurper Unit No. 1.

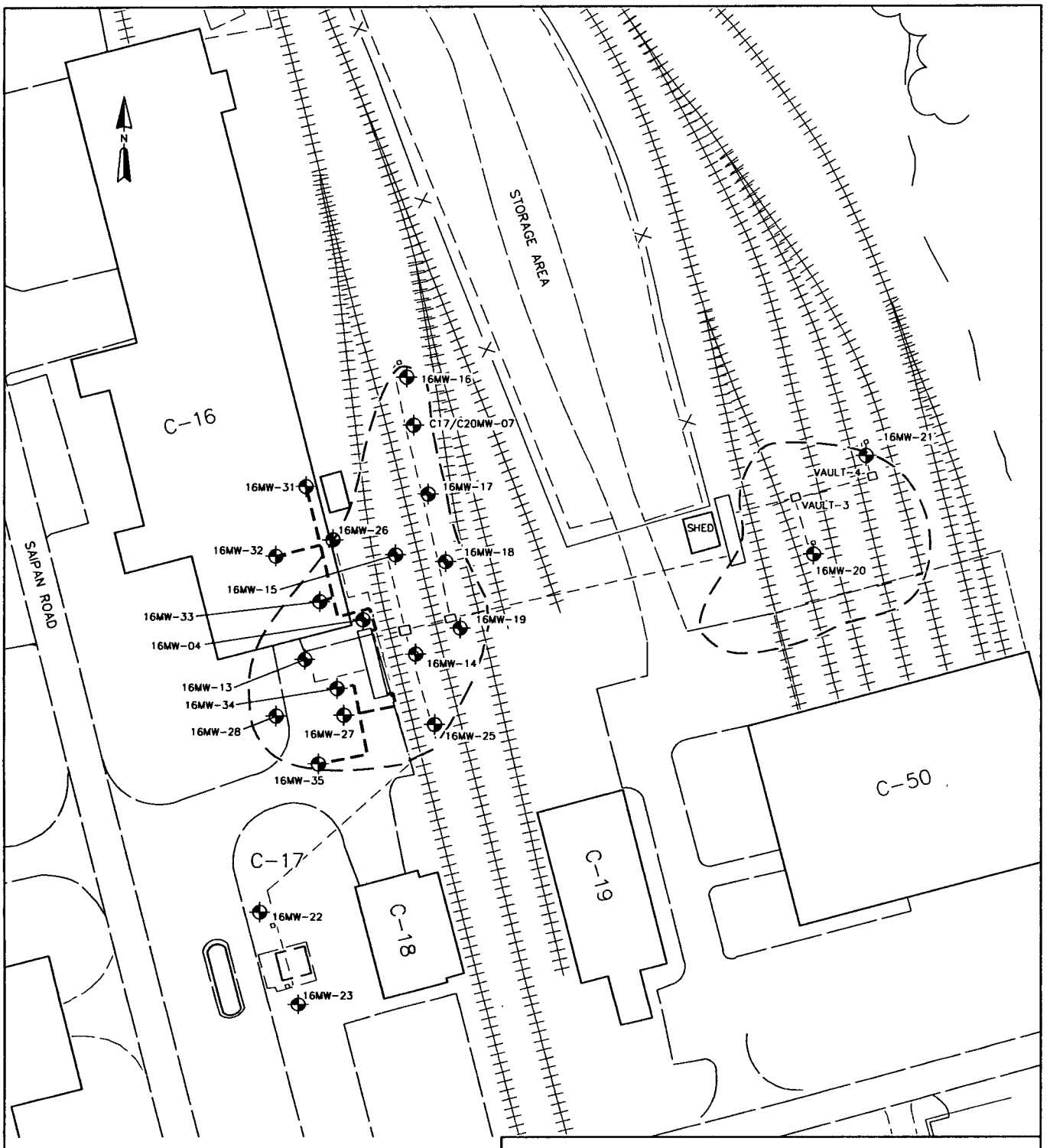
7.0 CONCLUSIONS

LNAPL thickness generally increased in the extraction wells while the system was not operating during December 2004, January 2005, and February 2005. Since reactivation in February 2005, increased (though relatively low) LNAPL recovery has been observed. However, observed LNAPL thicknesses in the recovery wells have decreased significantly since full-scale operation was re-initiated in February 2005. The data obtained during the non-operational time and since reactivation of Bioslurper Unit No. 1 indicate that recoverable LNAPL remains. The LNAPL thicknesses observed in the extraction wells installed in November 2005 also indicate that a recoverable volume of LNAPL is present in the subsurface.

While LNAPL thicknesses remain less than one foot at most locations, isolated areas of LNAPL remain as indicated by several extraction wells. Specifically, LNAPL thicknesses of greater than one foot were observed at extraction wells 16MW-13 and 16MW-35 during the reporting period. Additionally, LNAPL thicknesses greater than five feet were measured at extraction well 16MW-33. Extraction well 16MW-33 is located in the southwest corner of former Building C-16 which confirms that LNAPL was present in the area but unrecoverable due to the presence of the building. Extraction wells 16MW-31 through 16MW-35 were located to enhance LNAPL recovery. Several of the recently installed extraction wells indicate that recoverable LNAPL is present in the vicinity of the extraction well (e.g. 16MW-33).

LNAPL recovery should continue at the Site. Recovery locations will be varied as LNAPL thicknesses fluctuate. However, the focus will remain in the area of the southwest corner of former Building C-16 and the asphalt parking area bound by the railroad tracks to the east, the grass area to the west, and the southernmost extraction well (16MW-35).

FIGURES



LEGEND

MONITORING WELL LOCATION

LNAPL PLUME BOUNDARY BASED ON FORMER SCAPS STUDY

SOURCE: TETRATECH FOSTER WHEELER

SITE MAP WITH AS-BUILT TRENCH LOCATIONS

U.S. NAVY
NWS- EARLE
COLTS NECK, NJ

ECOR Solutions
1075 Andrew Drive, Suite I, West Chester, PA 19380

SCALE IN FEET	DATE	FIGURE
0 — 80	06-30-06	2-1

ECOR Solutions, Inc.

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LEGEND

16MW-16 — MONITORING WELL LOCATION

(0.81) — LNAPL THICKNESS (ft)

LNAPL THICKNESS ISOCONTOUR (ft)

INFERRED ISOCONTOUR

LNAPL PLUME BOUNDARY BASED ON FORMER SCAPS STUDY

SOURCE: TETRATECH FOSTER WHEELER

LNAPL THICKNESS ISOCONTOUR MAP
8 MARCH 2006

U.S. NAVY
NWS- EARLE
COLTS NECK, NJ

ECOR Solutions, Inc.
1075 Andrew Drive, Suite I, West Chester, PA 19380

SCALE IN FEET	DATE	FIGURE
0 — 80	06-30-06	5-1

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LEGEND

16MW-16 — MONITORING WELL LOCATION

(0.54) — LNAPL THICKNESS (ft)

LNAPL THICKNESS ISOCONTOUR (ft)

INFERRED ISOCONTOUR

LNAPL PLUME BOUNDARY BASED ON FORMER SCAPS STUDY

SOURCE: TETRATECH FOSTER WHEELER

LNAPL THICKNESS ISOCONTOUR MAP
24 APRIL 2006

U.S. NAVY
NWS- EARLE
COLTS NECK, NJ

ECOR Solutions, Inc.
1075 Andrew Drive, Suite I, West Chester, PA 19380

SCALE IN FEET	DATE	FIGURE
0 — 80	06-30-06	5-2

ECOR Solutions, Inc.

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LEGEND

16MW-16 — MONITORING WELL LOCATION

(0.46) — LNAPL THICKNESS (ft)

LNAPL THICKNESS ISOCONTOUR (ft)

INFERRED ISOCONTOUR

LNAPL PLUME BOUNDARY BASED ON FORMER SCAPS STUDY

SOURCE: TETRATECH FOSTER WHEELER

LNAPL THICKNESS ISOCONTOUR MAP
4 MAY 2006

U.S. NAVY
NWS- EARLE
COLTS NECK, NJ

ECOR Solutions, Inc.
1075 Andrew Drive, Suite I, West Chester, PA 19380

SCALE IN FEET	DATE	FIGURE
0 — 80	06-30-06	5-3

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TABLES

TABLE 1
NAVAL WEAPONS STATION-EARLE
BIOSLURPER UNITS
LNAPL EXTRACTION TO DATE

	1998 LNAPL 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 LNAPL 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	88 0
Total	240	65	140	75				48			80		648 0
	2000 LNAPL 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 LNAPL 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 LNAPL Extracted (gallons)												Year
	Jan	Feb	March	April	May	June	July	August	Sep	Oct	Nov	Dec	Total
Bioslurper System #1	52	21	11	16	34	62	53	87	16	10	17	7	386 0
Bioslurper System #2	6	0 5	0 5	5	2	6	2	5	0	0	4	9	40 0
Total	58	21 5	11 5	21	36	68	55	92	16	10	21	16	426 0
	2003 LNAPL Extracted (gallons)												Year
	Jan	Feb	March	April	May	June	July	August	Sep	Oct	Nov	Dec	Total
Bioslurper System #1	50 8	5 2	7 9	3 6	22 5	25 7	10	8 9	8 9	16 8	0	0	160 2
Bioslurper System #2	0 5	0 5	2 8	0	2 6	0	4	5 7	4 2	5 2	0	0	25 5
Total	51 3	5 7	10 6	3 6	25 1	25 7	14	14 6	13 1	22 0	0	0	185 7
	2004 LNAPL Extracted (gallons)												Year
	Jan	Feb	March	April	May	June	July	August	Sep	Oct	Nov	Dec	Total
Bioslurper System #1	0	13 6	10	9 5	5.5	0	0	0	0	0	0	0	38 6
Bioslurper System #2	0	4 2	4 2	2	1	0	0	0	0	0	0	0	11 4
Total	0	17 8	14 2	11 5	6 5	0	0	0	0	0	0	0	50 0
	2005 LNAPL Extracted (gallons)												Year
	Jan	Feb	March	April	May	June	July	August	Sep	Oct	Nov	Dec	Total
Bioslurper System #1	0	0	6 5	6 5	10 5	4	2	2	17	2	0 5	14 5	65 5
Bioslurper System #2	0	0	0	0	0	0	0	0	0	0	0	0	0 0
Total	0	0	6 5	6 5	10 5	4	2	2	17	2	0 5	14 5	65 5
	2006 LNAPL Extracted (gallons)												Year
	Jan	Feb	March	April	May	June	July	August	Sep	Oct	Nov	Dec	Total
Bioslurper System #1	10 5	4	0	4 5	72 5								91 5
Bioslurper System #2	0	0	0	0	0								0 0
Total	10 5	4	0	4 5	72 5								91 5

ND - no data due to system not in operation

Total LNAPL extracted to date (g): 5,036.2

Source Tetra Tech Foster Wheeler, Inc (data prior to March 2004)

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		2,675	26,169	23,898	12,799	0	0	16,498	34,612	29,974	20,503	40,611	207,739
Bioslurper System #2		5,282	20,586	22,607	6,584	0	0	13,537	14,451	27,850	16,196	9,141	136,234
Total		7,957	46,755	46,505	19,383	0	0	30,035	49,063	57,824	36,699	49,752	343,973
	1999 Groundwater Extracted (gallons)												Year
	Jan	Feb	March	April	May	June	July	August	Sep	Oct	Nov	Dec	Total
Bioslurper System #1	35,078	6,536	49,834	40,889	0	0	0	7,321	0	0	0	0	139,658
Bioslurper System #2	8,843	536	12,956		0	0	0		0	0	0	0	22,335
Total	43,921	7,072	62,790	40,889	0	0	0	7,321	0	0	0	0	161,993
	2000 Groundwater Extracted (gallons)												Year
	Jan	Feb	March	April	May	June	July	August	Sep	Oct	Nov	Dec	Total
Bioslurper System #1	3,393	4,618	9,842	10,945	2,764	14,112	19,758	23,298	36,900	31,669	27,785	30,231	215,315
Bioslurper System #2	0	0	0	0	0	2,976	5,549	17,704	21,156	21,588	0	20,848	89,821
Total	3,393	4,618	9,842	10,945	2,764	17,088	25,307	41,002	58,056	53,257	27,785	51,079	305,136
	2001 Groundwater Extracted (gallons)												Year
	Jan	Feb	March	April	May	June	July	August	Sep	Oct	Nov	Dec	Total
Bioslurper System #1	25,897	30,981	33,832	0	0	0	2,812	12,136	7,669	1,665	4,635	3,080	122,707
Bioslurper System #2	0	15,852	19,914	0	0	0	0	0	2,967	6,814	1,277	345	47,169
Total	25,897	46,833	53,746	0	0	0	2,812	12,136	10,636	8,479	5,912	3,425	169,876
	2002 Groundwater Extracted (gallons)												Year
	Jan.	Feb	March	April	May	June	July	August	Sep	Oct	Nov	Dec	Total
Bioslurper System #1	13,137	9,292	16,151	12,749	24,926	19,641	24,875	31,129	10,390	19,562	4,854	7,694	194,400
Bioslurper System #2	1,095	1,224	5,726	7,639	7,727	6,464	5,362	5,977	289	0	4,771	4,772	51,046
Total	14,232	10,516	21,877	20,388	32,653	26,105	30,237	37,106	10,679	19,562	9,625	12,466	245,446
	2003 Groundwater Extracted (gallons)												Year
	Jan	Feb	March	April	May	June	July	August	Sep	Oct	Nov	Dec	Total
Bioslurper System #1	22,799	28,656	14,682	18,084	20,199	28,439	15,990	25,071	13,448	13,615	1,984	0	202,967
Bioslurper System #2	10,546	1,614	6,325	14,649	4,303	6,546	4,930	4,938	2,924	1,190	1,103	480	59,548
Total	33,345	30,270	21,007	32,733	24,502	34,985	20,920	30,009	16,372	14,805	3,087	480	262,515
	2004 Groundwater Extracted (gallons)												Year
	Jan	Feb	March	April	May	June	July	August	Sep	Oct	Nov	Dec	Total
Bioslurper System #1	3,648	5,235	20,986	9,573	30,020	31,821	38,634	44,162	0	0	0	0	184,079
Bioslurper System #2	3,954	5,692	7,370	35,264	33,154	34,911	20,298	23,613	26,708	36,885	19,126	0	246,975
Total	7,602	10,927	28,356	44,837	63,174	66,732	58,932	67,775	26,708	36,885	19,126	0	431,054
	2005 Groundwater Extracted (gallons)												Year
	Jan	Feb	March	April	May	June	July	August	Sep	Oct	Nov	Dec	Total
Bioslurper System #1	0	1,902	34,308	91,540	59,848	54,040	28,174	11,505	29,254	6,680	13,615	44,443	375,309
Bioslurper System #2	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	1,902	34,308	91,540	59,848	54,040	28,174	11,505	29,254	6,680	13,615	44,443	375,309
	2006 Groundwater Extracted (gallons)												Year
	Jan.	Feb	March	April	May	June	July	August	Sep	Oct	Nov	Dec	Total
Bioslurper System #1	19,792	7,090	12,963	2,364	11,814								54,023
Bioslurper System #2	0	0	0	0	0								0
Total	19,792	7,090	12,963	2,364	11,814								54,023

Total Groundwater Extracted to Date = 2,349,325

Source Tetra Tech Foster Wheeler, Inc (data prior to March 2004)

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	0 00	0 00	47 30	ND	175 99	179 16	192 96	1223 28
Bioslurper System #2		4 25	14 17	32 40	9 61	0 00	0 00	ND	13 99	2 37	4 26	11 48	92 53
Total		65 00	139 31	338 82	145.17	0 00	0 00	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	0 00	0 00	0 00	0 00	0 00	0 00	0 29	0 00	796 52
Bioslurper System #2	3 84	0 21	29 30	15 20	0 00	0 00	0 00	0 00	0 00	0 00	0 01	0 00	48 56
Total	64 32	56 39	423 58	300 49	0 00	0 00	0 00	0 00	0 00	0 00	0 30	0 00	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	0 00	17 20	30 99	0 00	31 80	18 14	0 00	95 47	160 86	92 04	327 49	782 56
Bioslurper System #2	0 01	0 00	0 00	0 00	0 00	0 11	0 40	0 00	2 63	37 55	0 00	21 71	62 40
Total	8 59	0 00	17 20	30 99	0 00	31 91	18 53	0 00	98 10	198 40	92 04	349 20	844 96
	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	0 00	0 00	0 00	0 07	52 80	2 61	2 25	2 97	10 82	201 42
Bioslurper System #2	ND	8 59	59 43	0 00	0 00	0 00	0 00	0 00	1 12	3 73	0 13	0 01	73 01
Total	34 31	53 63	109 97	0 00	0 00	0 00	0 07	52 80	3 73	5 98	3 10	10 83	274 42
	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	7 60	581 16	73 62	68 41	19 99	2 27	22 60	908 30
Bioslurper System #2	2 40	0 18	4 68	0 75	5 08	1.60	2 77	1 13	0 02	ND	1 43	3 54	23 58
Total	42 75	21 53	18 19	36 61	26 66	9 20	583 93	74 75	68 43	19 99	3 70	26 14	931 88
	2003 TPH Removed via Groundwater Treatment (pounds)												Year
	Jan	Feb	March	April	May	June	July	August	Sep	Oct	Nov	Dec	Total
Bioslurper System #1	95 99	135 13	53 06	25 56	39 69	38 69	76 87	0 26	17 06	14 66	0 00	0 00	496 97
Bioslurper System #2	ND	0 28	0 64	4 84	0 38	0 91	0 22	0 09	0 16	0 27	0 03	0 07	7 89
Total	95 99	135 41	53 70	30 40	40 07	39 60	77 09	0 35	17 22	14 93	0 03	0 07	504 86
	2004 TPH Removed via Groundwater Treatment (pounds)												Year
	Jan	Feb	March	April	May	June	July	August	Sep	Oct	Nov	Dec	Total
Bioslurper System #1	5 36	25 17	17 27	11 74	80 17	45 15	65 78	62 29	0 00	0 00	0 00	0 00	312.93
Bioslurper System #2	0 12	0 19	0 49	4 44	1 88	5 19	3 42	6 74	0 71	40 42	12 28	0 00	75 88
Total	5 48	25 36	17 76	16 18	82 05	50 34	69 20	69 03	0 71	40 42	12 28	0 00	388 81
	2005 TPH Removed via Groundwater Treatment (pounds)												Year
	Jan	Feb	March	April	May	June	July	August	Sep	Oct	Nov	Dec	Total
Bioslurper System #1	0 00	0 91	26 14	86 94	32 92	11 23	11 05	4 66	0 50	0 77	8 77	28 41	212 30
Bioslurper System #2	0 00	0.00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00
Total	0 00	0 91	26 14	86 94	32 92	11 23	11 05	4 66	0 50	0 77	8 77	28 41	212 30
	2006 TPH Removed via Groundwater Treatment (pounds)												Year
	Jan	Feb	March	April	May	June	July	August	Sep	Oct	Nov	Dec	Total
Bioslurper System #1	73 18	2 53	5 36	1 18	3.14								85 39
Bioslurper System #2	0 00	0 00	0 00	0 00	0 00								0 00
Total	73 18	2 53	5 36	1 18	3 14								85 39

Pounds of TPH Removed via Groundwater Treatment to Date = 5,403.52

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

Source Tetra Tech Foster Wheeler, Inc. (data prior to March 2004)

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

Sample	Unit No. 1		Unit No. 2	
Date	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	1301	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
03/29/02	16(A)EW41	16(A)EW42	16(B)EW13	16(B)EW14
	101	0.81	98.1	0.24
04/23/02	16(A)EW43	16(A)EW44	16(B)EW15	0.24
	338	0.96	12	0.19

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

Sample	Unit No. 1		Unit No. 2	
Date	Before Clay/Carbon	After Clay/Carbon	Before Clay/Carbon	After Clay/Carbon
05/29/02	16(A)EW45	16(A)EW46	16(B)EW17	16(B)EW18
	104	0.28	78.9	0.076
06/28/02	16(A)EW47	16(A)EW48	16(B)EW19	16(B)EW20
	46.6	0.23	29.7	0.11
07/29/02	16(A)EW49	16(A)EW50	16(B)EW21	16(B)EW22
	2800	0.63	62.5	0.54
08/28/02	16(A)EW51	16(A)EW52	16(B)EW23	16(B)EW24
	284	0.61	23.3	0.74
09/30/02	16(A)EW53	16(A)EW54	16(B)EW25	16(B)EW26
	790	1.09	8.8	0.5
10/29/02	16(A)EW55	16(A)EW56	16(B)EW27	16(B)EW28
	124	1.57	97	3.12
11/26/02	16(A)EW57	16(A)EW58	16(B)EW29	16(B)EW30
	56	<0.16	36	<0.17
12/30/02	16(A)EW59	16(A)EW60	16(B)EW31	16(B)EW32
	352	<0.16	89	<0.16
02/03/03	16(A)EW61	16(A)EW62	16(B)EW31	16(B)EW32
	506	1.52	NA	NA
02/26/03	16(A)EW63	16(A)EW64	16(B)EW33	16(B)EW34
	565	<0.17	20.9	<0.16
03/31/03	16(A)EW67	16(A)EW68	16(B)EW33	16(B)EW34
	433	<0.18	12.2	<0.16
04/29/03	16(A)EW69	16(A)EW70	16(B)EW35	16(B)EW36
	176	<0.16	39.6	<0.16
05/23/03	16(A)EW71	16(A)EW72	16(B)EW37	16(B)EW38
	235.61	0.17	10.56	0.03
06/30/03	16(A)EW73	16(A)EW74	16(B)EW39	16(B)EW40
	163	<0.16	16.7	<0.16
07/29/03	16(A)EW77	16(A)EW78	16(B)EW43	16(B)EW44
	576	<0.18	5.25	<0.17
08/27/03	16(A)EW77	16(A)EW78	16(B)EW43	16(B)EW44
	1.4	<0.17	2.2	<0.17
09/30/03	16(A)EW79	16(A)EW80	16(B)EW45	16(B)EW46
	152	<0.18	6.42	<0.17
10/22/03 (1)	16(A)EW81	16(A)EW82	16(B)EW47	16(B)EW48
	129	<0.17	27.5	<0.17
12/8/03 (2)	no sample	no sample	16(B)EW49	16(B)EW50
			3.05	<0.17
12/30/03	16(A)EW83	16(A)EW84	16(B)EW51	16(B)EW52
	71.7	<0.17	18.7	<0.16
01/30/04	16(A)EW85	16(A)EW86	16(B)EW53	16(B)EW54
	176	<0.16	3.58	<0.16
02/27/04	16(A)EW87	16(A)EW88	16(B)EW55	16(B)EW56
	576	<0.16	4.45	<0.16

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

Sample	Unit No. 1		Unit No. 2	
Date	Before Clay/Carbon	After Clay/Carbon	Before Clay/Carbon	After Clay/Carbon
03/30/04	16(A)EW89	16(A)EW90	16(B)EW57	16(B)EW58
	98.6	<0.17	7.92	0.19
04/21/04	BS-1 Influent	BS-1 Final Effluent	BS-2 Influent	BS-2 Final Effluent
	147	<1.0	15.1	<1.0
05/26/04	BS-1 Influent	BS-1 Final Effluent	BS-2 Influent	BS-2 Final Effluent
	320	17	6.8	<1.0
06/16/04	BS-1 Influent	BS-1 Final Effluent	BS-2 Influent	BS-2 Final Effluent
	170	<1.0	17.8	<1.0
07/27/04	BS-1 Influent	BS-1 Final Effluent	BS-2 Influent	BS-2 Final Effluent
	204	<1.0	20.2	<1.0
08/18/04	BS-1 Influent	BS-1 Final Effluent	BS-2 Influent	BS-2 Final Effluent
	317	148	34.2	<1.0
10/12/2004 (3)	BS-1 Influent	BS-1 Final Effluent	BS-2 Influent	BS-2 Final Effluent
	Not Operating	Not Operating	3.2	ND
10/26/04	BS-1 Influent	BS-1 Final Effluent	BS-2 Influent	BS-2 Final Effluent
	Not Operating	Not Operating	143	11.7
11/10/04	BS-1 Influent	BS-1 Final Effluent	BS-2 Influent	BS-2 Final Effluent
	Not Operating	Not Operating	76.9	ND
Dec 2004	BS-1 Influent	BS-1 Final Effluent	BS-2 Influent	BS-2 Final Effluent
	Not Operating	Not Operating	Deactivated	Deactivated
Jan 2005	BS-1 Influent	BS-1 Final Effluent	BS-2 Influent	BS-2 Final Effluent
	Not Operating	Not Operating	Deactivated	Deactivated
02/17/05	BS-1 Influent	BS-1 Final Effluent	BS-2 Influent	BS-2 Final Effluent
	57.3	ND	Deactivated	Deactivated
03/02/05	BS-1 Influent	BS-1 Final Effluent	BS-2 Influent	BS-2 Final Effluent
	91.3	ND	Deactivated	Deactivated
04/13/05	BS-1 Influent	BS-1 Final Effluent	BS-2 Influent	BS-2 Final Effluent
	118	4.2	Deactivated	Deactivated
05/18/05	BS-1 Influent	BS-1 Final Effluent	BS-2 Influent	BS-2 Final Effluent
	95.3	29.4	Deactivated	Deactivated
05/31/05	BS-1 Influent	BS-1 Final Effluent	BS-2 Influent	BS-2 Final Effluent
	Not Sampled	ND	Deactivated	Deactivated
06/17/05	BS-1 Influent	BS-1 Final Effluent	BS-2 Influent	BS-2 Final Effluent
	24.9	ND	Deactivated	Deactivated
7/18/05 (4)	BS-1 Influent	BS-1 Final Effluent	BS-2 Influent	BS-2 Final Effluent
	47.0	ND	Deactivated	Deactivated
8/10/2005 (4)	BS-1 Influent	BS-1 Final Effluent	BS-2 Influent	BS-2 Final Effluent
	19.8	ND	Deactivated	Deactivated
09/21/05	BS-1 Influent	BS-1 Final Effluent	BS-2 Influent	BS-2 Final Effluent
	9.0	ND	Deactivated	Deactivated
10/12/05	BS-1 Influent	BS-1 Final Effluent	BS-2 Influent	BS-2 Final Effluent
	6.8	ND	Deactivated	Deactivated

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

Sample	Unit No. 1		Unit No. 2	
Date	Before Clay/Carbon	After Clay/Carbon	Before Clay/Carbon	After Clay/Carbon
11/09/05	BS-1 Influent	BS-1 Final Effluent	BS-2 Influent	BS-2 Final Effluent
	35.9	ND	Deactivated	Deactivated
12/07/06	BS-1 Influent	BS-1 Final Effluent	BS-2 Influent	BS-2 Final Effluent
	76.6	ND	Deactivated	Deactivated
1/20&27/06 (5)	BS-1 Influent	BS-1 Final Effluent	BS-2 Influent	BS-2 Final Effluent
	443.0	ND	Deactivated	Deactivated
02/23/06	BS-1 Influent	BS-1 Final Effluent	BS-2 Influent	BS-2 Final Effluent
	42.8	ND	Deactivated	Deactivated
03/14/06	BS-1 Influent	BS-1 Final Effluent	BS-2 Influent	BS-2 Final Effluent
	49.5	ND	Deactivated	Deactivated
04/12/06	BS-1 Influent	BS-1 Final Effluent	BS-2 Influent	BS-2 Final Effluent
	60.0	ND	Deactivated	Deactivated
05/17/06	BS-1 Influent	BS-1 Final Effluent	BS-2 Influent	BS-2 Final Effluent
	31.8	ND	Deactivated	Deactivated

NOTES

All units are in milligrams per liter (mg/L).

The NWS Earle Sewer Treatment Plant Discharge Limit is 10 mg/L.

NA - Not available (no sample collected) ND - Not detected above laboratory detection limit

(1) Unit #1 and #2 were not operating at the time of sample collection (month end) in October 2003

(2) Samples collected 12/8/03 were for November operating period. Unit #1 was not operating at time of sample collection.

(3) System samples were inadvertently not collected during September 2004. Two sampling events were conducted in October 2004. The 12 October 2004 sampling data is presented for September 2004.

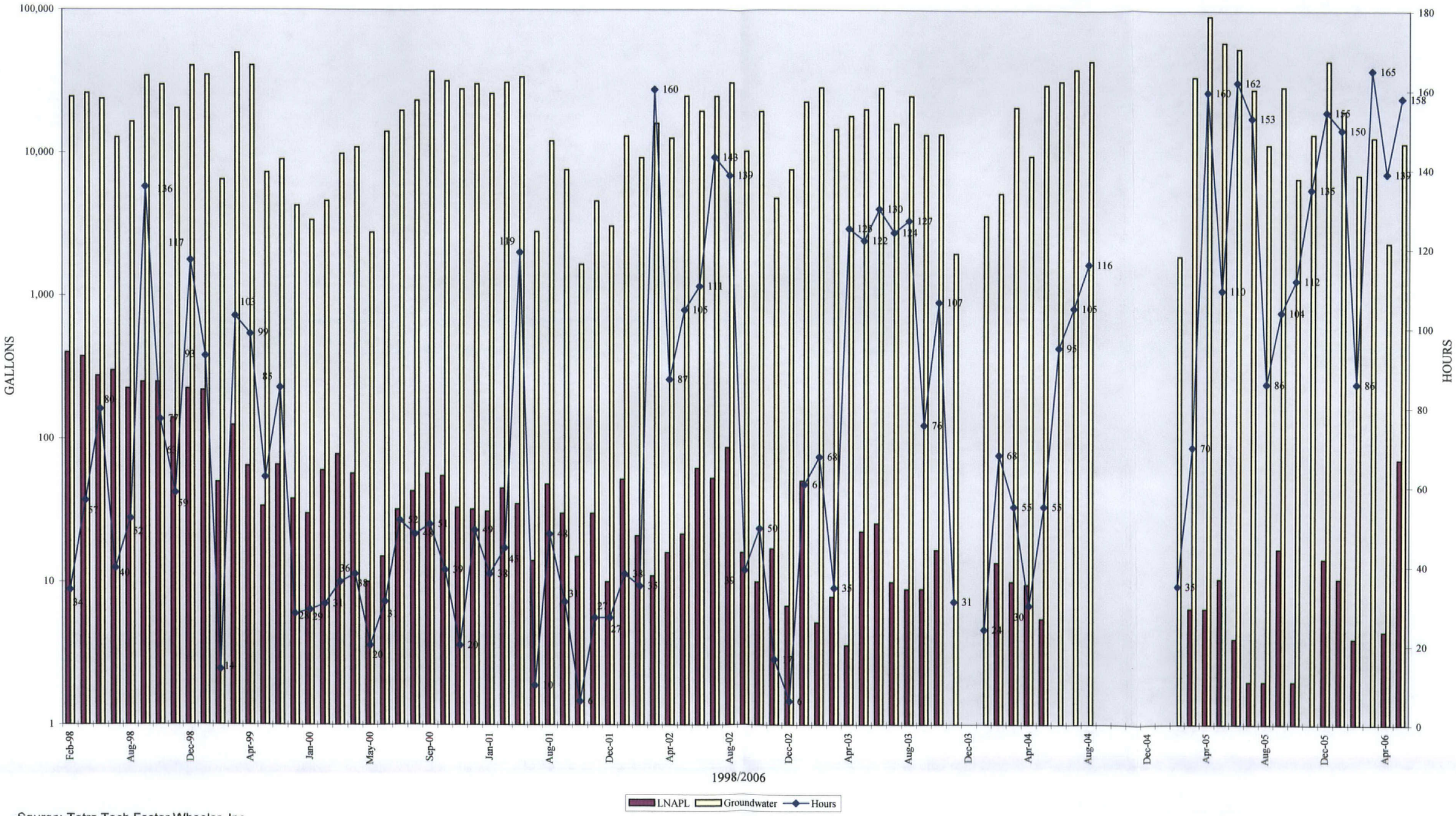
(4) Unit #1 influent and midfluent samples appear to have been switched during the July and August 2005 event. The data as presented are corrected.

(5) The influent sample was collected on 1/20/06 and the effluent sample was collected on 1/27/06.

Source: Tetra Tech Foster Wheeler, Inc. (data prior to March 2004)

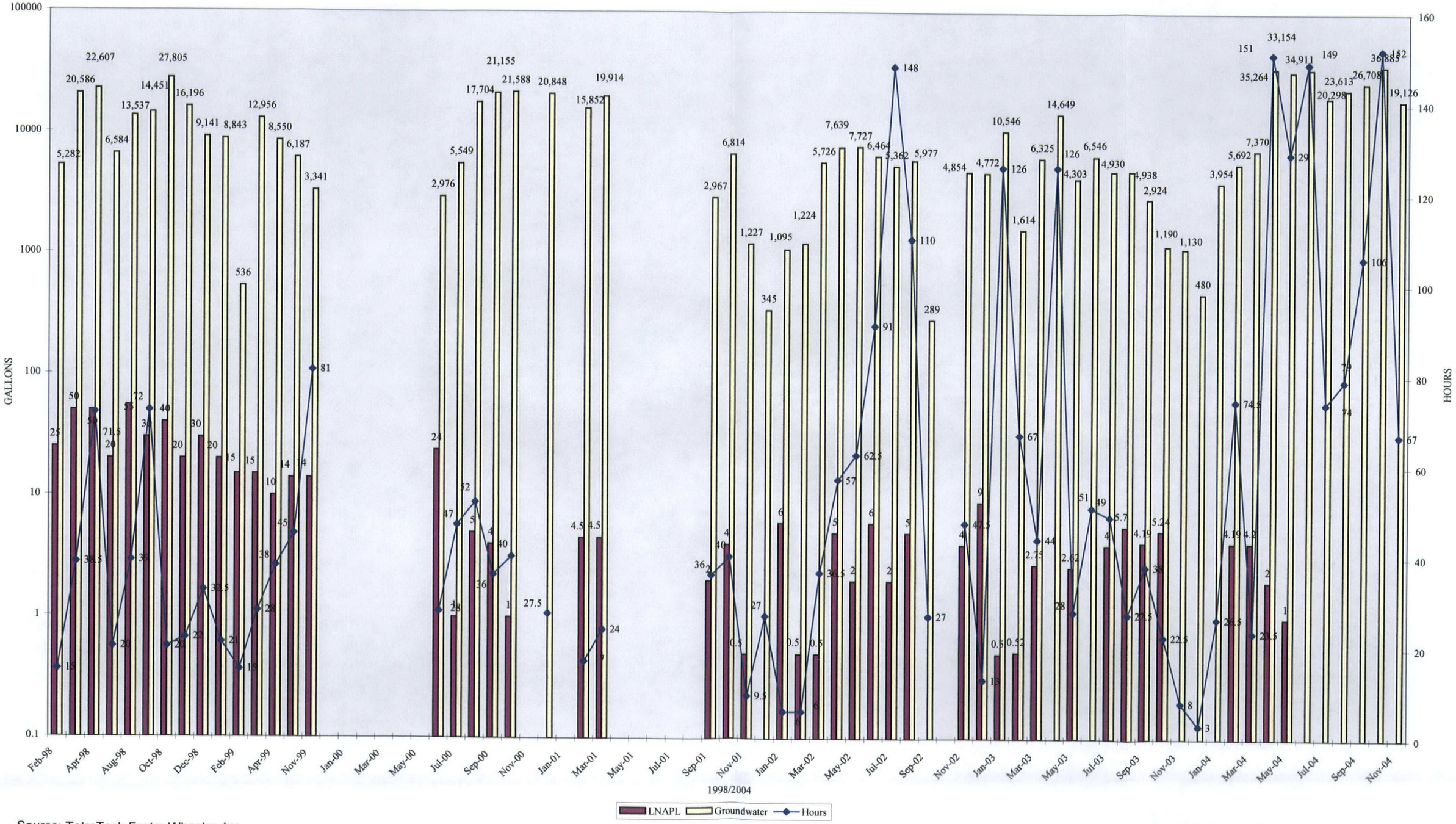
APPENDIX A
GRAPHS OF LNAPL/WATER EXTRACTED TO DATE

BIOSLURPER UNIT 1 LNAPL/WATER RECOVERED VERSUS OPERATIONAL TIME



Source: Tetra Tech Foster Wheeler, Inc.
Data prior to April 2004

BIOSLURPER UNIT 2 LNAPL/WATER RECOVERED VERSUS OPERATIONAL TIME



Source: TetraTech Foster Wheeler, Inc.
Data prior to April 2004

APPENDIX B
GROUNDWATER LEVELS AND LNAPL THICKNESS DATA FROM EXTRACTION WELLS

APPENDIX B
NAVAL WEAPONS STATION EARLE
BIOSLURPER UNITS
GROUNDWATER LEVEL AND LNAPL THICKNESS DATA

Well ID	Date	Top of Casing (feet)	Depth to Water (feet)	Groundwater Elevation (feet)	Depth to LNAPL (feet)	LNAPL Thickness (feet)	Corrected Elevation (feet)
16MW-04	8/20/1997	101.23	13.65	87.58	14.23	0.58	88.07
16MW-04	12/12/1997	101.23	11.55	89.68	12.34	0.79	90.35
16MW-04	1/7/1998	101.23	11.85	89.38	12.89	1.04	90.26
16MW-04	1/15/1998	101.23	9.49	91.74	9.87	0.38	92.06
16MW-04	2/10/1998	101.23	10.78	90.45	11.72	0.94	91.25
16MW-04	2/24/1998	101.23	8.78	92.45	9.35	0.57	92.93
16MW-04	3/3/1998	101.23	10.45	90.78	11.45	1.00	91.63
16MW-04	3/12/1998	101.23	9.62	91.61	10.51	0.89	92.36
16MW-04	3/13/1998	101.23	9.15	92.08	9.87	0.72	92.69
16MW-04	3/26/1998	101.23	6.76	94.47	7.60	0.84	95.19
16MW-04	4/3/1998	101.23	8.40	92.83	8.85	0.45	93.21
16MW-04	4/9/1998	101.23	6.90	94.33	6.91	0.01	94.34
16MW-04	4/17/1998	101.23	7.06	94.17	7.10	0.04	94.20
16MW-04	4/24/1998	101.23	0.00	101.23	-	0.00	101.23
16MW-04	5/5/1998	101.23	8.40	92.83	8.89	0.49	93.25
16MW-04	5/15/1998	101.23	8.20	93.03	8.85	0.65	93.59
16MW-04	7/30/1998	101.23	10.15	91.08	10.77	0.62	91.61
16MW-04	8/7/1998	101.23	9.17	92.06	9.44	0.27	92.29
16MW-04	8/13/1998	101.23	8.50	92.73	8.52	0.02	92.75
16MW-04	8/21/1998	101.23	9.20	92.03	9.39	0.19	92.19
16MW-04	9/3/1998	101.23	9.44	91.79	9.67	0.23	91.99
16MW-04	9/10/1998	101.23	9.57	91.66	9.81	0.24	91.86
16MW-04	10/2/1998	101.23	9.65	91.58	9.88	0.23	91.78
16MW-04	10/20/1998	101.23	9.85	91.38	10.11	0.26	91.60
16MW-04	11/6/1998	101.23	9.66	91.57	9.82	0.16	91.71
16MW-04	12/3/1998	101.23	9.93	91.30	10.17	0.24	91.50
16MW-04	12/30/1998	101.23	9.40	91.83	9.48	0.08	91.90
16MW-04	1/26/1999	101.23	8.26	92.97	8.33	0.07	93.03
16MW-04	2/10/1999	101.23	8.92	92.31	9.11	0.19	92.47
16MW-04	3/3/1999	101.23	8.49	92.74	8.55	0.06	92.79
16MW-04	3/9/1999	101.23	8.28	92.95	8.30	0.02	92.97
16MW-04	3/19/1999	101.23	8.40	92.83	8.52	0.12	92.93
16MW-04	4/20/1999	101.23	8.45	92.78	8.59	0.14	92.90
16MW-04	5/7/1999	101.23	8.52	92.71	8.60	0.08	92.78
16MW-04	6/9/1999	101.23	8.99	92.24	-	0.00	92.24
16MW-04	6/9/1999	101.23	9.77	91.46	10.04	0.27	91.69
16MW-04	6/14/1999	101.23	9.52	91.71	9.71	0.19	91.87
16MW-04	6/22/1999	101.23	9.55	91.68	9.74	0.19	91.84
16MW-04	7/29/1999	101.23	10.43	90.80	10.64	0.21	90.97
16MW-04	8/3/1999	101.23	10.51	90.72	10.71	0.20	90.89
16MW-04	8/13/1999	101.23	10.62	90.61	10.82	0.20	90.78
16MW-04	9/3/1999	101.23	9.80	91.43	9.84	0.04	91.46
16MW-04	9/15/1999	101.23	10.34	90.89	10.50	0.16	91.03
16MW-04	10/26/1999	101.23	10.30	90.93	10.66	0.36	91.23
16MW-04	11/2/1999	101.23	10.60	90.63	10.99	0.39	90.96
16MW-04	11/12/1999	101.23	10.05	91.18	10.26	0.21	91.36
16MW-04	11/18/1999	101.23	10.39	90.84	10.66	0.27	91.07
16MW-04	12/1/1999	101.23	9.60	91.63	9.86	0.26	91.85
16MW-04	12/31/1999	101.23	10.03	91.20	10.32	0.29	91.45
16MW-04	1/26/2000	101.23	10.04	91.19	10.26	0.22	91.38
16MW-04	2/18/2000	101.23	9.44	91.79	9.59	0.15	91.92
16MW-04	4/17/2000	101.23	9.10	92.13	9.23	0.13	92.24
16MW-04	5/4/2000	101.23	8.42	92.81	8.58	0.16	92.95
16MW-04	8/9/2000	101.23	10.00	91.23	10.42	0.42	91.59
16MW-04	8/24/2000	101.23	9.91	91.32	10.17	0.26	91.54
16MW-04	11/28/2000	101.23	9.30	91.93	9.37	0.07	91.99
16MW-04	1/16/2001	101.23	9.10	92.13	9.14	0.04	92.16
16MW-04	2/27/2001	101.23	8.61	92.62	8.61	0.00	92.62
16MW-04	3/27/2001	101.23	8.25	92.98	8.55	0.30	93.24
16MW-04	4/19/2001	101.23	9.17	92.06	9.61	0.44	92.43

APPENDIX B
NAVAL WEAPONS STATION EARLE
BIOSLURPER UNITS
GROUNDWATER LEVEL AND LNAPL THICKNESS DATA

Well ID	Date	Top of Casing (feet)	Depth to Water (feet)	Groundwater Elevation (feet)	Depth to LNAPL (feet)	LNAPL Thickness (feet)	Corrected Elevation (feet)
16MW-04	5/11/2001	101.23	9.76	91.47	10.21	0.45	91.86
16MW-04	6/6/2001	101.23	9.89	91.34	10.30	0.41	91.69
16MW-04	8/14/2001	101.23	9.33	91.90	9.38	0.05	91.94
16MW-04	9/14/2001	101.23	10.08	91.15	10.22	0.14	91.27
16MW-04	10/11/2001	101.23	9.97	91.26	10.03	0.06	91.31
16MW-04	11/13/2001	101.23	10.27	90.96	10.37	0.10	91.05
16MW-04	12/13/2001	101.23	9.76	91.47	9.79	0.03	91.49
16MW-04	2/28/2002	101.23	10.11	91.12	10.17	0.06	91.17
16MW-04	3/28/2002	101.23	9.27	91.96	9.31	0.04	91.99
16MW-04	4/23/2002	101.23	9.63	91.60	9.68	0.05	91.64
16MW-04	5/15/2002	101.23	9.30	91.93	9.33	0.03	91.96
16MW-04	6/8/2002	101.23	9.48	91.75	-	0.00	91.75
16MW-04	6/27/2002	101.23	9.73	91.50	9.81	0.08	91.56
16MW-04	7/16/2002	101.23	10.06	91.17	10.07	0.01	91.17
16MW-04	8/15/2002	101.23	10.90	90.33	11.43	0.53	90.78
16MW-04	9/10/2002	101.23	9.76	91.47	9.76	0.00	91.47
16MW-04	10/18/2002	101.23	8.65	92.58	9.20	0.55	93.05
16MW-04	11/14/2002	101.23	9.07	92.16	9.13	0.06	92.21
16MW-04	11/26/2002	101.23	8.90	92.33	8.95	0.05	92.37
16MW-04	12/16/2002	101.23	8.90	92.33	9.03	0.13	92.44
16MW-04	1/28/2003	101.23	8.55	92.68	8.56	0.01	92.69
16MW-04	2/26/2003	101.23	8.30	92.93	8.40	0.10	93.01
16MW-04	3/31/2003	101.23	7.90	93.33	7.92	0.02	93.35
16MW-04	4/29/2003	101.23	7.92	93.31	7.99	0.07	93.37
16MW-04	5/23/2003	101.23	8.20	93.03	8.22	0.02	93.04
16MW-04	8/1/2003	101.23	8.88	92.35	9.03	0.15	92.48
16MW-04	8/26/2003	101.23	9.12	92.11	9.28	0.16	92.24
16MW-04	9/17/2003	101.23	8.69	92.54	-	0.00	92.54
16MW-04	10/28/2003	101.23	8.90	92.33	-	0.00	92.33
16MW-04	11/11/2003	101.23	8.84	92.39	8.93	0.09	92.47
16MW-04	12/30/2003	101.23	8.60	92.63	8.83	0.23	92.82
16MW-04	1/16/2004	101.23	8.60	92.63	8.71	0.11	92.73
16MW-04	2/18/2004	101.23	8.80	92.43	9.05	0.25	92.64
16MW-04	3/24/2004	101.23	8.27	92.96	7.75	0.25	93.17
16MW-04	4/5/2004	101.23	8.21	93.02	7.51	0.70	93.62
16MW-04	5/5/2004	101.23	8.70	92.53	7.10	1.60	93.89
16MW-04	6/29/2004	101.23	8.87	92.36	8.63	0.24	92.56
16MW-04	7/27/2004	101.23	8.35	92.88	8.28	0.07	92.94
16MW-04	8/18/2004	101.23	9.20	92.03	8.80	0 40	92.37
16MW-04	9/1/2004	101.23	9.10	92.13	9.00	0.10	92.22
16MW-04	10/19/2004	101.23	9.15	92.08	9.00	0.15	92.21
16MW-04	11/23/2004	101.23	9.20	92.03	8.75	0.45	92.41
16MW-04	12/16/2004	101.23	9.35	91.88	8.06	1.29	92.98
16MW-04	1/12/2005	101.23	9.21	92.02	8.08	1.13	92.98
16MW-04	2/17/2005	101.23	8.64	92.59	7.75	0.89	93.35
16MW-04	3/2/2005	101.23	10.10	91.13	7.72	2.38	93.16
16MW-04	4/5/2005	101.23	7.81	93.42	7.22	0.59	93.92
16MW-04	5/13/2005	101.23	7.32	93.91	7.21	0.11	94.00
16MW-04	6/8/2005	101.23	8.12	93.11	8.02	0.10	93.20
16MW-04	7/27/2005	101.23	8.70	92.53	-	0.00	92.53
16MW-04	8/17/2005	101.23	8.25	92.98	-	0.00	92.98
16MW-04	9/21/2005	101.23	10.73	90.50	10.70	0.03	90.53
16MW-04	11/9/2005	101.23	8.60	92.63	8.00	0.60	93.14
16MW-04	12/14/2005	101.23	7.96	93.27	7.82	0.14	93.39
16MW-04	1/20/2006	101.23	7.95	93.28	7.05	0.90	94.05
16MW-04	2/28/2006	101.23	7.35	93.88	6.89	0.46	94.27
16MW-04	3/8/2006	101.23	7.27	93.96	6.78	0.49	94.38
16MW-04	4/28/2006	101.23	8.61	92.62	8.07	0.54	93.08
16MW-04	5/4/2006	101.23	8.46	92.77	7.92	0.54	93.23

APPENDIX B
NAVAL WEAPONS STATION EARLE
BIOSLURPER UNITS
GROUNDWATER LEVEL AND LNAPL THICKNESS DATA

Well ID	Date	Top of Casing (feet)	Depth to Water (feet)	Groundwater Elevation (feet)	Depth to LNAPL (feet)	LNAPL Thickness (feet)	Corrected Elevation (feet)
16MW-13	8/20/1997	100.97	10.90	90.07	11.70	0.80	90.75
16MW-13	10/6/1997	100.97	11.10	89.87	11.85	0.75	90.51
16MW-13	12/12/1997	100.97	10.50	90.47	11.15	0.65	91.02
16MW-13	1/7/1998	100.97	10.22	90.75	10.95	0.73	91.37
16MW-13	1/15/1998	100.97	10.29	90.68	11.04	0 75	91.31
16MW-13	2/10/1998	100.97	10.01	90.96	10.89	0.88	91.71
16MW-13	2/24/1998	100.97	8.82	92.15	9.54	0.72	92.76
16MW-13	3/3/1998	100.97	10.02	90 95	11.06	1.04	91.84
16MW-13	3/12/1998	100.97	9.67	91.30	10.70	1.03	92.17
16MW-13	3/13/1998	100.97	9.02	91.95	9.83	0.81	92.64
16MW-13	3/26/1998	100.97	7.05	93.92	7.35	0.30	94.18
16MW-13	4/3/1998	100.97	7.72	93.25	8.14	0.42	93.61
16MW-13	4/9/1998	100.97	7.34	93.63	7.61	0.27	93.86
16MW-13	4/17/1998	100.97	6.95	94.02	7.13	0.18	94.17
16MW-13	4/24/1998	100.97	8.16	92.81	8.74	0.58	93.30
16MW-13	5/5/1998	100.97	8.85	92.12	9.61	0.76	92.77
16MW-13	5/15/1998	100.97	7.09	93.88	7.61	0.52	94.32
16MW-13	7/30/1998	100.97	10.25	90.72	11.07	0.82	91.42
16MW-13	8/7/1998	100.97	8.57	92.40	8.83	0.26	92.62
16MW-13	8/13/1998	100.97	8.36	92.61	8.51	0.15	92.73
16MW-13	8/21/1998	100.97	8.84	92.13	9.11	0.27	92.36
16MW-13	9/3/1998	100.97	8.69	92.28	8.87	0.18	92.43
16MW-13	9/10/1998	100.97	8.71	92.26	8.86	0.15	92.39
16MW-13	10/2/1998	100.97	9.23	91.74	9.50	0.27	91.97
16MW-13	10/20/1998	100.97	8.88	92.09	9.02	0.14	92.21
16MW-13	11/6/1998	100.97	9.01	91.96	9.15	0.14	92.08
16MW-13	12/3/1998	100.97	8.95	92.02	9.06	0.11	92.11
16MW-13	12/30/1998	100.97	9.29	91.68	9.49	0.20	91.85
16MW-13	1/26/1999	100.97	8.10	92.87	8.28	0.18	93.03
16MW-13	2/10/1999	100.97	9.00	91.97	9.38	0.38	92.29
16MW-13	3/3/1999	100.97	8.13	92.84	8.24	0.11	92.93
16MW-13	3/9/1999	100.97	8.17	92.80	8.31	0.14	92.92
16MW-13	3/19/1999	100.97	7.97	93.00	8.13	0.16	93.13
16MW-13	4/20/1999	100.97	8.00	92.97	8.15	0.15	93.09
16MW-13	5/7/1999	100.97	8.45	92.52	8.59	0.14	92.64
16MW-13	6/9/1999	100.97	7.76	93.21	7.77	0.01	93.21
16MW-13	6/9/1999	100.97	9.80	91.17	10.24	0.44	91.54
16MW-13	6/10/1999	100.97	9.20	91.77	9.30	0.10	91.85
16MW-13	6/14/1999	100.97	9.52	91.45	9.87	0.35	91.75
16MW-13	6/22/1999	100.97	9.76	91.21	10.17	0.41	91.56
16MW-13	7/29/1999	100.97	10.83	90.14	11.32	0.49	90.56
16MW-13	8/3/1999	100.97	10.90	90.07	11.38	0.48	90.47
16MW-13	8/13/1999	100.97	11.03	89.94	11.51	0.48	90.35
16MW-13	9/3/1999	100.97	9.15	91.82	9.18	0.03	91.85
16MW-13	9/15/1999	100.97	9.41	91.56	9.46	0.05	91.60
16MW-13	10/26/1999	100.97	10.24	90.73	10.74	0.50	91.15
16MW-13	11/2/1999	100.97	10.47	90.50	10.99	0.52	90.94
16MW-13	11/12/1999	100.97	10.07	90.90	10.44	0.37	91.21
16MW-13	11/18/1999	100.97	10.36	90.61	10.78	0.42	90.96
16MW-13	12/1/1999	100.97	10.26	90.71	10.69	0.43	91.07
16MW-13	12/31/1999	100.97	10.12	90.85	10.59	0.47	91.25
16MW-13	1/26/2000	100.97	10.06	90.91	10.44	0.38	91.24
16MW-13	2/18/2000	100.97	8.94	92.03	9.10	0.16	92.17
16MW-13	4/17/2000	100.97	8.87	92.10	9.08	0.21	92.27
16MW-13	5/4/2000	100.97	7.94	93.03	8.04	0.10	93.12
16MW-13	8/9/2000	100.97	8.68	92.29	8.93	0.25	92.50
16MW-13	8/24/2000	100.97	8.71	92.26	8.79	0.08	92.33
16MW-13	10/26/2000	100.97	9.03	91.94	9.10	0.07	92.00
16MW-13	11/28/2000	100.97	9.80	91.17	9.90	0.10	91.26
16MW-13	1/16/2001	100.97	9.03	91.94	9.20	0.17	92.08

APPENDIX B
NAVAL WEAPONS STATION EARLE
BIOSLURPER UNITS
GROUNDWATER LEVEL AND LNAPL THICKNESS DATA

Well ID	Date	Top of Casing (feet)	Depth to Water (feet)	Groundwater Elevation (feet)	Depth to LNAPL (feet)	LNAPL Thickness (feet)	Corrected Elevation (feet)
16MW-13	2/27/2001	100.97	8.05	92.92	8.09	0.04	92.95
16MW-13	3/27/2001	100.97	8.09	92.88	8.35	0.26	93.10
16MW-13	4/19/2001	100.97	9.61	91.36	10.36	0.75	92.00
16MW-13	5/11/2001	100.97	10.28	90.69	11.06	0.78	91.36
16MW-13	6/6/2001	100.97	10.18	90 79	10.87	0.69	91.38
16MW-13	8/14/2001	100.97	9.67	91.30	10.00	0.33	91.58
16MW-13	9/14/2001	100.97	9.48	91.49	9.63	0.15	91.62
16MW-13	10/11/2001	100.97	9.41	91.56	9.50	0.09	91.63
16MW-13	11/13/2001	100.97	9.45	91.52	9.49	0.04	91.56
16MW-13	12/13/2001	100.97	9.34	91.63	9.39	0.05	91.67
16MW-13	1/8/2002	100.97	9.35	91.62	9.36	0.01	91.63
16MW-13	1/23/2002	100.97	9.35	91.62	9.41	0.06	91.67
16MW-13	2/28/2002	100.97	9.51	91.46	9.56	0.05	91.50
16MW-13	3/28/2002	100.97	9.04	91.93	9.18	0.14	92.05
16MW-13	4/23/2002	100.97	10.12	90.85	10.48	0.36	91.16
16MW-13	5/15/2002	100.97	9.98	90.99	10.38	0.40	91.33
16MW-13	6/8/2002	100.97	9.40	91 57	9.55	0.15	91.70
16MW-13	6/27/2002	100.97	9.70	91.27	9 95	0.25	91.48
16MW-13	7/16/2002	100.97	9.66	91.31	9.72	0.06	91.36
16MW-13	8/15/2002	100.97	9.98	90.99	10.17	0.19	91.15
16MW-13	9/10/2002	100.97	9.74	91.23	-	0.00	91.23
16MW-13	10/18/2002	100.97	9.00	91.97	9.21	0.21	92.14
16MW-13	11/14/2002	100.97	9.40	91.57	9.45	0.05	91.61
16MW-13	11/26/2002	100.97	9.90	91.07	10.42	0.52	91.52
16MW-13	12/16/2002	100.97	9.87	91.10	10.48	0.61	91.62
16MW-13	1/28/2003	100.97	9.00	91.97	9.33	0.33	92.25
16MW-13	2/26/2003	100.97	8.00	92.97	8.30	0.30	93.23
16MW-13	3/31/2003	100.97	7.15	93.82	7.18	0.03	93.85
16MW-13	4/29/2003	100.97	7.80	93.17	8.05	0.25	93.38
16MW-13	5/23/2003	100.97	7.90	93.07	8.03	0.13	93.18
16MW-13	6/26/2003	100.97	7.16	93.81	7.39	0.23	94.00
16MW-13	8/1/2003	100.97	8.21	92.76	8.36	0.15	92.89
16MW-13	8/26/2003	100.97	8.60	92.37	8.79	0.19	92.53
16MW-13	9/17/2003	100.97	8.41	92.56	8.51	0.10	92.65
16MW-13	10/28/2003	100.97	8.55	92.42	8.63	0.08	92.48
16MW-13	12/30/2003	100.97	7.75	93.22	7.94	0.19	93 38
16MW-13	1/16/2004	100.97	8.16	92.81	8.34	0.18	92.96
16MW-13	2/18/2004	100.97	7.70	93.27	7.83	0.13	93.38
16MW-13	3/24/2004	100.97	7.35	93.62	7.00	0.35	93.92
16MW-13	4/5/2004	100.97	7.20	93.77	6.78	0.42	94.13
16MW-13	5/5/2004	100.97	7.21	93.76	6.38	0.83	94.47
16MW-13	6/29/2004	100.97	8.34	92.63	8.01	0.33	92.91
16MW-13	7/27/2004	100.97	9.00	91.97	7.50	1.50	93.25
16MW-13	8/18/2004	100.97	8.40	92.57	8.20	0.20	92.74
16MW-13	9/1/2004	100.97	8.41	92.56	8.35	0.06	92.61
16MW-13	10/19/2004	100.97	8.55	92.42	8.40	0.15	92.55
16MW-13	11/23/2004	100.97	8.50	92.47	8.23	0.27	92.70
16MW-13	12/16/2004	100.97	8.21	92.76	7.55	0.66	93.32
16MW-13	1/12/2005	100.97	8.25	92.72	7.55	0.70	93.32
16MW-13	2/17/2005	100.97	7.54	93.43	7.19	0.35	93.73
16MW-13	3/2/2005	100.97	7.43	93.54	7.23	0.20	93.71
16MW-13	4/5/2005	100.97	7.71	93.26	6.46	1.25	94.33
16MW-13	5/13/2005	100.97	7.22	93.75	6.95	0.27	93.98
16MW-13	6/8/2005	100.97	7.76	93.21	7.45	0.31	93.47
16MW-13	7/27/2005	100.97	8.30	92.67	7.90	0.40	93.01
16MW-13	8/17/2005	100.97	8.56	92.41	8.55	0.01	92.42
16MW-13	9/21/2005	100.97	10.10	90.87	8.90	1.20	91.89
16MW-13	10/5/2005	100.97	10.35	90.62	9.15	1.20	91.64
16MW-13	11/9/2005	100.97	7.60	93.37	7.40	0.20	93.54
16MW-13	12/14/2005	100.97	7.79	93.18	7.41	0.38	93.50

APPENDIX B
NAVAL WEAPONS STATION EARLE
BIOSLURPER UNITS
GROUNDWATER LEVEL AND LNAPL THICKNESS DATA

Well ID	Date	Top of Casing (feet)	Depth to Water (feet)	Groundwater Elevation (feet)	Depth to LNAPL (feet)	LNAPL Thickness (feet)	Corrected Elevation (feet)
16MW-13	1/20/2006	100.97	6.93	94.04	6.29	0.64	94.59
16MW-13	2/28/2006	100 97	7.49	93.48	6.83	0.66	94.04
16MW-13	3/8/2006	100.97	7 27	93.70	6.78	0.49	94.12
16MW-13	4/28/2006	100.97	8.02	92.95	6.98	1.04	93.84
16MW-13	5/4/2006	100.97	8.37	92.60	6.91	1.46	93.84
16MW-14	8/20/1997	100.66	10 64	90.02	11.47	0.83	90.72
16MW-14	10/6/1997	100.66	11.61	89.05	12.60	0.99	89.90
16MW-14	12/12/1997	100.66	10.72	89.94	11.51	0.79	90.61
16MW-14	1/7/1998	100.66	10.52	90.14	11.38	0.86	90.87
16MW-14	1/7/1998	100.66	10.52	90.14	11.38	0.86	90.87
16MW-14	1/15/1998	100.66	9.61	91.05	10.25	0.64	91.59
16MW-14	2/10/1998	100.66	10.36	90.30	11.44	1.08	91.22
16MW-14	3/3/1998	100.66	6.40	94.27	7.23	0.84	94.98
16MW-14	3/12/1998	100.66	8.29	92.37	9.04	0.75	93.01
16MW-14	3/13/1998	100.66	8.90	91.76	9.74	0.84	92.47
16MW-14	3/26/1998	100.66	5.70	94.96	5.73	0.03	94.99
16MW-14	4/3/1998	100.66	6.66	94.00	6.87	0.21	94.18
16MW-14	4/9/1998	100.66	5.38	95.28	5.47	0.09	95.36
16MW-14	4/17/1998	100.66	6.05	94.61	6.15	0.10	94.69
16MW-14	4/24/1998	100.66	7.82	92 84	8.37	0.55	93.30
16MW-14	5/5/1998	100.66	7.41	93.25	7.87	0.46	93.64
16MW-14	5/15/1998	100.66	5.70	94.96	5.80	0.10	95.05
16MW-14	7/30/1998	100.66	10.05	90.61	10.90	0.85	91.34
16MW-14	8/7/1998	100.66	7.40	93.26	7.46	0.06	93.31
16MW-14	8/13/1998	100.66	7.71	92.95	7.76	0.05	92.99
16MW-14	8/21/1998	100.66	8.60	92.06	8.87	0.27	92.29
16MW-14	9/3/1998	100.66	8.41	92.25	8.56	0.15	92.38
16MW-14	9/10/1998	100.66	7.96	92.70	8.11	0.15	92.83
16MW-14	10/2/1998	100.66	8.62	92.04	8.80	0.18	92.20
16MW-14	10/20/1998	100.66	8.57	92.09	8.71	0.14	92.21
16MW-14	11/6/1998	100.66	8.65	92.01	8.77	0.12	92.11
16MW-14	12/3/1998	100.66	8.71	91.95	8.84	0.13	92.06
16MW-14	12/30/1998	100.66	9.33	91.33	9.47	0.14	91.45
16MW-14	1/26/1999	100.66	7.62	93.04	7.77	0.15	93.17
16MW-14	2/10/1999	100.66	8.38	92.28	8.68	0.30	92.53
16MW-14	3/3/1999	100.66	8.41	92.25	8.54	0.13	92.36
16MW-14	3/9/1999	100.66	7.45	93.21	7.49	0.04	93.24
16MW-14	3/19/1999	100.66	7.40	93.26	7.49	0.09	93.33
16MW-14	4/20/1999	100.66	7.59	93.07	7.70	0 11	93.17
16MW-14	5/7/1999	100.66	7.77	92.89	7.78	0.01	92.90
16MW-14	6/1/1999	100.66	8.48	92.18	8.70	0.22	92.36
16MW-14	6/9/1999	100.66	7.65	93.01	7.65	0.00	93.01
16MW-14	6/9/1999	100.66	9.04	91.62	9.34	0.30	91.88
16MW-14	6/10/1999	100.66	8.50	92.16	8.63	0.13	92.27
16MW-14	6/14/1999	100.66	8.80	91.86	9.02	0.22	92.04
16MW-14	6/22/1999	100.66	8.95	91.71	9.20	0.25	91.92
16MW-14	7/29/1999	100.66	10.25	90.41	10.63	0.38	90.73
16MW-14	8/3/1999	100.66	10.40	90.26	10.80	0.40	90.60
16MW-14	8/13/1999	100.66	10.46	90.20	10.85	0.39	90.53
16MW-14	9/3/1999	100.66	8.85	91.81	8.88	0.03	91.84
16MW-14	9/15/1999	100.66	9.29	91.37	9.38	0.09	91.45
16MW-14	10/26/1999	100.66	10.20	90.46	10.77	0.57	90.95
16MW-14	11/2/1999	100.66	10.26	90.40	10.79	0.53	90.85
16MW-14	11/12/1999	100.66	9.60	91.06	9.75	0.15	91.19
16MW-14	11/18/1999	100.66	9.82	90.84	10.00	0.18	90.99
16MW-14	12/1/1999	100.66	9.70	90.96	10.05	0.35	91.26
16MW-14	12/31/1999	100.66	9.50	91.16	9.88	0.38	91.48
16MW-14	1/26/2000	100.66	9.44	91.22	9.73	0.29	91.46
16MW-14	2/18/2000	100.66	8.93	91.73	9.17	0.24	91.94

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Well ID	Date	Top of Casing (feet)	Depth to Water (feet)	Groundwater Elevation (feet)	Depth to LNAPL (feet)	LNAPL Thickness (feet)	Corrected Elevation (feet)
16MW-14	4/17/2000	100.66	8.42	92.24	8.59	0.17	92.38
16MW-14	5/4/2000	100.66	0.00	100.66	0.00	0.00	100.66
16MW-14	8/9/2000	100.66	8.40	92.26	8.62	0.22	92.45
16MW-14	8/24/2000	100.66	5.56	95.10	5.57	0.01	95.11
16MW-14	10/26/2000	100.66	8.83	91.83	8.90	0.07	91.89
16MW-14	11/28/2000	100.66	9.35	91.31	9.54	0.19	91.47
16MW-14	1/16/2001	100.66	9.30	91.36	9.59	0.29	91.61
16MW-14	2/27/2001	100.66	7.62	93.04	7.63	0.01	93.04
16MW-14	4/19/2001	100.66	7.05	93.61	7.09	0.04	93.64
16MW-14	5/11/2001	100.66	9.17	91.49	9.50	0.33	91.77
16MW-14	6/6/2001	100.66	9.84	90.82	10.36	0.52	91.26
16MW-14	8/14/2001	100.66	9.82	90.84	10.05	0.23	91.04
16MW-14	9/14/2001	100.66	9.67	90.99	9.72	0.05	91.03
16MW-14	10/11/2001	100.66	9.74	90.92	9.77	0.03	90.95
16MW-14	11/13/2001	100.66	9.94	90.72	9.97	0.03	90.75
16MW-14	12/13/2001	100.66	9.88	90.78	9.93	0.05	90.82
16MW-14	1/8/2002	100.66	10.31	90.35	10.53	0.22	90.53
16MW-14	1/23/2002	100.66	9.72	90.94	9.76	0.04	90.98
16MW-14	2/28/2002	100.66	9.87	90.79	9.88	0.01	90.80
16MW-14	3/28/2002	100.66	9.65	91.01	9.84	0.19	91.17
16MW-14	4/23/2002	100.66	10.91	89.75	11.36	0.45	90.13
16MW-14	5/15/2002	100.66	9.64	91.02	9.80	0.16	91.16
16MW-14	6/8/2002	100.66	9.63	91.03	9.70	0.07	91.09
16MW-14	6/27/2002	100.66	9.36	91.30	-	0.00	91.30
16MW-14	7/16/2002	100.66	10.34	90.32	10.45	0.11	90.41
16MW-14	8/15/2002	100.66	10.51	90.15	10.70	0.19	90.31
16MW-14	9/10/2002	100.66	10.69	89.97	11.02	0.33	90.25
16MW-14	10/18/2002	100.66	8.00	92.66	-	0.00	92.66
16MW-14	11/14/2002	100.66	8.05	92.61	8.08	0.03	92.63
16MW-14	11/26/2002	100.66	8.34	92.32	8.36	0.02	92.34
16MW-14	12/16/2002	100.66	7.40	93.26	7.60	0.20	93.43
16MW-14	1/28/2003	100.66	8.20	92.46	8.20	0.00	92.46
16MW-14	2/26/2003	100.66	7.55	93.11	7.62	0.07	93.17
16MW-14	3/31/2003	100.66	7.60	93.06	7.63	0.03	93.08
16MW-14	4/29/2003	100.66	6.61	94.05	-	0.00	94.05
16MW-14	5/23/2003	100.66	7.90	92.76	7.93	0.03	92.78
16MW-14	6/26/2003	100.66	7.20	93.46	7.28	0.08	93.52
16MW-14	8/1/2003	100.66	8.48	92.18	8.56	0.08	92.24
16MW-14	8/26/2003	100.66	8.61	92.05	8.65	0.04	92.09
16MW-14	9/17/2003	100.66	8.47	92.19	8.49	0.02	92.20
16MW-14	10/28/2003	100.66	8.60	92.06	8.63	0.03	92.08
16MW-14	11/11/2003	100.66	8.10	92.56	8.13	0.03	92.58
16MW-14	12/30/2003	100.66	7.45	93.21	7.46	0.01	93.22
16MW-14	1/16/2004	100.66	8.15	92.51	8.18	0.03	92.53
16MW-14	2/18/2004	100.66	7.53	93.13	7.54	0.01	93.14
16MW-14	3/24/2004	100.66	7.65	93.01	7.56	0.09	93.09
16MW-14	4/5/2004	100.66	6.44	94.22	6.35	0.09	94.30
16MW-14	5/5/2004	100.66	7.15	93.51	7.00	0.15	93.64
16MW-14	6/29/2004	100.66	8.63	92.03	8.54	0.09	92.11
16MW-14	7/27/2004	100.66	7.09	93.57	7.00	0.09	93.65
16MW-14	8/18/2004	100.66	8.64	92.02	8.60	0.04	92.05
16MW-14	9/1/2004	100.66	8.89	91.77	8.80	0.09	91.85
16MW-14	10/19/2004	100.66	8.95	91.71	-	0.00	91.71
16MW-14	11/23/2004	100.66	8.57	92.09	-	0.00	92.09
16MW-14	12/16/2004	100.66	8.14	92.52	8.10	0.04	92.55
16MW-14	1/12/2005	100.66	7.55	93.11	7.50	0.05	93.15
16MW-14	2/17/2005	100.66	6.86	93.80	-	0.00	93.80
16MW-14	3/2/2005	100.66	7.75	92.91	7.66	0.09	92.99
16MW-14	4/5/2005	100.66	6.91	93.75	6.87	0.04	93.78
16MW-14	5/13/2005	100.66	7.37	93.29	-	0.00	93.29

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Well ID	Date	Top of Casing (feet)	Depth to Water (feet)	Groundwater Elevation (feet)	Depth to LNAPL (feet)	LNAPL Thickness (feet)	Corrected Elevation (feet)
16MW-14	6/8/2005	100.66	7.89	92.77	7.85	0.04	92.80
16MW-14	7/27/2005	100.66	8.35	92.31	8.33	0.02	92.33
16MW-14	8/17/2005	100.66	9.20	91.46	9.10	0.10	91.55
16MW-14	9/21/2005	100.66	10.62	90.04	10.60	0.02	90.06
16MW-14	10/5/2005	100.66	9.85	90.81	9.84	0.01	90.82
16MW-14	11/9/2005	100.66	7.97	92.69	7.95	0.02	92.71
16MW-14	12/14/2005	100.66	7.91	92.75	7.84	0.07	92.81
16MW-14	1/20/2006	100.66	6.51	94.15	-	0.00	94.15
16MW-14	2/28/2006	100.66	7.41	93.25	7.31	0.10	93.34
16MW-14	3/8/2006	100.66	7.45	93.21	7.25	0.20	93.38
16MW-14	4/28/2006	100.66	6.93	93.73	-	0.00	93.73
16MW-14	5/4/2006	100.66	7.55	93.11	-	0.00	93.11
16MW-15	8/20/1997	100.98	11.49	89.49	12.39	0.90	90.26
16MW-15	8/20/1997	100.98	8.80	92.18	9.70	0.90	92.95
16MW-15	10/6/1997	100.98	11.98	89.00	12.91	0.93	89.79
16MW-15	12/12/1997	100.98	11.96	89.02	12.95	0.99	89.87
16MW-15	1/7/1998	100.98	12.38	88.60	13.65	1.27	89.68
16MW-15	1/15/1998	100.98	10.88	90.10	11.72	0.84	90.82
16MW-15	2/10/1998	100.98	12.40	88.58	13.90	1.50	89.85
16MW-15	3/3/1998	100.98	11.50	89.48	12.88	1.38	90.65
16MW-15	3/12/1998	100.98	10.50	90.48	11.69	1.19	91.49
16MW-15	3/13/1998	100.98	8.60	92.38	9.21	0.61	92.90
16MW-15	3/26/1998	100.98	6.40	94.58	6.43	0.03	94.61
16MW-15	4/3/1998	100.98	8.01	92.97	8.43	0.42	93.32
16MW-15	4/9/1998	100.98	7.19	93.79	7.33	0.14	93.91
16MW-15	4/17/1998	100.98	6.79	94.19	6.85	0.06	94.24
16MW-15	4/24/1998	100.98	8.45	92.53	9.03	0.58	93.02
16MW-15	5/5/1998	100.98	8.50	92.48	9.09	0.59	92.98
16MW-15	5/15/1998	100.98	7.20	93.78	7.56	0.36	94.09
16MW-15	7/30/1998	100.98	10.96	90.02	11.88	0.92	90.81
16MW-15	8/7/1998	100.98	9.06	91.92	9.37	0.31	92.18
16MW-15	8/13/1998	100.98	8.77	92.21	8.94	0.17	92.35
16MW-15	8/21/1998	100.98	9.22	91.76	9.49	0.27	91.99
16MW-15	9/3/1998	100.98	9.12	91.86	9.34	0.22	92.05
16MW-15	9/10/1998	100.98	9.11	91.87	9.29	0.18	92.02
16MW-15	10/2/1998	100.98	9.30	91.68	9.51	0.21	91.85
16MW-15	10/20/1998	100.98	9.25	91.73	9.41	0.16	91.87
16MW-15	11/6/1998	100.98	9.06	91 92	9.12	0.06	91.97
16MW-15	12/3/1998	100.98	9.27	91.71	9.39	0.12	91.81
16MW-15	12/30/1998	100.98	8.67	92.31	8.78	0.11	92.40
16MW-15	1/26/1999	100.98	8.12	92.86	8.25	0.13	92.97
16MW-15	2/10/1999	100.98	8.81	92.17	9.06	0.25	92.38
16MW-15	3/3/1999	100.98	7.77	93.21	7.88	0.11	93.30
16MW-15	3/9/1999	100.98	9.50	91.48	9.90	0.40	91.82
16MW-15	3/19/1999	100.98	8.21	92.77	8.36	0.15	92.90
16MW-15	4/20/1999	100.98	8.30	92.68	8.44	0.14	92.80
16MW-15	6/1/1999	100.98	8.91	92.07	9.08	0.17	92.21
16MW-15	6/9/1999	100.98	7.96	93.02	-	0.00	93.02
16MW-15	6/9/1999	100.98	9.37	91.61	9.60	0.23	91.80
16MW-15	6/10/1999	100.98	9.01	91.97	9.12	0.11	92.06
16MW-15	6/14/1999	100.98	9.27	91.71	9.45	0.18	91.86
16MW-15	6/22/1999	100.98	9.35	91.63	9.56	0.21	91.80
16MW-15	7/29/1999	100.98	10.61	90.37	10.94	0.33	90.65
16MW-15	8/13/1999	100.98	10.98	90.00	11.35	0.37	90.31
16MW-15	9/3/1999	100.98	9.44	91.54	9.48	0.04	91.57
16MW-15	9/15/1999	100.98	9.94	91.04	10.06	0.12	91.14
16MW-15	10/26/1999	100.98	10.65	90.33	11.20	0.55	90.79
16MW-15	11/2/1999	100.98	10.93	90.05	11.50	0.57	90.54
16MW-15	11/12/1999	100.98	9.70	91.28	10.04	0.34	91.57

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Well ID	Date	Top of Casing (feet)	Depth to Water (feet)	Groundwater Elevation (feet)	Depth to LNAPL (feet)	LNAPL Thickness (feet)	Corrected Elevation (feet)
16MW-15	11/18/1999	100.98	9.81	91.17	10.16	0.35	91.47
16MW-15	12/1/1999	100.98	9.60	91.38	9.76	0.16	91.52
16MW-15	12/31/1999	100.98	9.48	91.50	9.69	0.21	91.67
16MW-15	1/26/2000	100.98	9.50	91.48	9.64	0.14	91.60
16MW-15	2/18/2000	100.98	8.91	92.07	8.98	0.07	92.13
16MW-15	4/17/2000	100.98	8.83	92.15	8.95	0.12	92.25
16MW-15	5/4/2000	100.98	8.25	92.73	8.32	0.07	92.79
16MW-15	8/9/2000	100.98	9.17	91.81	9.44	0.27	92.04
16MW-15	8/24/2000	100.98	9.05	91.93	9.14	0.09	92.00
16MW-15	10/26/2000	100.98	9.35	91.63	9.43	0.08	91.69
16MW-15	11/28/2000	100.98	8.90	92.08	9.00	0.10	92.17
16MW-15	1/16/2001	100.98	9.00	91.98	9.09	0.09	92.05
16MW-15	2/27/2001	100.98	8.17	92.81	-	0.00	92.81
16MW-15	3/27/2001	100.98	7.65	93.33	7.71	0.06	93.38
16MW-15	4/19/2001	100.98	7.98	93.00	8.19	0.21	93.18
16MW-15	5/11/2001	100.98	9.33	91.65	9.74	0.41	92.00
16MW-15	6/6/2001	100.98	10.06	90.92	10.61	0.55	91.39
16MW-15	8/14/2001	100.98	9.19	91.79	9.29	0.10	91.88
16MW-15	9/14/2001	100.98	9.80	91.18	9.95	0.15	91.30
16MW-15	10/11/2001	100.98	9.72	91.26	9.81	0.09	91.33
16MW-15	11/13/2001	100.98	10.28	90.70	10.49	0.21	90.88
16MW-15	12/13/2001	100.98	10.07	90.91	10.26	0.19	91.07
16MW-15	1/8/2002	100.98	9.82	91.16	9.97	0.15	91.29
16MW-15	1/23/2002	100.98	9.50	91.48	9.54	0.04	91.51
16MW-15	2/28/2002	100.98	9.65	91.33	9.68	0.03	91.36
16MW-15	3/28/2002	100.98	8.80	92.18	8.85	0.05	92.22
16MW-15	4/23/2002	100 98	9.49	91.49	9.60	0.11	91.58
16MW-15	5/15/2002	100.98	9.28	91.70	9.41	0.13	91.81
16MW-15	6/8/2002	100.98	9.40	91.58	9.48	0.08	91.64
16MW-15	6/27/2002	100.98	9.35	91.63	9.41	0.06	91.68
16MW-15	7/16/2002	100.98	9.89	91.09	9.93	0.04	91.12
16MW-15	8/15/2002	100.98	10.23	90.75	10.35	0.12	90.85
16MW-15	9/10/2002	100.98	10.31	90.67	10.63	0.32	90.94
16MW-15	10/18/2002	100.98	8.75	92.23	8.82	0.07	92.29
16MW-15	11/14/2002	100.98	9.15	91.83	9.31	0.16	91.97
16MW-15	11/26/2002	100.98	10.45	90.53	11.06	0.61	91.05
16MW-15	12/16/2002	100.98	9.75	91.23	10.24	0.49	91.65
16MW-15	1/28/2003	100.98	8.60	92.38	8.71	0.11	92.48
16MW-15	2/26/2003	100.98	8.07	92.91	8.21	0.14	93.03
16MW-15	3/31/2003	100.98	7.60	93.38	7.63	0.03	93.40
16MW-15	4/29/2003	100.98	7.51	93.47	7.55	0.04	93.50
16MW-15	5/23/2003	100.98	8.02	92.96	8.07	0.05	93.00
16MW-15	6/26/2003	100.98	7.40	93.58	7 55	0.15	93.70
16MW-15	8/1/2003	100.98	8.42	92.56	8.53	0.11	92.65
16MW-15	8/26/2003	100.98	7.80	93.18	7.95	0.15	93.31
16MW-15	9/17/2003	100.98	8.74	92.24	8.86	0.12	92.34
16MW-15	10/28/2003	100.98	8.72	92.26	8.78	0.06	92.31
16MW-15	11/11/2003	100.98	8.10	92.88	8.12	0.02	92.89
16MW-15	12/30/2003	100.98	7.80	93.18	7.89	0.09	93.25
16MW-15	1/16/2004	100.98	8.30	92.68	8.43	0.13	92.79
16MW-15	2/18/2004	100.98	8.25	92.73	8.44	0.19	92.89
16MW-15	3/24/2004	100.98	7.87	93.11	7.47	0.40	93.45
16MW-15	4/5/2004	100.98	7.61	93.37	7.19	0.42	93.73
16MW-15	5/5/2004	100.98	7.90	93.08	6.82	1.08	94.00
16MW-15	6/29/2004	100.98	8.82	92.16	8.29	0.53	92.61
16MW-15	7/27/2004	100.98	8.20	92.78	8.00	0.20	92.95
16MW-15	8/18/2004	100.98	8.55	92.43	8.45	0.10	92.52
16MW-15	9/1/2004	100.98	8.79	92.19	8.75	0.04	92.22
16MW-15	11/23/2004	100.98	9.23	91.75	8.34	0.89	92.51
16MW-15	12/16/2004	100.98	9.05	91.93	7.69	1.36	93.09

APPENDIX B
NAVAL WEAPONS STATION EARLE
BIOSLURPER UNITS
GROUNDWATER LEVEL AND LNAPL THICKNESS DATA

Well ID	Date	Top of Casing (feet)	Depth to Water (feet)	Groundwater Elevation (feet)	Depth to LNAPL (feet)	LNAPL Thickness (feet)	Corrected Elevation (feet)
16MW-15	1/12/2005	100.98	9.21	91.77	7.65	1 56	93.10
16MW-15	2/17/2005	100.98	7.65	93.33	7.58	0.07	93.39
16MW-15	3/2/2005	100.98	8.21	92.77	7.59	0.62	93.30
16MW-15	4/5/2005	100.98	7.06	93.92	6.99	0.07	93.98
16MW-15	5/13/2005	100.98	7.39	93.59	7.22	0.17	93.73
16MW-15	6/8/2005	100.98	7.91	93.07	7.71	0.20	93.24
16MW-15	7/27/2005	100.98	9.15	91.83	9.12	0.03	91.86
16MW-15	8/17/2005	100.98	8.96	92.02	8.95	0.01	92.03
16MW-15	9/21/2005	100.98	9.91	91.07	9.90	0.01	91.08
16MW-15	10/5/2005	100.98	10.11	90.87	10.10	0.01	90.88
16MW-15	11/9/2005	100.98	8.30	92.68	8.20	0.10	92.77
16MW-15	12/14/2005	100.98	8.48	92.50	8.12	0.36	92.81
16MW-15	1/20/2006	100.98	7.28	93.70	-	0.00	93.70
16MW-15	2/28/2006	100.98	7.74	93.24	-	0.00	93.24
16MW-15	3/8/2006	100.98	7.72	93.26	-	0.00	93.26
16MW-15	4/28/2006	100.98	7.91	93.07	-	0.00	93.07
16MW-15	5/4/2006	100.98	7.99	92.99	-	0.00	92.99
16MW-16	8/20/1997	98.82	7.01	91.81	7.07	0.06	91.86
16MW-16	10/6/1997	98.82	8.19	90.63	8.55	0.36	90.93
16MW-16	12/12/1997	98.82	10.90	87.92	12.10	1.20	88.94
16MW-16	1/7/1998	98.82	10.40	88.42	11 55	1.15	89.40
16MW-16	1/15/1998	98.82	7.83	90.99	8.39	0.56	91.47
16MW-16	2/10/1998	98.82	7.38	91.44	7.87	0.49	91.86
16MW-16	2/24/1998	98.82	4.05	94.77	4.25	0.20	94.94
16MW-16	3/3/1998	98.82	5.70	93.12	5.87	0.17	93.27
16MW-16	3/12/1998	98.82	4.81	94.01	4.84	0.03	94.03
16MW-16	3/13/1998	98.82	5.12	93.70	5.14	0.02	93.72
16MW-16	3/26/1998	98.82	4.42	94.40	4.43	0.01	94.41
16MW-16	4/3/1998	98.82	5.17	93.65	5.18	0.01	93.66
16MW-16	4/9/1998	98.82	5.35	93.47	5.37	0.02	93.49
16MW-16	4/17/1998	98.82	5.60	93.22	5.74	0.14	93.34
16MW-16	4/24/1998	98.82	5.28	93.54	5.37	0.09	93.62
16MW-16	5/5/1998	98.82	5.32	93.50	5.40	0.08	93.56
16MW-16	5/15/1998	98.82	4.25	94.57	4.36	0.11	94.66
16MW-16	7/30/1998	98.82	7.64	91.18	8.03	0.39	91.51
16MW-16	8/7/1998	98.82	6.92	91.90	7.06	0.14	92.02
16MW-16	8/13/1998	98.82	7.22	91.60	7.39	0.17	91.75
16MW-16	8/21/1998	98.82	6.99	91.83	7.06	0.07	91.89
16MW-16	9/3/1998	98.82	6.86	91.96	6.90	0.04	91.99
16MW-16	9/10/1998	98.82	7.01	91.81	7.05	0.04	91.84
16MW-16	10/2/1998	98.82	7.22	91.60	7.30	0.08	91.67
16MW-16	10/20/1998	98.82	7.16	91.66	7.20	0.04	91.69
16MW-16	11/6/1998	98.82	7.25	91.57	7.28	0.03	91.60
16MW-16	12/3/1998	98.82	7.24	91.58	7.28	0.04	91.61
16MW-16	12/30/1998	98.82	7.27	91.55	7.33	0.06	91.60
16MW-16	1/26/1999	98.82	5.89	92.93	5.90	0.01	92.94
16MW-16	2/10/1999	98.82	6.45	92.37	6.53	0.08	92.44
16MW-16	3/9/1999	98.82	6.21	92.61	6.23	0.02	92.62
16MW-16	3/19/1999	98.82	5.85	92.97	5.86	0.01	92.97
16MW-16	4/20/1999	98.82	6.05	92.77	6.06	0.01	92.78
16MW-16	5/7/1999	98.82	6.26	92.56	6.27	0.01	92.57
16MW-16	6/1/1999	98.82	6.95	91.87	7.05	0.10	91.95
16MW-16	6/9/1999	98.82	6.15	92.67	6.15	0.00	92.67
16MW-16	6/9/1999	98.82	7.50	91.32	7.66	0.16	91.46
16MW-16	6/10/1999	98.82	7.05	91.77	7.08	0.03	91.79
16MW-16	6/14/1999	98.82	7.20	91.62	7.26	0.06	91.67
16MW-16	6/22/1999	98.82	7.26	91.56	7.36	0.10	91.64
16MW-16	7/29/1999	98.82	8.62	90.20	8.85	0.23	90.39
16MW-16	8/3/1999	98.82	8.80	90.02	9.05	0.25	90.23

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NAVAL WEAPONS STATION EARLE
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GROUNDWATER LEVEL AND LNAPL THICKNESS DATA

Well ID	Date	Top of Casing (feet)	Depth to Water (feet)	Groundwater Elevation (feet)	Depth to LNAPL (feet)	LNAPL Thickness (feet)	Corrected Elevation (feet)
16MW-16	8/13/1999	98.82	8.97	89.85	9.24	0.27	90.08
16MW-16	9/3/1999	98.82	8.35	90.47	8.55	0.20	90.64
16MW-16	9/15/1999	98.82	8.10	90.72	8.19	0.09	90.79
16MW-16	10/26/1999	98.82	8.00	90.82	8.30	0.30	91.08
16MW-16	11/2/1999	98.82	8.22	90.60	8.53	0.31	90.86
16MW-16	11/12/1999	98.82	7.30	91.52	7.33	0.03	91.54
16MW-16	11/18/1999	98.82	7.57	91.25	7.61	0.04	91.29
16MW-16	12/1/1999	98.82	7.51	91.31	7.59	0.08	91.38
16MW-16	12/31/1999	98.82	7.44	91.38	7.48	0.04	91.41
16MW-16	1/26/2000	98.82	7.37	91.45	7.41	0.04	91.49
16MW-16	2/18/2000	98.82	6.85	91.97	6.86	0.01	91.98
16MW-16	4/17/2000	98.82	6.59	92.23	6.61	0.02	92.25
16MW-16	8/9/2000	98.82	6.46	92.36	6.63	0.17	92.51
16MW-16	8/24/2000	98.82	0.00	98.82	-	0.00	98.82
16MW-16	10/26/2000	98.82	7.40	91.42	7.53	0.13	91.53
16MW-16	11/28/2000	98.82	8.57	90.25	8.86	0.29	90.49
16MW-16	1/16/2001	98.82	6.99	91.83	7.02	0.03	91.85
16MW-16	2/27/2001	98.82	6.26	92.56	-	0.00	92.56
16MW-16	3/27/2001	98.82	5.90	92.92	-	0.00	92.92
16MW-16	5/11/2001	98.82	6.38	92.44	6.43	0.05	92.48
16MW-16	6/6/2001	98.82	6.54	92.28	6.58	0.04	92.31
16MW-16	8/14/2001	98.82	7.56	91.26	7.68	0.12	91.36
16MW-16	9/14/2001	98.82	8.22	90.60	8.39	0.17	90.75
16MW-16	10/11/2001	98.82	7.35	91.47	7.52	0.17	91.61
16MW-16	11/13/2001	98.82	8.91	89.91	9.23	0.32	90.18
16MW-16	12/13/2001	98.82	7.57	91.25	7.61	0.04	91.28
16MW-16	1/8/2002	98.82	7.77	91.05	7.87	0.10	91.13
16MW-16	1/23/2002	98.82	7.60	91.22	7.64	0.04	91.25
16MW-16	2/28/2002	98.82	7.75	91.07	7.76	0.01	91.07
16MW-16	3/28/2002	98.82	6.75	92.07	6.76	0.01	92.08
16MW-16	4/23/2002	98.82	7.38	91.44	7.66	0.28	91.68
16MW-16	5/15/2002	98.82	7.09	91.73	7.12	0.03	91.76
16MW-16	6/8/2002	98.82	7.35	91.47	7.36	0.01	91.48
16MW-16	6/27/2002	98.82	7.50	91.32	7.55	0.05	91.36
16MW-16	8/15/2002	98.82	8.51	90.31	8.63	0.12	90.41
16MW-16	9/10/2002	98.82	7.51	91.31	7.54	0.03	91.34
16MW-16	10/18/2002	98.82	7.10	91.72	7.11	0.01	91.73
16MW-16	11/14/2002	98.82	6.76	92.06	6.78	0.02	92.08
16MW-16	11/26/2002	98.82	5.17	93.65	5.18	0.01	93.65
16MW-16	12/16/2002	98.82	6.33	92.49	6.37	0.04	92.52
16MW-16	1/28/2003	98.82	6.40	92.42	6.43	0.03	92.44
16MW-16	2/26/2003	98.82	4.99	93.83	5.00	0.01	93.84
16MW-16	3/31/2003	98.82	5.31	93.51	5.32	0.01	93.52
16MW-16	4/29/2003	98.82	4.98	93.84	4.99	0.01	93.85
16MW-16	5/23/2003	98.82	5.97	92.85	5.98	0.01	92.85
16MW-16	6/26/2003	98.82	4.00	94.82	4.01	0.01	94.83
16MW-16	8/1/2003	98.82	6.20	92.62	6.21	0 01	92.63
16MW-16	8/26/2003	98.82	6.40	92.42	6.41	0.01	92.43
16MW-16	12/30/2003	98.82	0.00	98.82	-	0.00	98.82
16MW-16	3/24/2004	98.82	4.76	94.06	4.68	0.08	94.13
16MW-16	4/5/2004	98.82	4.51	94.31	4.44	0.07	94.37
16MW-16	5/5/2004	98.82	5.40	93.42	-	0.00	93.42
16MW-16	6/29/2004	98.82	6.75	92.07	6.63	0.12	92.17
16MW-16	7/27/2004	98.82	6.50	92.32	-	0.00	92.32
16MW-16	8/18/2004	98.82	5.40	93.42	-	0.00	93.42
16MW-16	9/1/2004	98.82	4.95	93.87	-	0.00	93.87
16MW-16	10/19/2004	98.82	6.99	91.83	6.90	0.09	91.91
16MW-16	11/23/2004	98.82	6.55	92.27	6.46	0.09	92.35
16MW-16	1/12/2005	98.82	3.86	94.96	3.82	0.04	94.99
16MW-16	2/17/2005	98.82	3.71	95.11	3.55	0.16	95.25

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NAVAL WEAPONS STATION EARLE
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GROUNDWATER LEVEL AND LNAPL THICKNESS DATA

Well ID	Date	Top of Casing (feet)	Depth to Water (feet)	Groundwater Elevation (feet)	Depth to LNAPL (feet)	LNAPL Thickness (feet)	Corrected Elevation (feet)
16MW-16	3/2/2005	98.82	5.37	93.45	5.33	0.04	93.48
16MW-16	4/5/2005	98.82	4.71	94.11	4.58	0.13	94.22
16MW-16	5/13/2005	98.82	4.97	93.85	4.85	0.12	93.95
16MW-16	6/8/2005	98.82	5.49	93.33	-	0.00	93.33
16MW-16	7/27/2005	98.82	7.42	91.40	-	0.00	91.40
16MW-16	8/17/2005	98.82	7.31	91.51	7.30	0.01	91.52
16MW-16	9/21/2005	98.82	7.80	91.02	7.75	0.05	91.06
16MW-16	10/5/2005	98.82	8.00	90.82	7.98	0.02	90.84
16MW-16	11/9/2005	98.82	4.75	94.07	4.72	0.03	94.10
16MW-16	12/14/2005	98.82	5.54	93.28	-	0.00	93.28
16MW-16	1/20/2006	98.82	4.43	94.39	-	0.00	94.39
16MW-16	2/28/2006	98.82	4.95	93.87	-	0.00	93.87
16MW-16	3/8/2006	98.82	5.11	93.71	-	0.00	93.71
16MW-16	4/28/2006	98.82	5.21	93.61	-	0.00	93.61
16MW-16	5/4/2006	98.82	5.29	93.53	-	0.00	93.53
16MW-17	8/20/1997	99.79	10.87	88.92	11.91	1.04	89.80
16MW-17	10/6/1997	99.79	8.19	91.60	9.47	1.28	92.69
16MW-17	10/6/1997	99.79	10.98	88.81	11.92	0.94	89.61
16MW-17	12/12/1997	99.79	10.50	89.29	11.38	0.88	90 04
16MW-17	1/7/1998	99.79	11.15	88.64	12.37	1.22	89.68
16MW-17	1/15/1998	99.79	8.45	91.34	8.89	0.44	91.71
16MW-17	2/10/1998	99.79	10.24	89.55	11.42	1.18	90.55
16MW-17	2/24/1998	99.79	6.70	93.09	7.08	0.38	93.41
16MW-17	3/3/1998	99.79	8.95	90.84	9.91	0.96	91.66
16MW-17	3/12/1998	99.79	7.27	92.52	7.77	0.50	92.94
16MW-17	3/13/1998	99.79	5.55	94.24	5.63	0.08	94.30
16MW-17	3/26/1998	99.79	5.35	94.44	5.37	0.02	94.45
16MW-17	4/3/1998	99.79	5.54	94.25	5.65	0.11	94.34
16MW-17	4/9/1998	99.79	6.12	93.67	6.22	0.10	93.75
16MW-17	4/17/1998	99.79	6.04	93.75	6.18	0.14	93.87
16MW-17	4/24/1998	99.79	6.19	93.60	6.40	0.21	93.77
16MW-17	5/5/1998	99.79	6.45	93.34	6.72	0.27	93.57
16MW-17	5/15/1998	99.79	5.36	94.43	5.45	0.09	94.51
16MW-17	7/30/1998	99.79	10.26	89.53	11.27	1.01	90.39
16MW-17	8/7/1998	99.79	7.72	92.07	7.93	0.21	92.25
16MW-17	8/13/1998	99.79	7.95	91.84	8.17	0.22	92.03
16MW-17	8/21/1998	99.79	7.62	92.17	7.71	0.09	92.25
16MW-17	9/3/1998	99.79	7.76	92.03	7.88	0.12	92.13
16MW-17	9/10/1998	99.79	7.72	92.07	7.80	0.08	92.14
16MW-17	10/2/1998	99.79	8.28	91.51	8.48	0 20	91.68
16MW-17	10/20/1998	99.79	7.85	91.94	7.92	0.07	92.00
16MW-17	11/6/1998	99.79	8.04	91.75	8.11	0.07	91.81
16MW-17	12/3/1998	99.79	7.99	91.80	8.04	0.05	91.84
16MW-17	12/30/1998	99.79	8.36	91.43	8.54	0.18	91.58
16MW-17	1/26/1999	99.79	6.73	93.06	6.81	0.08	93.12
16MW-17	2/10/1999	99.79	7.74	92.05	7.99	0.25	92.26
16MW-17	3/9/1999	99.79	7.03	92.76	7.09	0.06	92.81
16MW-17	3/19/1999	99.79	6.68	93.11	6.74	0.06	93.16
16MW-17	4/20/1999	99.79	6.90	92.89	6.96	0.06	92.94
16MW-17	5/7/1999	99.79	6.96	92.83	6.98	0.02	92.85
16MW-17	6/1/1999	99.79	7.53	92.26	7.61	0.08	92.33
16MW-17	6/9/1999	99.79	7.16	92.63	-	0.00	92.63
16MW-17	6/9/1999	99.79	7.99	91.80	8.12	0.13	91.91
16MW-17	6/10/1999	99.79	7.74	92.05	7.79	0.05	92.09
16MW-17	6/14/1999	99.79	7.91	91.88	8.01	0.10	91.97
16MW-17	6/22/1999	99.79	8.01	91.78	8.12	0.11	91.88
16MW-17	7/29/1999	99.79	9.40	90.39	9.67	0.27	90.62
16MW-17	8/3/1999	99.79	9.55	90.24	9.83	0.28	90.48
16MW-17	8/13/1999	99.79	9.70	90.09	10.00	0.30	90.34

APPENDIX B
NAVAL WEAPONS STATION EARLE
BIOSLURPER UNITS
GROUNDWATER LEVEL AND LNAPL THICKNESS DATA

Well ID	Date	Top of Casing (feet)	Depth to Water (feet)	Groundwater Elevation (feet)	Depth to LNAPL (feet)	LNAPL Thickness (feet)	Corrected Elevation (feet)
16MW-17	9/3/1999	99.79	8.49	91 30	8.53	0.04	91.34
16MW-17	9/15/1999	99.79	8.86	90.93	8.97	0.11	91.03
16MW-17	10/26/1999	99.79	9.81	89.98	10.44	0.63	90.51
16MW-17	11/2/1999	99.79	9.99	89.80	10.63	0.64	90.34
16MW-17	11/12/1999	99.79	8.31	91.48	8 41	0.10	91.57
16MW-17	11/18/1999	99.79	8.55	91.24	8.68	0.13	91.35
16MW-17	12/1/1999	99.79	8.87	90.92	9.00	0.13	91.03
16MW-17	12/31/1999	99.79	8.21	91.58	8.37	0.16	91.72
16MW-17	1/26/2000	99.79	8.21	91.58	8.30	0.09	91.65
16MW-17	2/18/2000	99.79	7.57	92.22	7.59	0.02	92.24
16MW-17	4/17/2000	99.79	7.46	92.33	7.51	0.05	92.38
16MW-17	5/4/2000	99.79	7.14	92.65	7.17	0.03	92.67
16MW-17	8/9/2000	99.79	8.40	91.39	8.82	0.42	91.75
16MW-17	8/24/2000	99.79	7.85	91.94	7.91	0.06	91.99
16MW-17	10/26/2000	99.79	8.09	91.70	8.11	0.02	91.72
16MW-17	11/28/2000	99.79	8.48	91.31	8.73	0.25	91.53
16MW-17	1/16/2001	99.79	7.90	91.89	8.00	0.10	91.98
16MW-17	2/27/2001	99.79	7.05	92.74	-	0.00	92.74
16MW-17	3/27/2001	99.79	6.40	93.39	6.43	0.03	93.41
16MW-17	4/19/2001	99.79	6.55	93.24	6.65	0.10	93.33
16MW-17	5/11/2001	99.79	7.42	92.37	7.55	0.13	92.48
16MW-17	6/6/2001	99.79	8.00	91.79	8.25	0.25	92.00
16MW-17	8/14/2001	99.79	9.27	90.52	9.68	0.41	90.87
16MW-17	9/14/2001	99.79	8.70	91.09	8.81	0.11	91.18
16MW-17	10/11/2001	99.79	8.44	91.35	8.46	0.02	91.36
16MW-17	11/13/2001	99.79	8.66	91.13	8.70	0.04	91.16
16MW-17	11/13/2001	99.79	9.22	90.57	-	0.00	90.57
16MW-17	12/13/2001	99.79	8.45	91.34	8.48	0.03	91.36
16MW-17	1/8/2002	99.79	8.51	91.28	8.59	0.08	91.35
16MW-17	1/23/2002	99.79	8.40	91.39	8.43	0.03	91.42
16MW-17	2/28/2002	99.79	8.51	91.28	8.52	0.01	91.29
16MW-17	3/28/2002	99.79	7.64	92.15	7.66	0.02	92.16
16MW-17	4/23/2002	99.79	8.09	91.70	8.11	0.02	91.72
16MW-17	5/15/2002	99.79	7.83	91.96	7.88	0.05	92.00
16MW-17	6/8/2002	99.79	8.08	91.71	8.09	0.01	91.72
16MW-17	6/27/2002	99.79	8.20	91.59	8.24	0.04	91.62
16MW-17	7/16/2002	99.79	8.77	91.02	8.79	0.02	91.04
16MW-17	8/15/2002	99.79	9.88	89.91	10.84	0.96	90.73
16MW-17	9/10/2002	99.79	8.80	90.99	8.98	0.18	91.14
16MW-17	10/18/2002	99.79	7.13	92.66	7.14	0.01	92.67
16MW-17	11/14/2002	99.79	9.30	90.49	9.83	0.53	90.94
16MW-17	11/26/2002	99.79	7.20	92.59	7.43	0.23	92.78
16MW-17	12/16/2002	99.79	7.50	92.29	7.68	0.18	92.45
16MW-17	1/28/2003	99.79	7.26	92.53	7.30	0.04	92.56
16MW-17	2/26/2003	99.79	6.54	93.25	6.57	0.03	93.27
16MW-17	3/31/2003	99.79	6.50	93.29	6.54	0.04	93.32
16MW-17	4/29/2003	99.79	6.35	93.44	6.37	0.02	93.45
16MW-17	5/23/2003	99.79	7.03	92.76	7.10	0.07	92.82
16MW-17	6/26/2003	99.79	5.80	93.99	5.83	0.03	94.01
16MW-17	8/1/2003	99.79	7.38	92.41	7.49	0.11	92.51
16MW-17	8/26/2003	99.79	7.61	92.18	7.71	0.10	92.27
16MW-17	9/17/2003	99.79	7.49	92.30	7.54	0.05	92.34
16MW-17	10/28/2003	99.79	7.49	92.30	-	0.00	92.30
16MW-17	11/11/2003	99.79	7.38	92.41	7.46	0.08	92.47
16MW-17	12/30/2003	99.79	6.35	93.44	6.36	0.01	93.45
16MW-17	1/16/2004	99.79	6.95	92.84	7.00	0.05	92.88
16MW-17	2/18/2004	99.79	6.57	93.22	6.59	0.02	93.23
16MW-17	3/24/2004	99.79	6.54	93.25	6.37	0.17	93.39
16MW-17	4/5/2004	99.79	6.24	93.55	6.14	0.10	93.64
16MW-17	5/5/2004	99.79	6.50	93.29	-	0.00	93.29

APPENDIX B
NAVAL WEAPONS STATION EARLE
BIOSLURPER UNITS
GROUNDWATER LEVEL AND LNAPL THICKNESS DATA

Well ID	Date	Top of Casing (feet)	Depth to Water (feet)	Groundwater Elevation (feet)	Depth to LNAPL (feet)	LNAPL Thickness (feet)	Corrected Elevation (feet)
16MW-17	6/29/2004	99.79	7.36	92.43	-	0.00	92.43
16MW-17	7/27/2004	99.79	7.15	92.64	7.10	0.05	92.68
16MW-17	8/18/2004	99.79	7.40	92.39	-	0.00	92.39
16MW-17	9/1/2004	99.79	7.29	92.50	-	0.00	92.50
16MW-17	10/19/2004	99.79	7.65	92.14	7.61	0.04	92.17
16MW-17	11/23/2004	99.79	7.86	91.93	7.34	0.52	92.37
16MW-17	12/16/2004	99.79	6.96	92.83	6.72	0.24	93.03
16MW-17	1/12/2005	99.79	7.05	92.74	6.72	0.33	93.02
16MW-17	2/17/2005	99.79	6.72	93.07	6.40	0.32	93.34
16MW-17	3/2/2005	99.79	6.78	93.01	6.55	0.23	93.21
16MW-17	4/5/2005	99.79	5.97	93.82	5.76	0.21	94.00
16MW-17	5/13/2005	99.79	6.49	93.30	6.21	0.28	93.54
16MW-17	6/8/2005	99.79	6.71	93.08	6.56	0.15	93.21
16MW-17	7/27/2005	99.79	7.38	92.41	-	0.00	92.41
16MW-17	8/17/2005	99.79	7.98	91.81	-	0.00	91.81
16MW-17	9/21/2005	99.79	8.45	91.34	-	0.00	91.34
16MW-17	10/5/2005	99.79	8.60	91.19	-	0.00	91.19
16MW-17	11/9/2005	99.79	6.71	93.08	6.70	0.01	93.09
16MW-17	12/14/2005	99.79	6.71	93.08	6.63	0.08	93.15
16MW-17	1/20/2006	99.79	5.59	94.20	-	0.00	94.20
16MW-17	2/28/2006	99.79	6.22	93.57	-	0.00	93.57
16MW-17	3/8/2006	99.79	6.08	93.71	-	0.00	93.71
16MW-17	4/28/2006	99.79	6.25	93.54	-	0.00	93.54
16MW-17	5/4/2006	99.79	6.46	93.33	-	0.00	93.33
16MW-18	8/20/1997	100.69	7.96	92.73	-	0.00	92.73
16MW-18	10/6/1997	100.69	8.21	92.48	-	0.00	92.48
16MW-18	12/12/1997	100.69	7.98	92.71	-	0.00	92.71
16MW-18	1/7/1998	100.69	6.85	93.84	-	0.00	93.84
16MW-18	1/15/1998	100.69	7.24	93.45	-	0.00	93.45
16MW-18	2/10/1998	100.69	5.86	94.83	-	0.00	94.83
16MW-18	2/24/1998	100.69	6.80	93.89	-	0.00	93.89
16MW-18	3/3/1998	100.69	5.30	95.39	-	0.00	95.39
16MW-18	3/12/1998	100.69	4.89	95.80	-	0.00	95.80
16MW-18	3/13/1998	100.69	5.06	95.63	-	0.00	95.63
16MW-18	3/26/1998	100.69	4.78	95.91	-	0.00	95.91
16MW-18	4/3/1998	100.69	5 51	95.18	-	0.00	95.18
16MW-18	4/9/1998	100.69	5.85	94.84	-	0.00	94.84
16MW-18	4/17/1998	100.69	5.20	95.49	-	0.00	95.49
16MW-18	4/24/1998	100.69	5.50	95.19	-	0.00	95 19
16MW-18	5/5/1998	100.69	4.40	96.29	-	0.00	96.29
16MW-18	5/15/1998	100.69	3.85	96.84	-	0.00	96.84
16MW-18	7/30/1998	100.69	6.93	93.76	-	0.00	93.76
16MW-18	8/7/1998	100.69	7.14	93.55	-	0.00	93.55
16MW-18	8/13/1998	100.69	8.40	92.29	-	0.00	92.29
16MW-18	8/21/1998	100.69	7.61	93.08	-	0.00	93.08
16MW-18	9/3/1998	100.69	7.78	92.91	-	0.00	92.91
16MW-18	9/10/1998	100.69	7.90	92.79	-	0.00	92.79
16MW-18	10/2/1998	100.69	7.66	93.03	-	0.00	93.03
16MW-18	10/20/1998	100.69	8.12	92.57	-	0.00	92.57
16MW-18	11/6/1998	100.69	8.34	92.35	-	0.00	92.35
16MW-18	12/3/1998	100.69	8.20	92.49	-	0.00	92.49
16MW-18	12/30/1998	100.69	8.48	92.21	8.49	0.01	92.21
16MW-18	1/26/1999	100.69	4.36	96.33	-	0.00	96.33
16MW-18	2/10/1999	100.69	6.40	94.29	-	0.00	94.29
16MW-18	3/9/1999	100.69	6.30	94.39	-	0.00	94.39
16MW-18	3/19/1999	100.69	4.80	95.89	-	0.00	95.89
16MW-18	5/7/1999	100.69	7.14	93.55	-	0.00	93.55
16MW-18	6/1/1999	100.69	7.40	93.29	-	0.00	93.29
16MW-18	6/9/1999	100.69	7.79	92.90	-	0.00	92.90

APPENDIX B
NAVAL WEAPONS STATION EARLE
BIOSLURPER UNITS
GROUNDWATER LEVEL AND LNAPL THICKNESS DATA

Well ID	Date	Top of Casing (feet)	Depth to Water (feet)	Groundwater Elevation (feet)	Depth to LNAPL (feet)	LNAPL Thickness (feet)	Corrected Elevation (feet)
16MW-18	6/9/1999	100.69	7.77	92.92	-	0.00	92.92
16MW-18	6/10/1999	100 69	7.82	92.87	-	0.00	92.87
16MW-18	6/14/1999	100.69	8.90	91.79	-	0.00	91.79
16MW-18	6/22/1999	100.69	8.12	92.57	-	0.00	92.57
16MW-18	7/29/1999	100.69	9.10	91.59	-	0.00	91.59
16MW-18	8/3/1999	100 69	9.25	91.44	-	0.00	91.44
16MW-18	8/13/1999	100.69	9.38	91.31	-	0.00	91.31
16MW-18	9/3/1999	100.69	6.50	94.19	-	0.00	94.19
16MW-18	9/15/1999	100.69	8.99	91.70	-	0.00	91.70
16MW-18	10/26/1999	100.69	7.15	93.54	7.16	0.01	93.55
16MW-18	11/12/1999	100.69	8.39	92.30	8.41	0.02	92.32
16MW-18	11/18/1999	100.69	8.60	92.09	8.61	0.01	92.10
16MW-18	12/1/1999	100.69	8.41	92.28	8.43	0.02	92.29
16MW-18	12/31/1999	100.69	7.50	93.19	7.78	0.28	93.42
16MW-18	1/26/2000	100.69	8.39	92.30	8.41	0.02	92.32
16MW-18	2/18/2000	100.69	6.17	94.52	6.20	0.03	94.55
16MW-18	4/17/2000	100.69	6.32	94.37	6.37	0.05	94.41
16MW-18	5/4/2000	100.69	6.81	93.88	-	0.00	93.88
16MW-18	8/9/2000	100.69	5.26	95.43	5.27	0.01	95.44
16MW-18	8/24/2000	100.69	7.31	93.38	7.34	0.03	93.40
16MW-18	10/26/2000	100.69	8.35	92.34	8.36	0.01	92.35
16MW-18	11/28/2000	100.69	7.05	93.64	7.06	0.01	93.65
16MW-18	1/16/2001	100.69	7.72	92.97	7.73	0.01	92.97
16MW-18	2/27/2001	100.69	6.40	94.29	-	0.00	94.29
16MW-18	3/27/2001	100.69	5.20	95.49	-	0.00	95.49
16MW-18	4/19/2001	100.69	5.43	95.26	-	0.00	95.26
16MW-18	5/11/2001	100.69	7.06	93.63	-	0.00	93.63
16MW-18	6/6/2001	100.69	7.68	93.01	7.68	0.00	93.01
16MW-18	8/14/2001	100.69	8.21	92.48	8.24	0.03	92.50
16MW-18	9/14/2001	100.69	8.91	91.78	8.92	0.01	91.79
16MW-18	10/11/2001	100.69	8.48	92.21	-	0.00	92.21
16MW-18	12/13/2001	100.69	8.51	92.18	8.55	0.04	92.22
16MW-18	1/8/2002	100.69	7.95	92.74	8.01	0.06	92.79
16MW-18	1/23/2002	100.69	8.50	92.19	8.56	0.06	92.24
16MW-18	2/28/2002	100.69	8.83	91.86	-	0.00	91.86
16MW-18	3/28/2002	100.69	6.03	94.66	-	0.00	94.66
16MW-18	4/23/2002	100.69	8.23	92.46	-	0.00	92.46
16MW-18	5/15/2002	100.69	6.43	94.26	-	0.00	94.26
16MW-18	6/8/2002	100.69	8.91	91.78	8.92	0.01	91.79
16MW-18	6/27/2002	100.69	8.93	91.76	8.95	0.02	91.77
16MW-18	7/16/2002	100.69	9.30	91.39	9.43	0.13	91.50
16MW-18	8/15/2002	100.69	9.65	91.04	-	0.00	91.04
16MW-18	9/10/2002	100.69	8.42	92.27	8.43	0.01	92.27
16MW-18	10/18/2002	100.69	5.91	94.78	-	0.00	94 78
16MW-18	11/14/2002	100.69	6.91	93.78	-	0.00	93.78
16MW-18	11/26/2002	100.69	6.21	94.48	-	0.00	94.48
16MW-18	12/16/2002	100.69	5.91	94.78	-	0.00	94.78
16MW-18	1/28/2003	100.69	7.28	93.41	-	0.00	93.41
16MW-18	2/26/2003	100.69	5.56	95.13	-	0.00	95.13
16MW-18	3/31/2003	100.69	5.86	94.83	-	0.00	94.83
16MW-18	4/29/2003	100.69	6.00	94.69	-	0.00	94.69
16MW-18	5/23/2003	100.69	7.05	93.64	-	0.00	93.64
16MW-18	6/26/2003	100.69	4.91	95.78	-	0.00	95.78
16MW-18	8/1/2003	100.69	7.02	93.67	-	0.00	93.67
16MW-18	8/26/2003	100.69	7.49	93.20	-	0.00	93.20
16MW-18	9/17/2003	100.69	7.29	93.40	-	0.00	93.40
16MW-18	10/28/2003	100.69	7.84	92.85	-	0.00	92.85
16MW-18	11/11/2003	100.69	6.20	94.49	6.21	0.01	94.50
16MW-18	12/30/2003	100.69	5.95	94.74	5.96	0.01	94.75
16MW-18	1/16/2004	100.69	6.98	93.71	6.99	0.01	93.72

APPENDIX B
NAVAL WEAPONS STATION EARLE
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GROUNDWATER LEVEL AND LNAPL THICKNESS DATA

Well ID	Date	Top of Casing (feet)	Depth to Water (feet)	Groundwater Elevation (feet)	Depth to LNAPL (feet)	LNAPL Thickness (feet)	Corrected Elevation (feet)
16MW-18	2/18/2004	100.69	6.20	94.49	6.21	0.01	94.50
16MW-18	3/24/2004	100.69	5.61	95.08	5.55	0.06	95.13
16MW-18	4/5/2004	100.69	5.03	95.66	4.95	0.08	95.73
16MW-18	5/5/2004	100.69	5.42	95.27	-	0.00	95.27
16MW-18	6/29/2004	100.69	7.60	93.09	-	0.00	93.09
16MW-18	7/27/2004	100.69	7.10	93.59	-	0.00	93.59
16MW-18	8/18/2004	100.69	7.40	93.29	-	0.00	93.29
16MW-18	9/1/2004	100.69	8.49	92.20	-	0.00	92.20
16MW-18	10/19/2004	100.69	8.18	92.51	-	0.00	92.51
16MW-18	11/23/2004	100.69	7.79	92.90	7.71	0.08	92.97
16MW-18	12/16/2004	100.69	5.96	94.73	5.83	0.13	94.84
16MW-18	1/12/2005	100.69	5 91	94.78	5.76	0.15	94.91
16MW-18	2/17/2005	100.69	5.45	95.24	5.39	0.06	95.29
16MW-18	3/2/2005	100.69	6.35	94.34	6.26	0.09	94.42
16MW-18	4/5/2005	100.69	5.17	95.52	5.08	0.09	95.60
16MW-18	5/13/2005	100.69	5.62	95.07	5.51	0.11	95.16
16MW-18	6/8/2005	100.69	6.96	93.73	-	0.00	93.73
16MW-18	7/27/2005	100.69	7.46	93.23	7.45	0.01	93.24
16MW-18	8/17/2005	100.69	8.45	92.24	-	0.00	92.24
16MW-18	9/21/2005	100.69	9.05	91.64	-	0.00	91.64
16MW-18	10/5/2005	100.69	9.30	91.39	-	0.00	91.39
16MW-18	11/9/2005	100.69	6.80	93.89	-	0.00	93.89
16MW-18	12/14/2005	100.69	6.01	94.68	-	0.00	94.68
16MW-18	1/20/2006	100.69	4.48	96.21	-	0.00	96.21
16MW-18	2/28/2006	100.69	6.03	94.66	-	0.00	94.66
16MW-18	3/8/2006	100.69	5.91	94.78	-	0.00	94.78
16MW-18	4/28/2006	100.69	5.03	95.66	-	0.00	95.66
16MW-18	5/4/2006	100.69	5.91	94.78	-	0.00	94.78
16MW-19	8/20/1997	100.54	7.70	92.84	-	0.00	92.84
16MW-19	10/6/1997	100.54	10.29	90.25	10.91	0.62	90.78
16MW-19	12/12/1997	100.54	12.02	88.52	13.15	1.13	89.48
16MW-19	1/7/1998	100.54	10.00	90.54	10.83	0.83	91.24
16MW-19	1/15/1998	100.54	7.03	93.51	7.21	0.18	93.67
16MW-19	2/10/1998	100.54	6.07	94.47	6.16	0.09	94.55
16MW-19	2/24/1998	100.54	5.10	95.44	-	0.00	95.44
16MW-19	3/3/1998	100.54	5.35	95.19	5.37	0.02	95.20
16MW-19	3/12/1998	100.54	4.91	95.63	4.93	0.02	95.64
16MW-19	3/13/1998	100.54	5.05	95.49	-	0.00	95.49
16MW-19	3/26/1998	100.54	4.98	95.56	-	0.00	95 56
16MW-19	4/3/1998	100.54	5.31	95.23	-	0.00	95.23
16MW-19	4/9/1998	100.54	5.54	95.00	5.55	0.01	95.01
16MW-19	4/17/1998	100.54	5.15	95.39	5.19	0.04	95.42
16MW-19	4/24/1998	100.54	4.95	95.59	4.97	0.02	95.61
16MW-19	5/5/1998	100.54	4.73	95.81	4.77	0.04	95.85
16MW-19	5/15/1998	100.54	3.60	96.94	3.61	0.01	96.95
16MW-19	7/30/1998	100.54	7.12	93.42	7.23	0.11	93.51
16MW-19	8/7/1998	100.54	6.97	93.57	6.97	0.00	93.57
16MW-19	8/13/1998	100.54	7.22	93.32	7.23	0.01	93.32
16MW-19	8/21/1998	100.54	7.41	93.13	-	0.00	93.13
16MW-19	9/3/1998	100.54	7.55	92.99	-	0.00	92.99
16MW-19	9/10/1998	100.54	8.53	92.01	8.55	0.02	92.03
16MW-19	10/2/1998	100.54	7.69	92.85	7.70	0.01	92.86
16MW-19	10/20/1998	100.54	7.90	92.64	7.91	0.01	92.65
16MW-19	11/6/1998	100.54	8.17	92.37	8.18	0.01	92.38
16MW-19	12/3/1998	100.54	7.95	92.59	-	0.00	92.59
16MW-19	12/30/1998	100.54	8.09	92.45	8.11	0.02	92.46
16MW-19	1/26/1999	100.54	5.81	94.73	5.85	0.04	94.76
16MW-19	3/9/1999	100.54	6.52	94.02	6.55	0.03	94.05
16MW-19	3/19/1999	100.54	6.20	94.34	6.25	0.05	94.38

APPENDIX B
NAVAL WEAPONS STATION EARLE
BIOSLURPER UNITS
GROUNDWATER LEVEL AND LNAPL THICKNESS DATA

Well ID	Date	Top of Casing (feet)	Depth to Water (feet)	Groundwater Elevation (feet)	Depth to LNAPL (feet)	LNAPL Thickness (feet)	Corrected Elevation (feet)
16MW-19	4/20/1999	100.54	6.60	93.94	6.61	0.01	93.95
16MW-19	5/7/1999	100.54	7.11	93.43	7.14	0.03	93.45
16MW-19	6/1/1999	100.54	7.25	93.29	7.28	0.03	93.31
16MW-19	6/9/1999	100.54	6.94	93.60	-	0.00	93.60
16MW-19	6/9/1999	100.54	7.71	92.83	7.74	0.03	92.86
16MW-19	6/10/1999	100.54	7.68	92.86	-	0.00	92.86
16MW-19	6/14/1999	100.54	7.80	92.74	7.81	0.01	92.75
16MW-19	6/22/1999	100.54	8.01	92.53	8.04	0.03	92.55
16MW-19	7/29/1999	100.54	9.01	91.53	9.06	0.05	91.57
16MW-19	8/3/1999	100.54	9.14	91.40	9.20	0.06	91.45
16MW-19	8/13/1999	100.54	9.05	91.49	-	0.00	91.49
16MW-19	9/3/1999	100.54	9.07	91.47	9.21	0.14	91.59
16MW-19	9/15/1999	100.54	8.99	91.55	9.01	0.02	91.57
16MW-19	10/26/1999	100.54	9.35	91.19	9.77	0.42	91.54
16MW-19	11/2/1999	100.54	9.99	90.55	10.46	0.47	90.95
16MW-19	11/12/1999	100.54	8.45	92.09	8.46	0.01	92.10
16MW-19	11/18/1999	100.54	8.59	91.95	-	0.00	91.95
16MW-19	12/1/1999	100.54	8.35	92.19	8.36	0.01	92.20
16MW-19	12/31/1999	100.54	8.07	92.47	8.11	0.04	92.50
16MW-19	1/26/2000	100.54	8.36	92.18	8.37	0.01	92.19
16MW-19	2/18/2000	100.54	7.51	93.03	7.52	0.01	93.04
16MW-19	4/17/2000	100.54	7.52	93.02	-	0.00	93.02
16MW-19	5/4/2000	100.54	7.22	93.32	7.28	0.06	93.37
16MW-19	8/9/2000	100.54	7.30	93.24	7.52	0.22	93.42
16MW-19	8/24/2000	100.54	8.00	92.54	8.06	0.06	92.59
16MW-19	10/26/2000	100.54	8.77	91.77	8.86	0.09	91.84
16MW-19	11/28/2000	100.54	8.32	92.22	8.38	0.06	92.27
16MW-19	1/16/2001	100.54	8.60	91.94	8.78	0.18	92.09
16MW-19	2/27/2001	100.54	7.37	93.17	-	0.00	93.17
16MW-19	3/27/2001	100.54	6.20	94.34	6.28	0.08	94.41
16MW-19	4/19/2001	100.54	6.40	94.14	6.51	0.11	94.23
16MW-19	5/11/2001	100.54	7.48	93.06	7.60	0.12	93.16
16MW-19	6/6/2001	100.54	7.57	92.97	7.67	0.10	93.05
16MW-19	8/14/2001	100.54	7.30	93.24	7.35	0.05	93.28
16MW-19	9/14/2001	100.54	9.12	91.42	9.24	0.12	91.52
16MW-19	10/11/2001	100.54	8.97	91.57	9.01	0.04	91.60
16MW-19	11/13/2001	100.54	9.10	91.44	9.13	0.03	91.47
16MW-19	12/13/2001	100.54	8.97	91.57	9.01	0.04	91.60
16MW-19	1/8/2002	100.54	8.93	91.61	8.99	0.06	91.66
16MW-19	1/23/2002	100 54	8.82	91.72	8.84	0.02	91.73
16MW-19	2/28/2002	100.54	8.98	91.56	-	0.00	91.56
16MW-19	3/28/2002	100.54	8.00	92.54	8.09	0.09	92.61
16MW-19	4/23/2002	100.54	8.58	91.96	8.61	0.03	91.98
16MW-19	5/15/2002	100.54	8.20	92.34	8.26	0.06	92.39
16MW-19	6/8/2002	100.54	8.55	91.99	8.58	0.03	92.01
16MW-19	6/27/2002	100.54	8.57	91.97	8.59	0.02	91.99
16MW-19	7/16/2002	100.54	9.26	91.28	9.28	0.02	91.29
16MW-19	8/15/2002	100.54	9.52	91.02	-	0.00	91.02
16MW-19	9/10/2002	100.54	8.70	91.84	8.71	0.01	91.85
16MW-19	10/18/2002	100.54	6.91	93.63	6.91	0.00	93.63
16MW-19	11/14/2002	100.54	7.57	92.97	7.58	0.01	92.97
16MW-19	11/26/2002	100.54	7.18	93.36	-	0.00	93.36
16MW-19	12/16/2002	100.54	6.90	93.64	6.93	0.03	93.66
16MW-19	1/28/2003	100.54	7.31	93.23	7.31	0.00	93.23
16MW-19	2/26/2003	100.54	6.43	94.11	6.49	0.06	94.16
16MW-19	3/31/2003	100.54	6.25	94.29	6.26	0.01	94.30
16MW-19	4/29/2003	100.54	6.32	94.22	6.34	0.02	94.23
16MW-19	5/23/2003	100.54	7.08	93.46	7.11	0.03	93.48
16MW-19	6/26/2003	100.54	5.56	94.98	-	0.00	94.98
16MW-19	8/1/2003	100.54	7.28	93.26	7.33	0.05	93.30

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NAVAL WEAPONS STATION EARLE
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GROUNDWATER LEVEL AND LNAPL THICKNESS DATA

Well ID	Date	Top of Casing (feet)	Depth to Water (feet)	Groundwater Elevation (feet)	Depth to LNAPL (feet)	LNAPL Thickness (feet)	Corrected Elevation (feet)
16MW-19	8/26/2003	100.54	7.37	93.17	7.38	0.01	93.17
16MW-19	9/17/2003	100.54	7.65	92.89	-	0.00	92.89
16MW-19	10/28/2003	100.54	8.12	92.42	8.20	0.08	92.48
16MW-19	12/30/2003	100.54	6.46	94.08	-	0.00	94.08
16MW-19	1/16/2004	100.54	7.10	93.44	7.12	0.02	93.45
16MW-19	2/18/2004	100.54	6.63	93.91	6.66	0.03	93.93
16MW-19	3/24/2004	100.54	6.40	94.14	6.22	0.18	94.29
16MW-19	4/5/2004	100.54	5.98	94.56	5.96	0.02	94.58
16MW-19	5/5/2004	100.54	6.15	94.39	-	0.00	94.39
16MW-19	6/29/2004	100.54	7.57	92.97	7.54	0.03	93.00
16MW-19	7/27/2004	100.54	7.50	93.04	-	0.00	93.04
16MW-19	8/18/2004	100.54	7.73	92.81	7.59	0.14	92.93
16MW-19	9/1/2004	100.54	7.41	93.13	7.40	0.01	93.14
16MW-19	10/19/2004	100.54	8.00	92.54	-	0.00	92.54
16MW-19	11/23/2004	100.54	7.63	92.91	7.48	0.15	93.04
16MW-19	12/16/2004	100.54	7.39	93.15	6.46	0.93	93.94
16MW-19	1/12/2005	100.54	7.25	93.29	6.61	0.64	93.84
16MW-19	3/2/2005	100.54	7.41	93.13	6.34	1.07	94.04
16MW-19	4/5/2005	100.54	6.49	94.05	5.39	1.10	94.99
16MW-19	5/13/2005	100.54	6.32	94.22	5.46	0.86	94.95
16MW-19	6/8/2005	100.54	6.61	93.93	-	0.00	93.93
16MW-19	7/27/2005	100.54	7.40	93.14	-	0.00	93.14
16MW-19	8/17/2005	100.54	8.30	92.24	-	0.00	92 24
16MW-19	9/21/2005	100.54	8.80	91.74	-	0.00	91.74
16MW-19	10/5/2005	100.54	9.01	91.53	9.00	0.01	91.54
16MW-19	11/9/2005	100.54	7.00	93.54	-	0.00	93.54
16MW-19	12/14/2005	100.54	6.92	93.62	6.82	0.10	93.71
16MW-19	1/20/2006	100.54	4.57	95.97	-	0.00	95.97
16MW-19	2/28/2006	100.54	6.43	94.11	6.34	0.09	94.19
16MW-19	3/8/2006	100.54	6.35	94.19	6.32	0.03	94.22
16MW-19	4/28/2006	100.54	5.51	95.03	-	0.00	95.03
16MW-19	5/4/2006	100.54	6.92	93.62	6.46	0.46	94.01
16MW-20	8/20/1997	100.82	9.88	90.94	10.33	0.45	91.32
16MW-20	10/6/1997	100.82	10.22	90.60	10.68	0.46	90.99
16MW-20	12/12/1997	100.82	10.55	90.27	11.16	0.61	90.79
16MW-20	1/7/1998	100.82	10.36	90.46	11.06	0.70	91.05
16MW-20	1/22/1998	100.82	10.50	90.32	11.27	0.77	90.97
16MW-20	2/10/1998	100.82	7.71	93.11	7.86	0.15	93.24
16MW-20	2/24/1998	100.82	6.80	94.02	6.88	0.08	94.09
16MW-20	3/3/1998	100.82	6.85	93.97	6.92	0.07	94.03
16MW-20	3/12/1998	100.82	6.37	94.45	6.39	0.02	94.47
16MW-20	3/13/1998	100.82	6.43	94.39	6.45	0.02	94.41
16MW-20	3/26/1998	100.82	6.21	94.61	6 21	0.00	94.61
16MW-20	4/3/1998	100.82	6.60	94.22	6 64	0.04	94.25
16MW-20	4/9/1998	100.82	6.68	94.14	6.70	0.02	94.16
16MW-20	4/17/1998	100.82	6.49	94.33	6.50	0.01	94.34
16MW-20	4/24/1998	100.82	6.48	94.34	6.51	0.03	94.36
16MW-20	5/5/1998	100.82	5.70	95.12	5.76	0.06	95.17
16MW-20	5/15/1998	100.82	5.54	95.29	5.59	0.06	95.33
16MW-20	7/30/1998	100.82	8.98	91.84	9.35	0.37	92.15
16MW-20	8/7/1998	100.82	8.11	92.71	8.16	0.05	92.75
16MW-20	8/13/1998	100.82	8.29	92.53	8.34	0.05	92.57
16MW-20	8/21/1998	100.82	8.40	92.42	8.45	0.05	92.46
16MW-20	9/3/1998	100.82	8.65	92.17	8.71	0.06	92.22
16MW-20	9/10/1998	100.82	8.48	92.34	8.50	0.02	92.36
16MW-20	10/2/1998	100.82	8.73	92.09	8.78	0.05	92.13
16MW-20	10/20/1998	100.82	8.66	92.16	-	0.00	92.16
16MW-20	11/6/1998	100.82	8.79	92.03	-	0.00	92.03
16MW-20	12/3/1998	100.82	9.03	91.79	9.09	0.06	91.84

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NAVAL WEAPONS STATION EARLE
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GROUNDWATER LEVEL AND LNAPL THICKNESS DATA

Well ID	Date	Top of Casing (feet)	Depth to Water (feet)	Groundwater Elevation (feet)	Depth to LNAPL (feet)	LNAPL Thickness (feet)	Corrected Elevation (feet)
16MW-20	1/26/1999	100.82	7.70	93.12	7.73	0.03	93.14
16MW-20	2/10/1999	100.82	8.05	92.77	8.10	0.05	92.81
16MW-20	3/9/1999	100.82	7.95	92.87	7.98	0.03	92.89
16MW-20	3/19/1999	100.82	7.66	93.16	7.67	0.01	93.17
16MW-20	4/20/1999	100.82	7.70	93.12	7.71	0.01	93.12
16MW-20	5/7/1999	100.82	7.91	92.91	7.93	0.02	92.92
16MW-20	6/1/1999	100.82	8.36	92.46	8.40	0.04	92.49
16MW-20	6/9/1999	100.82	8.80	92 02	8.88	0.08	92.09
16MW-20	6/10/1999	100.82	7.72	93.10	7.77	0.05	93.14
16MW-20	6/14/1999	100.82	8.85	91.97	8.94	0.09	92.04
16MW-20	6/22/1999	100.82	8.59	92.23	8.68	0.09	92.30
16MW-20	7/29/1999	100.82	9.40	91.42	-	0.00	91.42
16MW-20	8/3/1999	100.82	10.25	90.57	10.44	0.19	90.73
16MW-20	9/3/1999	100.82	9.45	91.37	9.47	0.02	91.38
16MW-20	9/15/1999	100.82	9.72	91.10	9.79	0.07	91.16
16MW-20	11/2/1999	100.82	10.08	90.74	10.40	0.32	91.01
16MW-20	11/12/1999	100.82	9.17	91.65	9.20	0.03	91.68
16MW-20	11/18/1999	100.82	9.40	91.42	-	0.00	91.42
16MW-20	12/1/1999	100.82	9.31	91.51	9.39	0.08	91.58
16MW-20	12/31/1999	100.82	8.84	91.98	8.87	0.03	92.01
16MW-20	1/26/2000	100.82	9.28	91.54	9 37	0.09	91.62
16MW-20	2/18/2000	100.82	8.82	92.00	8.88	0.06	92.05
16MW-20	4/17/2000	100.82	9.21	91.61	9.48	0.27	91.84
16MW-20	5/4/2000	100.82	8.05	92.77	8.27	0.22	92.96
16MW-20	8/9/2000	100.82	8.32	92.50	8.34	0.02	92.52
16MW-20	8/24/2000	100.82	7.70	93.12	-	0.00	93.12
16MW-20	10/26/2000	100.82	9.21	91.61	9.25	0.04	91.64
16MW-20	1/16/2001	100.82	9.15	91.67	9.31	0.16	91.81
16MW-20	2/27/2001	100.82	8.40	92.42	8.50	0.10	92.50
16MW-20	3/27/2001	100.82	7.80	93.02	7.93	0.13	93.13
16MW-20	4/19/2001	100 82	7.77	93.05	7.94	0.17	93.20
16MW-20	5/11/2001	100.82	8.88	91.94	9.22	0.34	92.23
16MW-20	6/6/2001	100.82	9.85	90.97	10.37	0.52	91.41
16MW-20	8/14/2001	100.82	10.59	90.23	11.12	0.53	90.68
16MW-20	9/14/2001	100.82	10.80	90 02	11.24	0.44	90.40
16MW-20	10/11/2001	100.82	9.62	91.20	9.69	0.07	91.26
16MW-20	11/13/2001	100.82	9.73	91.09	9.79	0.06	91.14
16MW-20	12/13/2001	100.82	9.67	91.15	9.75	0.08	91.21
16MW-20	1/8/2002	100.82	9.81	91.01	9.97	0.16	91.14
16MW-20	1/23/2002	100.82	9.63	91.19	9.73	0.10	91.28
16MW-20	2/28/2002	100.82	9.69	91.13	9.74	0.05	91.17
16MW-20	3/28/2002	100.82	8.75	92.07	8 76	0.01	92.07
16MW-20	4/23/2002	100.82	9.30	91.52	9.37	0.07	91.58
16MW-20	5/15/2002	100.82	9.14	91.68	9.26	0.12	91.78
16MW-20	6/8/2002	100.82	9.19	91.63	9.22	0.03	91.65
16MW-20	6/27/2002	100.82	9.45	91.37	9.56	0.11	91.47
16MW-20	7/16/2002	100.82	9.75	91.07	-	0.00	91.07
16MW-20	8/15/2002	100.82	10.13	90.69	10.14	0.01	90.70
16MW-20	9/10/2002	100.82	9.60	91.22	9.67	0.07	91.28
16MW-20	10/18/2002	100.82	5.70	95.12	-	0.00	95.12
16MW-20	11/14/2002	100.82	8.60	92.22	-	0.00	92.22
16MW-20	11/26/2002	100.82	8.40	92.42	8.43	0.03	92.44
16MW-20	12/16/2002	100.82	8.30	92.52	8.36	0.06	92.57
16MW-20	1/28/2003	100.82	8.23	92.59	8.26	0.03	92.62
16MW-20	2/26/2003	100.82	7.76	93.06	7.83	0.07	93.12
16MW-20	3/31/2003	100.82	7.51	93.31	7.54	0.03	93.34
16MW-20	4/29/2003	100.82	7.98	92.84	8.17	0.19	93.00
16MW-20	5/23/2003	100.82	8.10	92.72	8.20	0.10	92.81
16MW-20	6/26/2003	100.82	6.91	93.91	6.94	0.03	93.93
16MW-20	8/1/2003	100.82	8.15	92.67	8.21	0.06	92.72

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NAVAL WEAPONS STATION EARLE
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Well ID	Date	Top of Casing (feet)	Depth to Water (feet)	Groundwater Elevation (feet)	Depth to LNAPL (feet)	LNAPL Thickness (feet)	Corrected Elevation (feet)
16MW-20	8/26/2003	100.82	8.70	92.12	8.83	0.13	92.23
16MW-20	9/17/2003	100.82	8.68	92.14	-	0.00	92.14
16MW-20	10/28/2003	100.82	8.45	92.37	8.46	0.01	92.38
16MW-20	12/30/2003	100.82	7.49	93.33	7.51	0.02	93.34
16MW-20	2/18/2004	100.82	7.73	93.09	7.74	0.01	93.10
16MW-20	3/24/2004	100.82	7.51	93.31	7.38	0.13	93.42
16MW-20	4/5/2004	100.82	7.15	93.67	7.09	0.06	93.72
16MW-20	5/5/2004	100.82	6.87	93.95	-	0.00	93.95
16MW-20	6/29/2004	100.82	8.16	92.66	-	0.00	92.66
16MW-20	7/27/2004	100.82	8.20	92.62	-	0.00	92.62
16MW-20	8/18/2004	100.82	8.55	92.27	8.45	0.10	92.36
16MW-20	9/1/2004	100.82	8.67	92.15	8.65	0.02	92.17
16MW-20	10/19/2004	100.82	8.49	92.33	-	0.00	92.33
16MW-20	11/23/2004	100.82	8.52	92.30	8.41	0.11	92.39
16MW-20	12/16/2004	100.82	8.01	92.81	7.85	0.16	92.95
16MW-20	1/12/2005	100.82	7.98	92.84	7.82	0.16	92.98
16MW-20	2/17/2005	100.82	7.82	93.00	7.53	0.29	93.25
16MW-20	3/2/2005	100.82	7.90	92.92	7.61	0.29	93.17
16MW-20	4/5/2005	100.82	7.32	93.50	6.87	0.45	93.88
16MW-20	5/13/2005	100.82	7.56	93.26	7.11	0.45	93.64
16MW-20	6/8/2005	100.82	8.19	92.63	7.62	0.57	93.12
16MW-20	7/27/2005	100.82	8.75	92.07	8.30	0.45	92.45
16MW-20	8/17/2005	100.82	9 00	91.82	8.90	0.10	91.91
16MW-20	9/21/2005	100.82	9.45	91.37	-	0.00	91.37
16MW-20	10/5/2005	100.82	9.60	91.22	-	0.00	91.22
16MW-20	11/9/2005	100.82	7.80	93.02	7.70	0.10	93.11
16MW-20	12/14/2005	100.82	8 28	92.54	7.68	0.60	93.05
16MW-20	1/20/2006	100.82	6.82	94.00	-	0.00	94.00
16MW-20	2/28/2006	100.82	7.41	93.41	7.13	0.00	93.41
16MW-20	3/8/2006	100.82	7.32	93.50	7.23	0.09	93.58
16MW-20	4/28/2006	100.82	7.35	93.47	-	0.00	93.47
16MW-20	5/4/2006	100.82	7.44	93.38	-	0.00	93.38
16MW-21	8/20/1997	99.78	7.57	92.21	-	0.00	92.21
16MW-21	10/6/1997	99.78	7.80	91.98	-	0.00	91.98
16MW-21	12/12/1997	99.78	7.70	92.08	-	0.00	92.08
16MW-21	1/7/1998	99.78	7.12	92.66	-	0.00	92.66
16MW-21	2/10/1998	99.78	6.00	93.78	-	0.00	93.78
16MW-21	2/24/1998	99.78	5.67	94.11	-	0.00	94.11
16MW-21	3/3/1998	99.78	5.40	94.38	-	0.00	94.38
16MW-21	3/12/1998	99.78	5.03	94.75	-	0.00	94.75
16MW-21	3/13/1998	99.78	5.17	94.61	-	0.00	94.61
16MW-21	3/26/1998	99.78	4.90	94.88	-	0.00	94.88
16MW-21	4/3/1998	99.78	5.25	94.53	-	0.00	94.53
16MW-21	4/9/1998	99.78	5.55	94.23	-	0.00	94.23
16MW-21	4/17/1998	99.78	5.10	94.68	-	0.00	94.68
16MW-21	4/24/1998	99.78	5.93	93.85	-	0.00	93.85
16MW-21	5/5/1998	99.78	4.88	94.90	-	0.00	94.90
16MW-21	5/15/1998	99.78	4.10	95.68	-	0.00	95.68
16MW-21	7/30/1998	99.78	6.95	92.83	-	0.00	92.83
16MW-21	8/7/1998	99.78	7.21	92.57	-	0.00	92.57
16MW-21	8/13/1998	99.78	7.41	92.37	-	0.00	92.37
16MW-21	8/21/1998	99.78	7.51	92.27	-	0.00	92.27
16MW-21	9/3/1998	99.78	7.57	92.21	-	0.00	92.21
16MW-21	9/10/1998	99.78	7.70	92.08	-	0.00	92.08
16MW-21	10/2/1998	99.78	7.77	92.01	-	0.00	92.01
16MW-21	10/20/1998	99.78	7.86	91.92	-	0.00	91.92
16MW-21	11/6/1998	99.78	0.00	99.78	-	0.00	99.78
16MW-21	12/3/1998	99.78	8.00	91.78	-	0.00	91.78
16MW-21	1/26/1999	99.78	5.05	94.73	-	0.00	94.73

APPENDIX B
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GROUNDWATER LEVEL AND LNAPL THICKNESS DATA

Well ID	Date	Top of Casing (feet)	Depth to Water (feet)	Groundwater Elevation (feet)	Depth to LNAPL (feet)	LNAPL Thickness (feet)	Corrected Elevation (feet)
16MW-21	3/9/1999	99.78	6 57	93.21	-	0.00	93.21
16MW-21	3/19/1999	99.78	5.56	94.22	-	0.00	94.22
16MW-21	4/20/1999	99.78	6.40	93.38	-	0.00	93.38
16MW-21	5/7/1999	99.78	7.05	92.73	-	0.00	92.73
16MW-21	6/1/1999	99.78	7.45	92.33	-	0.00	92.33
16MW-21	6/9/1999	99.78	7.15	92.63	-	0.00	92.63
16MW-21	6/14/1999	99.78	7.77	92.01	-	0.00	92.01
16MW-21	6/22/1999	99.78	7.00	92.78	-	0.00	92.78
16MW-21	7/29/1999	99.78	8.75	91.03	-	0.00	91.03
16MW-21	8/3/1999	99.78	8.89	90.89	-	0.00	90.89
16MW-21	9/15/1999	99.78	8.70	91.08	-	0.00	91.08
16MW-21	11/18/1999	99.78	8.33	91.45	-	0.00	91.45
16MW-21	2/18/2000	99.78	7.51	92.27	-	0.00	92.27
16MW-21	4/17/2000	99.78	7.35	92.43	-	0.00	92.43
16MW-21	5/4/2000	99.78	7.20	92.58	-	0.00	92.58
16MW-21	8/9/2000	99.78	6.20	93.58	-	0.00	93.58
16MW-21	8/24/2000	99.78	7.88	91.90	-	0.00	91.90
16MW-21	10/26/2000	99.78	8.30	91.48	-	0.00	91.48
16MW-21	1/16/2001	99.78	7.80	91.98	-	0.00	91.98
16MW-21	2/27/2001	99.78	7.27	92.51	-	0.00	92.51
16MW-21	3/27/2001	99.78	5.65	94.13	-	0.00	94.13
16MW-21	4/19/2001	99.78	5.70	94.08	-	0.00	94.08
16MW-21	5/11/2001	99.78	6.95	92.83	-	0.00	92.83
16MW-21	6/6/2001	99.78	7.19	92.59	-	0.00	92.59
16MW-21	8/14/2001	99.78	8.00	91.78	-	0.00	91.78
16MW-21	9/14/2001	99.78	8.51	91.27	-	0.00	91.27
16MW-21	10/11/2001	99.78	8.59	91.19	-	0.00	91.19
16MW-21	11/13/2001	99.78	8.74	91.04	-	0.00	91.04
16MW-21	12/13/2001	99.78	8.58	91.20	-	0.00	91.20
16MW-21	1/8/2002	99.78	8.41	91.37	-	0.00	91.37
16MW-21	1/22/2002	99.78	7.06	92.72	-	0.00	92.72
16MW-21	1/23/2002	99.78	8.46	91.32	-	0.00	91.32
16MW-21	2/28/2002	99.78	8.69	91.09	-	0.00	91.09
16MW-21	3/28/2002	99.78	5.86	93.92	-	0.00	93.92
16MW-21	4/23/2002	99.78	8.22	91.56	-	0.00	91.56
16MW-21	5/15/2002	99.78	6.17	93.61	-	0.00	93.61
16MW-21	6/8/2002	99.78	8.26	91.52	-	0.00	91.52
16MW-21	6/27/2002	99.78	8.05	91.73	-	0.00	91.73
16MW-21	7/16/2002	99.78	9.00	90.78	-	0.00	90.78
16MW-21	8/15/2002	99.78	9.36	90.42	-	0.00	90.42
16MW-21	9/10/2002	99.78	7.78	92.00	-	0.00	92.00
16MW-21	10/18/2002	99.78	5.75	94.03	5.83	0.08	94.09
16MW-21	11/14/2002	99.78	6.17	93.61	6.18	0.01	93.61
16MW-21	11/26/2002	99.78	6.31	93.47	-	0.00	93.47
16MW-21	12/16/2002	99.78	5.80	93.98	-	0.00	93.98
16MW-21	1/28/2003	99.78	7.21	92.57	-	0.00	92.57
16MW-21	2/26/2003	99.78	5.79	93.99	-	0.00	93.99
16MW-21	3/31/2003	99.78	4.60	95.18	-	0.00	95.18
16MW-21	4/29/2003	99.78	4.70	95.08	-	0.00	95.08
16MW-21	5/23/2003	99.78	6.88	92.90	-	0.00	92.90
16MW-21	6/26/2003	99.78	0.00	99.78	-	0.00	99.78
16MW-21	8/1/2003	99.78	7.00	92.78	-	0.00	92.78
16MW-21	8/26/2003	99.78	7.30	92.48	-	0.00	92.48
16MW-21	9/17/2003	99.78	7.28	92.50	-	0.00	92.50
16MW-21	10/28/2003	99.78	7.61	92.17	-	0.00	92.17
16MW-21	12/30/2003	99.78	6.15	93.63	-	0.00	93.63
16MW-21	2/18/2004	99.78	6.55	93.23	-	0.00	93.23
16MW-21	3/24/2004	99.78	6.10	93.68	-	0.00	93.68
16MW-21	4/5/2004	99.78	4.91	94.87	-	0.00	94.87
16MW-21	5/5/2004	99.78	5.53	94.25	-	0.00	94.25

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Well ID	Date	Top of Casing (feet)	Depth to Water (feet)	Groundwater Elevation (feet)	Depth to LNAPL (feet)	LNAPL Thickness (feet)	Corrected Elevation (feet)
16MW-21	6/29/2004	99.78	7.58	92 20	-	0.00	92.20
16MW-21	7/27/2004	99.78	7.50	92.28	-	0.00	92.28
16MW-21	8/18/2004	99.78	8.60	91.18	-	0.00	91.18
16MW-21	9/1/2004	99.78	8.80	90 98	8.79	0.01	90.98
16MW-21	10/19/2004	99.78	6.95	92 83	-	0.00	92.83
16MW-21	11/23/2004	99.78	7.50	92.28	-	0.00	92.28
16MW-21	12/16/2004	99.78	7.08	92.70	-	0.00	92.70
16MW-21	1/12/2005	99.78	7.22	92.56	-	0.00	92.56
16MW-21	2/17/2005	99.78	6.75	93.03	-	0.00	93.03
16MW-21	3/2/2005	99.78	6.89	92.89	-	0.00	92.89
16MW-21	4/5/2005	99.78	6.14	93.64	-	0.00	93.64
16MW-21	5/13/2005	99.78	6.32	93.46	-	0.00	93.46
16MW-21	6/8/2005	99.78	6.92	92.86	-	0.00	92.86
16MW-21	7/27/2005	99.78	7.68	92.10	-	0.00	92.10
16MW-21	8/17/2005	99.78	8.20	91.58	-	0.00	91.58
16MW-21	9/21/2005	99.78	8.70	91.08	-	0.00	91.08
16MW-21	10/5/2005	99.78	8.85	90.93	-	0.00	90.93
16MW-21	11/9/2005	99.78	6.95	92.83	-	0.00	92.83
16MW-21	12/14/2005	99.78	6.82	92.96	-	0.00	92.96
16MW-21	1/20/2006	99.78	5.92	93.86	-	0.00	93.86
16MW-21	2/28/2006	99.78	7.25	92.53	-	0.00	92.53
16MW-21	3/8/2006	99.78	7.32	92.46	-	0.00	92.46
16MW-21	4/28/2006	99.78	6.61	93.17	-	0.00	93.17
16MW-21	5/4/2006	99.78	6.71	93.07	-	0.00	93.07
16MW-22	12/12/1997	102.22	7.70	94.52	-	0.00	94.52
16MW-22	1/7/1998	102.22	5.34	96.88	-	0.00	96.88
16MW-22	2/10/1998	102.22	2.98	99.24	-	0.00	99.24
16MW-22	2/24/1998	102.22	1.60	100.62	-	0.00	100.62
16MW-22	3/3/1998	102.22	2.87	99.35	-	0.00	99.35
16MW-22	3/26/1998	102.22	1.85	100.37	-	0.00	100.37
16MW-22	4/3/1998	102.22	2.05	100.17	-	0.00	100.17
16MW-22	4/17/1998	102.22	2.10	100.12	-	0.00	100.12
16MW-22	4/24/1998	102.22	1.52	100.70	-	0.00	100.70
16MW-22	5/15/1998	102.22	2.86	99.36	-	0.00	99 36
16MW-22	7/30/1998	102.22	6.03	96.19	-	0.00	96.19
16MW-22	8/13/1998	102.22	6.10	96.12	-	0.00	96.12
16MW-22	10/2/1998	102.22	7.78	94.44	-	0.00	94.44
16MW-22	11/6/1998	102.22	8.79	93.43	-	0.00	93.43
16MW-22	1/26/1999	102.22	1.81	100.41	-	0.00	100.41
16MW-22	3/9/1999	102.22	3.45	98.77	-	0.00	98.77
16MW-22	3/19/1999	102.22	8.38	93.84	-	0.00	93.84
16MW-22	4/20/1999	102.22	4.15	98.07	-	0.00	98.07
16MW-22	5/7/1999	102.22	7.05	95.17	-	0.00	95.17
16MW-22	6/1/1999	102.22	5.81	96.41	-	0.00	96.41
16MW-22	6/9/1999	102.22	6.11	96.11	-	0.00	96.11
16MW-22	6/14/1999	102.22	7.57	94.65	7.62	0.05	94.69
16MW-22	6/22/1999	102.22	7.11	95.11	-	0.00	95.11
16MW-22	5/4/2000	102.22	8.86	93.36	-	0.00	93.36
16MW-23	12/12/1997	102.58	9.19	93.39	-	0.00	93.39
16MW-23	1/7/1998	102.58	8.67	93.91	-	0.00	93.91
16MW-23	1/7/1998	102.58	8.67	93.91	-	0.00	93.91
16MW-23	2/10/1998	102.58	7.80	94.78	-	0.00	94.78
16MW-23	2/24/1998	102.58	7.20	95.38	-	0.00	95.38
16MW-23	3/3/1998	102.58	7.10	95.48	-	0.00	95.48
16MW-23	3/26/1998	102.58	6.60	95.98	-	0.00	95.98
16MW-23	4/3/1998	102.58	6.90	95.68	-	0.00	95.68
16MW-23	4/17/1998	102.58	6.95	95.63	-	0.00	95.63
16MW-23	4/24/1998	102.58	6.84	95.74	-	0.00	95.74

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Well ID	Date	Top of Casing (feet)	Depth to Water (feet)	Groundwater Elevation (feet)	Depth to LNAPL (feet)	LNAPL Thickness (feet)	Corrected Elevation (feet)
16MW-23	5/15/1998	102.58	5.89	96.69	-	0.00	96.69
16MW-23	7/30/1998	102.58	8.03	94.55	-	0.00	94.55
16MW-23	8/13/1998	102.58	8.46	94 12	-	0.00	94.12
16MW-23	10/2/1998	102.58	9.03	93.55	-	0.00	93.55
16MW-23	1/26/1999	102.58	8.21	94.37	-	0.00	94.37
16MW-23	3/9/1999	102.58	8.53	94.05	-	0.00	94.05
16MW-23	3/19/1999	102.58	8.31	94.27	-	0 00	94.27
16MW-23	4/20/1999	102.58	8.32	94.26	-	0.00	94.26
16MW-23	6/1/1999	102.58	8.80	93.78	-	0.00	93.78
16MW-23	6/9/1999	102.58	9.01	93.57	-	0.00	93.57
16MW-23	6/22/1999	102.58	9.75	92.83	-	0.00	92.83
16MW-23	8/3/1999	102.58	10.00	92.58	-	0.00	92.58
16MW-23	9/15/1999	102.58	10.11	92.47	-	0.00	92.47
16MW-23	4/17/2000	102.58	0.00	102.58	-	0.00	102.58
16MW-23	5/4/2000	102.58	0.00	102.58	-	0.00	102 58
16MW-24	3/27/2001	102.06	8.15	93.91	-	0.00	93.91
16MW-24	4/19/2001	102.06	7.83	94.23	-	0.00	94.23
16MW-24	5/11/2001	102.06	8.49	93.57	-	0.00	93.57
16MW-24	6/6/2001	102 06	8.78	93.28	-	0.00	93.28
16MW-24	8/14/2001	102.06	9.48	92.58	-	0.00	92.58
16MW-24	9/14/2001	102.06	9.93	92.13	-	0.00	92.13
16MW-24	10/11/2001	102.06	10.12	91.94	-	0.00	91.94
16MW-24	11/13/2001	102.06	10.31	91.75	-	0.00	91.75
16MW-24	12/13/2001	102.06	10.23	91.83	-	0.00	91.83
16MW-24	1/8/2002	102.06	10.13	91.93	-	0.00	91.93
16MW-24	1/23/2002	102.06	10.19	91.87	-	0.00	91.87
16MW-24	2/28/2002	102.06	10.34	91.72	-	0.00	91.72
16MW-24	3/28/2002	102.06	9.62	92.44	-	0.00	92.44
16MW-24	4/23/2002	102.06	9.88	92.18	-	0.00	92.18
16MW-24	5/15/2002	102.06	9.63	92.43	-	0.00	92.43
16MW-24	6/8/2002	102.06	9.88	92.18	-	0.00	92.18
16MW-24	6/27/2002	102.06	9.84	92.22	-	0.00	92.22
16MW-24	7/16/2002	102.06	10.43	91.63	-	0.00	91.63
16MW-24	8/15/2002	102.06	10.81	91.25	-	0.00	91.25
16MW-25	3/27/2001	100.92	8.01	92.91	-	0.00	92.91
16MW-25	4/19/2001	100.92	6.20	94.72	-	0.00	94.72
16MW-25	6/6/2001	100.92	7.37	93.55	-	0.00	93.55
16MW-25	8/14/2001	100 92	8.48	92.44	8.50	0.02	92.45
16MW-25	9/14/2001	100.92	8.91	92.01	8.92	0.01	92.02
16MW-25	10/11/2001	100.92	9.08	91.84	9.10	0.02	91.85
16MW-25	11/13/2001	100.92	9.23	91.69	9.24	0.01	91.70
16MW-25	12/13/2001	100.92	9.18	91.74	9.19	0.01	91.75
16MW-25	1/8/2002	100.92	9.07	91.85	9.08	0.01	91.85
16MW-25	1/23/2002	100.92	9.11	91.81	-	0.00	91.81
16MW-25	2/28/2002	100.92	9.28	91.64	-	0.00	91.64
16MW-25	3/28/2002	100.92	8.50	92.42	8.51	0.01	92.43
16MW-25	4/23/2002	100.92	8.84	92.08	8.85	0.01	92.09
16MW-25	5/15/2002	100.92	8.57	92.35	8.58	0.01	92.36
16MW-25	6/8/2002	100.92	8.81	92.11	8.83	0.02	92.12
16MW-25	6/27/2002	100.92	8.85	92.07	8.88	0.03	92.09
16MW-25	7/16/2002	100.92	10.47	90.45	10.50	0.03	90.47
16MW-25	8/15/2002	100.92	9.76	91.16	9.79	0.03	91.19
16MW-25	9/10/2002	100.92	9.12	91.80	9.15	0.03	91.83
16MW-25	10/18/2002	100.92	8.10	92.82	8.11	0.01	92.83
16MW-25	11/14/2002	100.92	8.40	92.52	8.43	0.03	92.54
16MW-25	11/26/2002	100.92	7.95	92.97	7.99	0.04	93.00
16MW-25	12/16/2002	100.92	7.70	93.22	7.74	0.04	93.25
16MW-25	1/28/2003	100.92	7.85	93.07	7.86	0.01	93.08

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Well ID	Date	Top of Casing (feet)	Depth to Water (feet)	Groundwater Elevation (feet)	Depth to LNAPL (feet)	LNAPL Thickness (feet)	Corrected Elevation (feet)
16MW-25	2/26/2003	100.92	7.29	93.63	7.34	0.05	93.67
16MW-25	3/31/2003	100.92	6.98	93.94	7.00	0.02	93.96
16MW-25	4/29/2003	100.92	6.86	94.06	-	0.00	94.06
16MW-25	5/23/2003	100.92	7.26	93.66	7.29	0.03	93.68
16MW-25	6/26/2003	100.92	6.46	94.46	6.47	0.01	94.47
16MW-25	8/1/2003	100.92	7.70	93.22	7.74	0.04	93.26
16MW-25	8/26/2003	100.92	8.00	92.92	8.05	0.05	92.96
16MW-25	9/17/2003	100.92	7.68	93.24	7.70	0.02	93.25
16MW-25	10/28/2003	100.92	8.18	92.74	-	0.00	92.74
16MW-25	11/11/2003	100.92	7.98	92.94	8.01	0.03	92.96
16MW-25	12/30/2003	100.92	7.17	93.75	7.19	0.02	93.77
16MW-25	1/16/2004	100.92	7.55	93.37	7.58	0.03	93.39
16MW-25	3/24/2004	100.92	7.14	93.78	7.05	0.09	93.86
16MW-25	4/5/2004	100.92	6.65	94.27	6.57	0.08	94.34
16MW-25	5/5/2004	100.92	6.60	94.32	6.46	0.14	94.44
16MW-25	6/29/2004	100.92	7.94	92.98	7.88	0.06	93.03
16MW-25	7/27/2004	100.92	7.50	93.42	-	0.00	93.42
16MW-25	8/18/2004	100.92	8.06	92.86	8.05	0.01	92.87
16MW-25	9/1/2004	100.92	8.40	92.52	8.30	0.10	92.61
16MW-25	10/19/2004	100.92	8.40	92.52	8.35	0.05	92.56
16MW-25	11/23/2004	100.92	8.25	92.67	8.12	0.13	92.78
16MW-25	12/16/2004	100.92	7.62	93.30	7.52	0.10	93.39
16MW-25	1/12/2005	100.92	7.70	93.22	7.51	0.19	93.38
16MW-25	2/17/2005	100.92	7.28	93.64	7.22	0.06	93.69
16MW-25	3/2/2005	100.92	7.36	93.56	7.29	0.07	93.62
16MW-25	4/5/2005	100.92	6.68	94.24	6.66	0.02	94.26
16MW-25	5/13/2005	100.92	6.56	94.36	-	0.00	94.36
16MW-25	6/8/2005	100.92	7.29	93.63	-	0.00	93.63
16MW-25	7/27/2005	100.92	8.05	92.87	7.97	0.08	92.94
16MW-25	8/17/2005	100.92	8.50	92.42	-	0.00	92.42
16MW-25	9/21/2005	100.92	9.10	91.82	9.00	0.10	91.91
16MW-25	10/5/2005	100.92	9.20	91.72	-	0.00	91.72
16MW-25	11/9/2005	100.92	7.40	93.52	7.35	0.05	93.56
16MW-25	12/14/2005	100.92	7.35	93.57	-	0.00	93.57
16MW-25	1/20/2006	100.92	6.58	94.34	6.39	0.19	94.50
16MW-25	2/28/2006	100.92	7.24	93.68	6.45	0.79	94.35
16MW-25	3/8/2006	100.92	7.13	93.79	6.32	0.81	94.48
16MW-25	4/28/2006	100.92	7.22	93.70	7.01	0.21	93.88
16MW-25	5/4/2006	100.92	7.38	93.54	7.08	0.30	93.80
16MW-26	3/27/2001	101.67	8.52	93.15	8.53	0.01	93.15
16MW-26	4/19/2001	101.67	5.82	95.85	-	0.00	95.85
16MW-26	5/11/2001	101.67	8.41	93.26	8.42	0.01	93.26
16MW-26	6/6/2001	101.67	7.45	94.22	-	0.00	94.22
16MW-26	8/14/2001	101.67	9.22	92.45	-	0.00	92.45
16MW-26	9/14/2001	101.67	9.90	91.77	-	0.00	91.77
16MW-26	10/11/2001	101.67	9.08	92.59	-	0.00	92.59
16MW-26	11/13/2001	101.67	10.38	91.29	-	0.00	91.29
16MW-26	12/13/2001	101.67	9.97	91.70	9.98	0.01	91.70
16MW-26	6/8/2002	101.67	7.50	94.17	-	0.00	94.17
16MW-26	6/27/2002	101.67	6.40	95.27	-	0.00	95.27
16MW-26	8/15/2002	101.67	10.21	91.46	-	0.00	91.46
16MW-26	10/18/2002	101.57	6.00	95.57	-	0.00	95.57
16MW-26	11/14/2002	101.57	6.09	95.48	-	0.00	95.48
16MW-26	11/26/2002	101.57	6.11	95.46	-	0.00	95.46
16MW-26	12/16/2002	101.67	5.56	96.11	-	0.00	96.11
16MW-26	1/28/2003	101.67	7.55	94.12	-	0.00	94.12
16MW-26	2/26/2003	101.67	0.00	101.67	-	0.00	101.67
16MW-26	5/23/2003	101.67	8.10	93.57	-	0.00	93.57
16MW-26	6/26/2003	101.67	4.16	97.51	-	0.00	97.51

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Well ID	Date	Top of Casing (feet)	Depth to Water (feet)	Groundwater Elevation (feet)	Depth to LNAPL (feet)	LNAPL Thickness (feet)	Corrected Elevation (feet)
16MW-26	8/1/2003	101.67	7.10	94.57	-	0.00	94.57
16MW-26	8/26/2003	101.67	6.80	94.87	-	0.00	94.87
16MW-26	9/17/2003	101.67	6.29	95.38	-	0.00	95.38
16MW-26	10/28/2003	101.67	7.65	94.02	-	0.00	94.02
16MW-26	11/11/2003	101.67	4.98	96.69	-	0.00	96.69
16MW-26	12/30/2003	101.67	4.15	97.52	-	0.00	97.52
16MW-26	2/18/2004	101.67	5.13	96.54	-	0.00	96.54
16MW-26	3/24/2004	101.67	4.35	97.32	-	0.00	97.32
16MW-26	4/5/2004	101.67	3.59	98.08	-	0.00	98.08
16MW-26	5/5/2004	101.67	4.35	97.32	-	0.00	97.32
16MW-26	6/29/2004	101.67	8.64	93.03	-	0.00	93.03
16MW-26	7/27/2004	101.67	8.00	93.67	-	0.00	93.67
16MW-26	8/18/2004	101.67	5.45	96.22	-	0.00	96.22
16MW-26	9/1/2004	101.67	6.50	95.17	-	0.00	95.17
16MW-26	10/19/2004	101.67	7.32	94.35	-	0.00	94.35
16MW-26	11/23/2004	101.67	4.66	97.01	-	0.00	97.01
16MW-26	12/16/2004	101.67	4.21	97.46	-	0.00	97.46
16MW-26	1/12/2005	101.67	4.45	97.22	-	0.00	97.22
16MW-26	2/17/2005	101.67	5.25	96.42	-	0.00	96.42
16MW-26	3/2/2005	101.67	5.30	96.37	-	0.00	96.37
16MW-26	4/5/2005	101.67	5.05	96.62	-	0.00	96.62
16MW-26	5/13/2005	101.67	5.62	96.05	-	0.00	96.05
16MW-26	6/8/2005	101.67	5.81	95.86	-	0.00	95.86
16MW-26	7/27/2005	101.67	5.60	96.07	-	0.00	96.07
16MW-26	8/17/2005	101.67	9.40	92.27	-	0.00	92.27
16MW-26	9/21/2005	101.67	10.16	91.51	-	0.00	91.51
16MW-26	10/5/2005	101 67	10.35	91.32	-	0.00	91.32
16MW-26	11/9/2005	101.67	5.45	96.22	-	0.00	96.22
16MW-26	12/14/2005	101.67	4.90	96.77	-	0.00	96.77
16MW-26	1/20/2006	101.67	5.06	96.61	-	0.00	96.61
16MW-26	2/28/2006	101.67	6.16	95.51	-	0.00	95.51
16MW-26	3/8/2006	101.67	6.22	95.45	-	0.00	95.45
16MW-26	4/28/2006	101.67	5.28	96.39	-	0.00	96.39
16MW-26	5/4/2006	101.67	5.48	96.19	-	0.00	96.19
16MW-27	3/27/2001	100.80	10.22	90.58	10.80	0.58	91.07
16MW-27	4/19/2001	100.80	9.53	91.27	10.32	0.79	91.95
16MW-27	5/11/2001	100.80	9.63	91.17	10.29	0.66	91.73
16MW-27	6/6/2001	100.80	9.23	91.57	9.78	0.55	92.04
16MW-27	8/14/2001	100.80	9.22	91.58	9.47	0.25	91.79
16MW-27	9/14/2001	100.80	9.67	91.13	9.92	0.25	91.34
16MW-27	10/11/2001	100.80	9.48	91.32	9.63	0.15	91.45
16MW-27	11/13/2001	100.80	10.26	90.54	10.59	0.33	90.82
16MW-27	12/13/2001	100.80	9.79	91.01	10.01	0.22	91.19
16MW-27	1/8/2002	100.80	10.55	90.25	10.95	0.40	90.59
16MW-27	1/23/2002	100.80	10.14	90.66	10.46	0.32	90.93
16MW-27	2/28/2002	100.80	10.40	90.40	10.75	0.35	90.70
16MW-27	3/28/2002	100.80	9.56	91.24	9.88	0.32	91.51
16MW-27	4/23/2002	100.80	9.92	90.88	10.26	0.34	91.17
16MW-27	5/15/2002	100.80	9.25	91.55	9.47	0.22	91.74
16MW-27	6/8/2002	100.80	9.15	91.65	9.26	0.11	91.75
16MW-27	6/27/2002	100.80	9.00	91.80	9.08	0.08	91.86
16MW-27	7/16/2002	100.80	10.36	90.44	10.69	0.33	90.72
16MW-27	8/15/2002	100.80	10.72	90.08	11.94	1.22	91.12
16MW-27	9/10/2002	100.80	7.35	93.45	-	0.00	93.45
16MW-27	10/18/2002	100.80	8.65	92.15	8.79	0.14	92.27
16MW-27	11/14/2002	100.80	8.80	92.00	8.95	0.15	92.12
16MW-27	11/26/2002	100.80	8.70	92.10	8.91	0.21	92.28
16MW-27	12/16/2002	100.80	0.00	100.80	-	0.00	100.80
16MW-27	1/28/2003	100.80	7.65	93.15	7.70	0.05	93.19

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Well ID	Date	Top of Casing (feet)	Depth to Water (feet)	Groundwater Elevation (feet)	Depth to LNAPL (feet)	LNAPL Thickness (feet)	Corrected Elevation (feet)
16MW-27	2/26/2003	100.80	7.95	92.85	8.24	0.29	93.10
16MW-27	3/31/2003	100.80	7.25	93.55	7.32	0.07	93.61
16MW-27	4/29/2003	100.80	7.10	93.70	7.15	0.05	93.74
16MW-27	5/23/2003	100.80	7.46	93.34	7.56	0.10	93.43
16MW-27	6/26/2003	100.80	6.51	94.29	6.61	0.10	94.38
16MW-27	8/1/2003	100.80	8.16	92 64	8.41	0 25	92.85
16MW-27	8/26/2003	100.80	8.10	92.70	8.19	0.09	92.77
16MW-27	9/17/2003	100.80	7.94	92.86	7.96	0.02	92.88
16MW-27	10/28/2003	100.80	8.25	92.55	8.36	0.11	92.65
16MW-27	12/30/2003	100.80	7.00	93.80	7.06	0.06	93.85
16MW-27	1/16/2004	100.80	7.64	93.16	7.79	0.15	93.29
16MW-27	2/18/2004	100.80	7.25	93.55	7.26	0.01	93.56
16MW-27	4/5/2004	100.80	7.18	93 62	6.75	0.43	93.99
16MW-27	5/5/2004	100.80	7.50	93.30	6.39	1.11	94.25
16MW-27	6/29/2004	100.80	8.08	92.72	7.76	0.32	92.99
16MW-27	7/27/2004	100.80	7.60	93.20	7.50	0.10	93.29
16MW-27	8/18/2004	100.80	8.23	92.57	7.92	0.31	92.83
16MW-27	9/1/2004	100.80	8.30	92.50	8.30	0.00	92.50
16MW-27	10/19/2004	100.80	8.81	91.99	8.10	0.71	92.59
16MW-27	11/23/2004	100.80	8.54	92.26	7.93	0.61	92.78
16MW-27	12/16/2004	100.80	8.87	91.93	7.28	1 59	93.28
16MW-27	1/12/2005	100.80	8.72	92.08	7.30	1.42	93.29
16MW-27	2/17/2005	100.80	8.42	92.38	6.92	1.50	93.66
16MW-27	3/2/2005	100.80	8.59	92.21	6.99	1.60	93.57
16MW-27	4/5/2005	100.80	6.76	94.04	6.44	0.32	94.31
16MW-27	5/13/2005	100.80	6.96	93.84	6.57	0.39	94.17
16MW-27	6/8/2005	100.80	7.45	93.35	7.15	0.30	93.61
16MW-27	7/27/2005	100.80	7.90	92.90	-	0.00	92.90
16MW-27	8/17/2005	100.80	8.50	92.30	8.40	0.10	92.39
16MW-27	9/21/2005	100.80	8.91	91.89	8.90	0.01	91.90
16MW-27	10/5/2005	100.80	9.10	91.70	-	0.00	91.70
16MW-27	11/9/2005	100.80	7.20	93.60	-	0.00	93.60
16MW-27	12/14/2005	100.80	7.31	93.49	7.30	0.01	93.50
16MW-27	1/20/2006	100.80	6.35	94.45	-	0.00	94.45
16MW-27	2/28/2006	100.80	7.25	93.55	6.65	0.60	94.06
16MW-27	3/8/2006	100.80	7.22	93.58	6.52	0.70	94.18
16MW-27	4/28/2006	100.80	6.95	93.85	-	0.00	93.85
16MW-27	5/4/2006	100.80	7.31	93.49	7.02	0.29	93.74
16MW-28	3/27/2001	100.62	7.46	93.16	-	0.00	93.16
16MW-28	4/19/2001	100.62	7.85	92.77	7.86	0.01	92.78
16MW-28	5/11/2001	100.62	7.16	93.46	7.82	0.66	94.02
16MW-28	6/6/2001	100.62	7.28	93.34	-	0 00	93.34
16MW-28	8/14/2001	100.62	8.27	92.35	-	0.00	92.35
16MW-28	9/14/2001	100.62	8.62	92.00	-	0.00	92.00
16MW-28	10/11/2001	100.62	8.81	91.81	-	0.00	91.81
16MW-28	11/13/2001	100.62	8.94	91.68	-	0.00	91.68
16MW-28	12/13/2001	100.62	8.87	91.75	-	0.00	91.75
16MW-28	1/8/2002	100.62	9.00	91.62	-	0.00	91.62
16MW-28	1/23/2002	100.62	8.84	91.78	-	0.00	91.78
16MW-28	2/28/2002	100.62	9.01	91.61	-	0.00	91.61
16MW-28	3/28/2002	100.62	8.30	92.32	-	0.00	92.32
16MW-28	4/23/2002	100.62	8.56	92.06	-	0.00	92.06
16MW-28	5/15/2002	100.62	8.29	92.33	-	0.00	92.33
16MW-28	6/8/2002	100.62	8.55	92.07	-	0.00	92.07
16MW-28	7/16/2002	100.62	9.11	91.51	-	0.00	91.51
16MW-28	8/15/2002	100.62	9.48	91.14	-	0.00	91.14
16MW-28	9/10/2002	100.62	8.75	91.87	-	0.00	91.87
16MW-28	10/18/2002	100.62	7.80	92.82	-	0.00	92.82
16MW-28	11/14/2002	100.62	7.85	92.77	-	0.00	92.77

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Well ID	Date	Top of Casing (feet)	Depth to Water (feet)	Groundwater Elevation (feet)	Depth to LNAPL (feet)	LNAPL Thickness (feet)	Corrected Elevation (feet)
16MW-28	11/26/2002	100.62	7.60	93.02	-	0.00	93.02
16MW-28	12/16/2002	100.62	7.30	93.32	-	0.00	93.32
16MW-28	1/28/2003	100.62	7.40	93.22	-	0.00	93.22
16MW-28	2/26/2003	100.62	7.00	93.62	-	0.00	93.62
16MW-28	3/31/2003	100.62	6.85	93.77	-	0.00	93.77
16MW-28	4/29/2003	100.62	6.65	93.97	-	0.00	93.97
16MW-28	5/23/2003	100.62	7.25	93.37	-	0.00	93.37
16MW-28	9/17/2003	100.62	7.78	92.84	-	0.00	92.84
16MW-28	12/30/2003	100.62	6.78	93.84	-	0.00	93.84
16MW-28	2/18/2004	100.62	7.00	93.62	-	0.00	93.62
16MW-28	3/24/2004	100.62	6.76	93.86	-	0.00	93.86
16MW-28	4/5/2004	100.62	6.02	94.60	-	0.00	94.60
16MW-28	5/5/2004	100.62	6.20	94.42	-	0.00	94.42
16MW-28	6/29/2004	100.62	7.67	92.95	-	0.00	92.95
16MW-28	7/27/2004	100.62	7.50	93.12	-	0.00	93.12
16MW-28	8/18/2004	100.62	7.05	93.57	-	0.00	93.57
16MW-28	9/1/2004	100.62	8.10	92.52	-	0.00	92.52
16MW-28	11/23/2004	100.62	7.88	92.74	-	0.00	92.74
16MW-28	4/5/2005	100.62	6.09	94.53	-	0.00	94.53
16MW-28	5/13/2005	100.62	6.56	94.06	-	0.00	94.06
16MW-28	6/8/2005	100.62	7.06	93.56	-	0.00	93.56
16MW-28	7/27/2005	100.62	7.80	92.82	-	0.00	92.82
16MW-28	8/17/2005	100.62	8.30	92.32	-	0.00	92.32
16MW-28	9/21/2005	100.62	8.80	91.82	-	0.00	91.82
16MW-28	10/5/2005	100.62	8.95	91.67	-	0.00	91.67
16MW-28	11/9/2005	100.62	7.10	93.52	-	0.00	93.52
16MW-31	11/20/2005	99.94	7.21	92.73	-	0.00	92.73
16MW-31	11/30/2005	99.94	8.40	91.54	-	0.00	91.54
16MW-31	12/7/2005	99.94	8.45	91.49	-	0.00	91.49
16MW-31	12/14/2005	99.94	8.61	91.33	-	0.00	91.33
16MW-31	12/23/2005	99.94	8.45	91.49	-	0.00	91.49
16MW-31	12/28/2005	99.94	8.45	91.49	-	0.00	91.49
16MW-31	1/4/2006	99.94	7.63	92.31	-	0.00	92.31
16MW-31	1/10/2006	99.94	8.07	91.87	-	0.00	91.87
16MW-31	1/20/2006	99.94	7.69	92.25	7.62	0.07	92.31
16MW-31	1/27/2006	99.94	7.72	92.22	7.65	0.07	92.28
16MW-31	2/28/2006	99.94	6.51	93.43	-	0.00	93.43
16MW-31	3/8/2006	99.94	6.42	93.52	-	0.00	93.52
16MW-31	4/28/2006	99.94	6.76	93.18	-	0.00	93.18
16MW-31	5/4/2006	99.94	6.92	93.02	-	0.00	93.02
16MW-32	11/20/2005	100.28	8.42	91 86	8.35	0.07	91.92
16MW-32	11/30/2005	100.28	8.36	91.92	8.35	0.01	91.93
16MW-32	12/7/2005	100.28	8.51	91.77	8.50	0.01	91.78
16MW-32	12/14/2005	100.28	8.64	91.64	8.51	0.13	91.75
16MW-32	12/23/2005	100.28	8.42	91.86	8.40	0.02	91.88
16MW-32	12/28/2005	100.28	8.52	91.76	-	0.00	91.76
16MW-32	1/4/2006	100.28	7.84	92.44	7.76	0.08	92.51
16MW-32	1/10/2006	100.28	8.15	92.13	8.02	0.13	92.24
16MW-32	1/20/2006	100.28	11.78	88.50	7.65	4.13	92.02
16MW-32	1/27/2006	100.28	11.84	88.44	7.52	4.32	92.12
16MW-32	2/28/2006	100.28	7.13	93.15	6.71	0.42	93.51
16MW-32	3/8/2006	100.28	7.08	93.20	6.69	0.39	93.53
16MW-32	4/28/2006	100.28	7.45	92.83	6.92	0.53	93.28
16MW-32	5/4/2006	100.28	7.62	92.66	7.01	0.61	93.18
16MW-33	11/20/2005	100.50	11.25	89.25	7.71	3.54	92.27
16MW-33	11/30/2005	100.50	11.65	88.85	7.60	4.05	92.30
16MW-33	12/7/2005	100.50	11.80	88.70	7.80	4.00	92.11

APPENDIX B
NAVAL WEAPONS STATION EARLE
BIOSLURPER UNITS
GROUNDWATER LEVEL AND LNAPL THICKNESS DATA

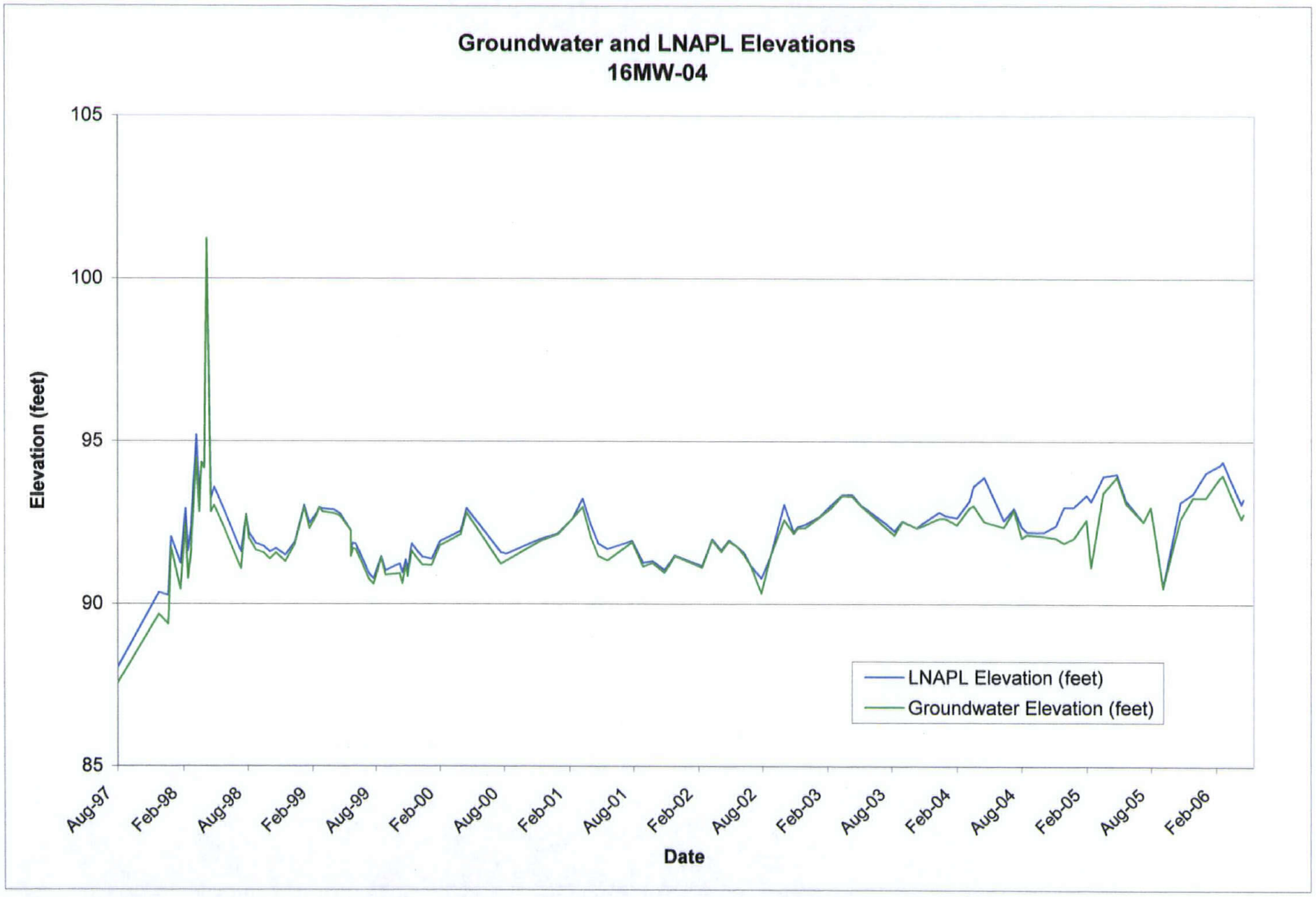
Well ID	Date	Top of Casing (feet)	Depth to Water (feet)	Groundwater Elevation (feet)	Depth to LNAPL (feet)	LNAPL Thickness (feet)	Corrected Elevation (feet)
16MW-33	12/14/2005	100.50	11.61	88.89	7.85	3.76	92.09
16MW-33	12/23/2005	100.50	12.00	88.50	7.60	4.40	92.25
16MW-33	12/28/2005	100.50	11.52	88.98	7.66	3.86	92.27
16MW-33	1/4/2006	100.50	11.54	88.96	7.02	4.52	92.81
16MW-33	1/10/2006	100.50	12.95	87.55	7.04	5.91	92.59
16MW-33	1/20/2006	100.50	13.04	87.46	6.56	6.48	92.98
16MW-33	1/27/2006	100.50	12.97	87.53	6.42	6.55	93.11
16MW-33	2/28/2006	100.50	11.35	89.15	6.16	5.19	93.57
16MW-33	3/8/2006	100 50	11.38	89.12	6.18	5.20	93.55
16MW-33	4/28/2006	100.50	12 59	87.91	6.22	6.37	93.34
16MW-33	5/4/2006	100.50	12.16	88.34	7.31	4.85	92.47
16MW-34	11/20/2005	100.09	7.91	92.18	-	0.00	92.18
16MW-34	11/30/2005	100.09	7.95	92.14	-	0.00	92.14
16MW-34	12/7/2005	100.09	8.10	91.99	-	0.00	91.99
16MW-34	12/14/2005	100.09	8.08	92 01	-	0.00	92.01
16MW-34	12/23/2005	100.09	7.90	92.19	-	0.00	92.19
16MW-34	12/28/2005	100.09	7.87	92.22	-	0.00	92.22
16MW-34	1/4/2006	100.09	7.29	92.80	-	0.00	92.80
16MW-34	1/10/2006	100.09	7.65	92.44	7.51	0.14	92.56
16MW-34	1/20/2006	100.09	7.08	93.01	-	0.00	93.01
16MW-34	1/27/2006	100.09	7.21	92.88	-	0.00	92.88
16MW-34	2/28/2006	100 09	7.16	92.93	5.81	1.35	94.08
16MW-34	3/8/2006	100.09	7.11	92.98	5.75	1.36	94.14
16MW-34	4/28/2006	100.09	6.28	93.81	-	0.00	93.81
16MW-34	5/4/2006	100.09	6.12	93.97	-	0.00	93.97
16MW-35	11/20/2005	99.90	9.21	90.69	7.65	1.56	92.02
16MW-35	11/30/2005	99.90	9.15	90.75	7.65	1.50	92.03
16MW-35	12/7/2005	99.90	9.00	90.90	7.80	1.20	91.92
16MW-35	12/14/2005	99.90	9.15	90.75	7.82	1.33	91.88
16MW-35	12/23/2005	99.90	9.20	90.70	7.60	1.60	92.06
16MW-35	12/28/2005	99.90	9.21	90.69	7.61	1.60	92.05
16MW-35	1/4/2006	99.90	9.15	90.75	6.92	2.23	92.65
16MW-35	1/10/2006	99.90	10.38	89.52	7.17	3.21	92.25
16MW-35	1/20/2006	99.90	10.12	89.78	6.72	3.40	92.68
16MW-35	1/27/2006	99.90	9.12	90.78	6.91	2.21	92.66
16MW-35	2/28/2006	99.90	7.31	92.59	5.42	1.89	94.20
16MW-35	3/8/2006	99.90	7.26	92.64	5.35	1.91	94.27
16MW-35	4/28/2006	99.90	6.91	92.99	5 81	1.10	93.93
16MW-35	5/4/2006	99.90	7.24	92.66	5.87	1.37	93.83
C17MW-07	10/6/1997	100.16	12.03	88.13	13.31	1.28	89.22
C17MW-07	12/12/1997	100.16	11.69	88.47	12.95	1.26	89.54
C17MW-07	1/7/1998	100.16	11.78	88.38	13.20	1.42	89.59
C17MW-07	1/15/1998	100.16	7.95	92.21	8.27	0.32	92.48
C17MW-07	2/10/1998	100.16	9.05	91.11	9.89	0.84	91.82
C17MW-07	2/24/1998	100.16	6.00	94.16	6.15	0.15	94.29
C17MW-07	3/3/1998	100.16	5.89	94.27	6.38	0.49	94.69
C17MW-07	3/12/1998	100.16	5.99	94.17	6.17	0.18	94.32
C17MW-07	3/13/1998	100.16	5.96	94.20	6.10	0.14	94.32
C17MW-07	3/26/1998	100.16	5.35	94.81	5.36	0.01	94.82
C17MW-07	4/3/1998	100.16	5.90	94.26	5.99	0.09	94.34
C17MW-07	4/9/1998	100.16	6.02	94.14	6.10	0.08	94.21
C17MW-07	4/17/1998	100.16	5.99	94.17	6.11	0.12	94.27
C17MW-07	4/24/1998	100.16	5.90	94.26	6.03	0.13	94.37
C17MW-07	5/5/1998	100.16	6.50	93.66	6.78	0.28	93.90
C17MW-07	5/15/1998	100.16	5.50	94.66	5.72	0.22	94.85
C17MW-07	7/30/1998	100.16	10.61	89.55	11.73	1.12	90.50
C17MW-07	8/7/1998	100.16	7.80	92.36	8.05	0.25	92.57

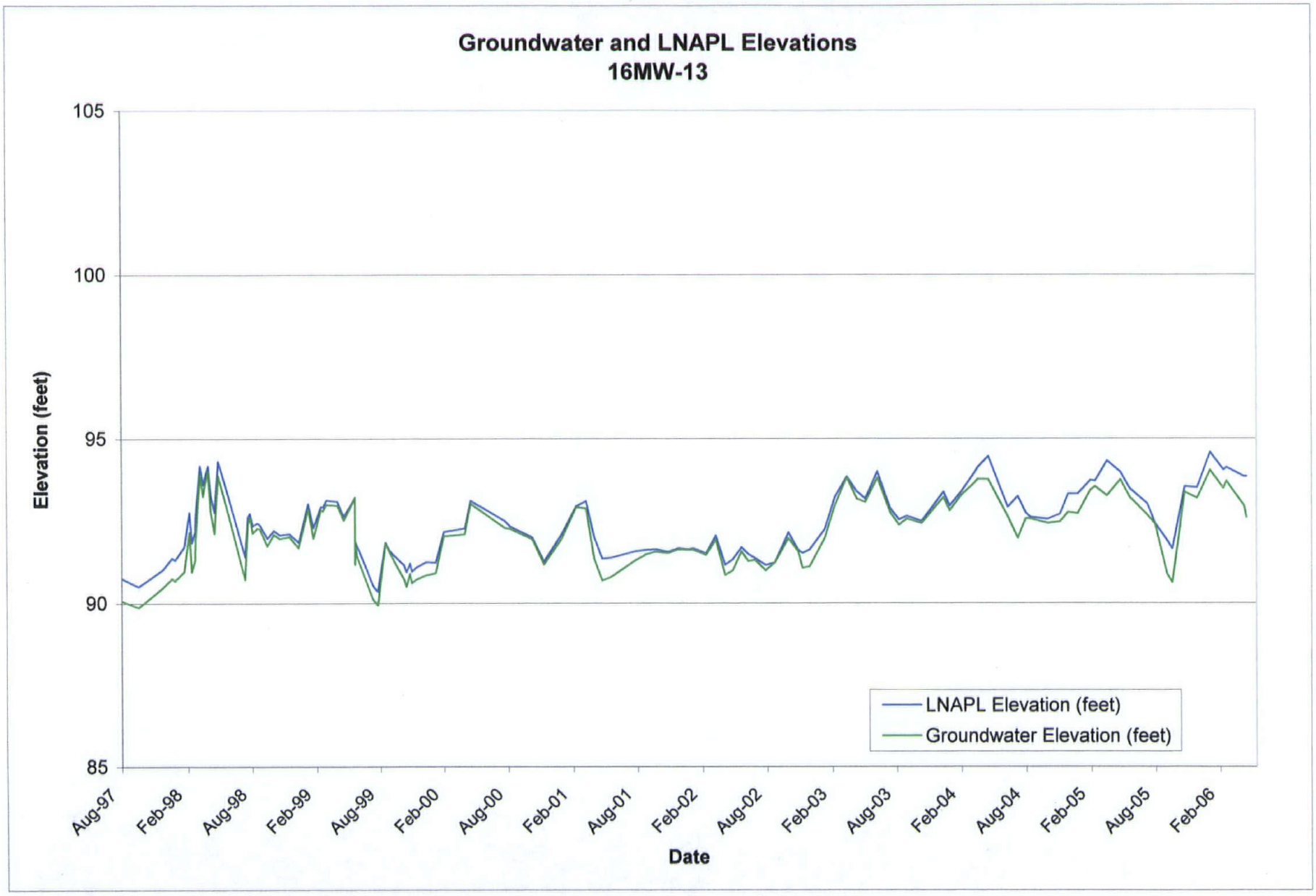
APPENDIX B
NAVAL WEAPONS STATION EARLE
BIOSLURPER UNITS
GROUNDWATER LEVEL AND LNAPL THICKNESS DATA

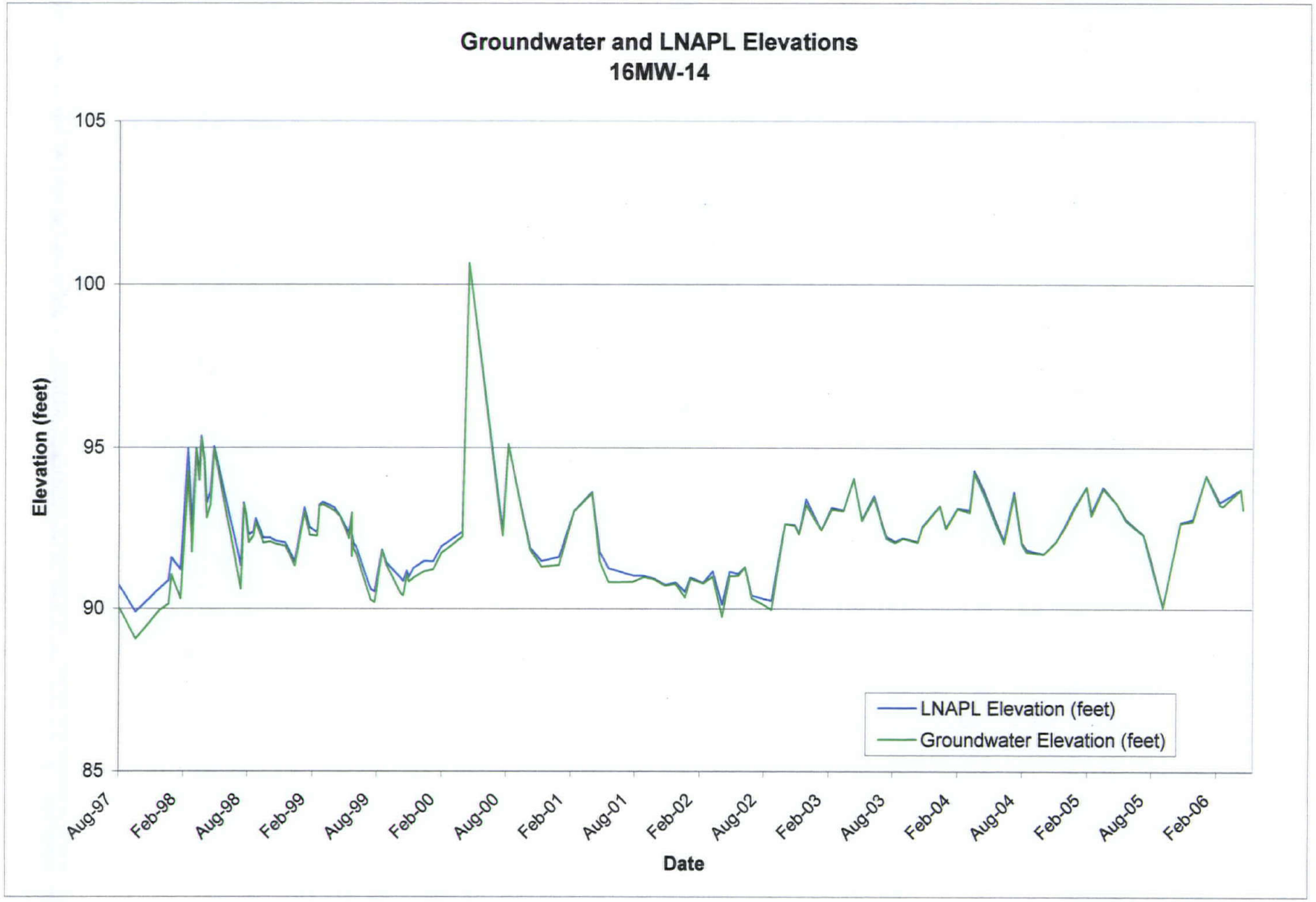
Well ID	Date	Top of Casing (feet)	Depth to Water (feet)	Groundwater Elevation (feet)	Depth to LNAPL (feet)	LNAPL Thickness (feet)	Corrected Elevation (feet)
C17MW-07	8/13/1998	100.16	7.61	92.55	7.72	0.11	92.65
C17MW-07	8/21/1998	100.16	7.27	92.89	7.39	0.11	92.98
C17MW-07	9/3/1998	100.16	7.76	92.40	7.91	0.15	92.53
C17MW-07	9/10/1998	100.16	7.42	92.75	7.50	0.09	92.82
C17MW-07	10/2/1998	100.16	8.16	92.00	8.37	0.21	92.17
C17MW-07	10/20/1998	100.16	7.88	92.28	7.98	0.10	92.37
C17MW-07	12/3/1998	100.16	7.96	92.20	8.04	0.08	92.27
C17MW-07	12/30/1998	100.16	8.03	92.13	8.15	0.12	92.23
C17MW-07	1/26/1999	100.16	6.65	93.51	6.75	0.10	93.59
C17MW-07	2/10/1999	100.16	7.20	92.96	7.37	0.17	93.11
C17MW-07	3/9/1999	100.16	6.95	93.21	7.06	0.11	93.31
C17MW-07	3/19/1999	100.16	6.46	93.70	6.54	0.08	93.77
C17MW-07	4/20/1999	100.16	6.92	93.24	7.03	0.11	93.33
C17MW-07	5/7/1999	100.16	7.00	93.16	7.08	0.08	93.22
C17MW-07	6/1/1999	100.16	7.61	92.55	7.75	0.14	92.67
C17MW-07	6/9/1999	100.16	7.20	92.96	-	0.00	92.96
C17MW-07	6/9/1999	100.16	8.39	91.77	8.67	0.28	92.00
C17MW-07	6/10/1999	100.16	7.93	92.23	8.06	0.13	92.34
C17MW-07	6/14/1999	100.16	8.25	91.91	8.47	0.22	92.10
C17MW-07	6/22/1999	100.16	8.55	91.61	8.87	0.32	91.88
C17MW-07	7/29/1999	100.16	10.40	89.76	11.00	0.60	90.27
C17MW-07	8/3/1999	100.16	10.62	89.54	11.25	0.63	90.08
C17MW-07	8/13/1999	100.16	10.96	89.20	11.66	0.70	89.80
C17MW-07	9/3/1999	100.16	8.37	91.79	8.41	0.04	91.83
C17MW-07	9/15/1999	100.16	9.37	90.79	9.66	0.29	90.81
C17MW-07	10/26/1999	100.16	11.04	89.12	12.06	1.02	89.99
C17MW-07	11/2/1999	100.16	10.99	89.17	11.92	0 93	89.96
C17MW-07	11/18/1999	100.16	8.56	91.60	8.73	0.17	91.74
C17MW-07	12/1/1999	100.16	8.45	91.71	8.64	0.19	91.87
C17MW-07	12/31/1999	100.16	8.30	91.86	8.52	0.22	92.05
C17MW-07	1/26/2000	100.16	8.20	91.96	8.32	0.12	92.06
C17MW-07	2/18/2000	100.16	7.47	92.69	7.50	0.03	92.72
C17MW-07	4/17/2000	100.16	7.38	92.78	7.46	0.08	92.85
C17MW-07	5/4/2000	100.16	7.92	92.24	7.98	0.06	92.29
C17MW-07	8/9/2000	100.16	7.07	93.09	7.13	0.06	93.14
C17MW-07	8/24/2000	100.16	7.50	92.66	7.52	0.02	92.68
C17MW-07	10/26/2000	100.16	8.08	92.08	8.14	0.06	92.13
C17MW-07	11/28/2000	100.16	8.00	92.16	8.16	0.16	92.29
C17MW-07	1/16/2001	100.16	8.10	92.06	8.30	0.20	92.23
C17MW-07	2/27/2001	100.16	6.42	93.74	6.43	0.01	93.74
C17MW-07	3/27/2001	100.16	6.25	93.91	6.29	0.04	93.95
C17MW-07	4/19/2001	100.16	6.44	93.72	6.58	0.14	93 84
C17MW-07	5/11/2001	100.16	7.19	92.97	7.34	0.15	93.10
C17MW-07	6/6/2001	100.16	7.57	92.59	7.76	0.19	92.75
C17MW-07	8/14/2001	100.16	8.96	91.20	9.33	0.37	91.52
C17MW-07	9/14/2001	100.16	8.76	91.40	8.94	0.18	91.55
C17MW-07	10/11/2001	100.16	8.36	91.80	8.40	0.04	91.83
C17MW-07	11/13/2001	100.16	8.91	91.25	9.06	0.15	91.38
C17MW-07	12/13/2001	100.16	8.93	91.23	9.14	0.21	91.40
C17MW-07	1/8/2002	100.16	9.38	90.78	9.76	0.38	91.11
C17MW-07	1/23/2002	100.16	9.70	90.46	10.17	0.47	90.86
C17MW-07	2/28/2002	100.16	9.21	90.95	9.47	0.26	91.17
C17MW-07	3/28/2002	100.16	8.30	91.86	8.68	0.38	92.18
C17MW-07	4/23/2002	100.16	8.70	91.46	8.98	0.28	91.70
C17MW-07	5/15/2002	100.16	8.50	91.66	8.84	0.34	91.95
C17MW-07	6/8/2002	100.16	8.80	91.36	9.14	0.34	91.65
C17MW-07	6/27/2002	100.16	8.80	91.36	9.15	0.35	91.66
C17MW-07	7/16/2002	100.16	8.65	91.51	8.68	0.03	91.53
C17MW-07	8/15/2002	100.16	9.53	90.63	10.23	0.70	91.23
C17MW-07	9/10/2002	100.16	8.10	92.06	8.14	0.04	92.10

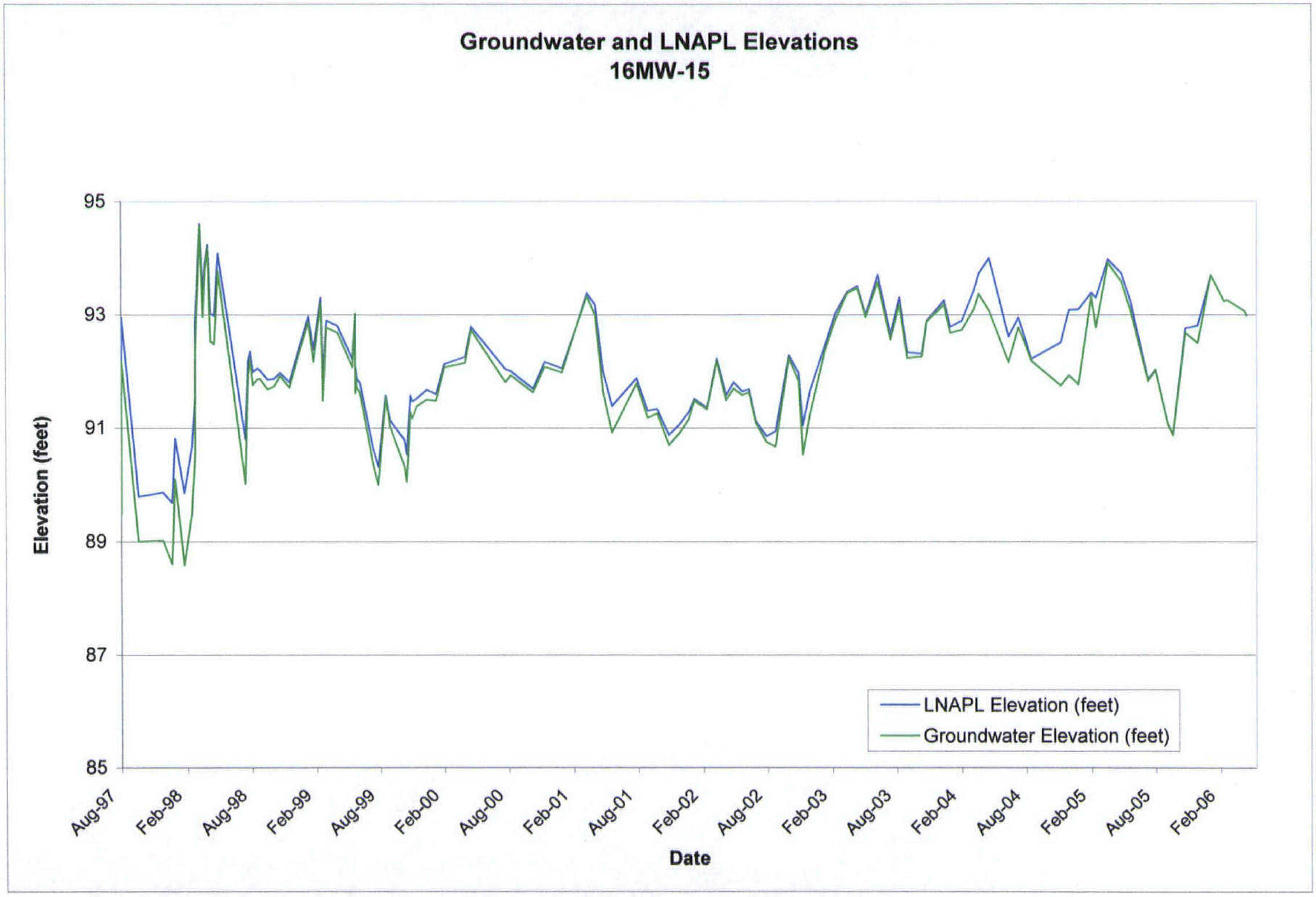
APPENDIX B
NAVAL WEAPONS STATION EARLE
BIOSLURPER UNITS
GROUNDWATER LEVEL AND LNAPL THICKNESS DATA

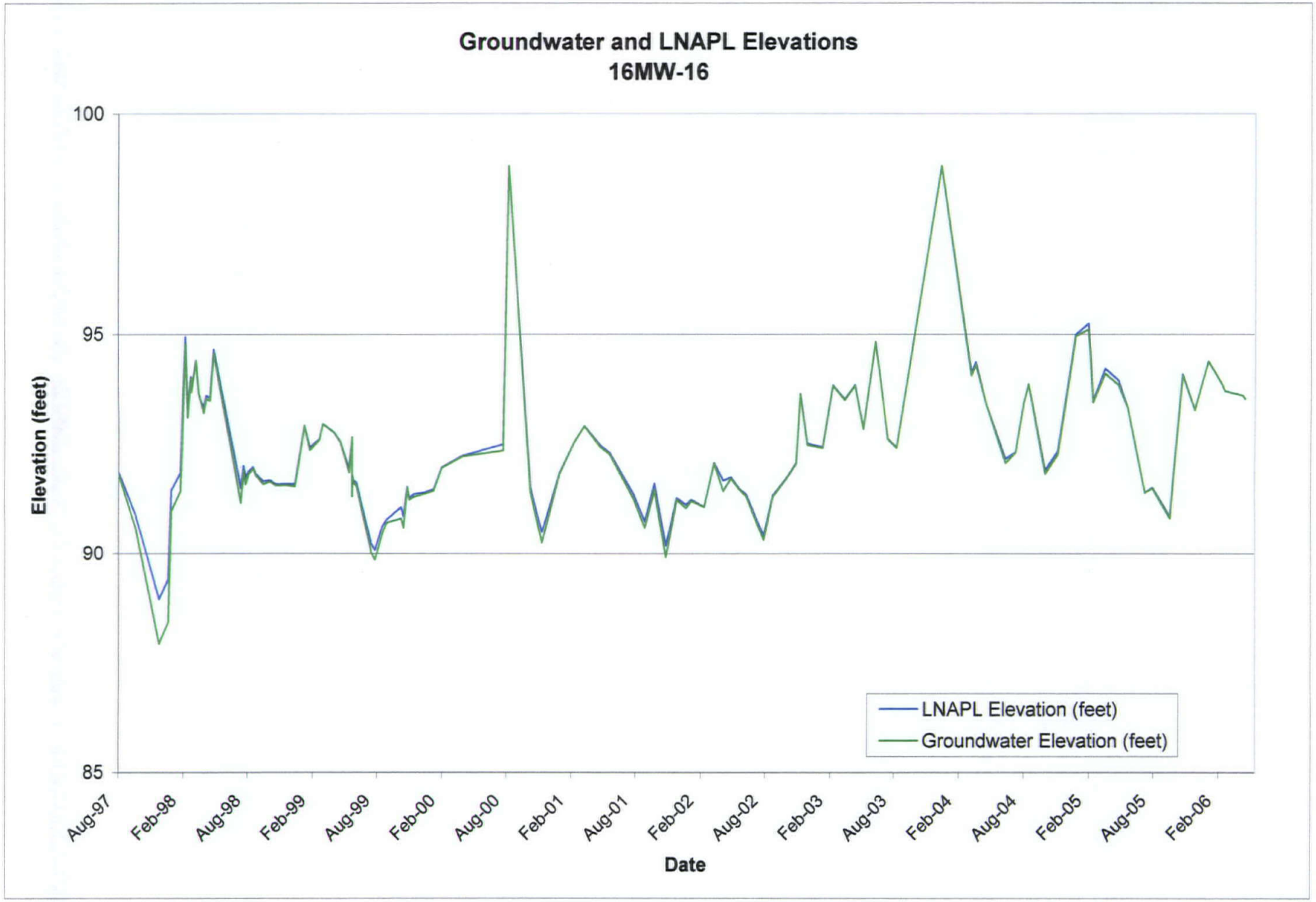
Well ID	Date	Top of Casing (feet)	Depth to Water (feet)	Groundwater Elevation (feet)	Depth to LNAPL (feet)	LNAPL Thickness (feet)	Corrected Elevation (feet)
C17MW-07	10/18/2002	100.16	7.18	92.98	7.22	0.04	93.02
C17MW-07	11/14/2002	100.16	7.60	92.56	7.70	0.10	92.65
C17MW-07	11/26/2002	100.16	7.12	93.04	7.16	0.04	93.08
C17MW-07	12/16/2002	100.16	6.55	93.61	6.58	0.03	93.63
C17MW-07	1/28/2003	100.16	7.75	92.41	8.05	0 30	92.67
C17MW-07	2/26/2003	100.16	6.33	93.83	6.35	0.02	93.85
C17MW-07	3/31/2003	100.16	6.03	94.13	6.04	0.01	94.13
C17MW-07	4/29/2003	100.16	5.80	94.36	5.81	0.01	94.36
C17MW-07	5/23/2003	100.16	6.47	93.69	6.49	0.02	93.70
C17MW-07	6/26/2003	100.16	5.20	94.96	5.22	0.02	94.97
C17MW-07	8/1/2003	100.16	6.52	93.64	6 54	0.02	93.66
C17MW-07	8/26/2003	100.16	6.73	93.43	6.76	0.03	93.45
C17MW-07	9/17/2003	100.16	6.71	93.45	6.72	0.01	93.46
C17MW-07	10/28/2003	100.16	7.20	92.96	7.23	0.03	92.98
C17MW-07	12/30/2003	100.16	5.32	94.84	5.33	0.01	94.85
C17MW-07	2/18/2004	100.16	6.03	94.13	6.04	0.01	94.14
C17MW-07	3/24/2004	100.16	5.66	94.50	5.61	0.05	94.54
C17MW-07	4/5/2004	100.16	5.42	94.74	5.38	0.04	94.77
C17MW-07	5/5/2004	100.16	5.12	95.04	-	0.00	95.04
C17MW-07	6/29/2004	100.16	7.58	92.58	7.51	0.07	92.64
C17MW-07	7/27/2004	100.16	6.95	93.21	6.90	0.05	93.25
C17MW-07	8/18/2004	100.16	7.60	92.56	7.40	0.20	92.73
C17MW-07	9/1/2004	100.16	7.89	92.27	-	0.00	92.27
C17MW-07	10/19/2004	100.16	7.58	92.58	7.50	0.08	92.65
C17MW-07	11/23/2004	100.16	7.69	92.47	7.23	0.46	92.86
C17MW-07	12/16/2004	100.16	7.17	92.99	6.61	0.56	93.47
C17MW-07	1/12/2005	100.16	7.22	92.94	6 51	0.71	93.54
C17MW-07	2/17/2005	100.16	7.02	93.14	6.12	0.90	93.91
C17MW-07	3/2/2005	100.16	7.10	93.06	6.27	0.83	93.77
C17MW-07	4/5/2005	100.16	6.32	93.84	5.41	0.91	94.62
C17MW-07	5/13/2005	100.16	6.28	93.88	5.36	0.92	94.66
C17MW-07	6/8/2005	100.16	6.70	93.46	6.55	0.15	93.59
C17MW-07	7/27/2005	100.16	7.06	93.10	6.98	0.08	93.17
C17MW-07	8/17/2005	100.16	7.90	92.26	7.85	0.05	92.30
C17MW-07	9/21/2005	100.16	8.90	91.26	8.30	0.60	91.77
C17MW-07	10/5/2005	100.16	8.90	91.26	8.40	0.50	91.69
C17MW-07	11/9/2005	100.16	6.47	93.69	6.45	0.02	93.71
C17MW-07	12/14/2005	100.16	6.00	94.16	-	0.00	94.16
C17MW-07	1/20/2006	100.16	4.51	95.65	-	0.00	95.65
C17MW-07	2/28/2006	100.16	5.36	94.80	-	0.00	94.80
C17MW-07	3/8/2006	100.16	5.21	94.95	-	0.00	94.95
C17MW-07	4/28/2006	100.16	5.01	95.15	-	0.00	95.15
C17MW-07	5/4/2006	100.16	5.05	95.11	-	0.00	95.11

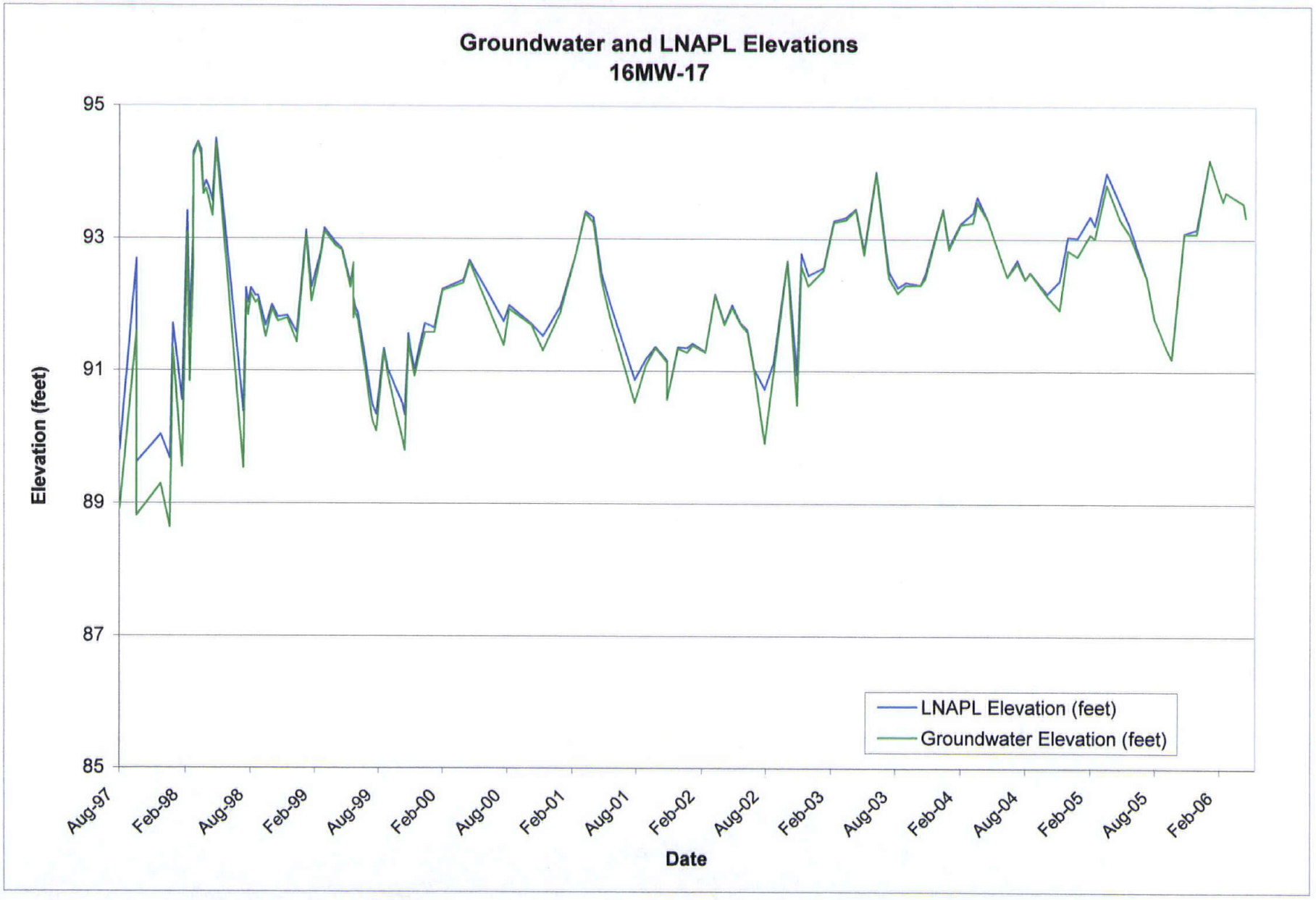

Groundwater and LNAPL Elevations
16MW-04
Elevation (feet)
105
100
95
90
85
Aug-97
Feb-98
Aug-98
Feb-99
Aug-99
Feb-00
Aug-00
Feb-01
Aug-01
Feb-02
Aug-02
Feb-03
Aug-03
Feb-04
Aug-04
Feb-05
Aug-05
Feb-06
Date
LNAPL Elevation (feet)
Groundwater Elevation (feet)

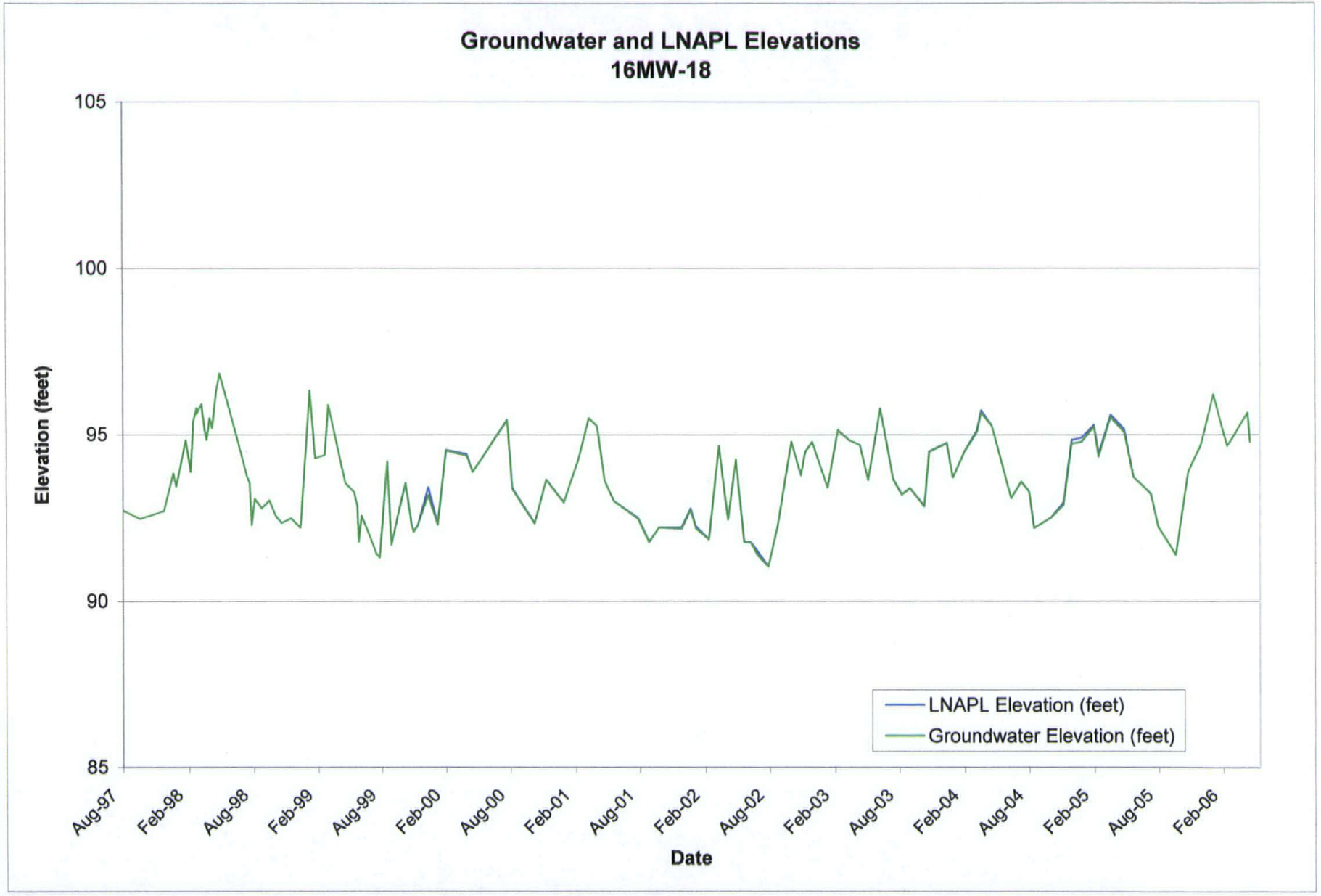

Groundwater and LNAPL Elevations
16MW-13
Elevation (feet)
105
100
95
90
85
Aug-97
Feb-98
Aug-98
Feb-99
Aug-99
Feb-00
Aug-00
Feb-01
Aug-01
Feb-02
Aug-02
Feb-03
Aug-03
Feb-04
Aug-04
Feb-05
Aug-05
Feb-06
Date
LNAPL Elevation (feet)
Groundwater Elevation (feet)

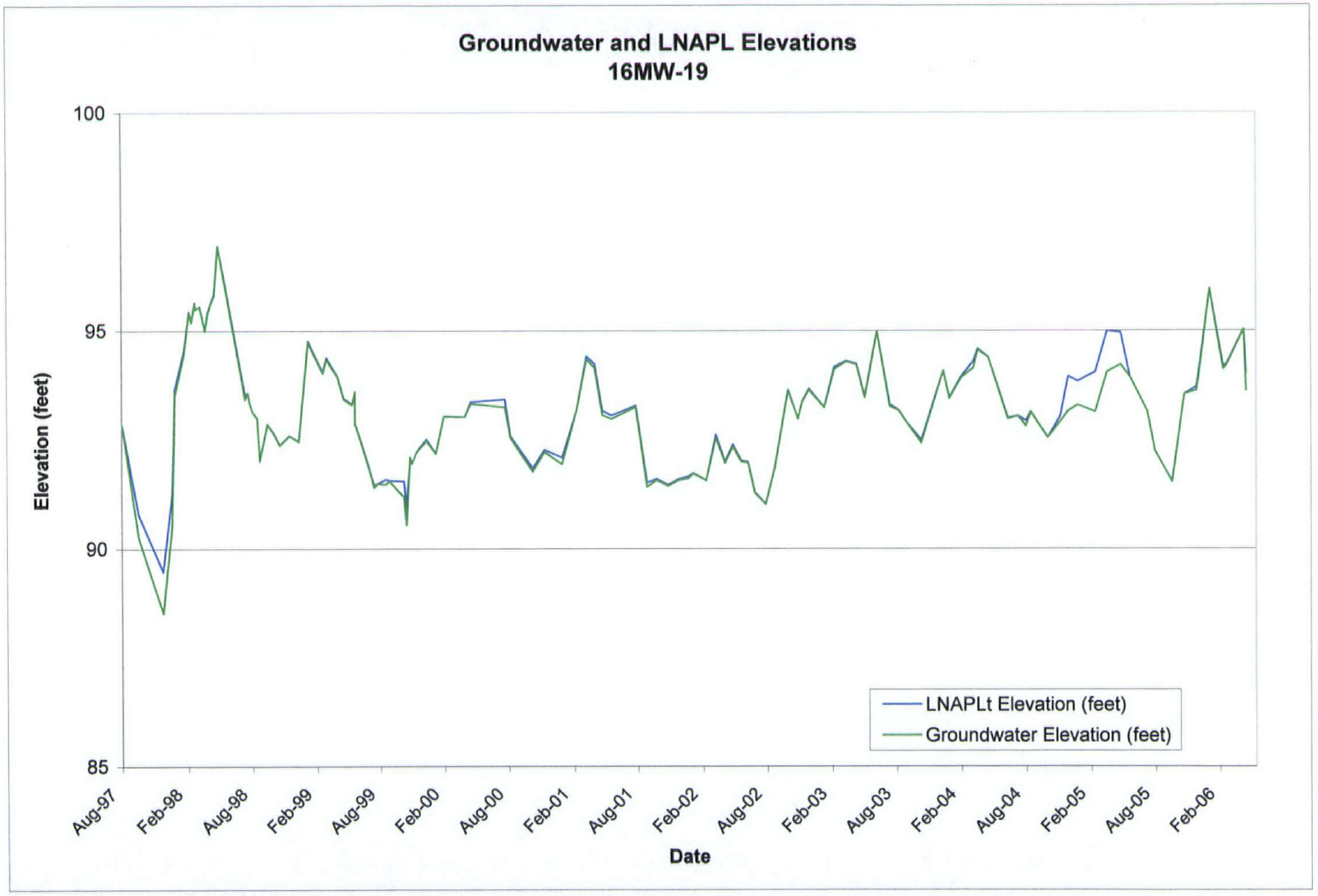

Groundwater and LNAPL Elevations
16MW-14
Elevation (feet)
105
100
95
90
85
Aug-97
Feb-98
Aug-98
Feb-99
Aug-99
Feb-00
Aug-00
Feb-01
Aug-01
Feb-02
Aug-02
Feb-03
Aug-03
Feb-04
Aug-04
Feb-05
Aug-05
Feb-06
Date
LNAPL Elevation (feet)
Groundwater Elevation (feet)

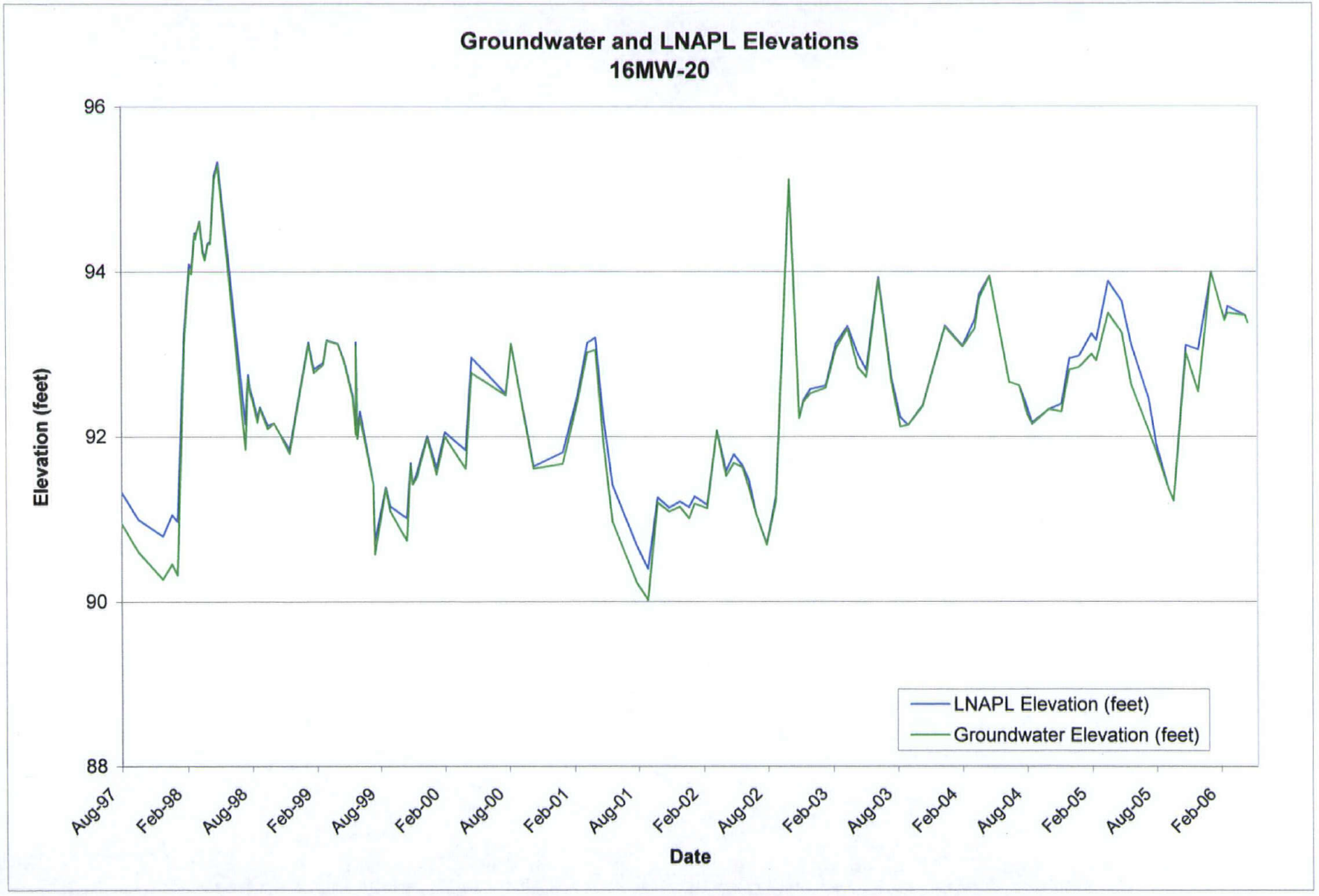

Groundwater and LNAPL Elevations
16MW-15
Elevation (feet)
95
93
91
89
87
85
Aug-97
Feb-98
Aug-98
Feb-99
Aug-99
Feb-00
Aug-00
Feb-01
Aug-01
Feb-02
Aug-02
Feb-03
Aug-03
Feb-04
Aug-04
Feb-05
Aug-05
Feb-06
Date
LNAPL Elevation (feet)
Groundwater Elevation (feet)

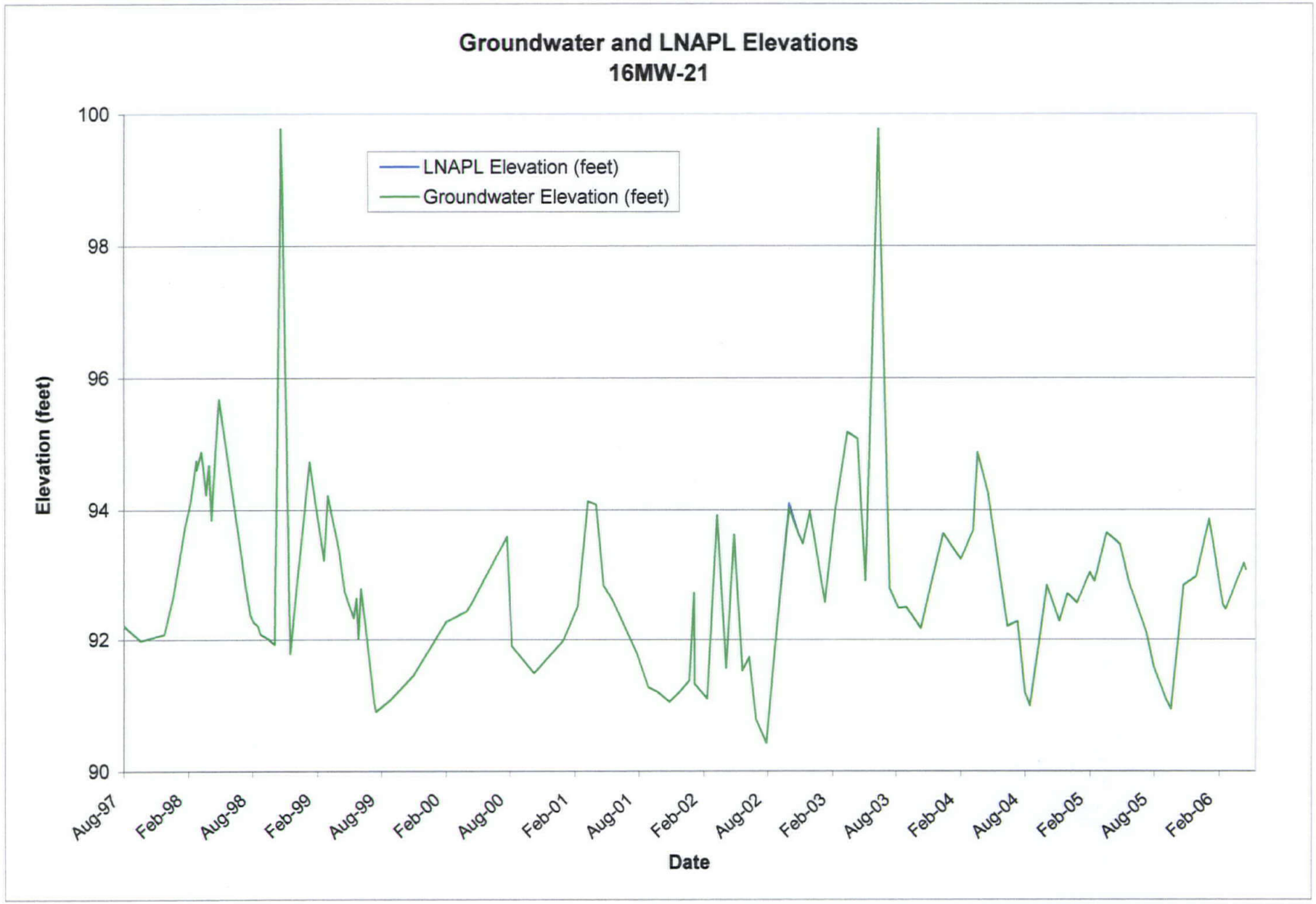

Groundwater and LNAPL Elevations
16MW-16
100
95
90
85
Elevation (feet)
Aug-97
Feb-98
Aug-98
Feb-99
Aug-99
Feb-00
Aug-00
Feb-01
Aug-01
Feb-02
Aug-02
Feb-03
Aug-03
Feb-04
Aug-04
Feb-05
Aug-05
Feb-06
Date
LNAPL Elevation (feet)
Groundwater Elevation (feet)

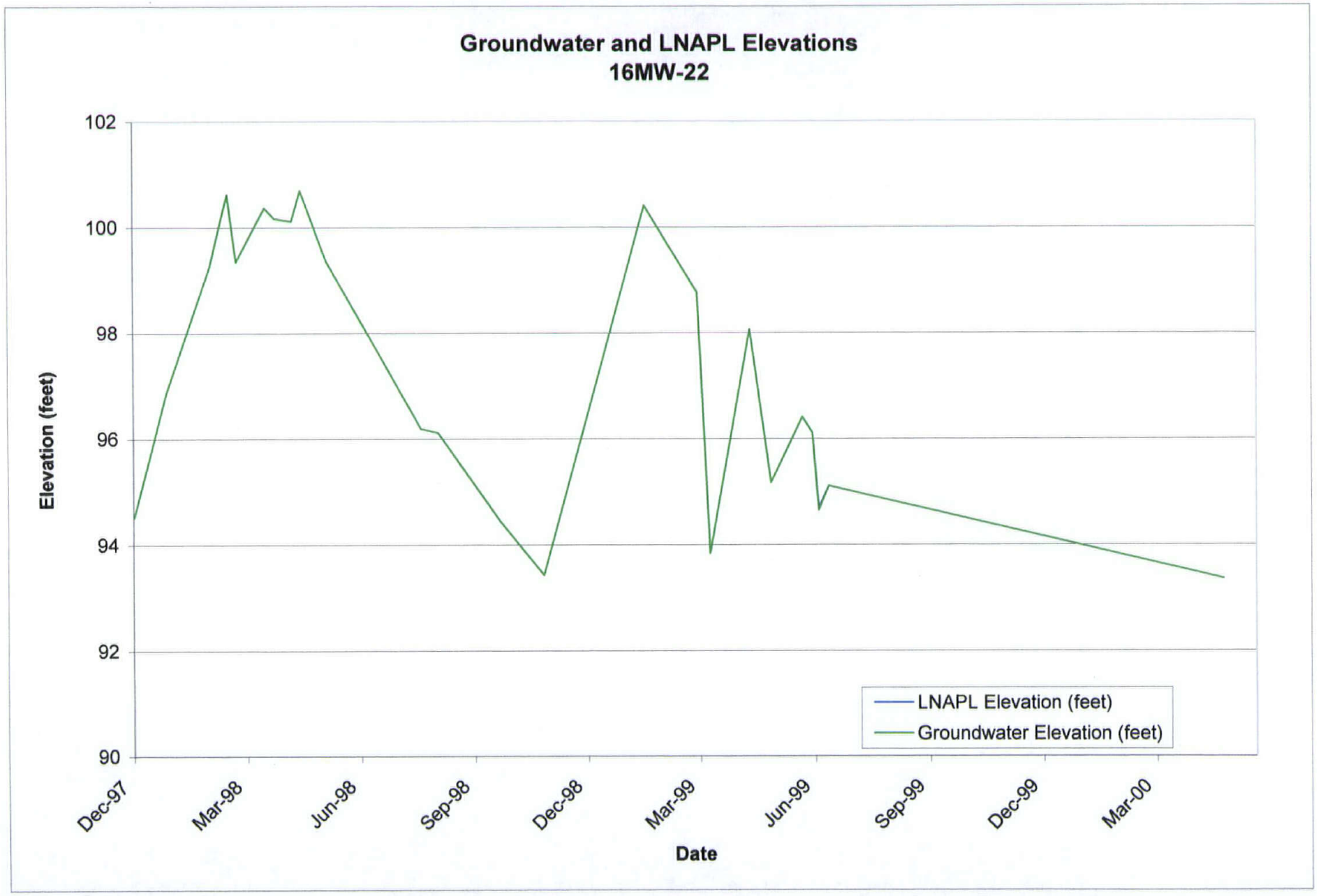

Groundwater and LNAPL Elevations
16MW-17
Elevation (feet)
95
93
91
89
87
85
Aug-97
Feb-98
Aug-98
Feb-99
Aug-99
Feb-00
Aug-00
Feb-01
Aug-01
Feb-02
Aug-02
Feb-03
Aug-03
Feb-04
Aug-04
Feb-05
Aug-05
Feb-06
Date
LNAPL Elevation (feet)
Groundwater Elevation (feet)

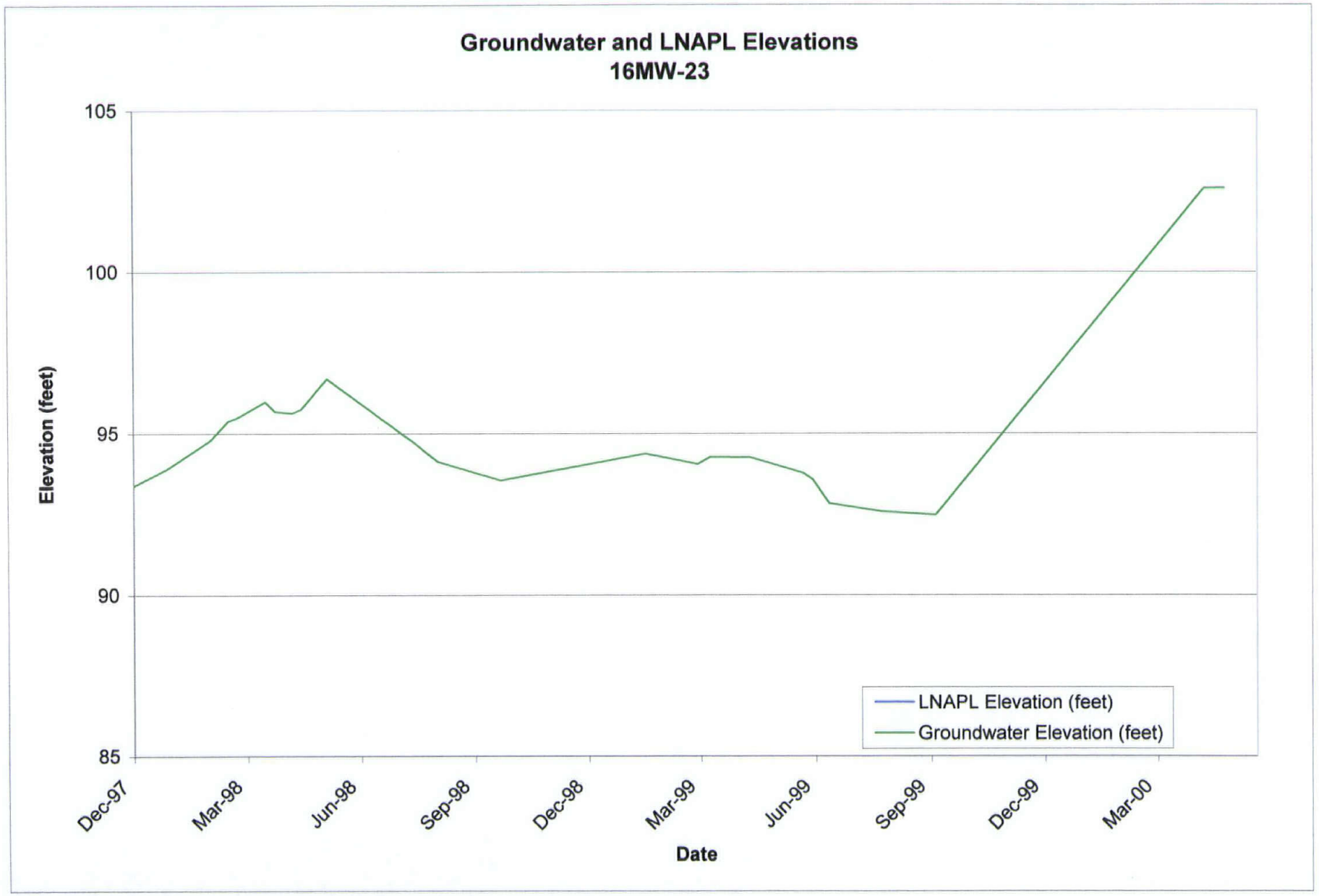

Groundwater and LNAPL Elevations
16MW-18
Elevation (feet)
105
100
95
90
85
Aug-97
Feb-98
Aug-98
Feb-99
Aug-99
Feb-00
Aug-00
Feb-01
Aug-01
Feb-02
Aug-02
Feb-03
Aug-03
Feb-04
Aug-04
Feb-05
Aug-05
Feb-06
Date
LNAPL Elevation (feet)
Groundwater Elevation (feet)

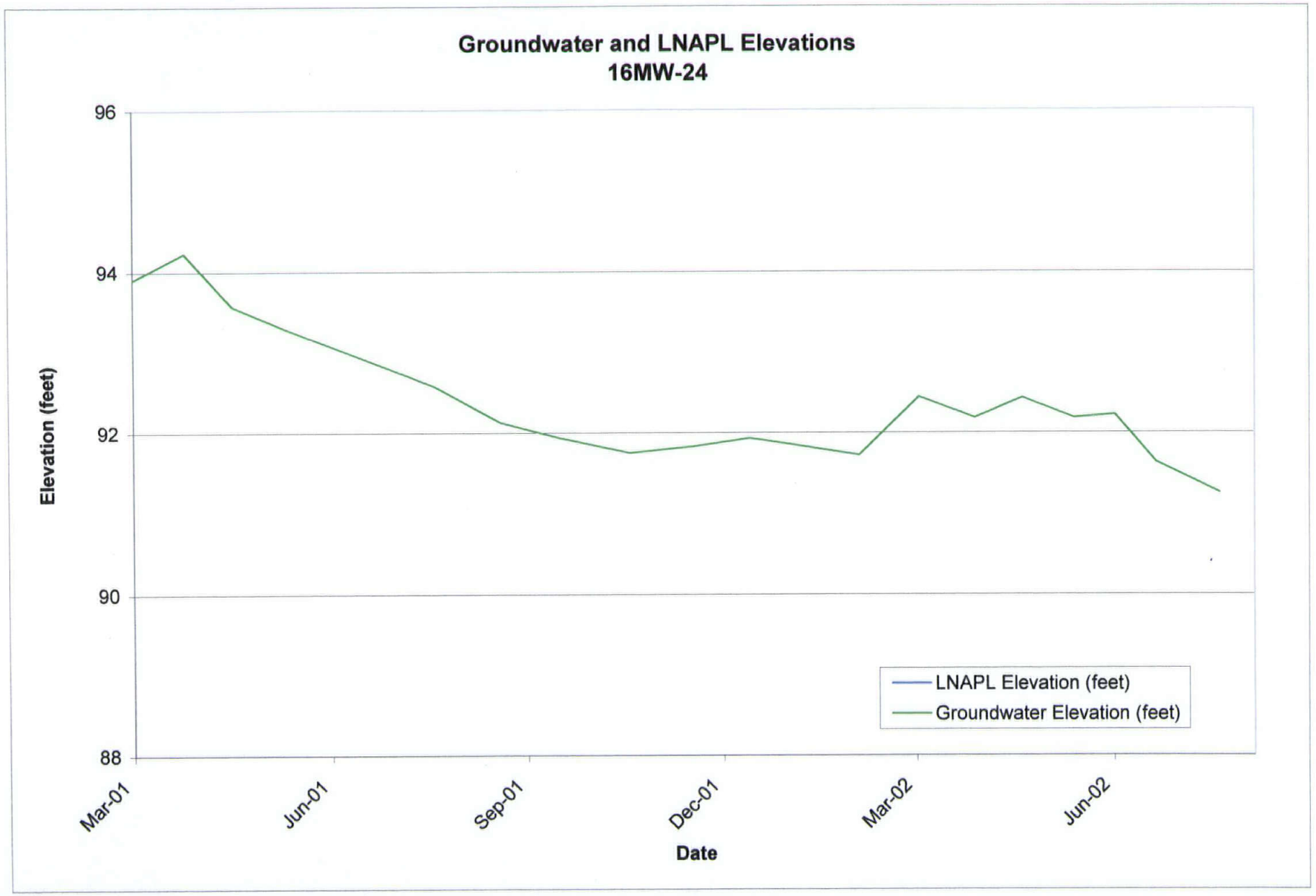

Groundwater and LNAPL Elevations
16MW-19
100
95
90
85
Elevation (feet)
Aug-97
Feb-98
Aug-98
Feb-99
Aug-99
Feb-00
Aug-00
Feb-01
Aug-01
Feb-02
Aug-02
Feb-03
Aug-03
Feb-04
Aug-04
Feb-05
Aug-05
Feb-06
Date
LNAPLt Elevation (feet)
Groundwater Elevation (feet)

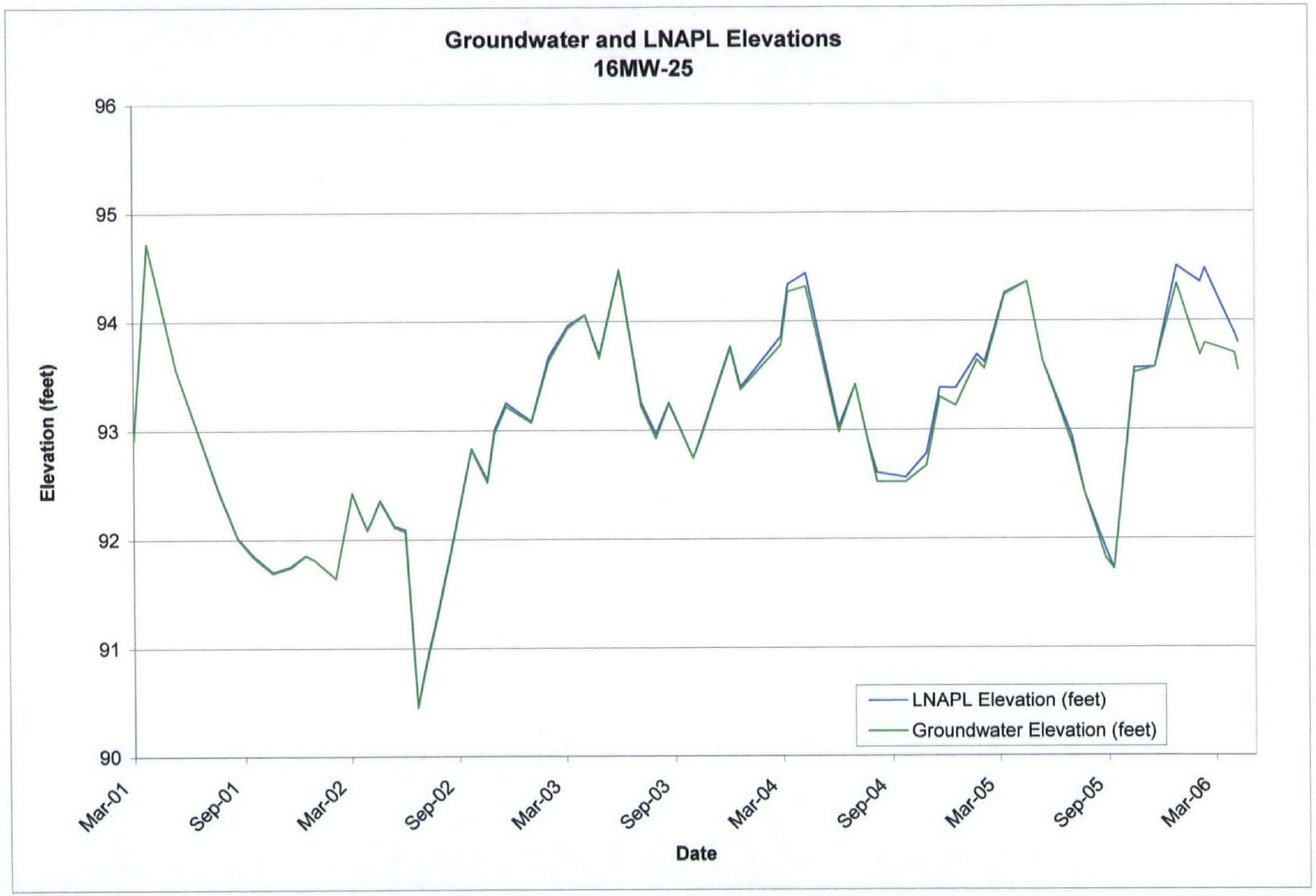

Groundwater and LNAPL Elevations
16MW-20
Elevation (feet)
96
94
92
90
88
Aug-97
Feb-98
Aug-98
Feb-99
Aug-99
Feb-00
Aug-00
Feb-01
Aug-01
Feb-02
Aug-02
Feb-03
Aug-03
Feb-04
Aug-04
Feb-05
Aug-05
Feb-06
Date
LNAPL Elevation (feet)
Groundwater Elevation (feet)

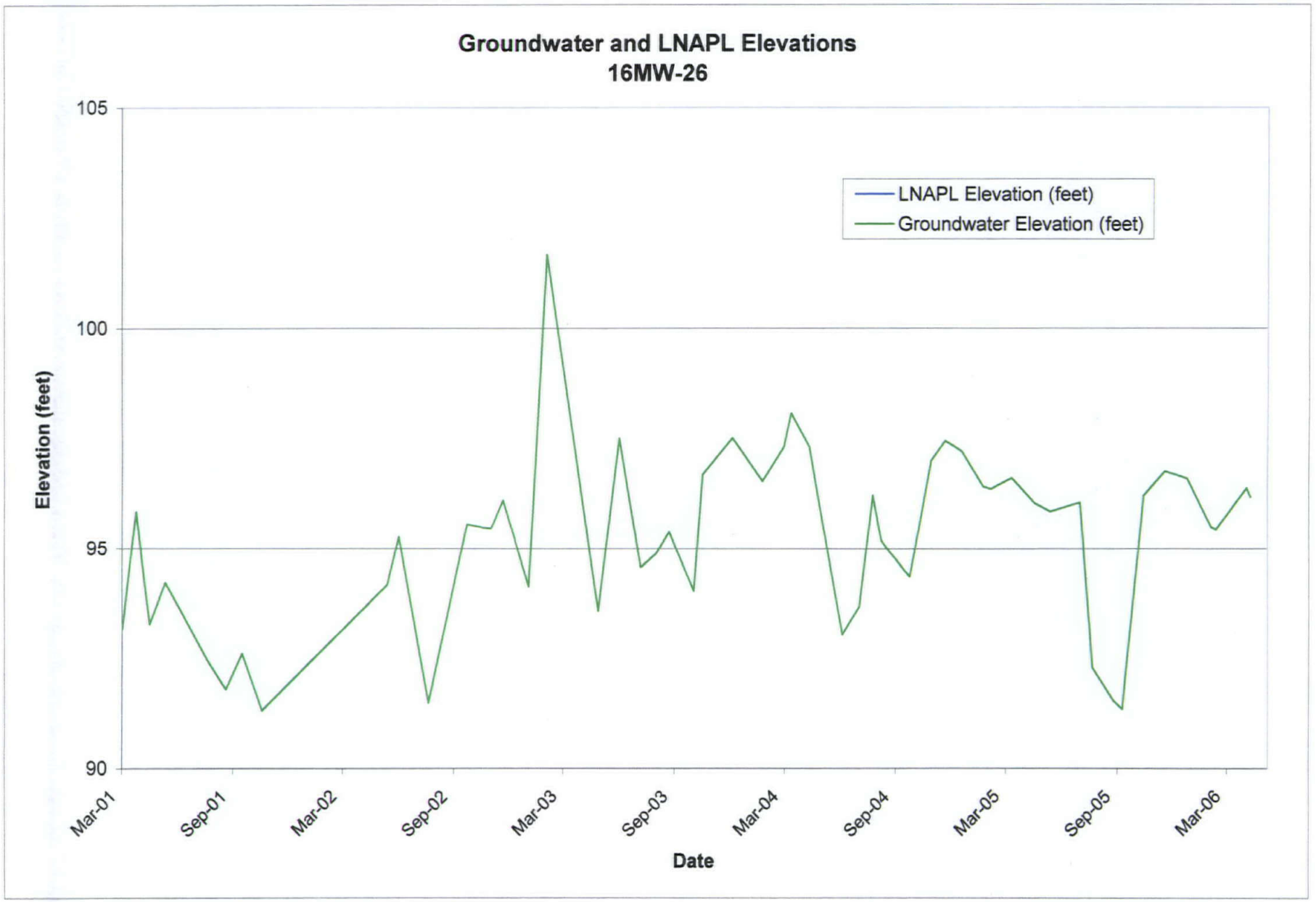

Groundwater and LNAPL Elevations
16MW-21
LNAPL Elevation (feet)
Groundwater Elevation (feet)
Elevation (feet)
100
98
96
94
92
90
Aug-97
Feb-98
Aug-98
Feb-99
Aug-99
Feb-00
Aug-00
Feb-01
Aug-01
Feb-02
Aug-02
Feb-03
Aug-03
Feb-04
Aug-04
Feb-05
Aug-05
Feb-06
Date

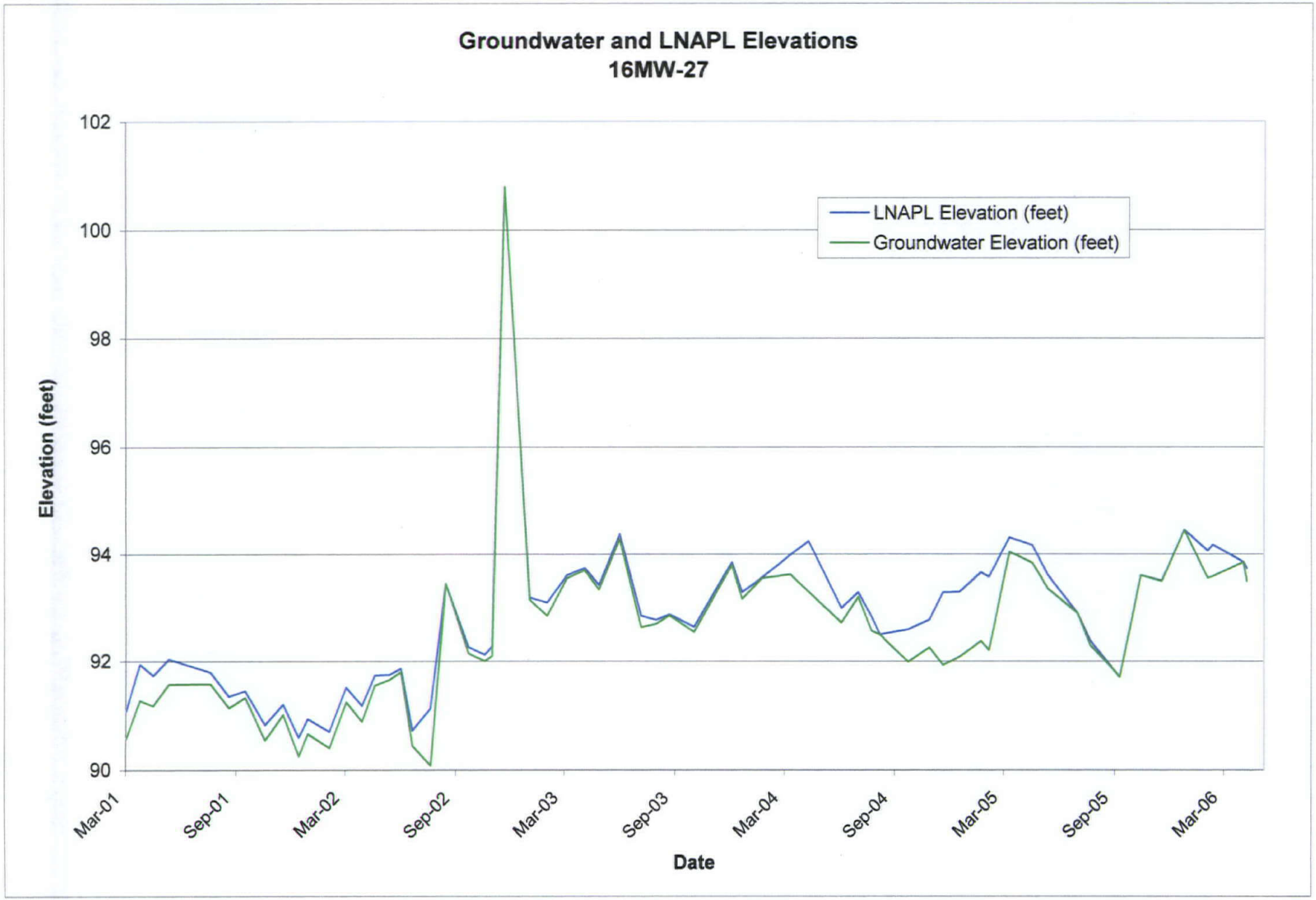

Groundwater and LNAPL Elevations
16MW-22
Elevation (feet)
102
100
98
96
94
92
90
Dec-97
Mar-98
Jun-98
Sep-98
Dec-98
Mar-99
Jun-99
Sep-99
Dec-99
Mar-00
Date
LNAPL Elevation (feet)
Groundwater Elevation (feet)

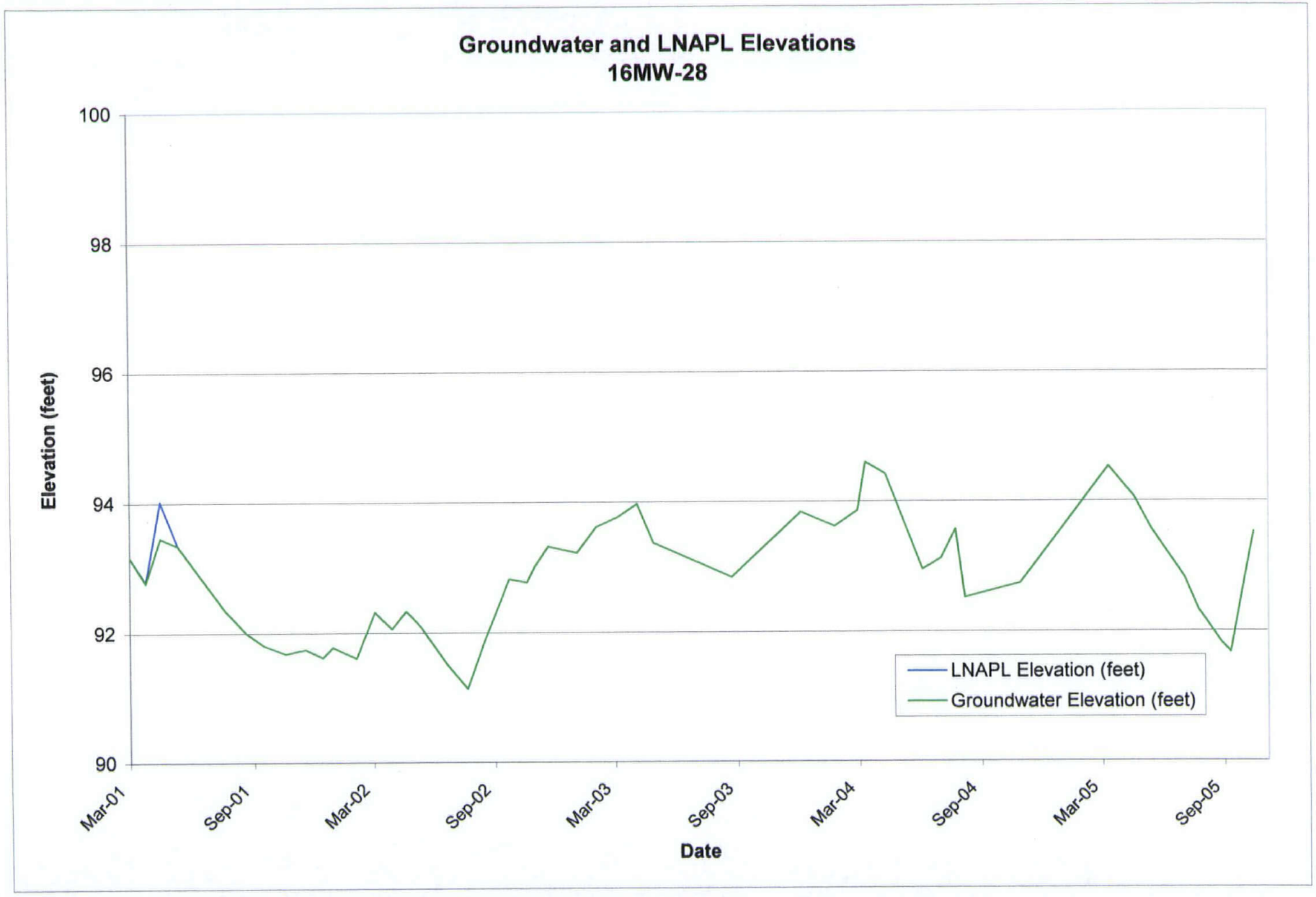

Groundwater and LNAPL Elevations
16MW-23
105
100
95
90
85
Elevation (feet)
Dec-97
Mar-98
Jun-98
Sep-98
Dec-98
Mar-99
Jun-99
Sep-99
Dec-99
Mar-00
Date
LNAPL Elevation (feet)
Groundwater Elevation (feet)

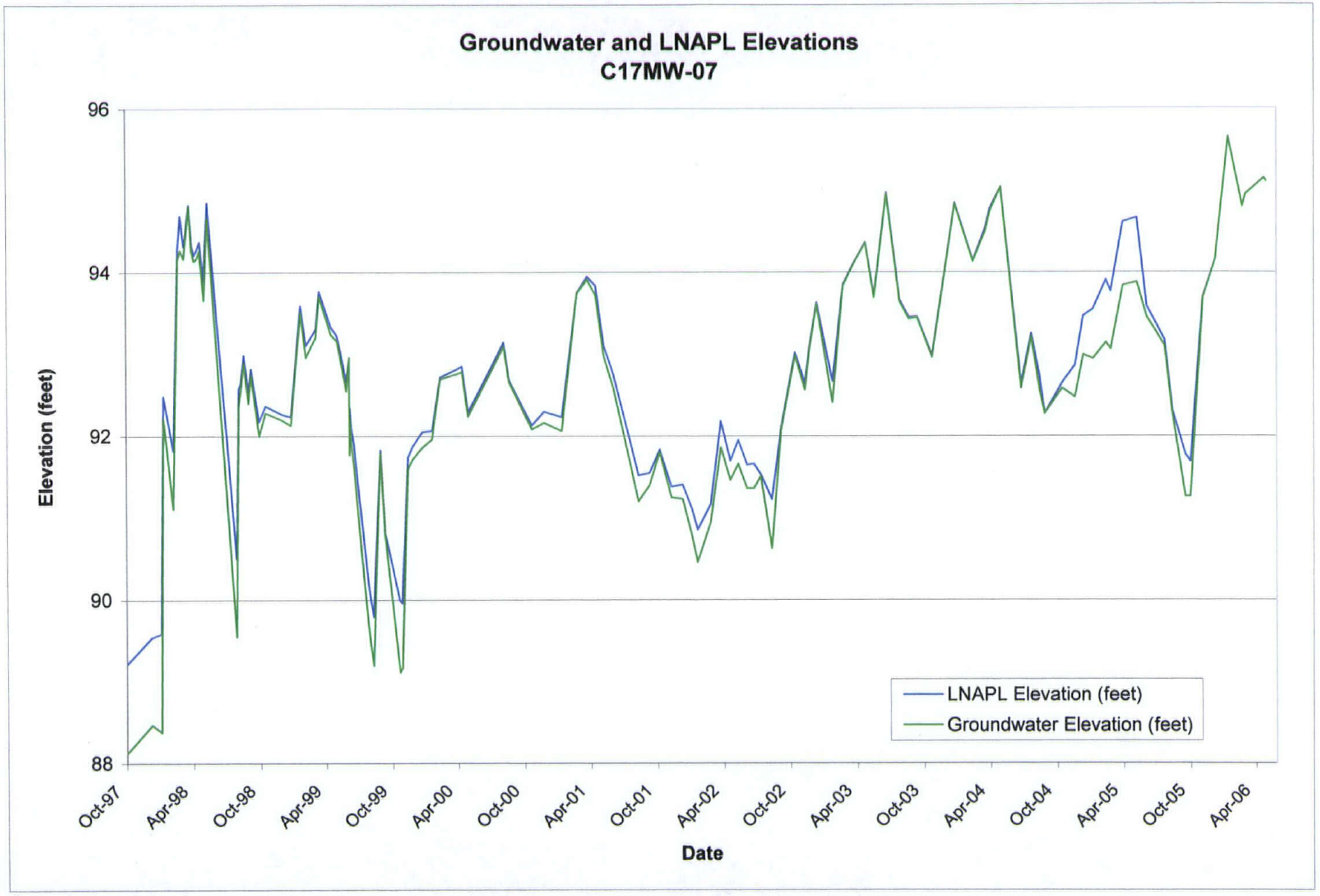

Groundwater and LNAPL Elevations
16MW-24
96
94
92
90
88
Elevation (feet)
Mar-01
Jun-01
Sep-01
Dec-01
Mar-02
Jun-02
Date
LNAPL Elevation (feet)
Groundwater Elevation (feet)

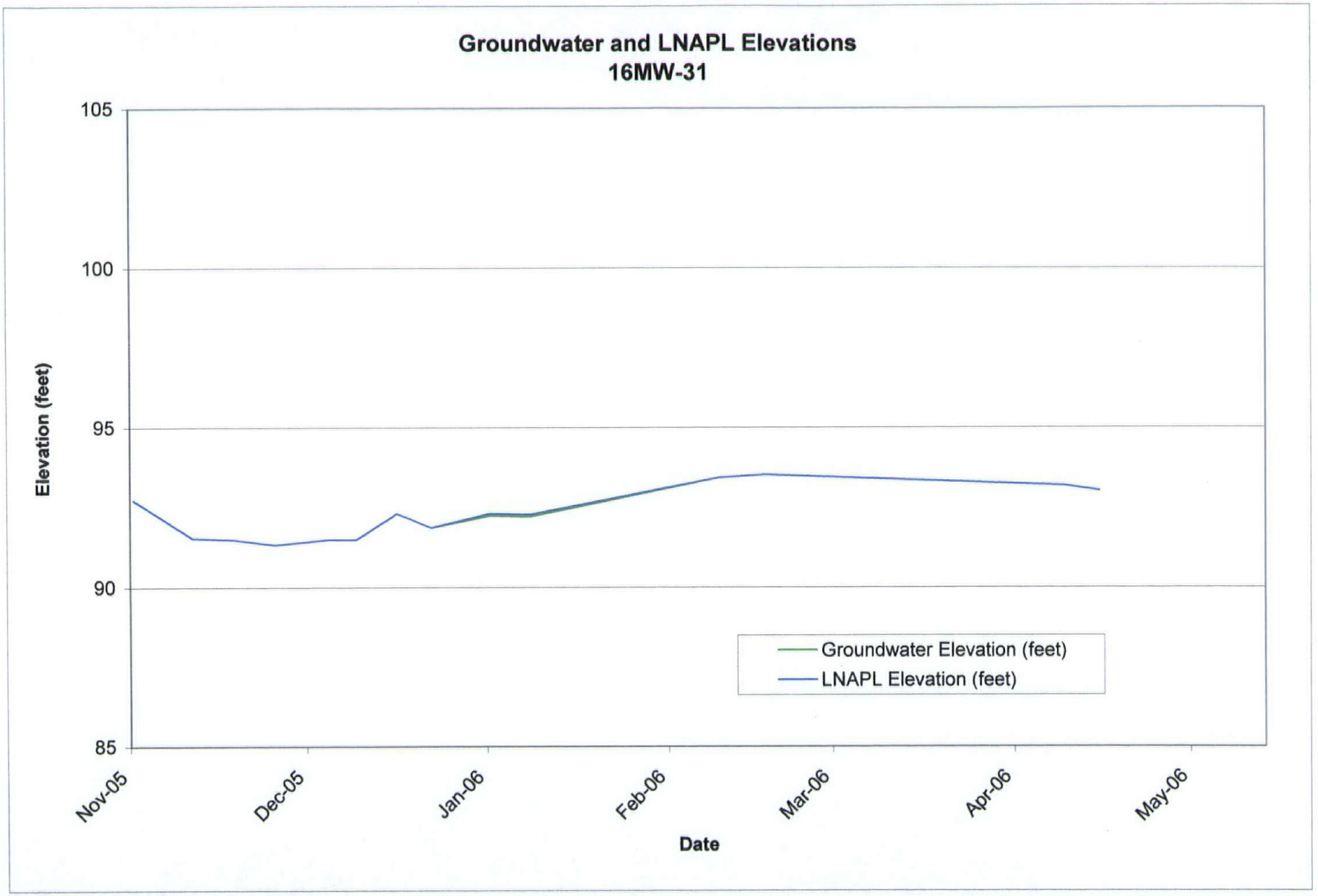

Groundwater and LNAPL Elevations
16MW-25
Elevation (feet)
96
95
94
93
92
91
90
Mar-01
Sep-01
Mar-02
Sep-02
Mar-03
Sep-03
Mar-04
Sep-04
Mar-05
Sep-05
Mar-06
Date
LNAPL Elevation (feet)
Groundwater Elevation (feet)

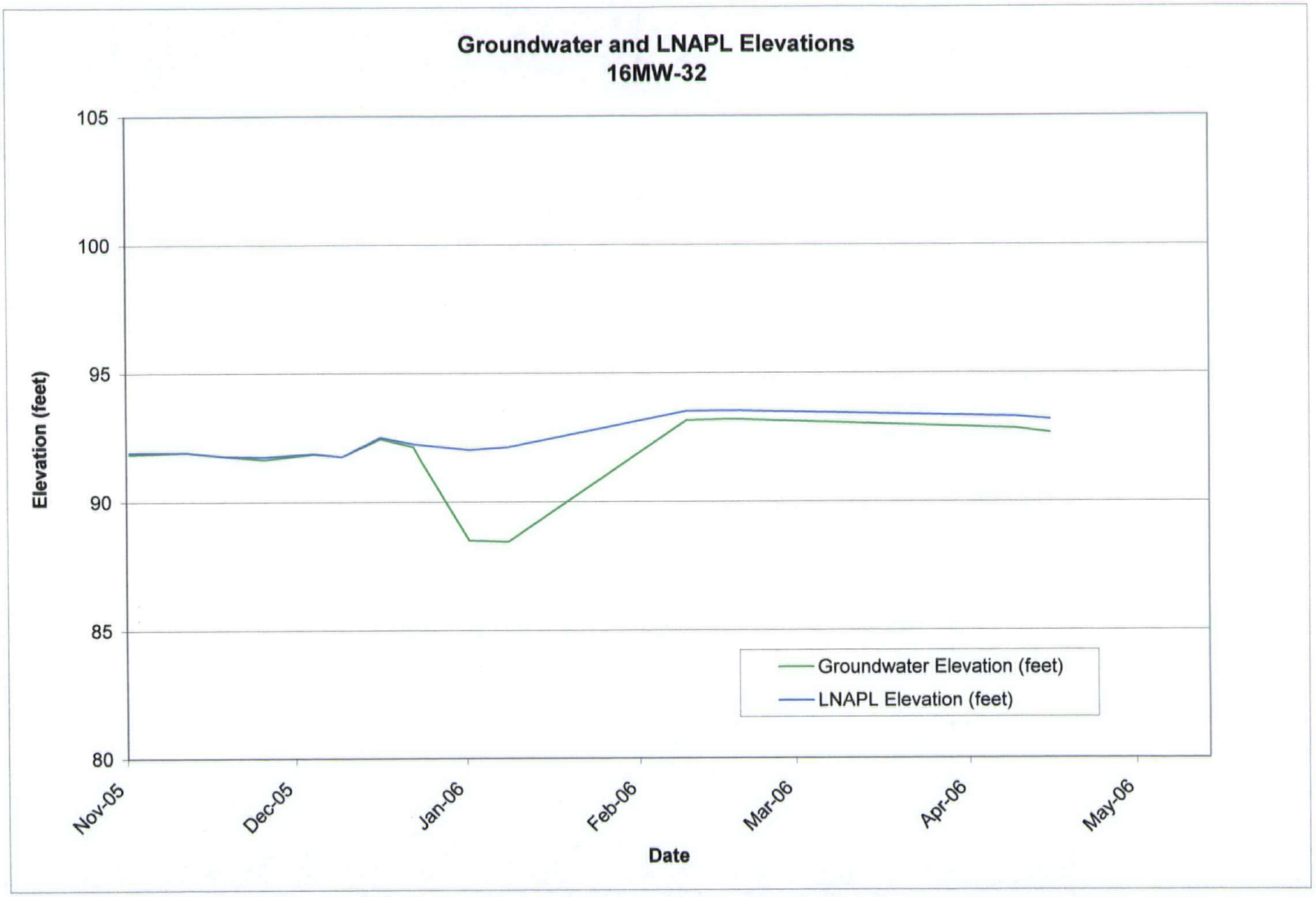

Groundwater and LNAPL Elevations
16MW-26
LNAPL Elevation (feet)
Groundwater Elevation (feet)
Elevation (feet)
105
100
95
90
Mar-01
Sep-01
Mar-02
Sep-02
Mar-03
Sep-03
Mar-04
Sep-04
Mar-05
Sep-05
Mar-06
Date

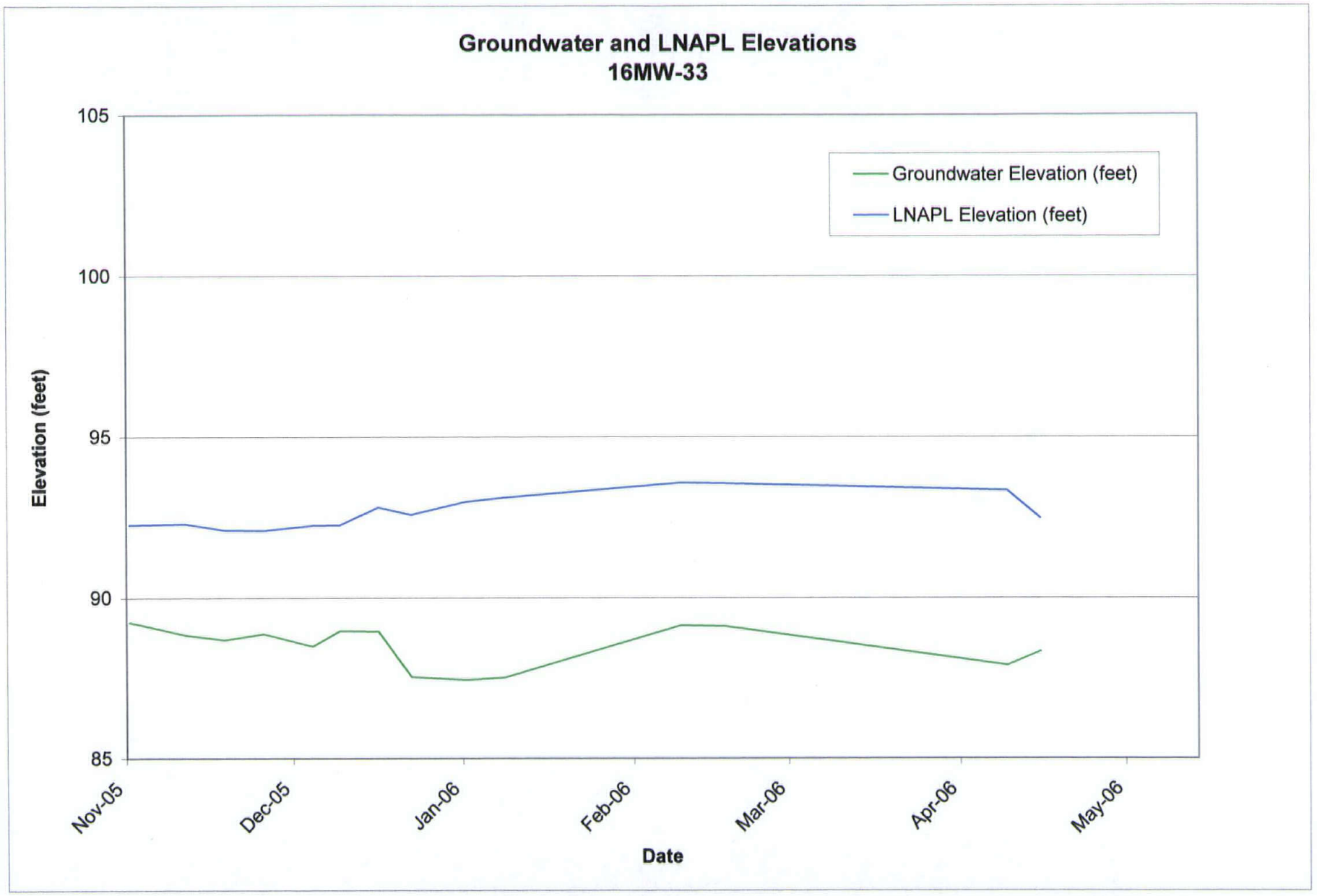

Groundwater and LNAPL Elevations
16MW-27
LNAPL Elevation (feet)
Groundwater Elevation (feet)
Elevation (feet)
102
100
98
96
94
92
90
Mar-01
Sep-01
Mar-02
Sep-02
Mar-03
Sep-03
Mar-04
Sep-04
Mar-05
Sep-05
Mar-06
Date

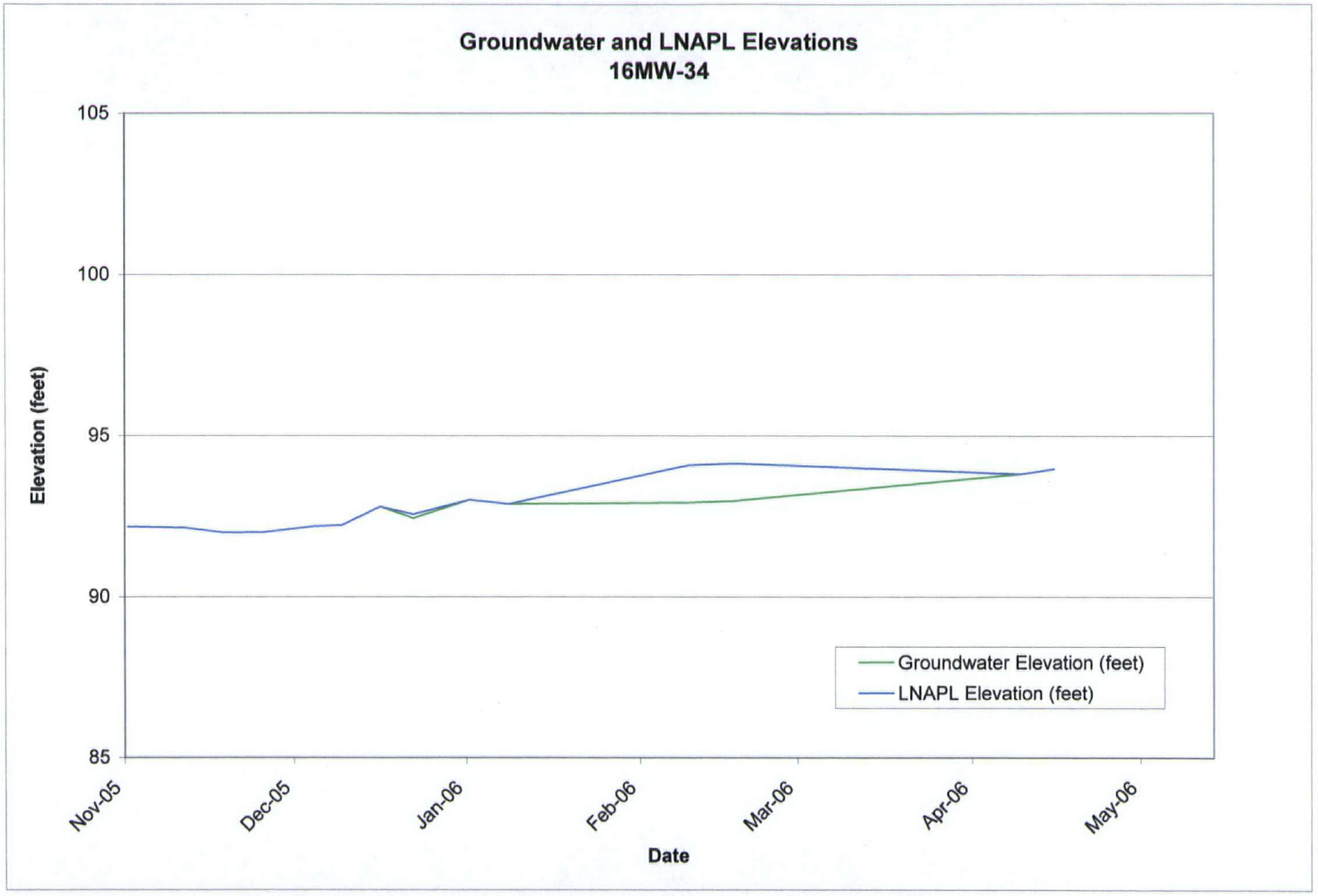

Groundwater and LNAPL Elevations
16MW-28
Elevation (feet)
100
98
96
94
92
90
Mar-01
Sep-01
Mar-02
Sep-02
Mar-03
Sep-03
Mar-04
Sep-04
Mar-05
Sep-05
Date
LNAPL Elevation (feet)
Groundwater Elevation (feet)

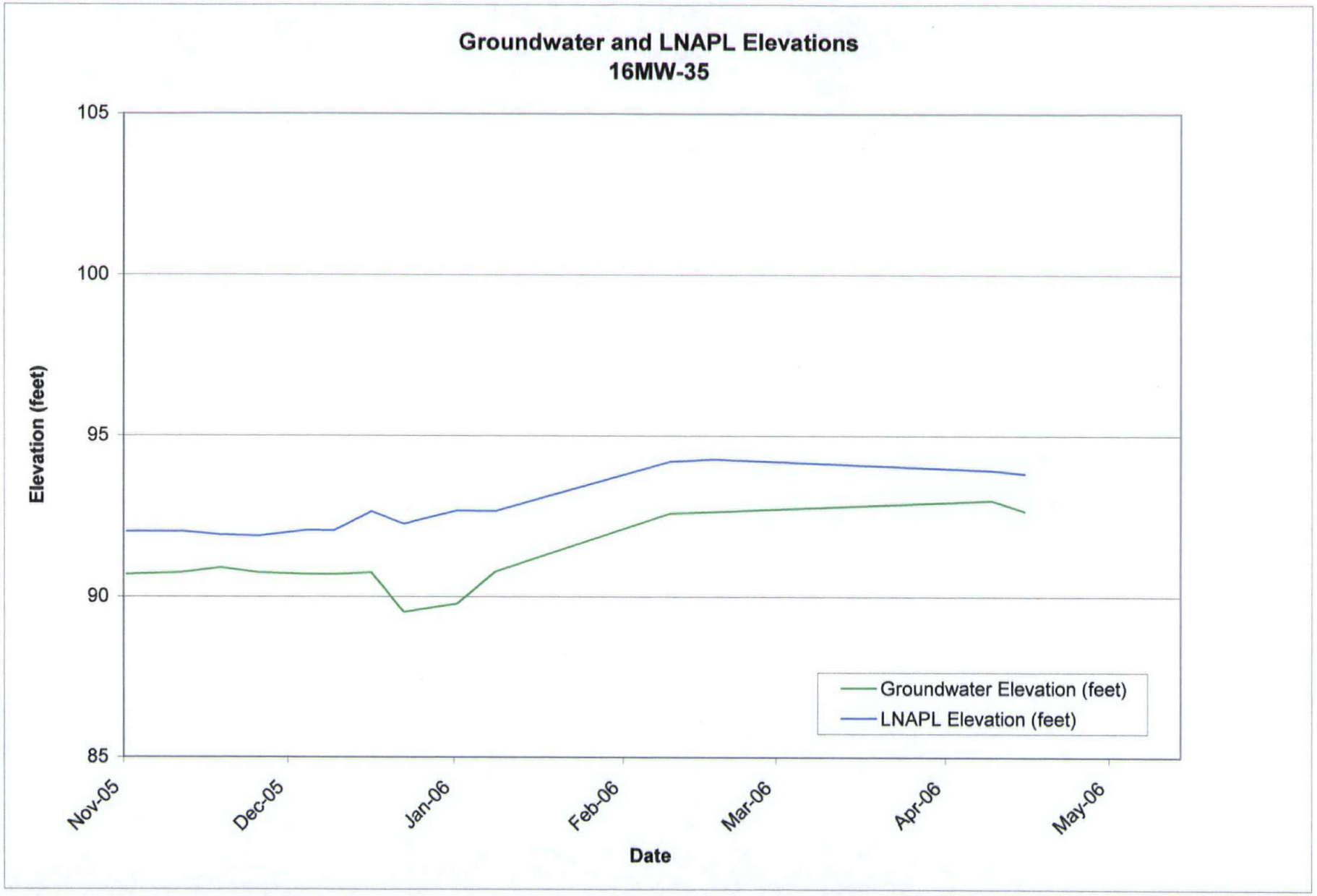

Groundwater and LNAPL Elevations
C17MW-07
Elevation (feet)
96
94
92
90
88
Oct-97
Apr-98
Oct-98
Apr-99
Oct-99
Apr-00
Oct-00
Apr-01
Oct-01
Apr-02
Oct-02
Apr-03
Oct-03
Apr-04
Oct-04
Apr-05
Oct-05
Apr-06
Date
LNAPL Elevation (feet)
Groundwater Elevation (feet)


Groundwater and LNAPL Elevations
16MW-31
105
100
95
90
85
Elevation (feet)
Nov-05
Dec-05
Jan-06
Feb-06
Mar-06
Apr-06
May-06
Date
Groundwater Elevation (feet)
LNAPL Elevation (feet)


Groundwater and LNAPL Elevations
16MW-32
105
100
95
90
85
80
Elevation (feet)
Nov-05
Dec-05
Jan-06
Feb-06
Mar-06
Apr-06
May-06
Date
Groundwater Elevation (feet)
LNAPL Elevation (feet)


Groundwater and LNAPL Elevations
16MW-33
Groundwater Elevation (feet)
LNAPL Elevation (feet)
Elevation (feet)
105
100
95
90
85
Nov-05
Dec-05
Jan-06
Feb-06
Mar-06
Apr-06
May-06
Date


Groundwater and LNAPL Elevations
16MW-34
105
100
95
90
85
Elevation (feet)
Nov-05
Dec-05
Jan-06
Feb-06
Mar-06
Apr-06
May-06
Date
Groundwater Elevation (feet)
LNAPL Elevation (feet)


Groundwater and LNAPL Elevations
16MW-35
105
100
95
90
85
Elevation (feet)
Nov-05
Dec-05
Jan-06
Feb-06
Mar-06
Apr-06
May-06
Date
Groundwater Elevation (feet)
LNAPL Elevation (feet)

APPENDIX C
ANALYTICAL SUMMARY TABLES FOR VAPOR DISCHARGES AND LABORATORY ANALYTICAL DATA

APPENDIX C

U.S. Navy SBE O&M Contract No. N62472-03-D-0802
Naval Weapons Station-Earle: Bioslurper Unit No. 1
Analytical Results of Air Samples

Bioslurper Unit #1 March 2006

SAMPLE NO. BS #1 Final Effluent **Sample Date:** 3/14/2006 **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))**	**Output Rate (lbs/hr)**	**Emission Limits (lbs/hr)**
Chloromethane	50.5	384.6	60.0	17.0	0.000	0.00E+00	
Bromomethane	94.9	384.6	60.0	17.0	0.000	0.00E+00	
Vinyl Chloride	62.5	384.6	60.0	17.0	0.000	0.00E+00	
Chloroethane	64.5	384.6	60.0	17.0	0.000	0.00E+00	
Freon 11	137.4	384.6	60.0	17.0	0.000	0.00E+00	
1,1-Dichloroethene	96.9	384.6	60.0	17.0	0.000	0.00E+00	
Freon 113	170.9	384.6	60.0	17.0	0.000	0.00E+00	
Methylene Chloride	84.9	384.6	60 0	17.0	0.001	2.00E-07	
1,1-Dichloroethane	99 0	384.6	60.0	17.0	0.000	0.00E+00	
trans-1,2-Dichloroethene	96.9	384.6	60.0	17.0	0.000	0.00E+00	
cis-1,2-Dichloroethene	96.9	384.6	60.0	17.0	0.000	0.00E+00	
Chloroform	119.4	384.6	60.0	17.0	0.000	0.00E+00	
1,1,1-Trichloroethane	133.4	384.6	60.0	17.0	0.000	0.00E+00	
Carbon Tetrachloride	153.8	384.6	60.0	17.0	0.000	0.00E+00	
Benzene	78.1	384.6	60.0	17.0	0.000	**0.00E+00**	**1.00E-02**
1,2-Dichloroethane	99.0	384.6	60.0	17.0	0.000	0.00E+00	
Trichloroethene	131.4	384.6	60.0	17.0	0.000	0.00E+00	
1,2-Dichloropropane	113.0	384.6	60.0	17.0	0.000	0.00E+00	
trans-1,3-Dichloropropene	111.0	384.6	60.0	17.0	0.000	0.00E+00	
Toluene	92.0	384.6	60.0	17.0	0.000	0.00E+00	
cis-1,3-Dichloropropene	111.0	384.6	60.0	17.0	0.000	0.00E+00	
1,1,2-Trichloroethane	133.4	384.6	60.0	17.0	0.000	0.00E+00	
Tetrachloroethene	165.8	384.6	60.0	17.0	0.000	0.00E+00	
Ethylene Dibromide	187 9	384.6	60.0	17.0	0.000	0.00E+00	
Chlorobenzene	112.6	384.6	60.0	17.0	0.000	0.00E+00	
Ethylbenzene	106.2	384.6	60.0	17.0	0.000	0.00E+00	
m,p-Xylenes	106.2	384.6	60.0	17.0	0.000	0.00E+00	
o-Xylene	106.2	384.6	60.0	17.0	0.000	0.00E+00	
Styrene	104.2	384.6	60.0	17.0	0.000	0.00E+00	
1,1,2,2-Tetrachlorethane	167.9	384.6	60.0	17.0	0.000	0.00E+00	
1,3,5-Trimethylbenzene	120.2	384.6	60.0	17.0	0.000	0.00E+00	
1,2,4-Trimethylbenzene	120.2	384.6	60.0	17.0	0.000	0.00E+00	
1,3-Dichlorobenzene	147.0	384.6	60.0	17.0	0.000	0.00E+00	
1,4-Dichlorobenzene	147.0	384.6	60.0	17.0	0.000	0.00E+00	
Chlorotoluene	126.6	384.6	60.0	17.0	0.000	0.00E+00	
1,2-Dichlorobenzene	147.0	384.6	60.0	17.0	0.000	0.00E+00	
Acetone	58.1	384.6	60.0	17.0	0.000	0.00E+00	
2-Butanone	72.1	384.6	60.0	17.0	0.001	2.29E-07	
4-methyl-2-pentanone	100.2	384.6	60.0	17.0	0.000	0.00E+00	
2-Hexanone	100.2	384.6	60.0	17.0	0.000	0.00E+00	
			Total Emissions:		**0.002**	**4.30E-07**	**5.00E-02**

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

APPENDIX C

U.S. Navy SBE O&M Contract No. N62472-03-D-0802
Naval Weapons Station-Earle: Bioslurper Unit No. 2
Analytical Results of Air Samples

Bioslurper Unit #2 March 2006

SAMPLE NO. BS #2 Final Effluent **Sample Date:** March 2006 - Deactivated **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))**	**Output Rate (lbs/hr)**	**Emission Limits (lbs/hr)**
Chloromethane	50.5	384.6	60.0	0.0	0.000	0.00E+00	
Bromomethane	94.9	384.6	60.0	0.0	0.000	0.00E+00	
Vinyl Chloride	62.5	384.6	60.0	0.0	0.000	0.00E+00	
Chloroethane	64.5	384.6	60.0	0.0	0.000	0.00E+00	
Freon 11	137.4	384.6	60.0	0.0	0.000	0.00E+00	
1,1-Dichloroethene	96.9	384.6	60.0	0.0	0.000	0.00E+00	
Freon 113	170.9	384.6	60.0	0.0	0.000	0.00E+00	
Methylene Chloride	84.9	384.6	60.0	0.0	0.000	0.00E+00	
1,1-Dichloroethane	99.0	384.6	60.0	0.0	0.000	0.00E+00	
trans-1,2-Dichloroethene	96.9	384.6	60.0	0.0	0.000	0.00E+00	
cis-1,2-Dichloroethene	96.9	384.6	60.0	0.0	0.000	0.00E+00	
Chloroform	119.4	384.6	60.0	0.0	0.000	0.00E+00	
1,1,1-Trichloroethane	133.4	384.6	60.0	0.0	0.000	0.00E+00	
Carbon Tetrachloride	153.8	384.6	60.0	0.0	0.000	0.00E+00	
Benzene	78.1	384.6	60.0	0.0	0.000	**0.00E+00**	**1.00E-02**
1,2-Dichloroethane	99.0	384.6	60.0	0.0	0.000	0.00E+00	
Trichloroethene	131.4	384.6	60.0	0.0	0.000	0.00E+00	
1,2-Dichloropropane	113.0	384.6	60.0	0.0	0.000	0.00E+00	
trans-1,3-Dichloropropene	111.0	384.6	60.0	0.0	0.000	0.00E+00	
Toluene	92.0	384.6	60.0	0.0	0.000	0.00E+00	
cis-1,3-Dichloropropene	111.0	384.6	60.0	0.0	0.000	0.00E+00	
1,1,2-Trichloroethane	133.4	384.6	60.0	0.0	0.000	0.00E+00	
Tetrachloroethene	165.8	384.6	60.0	0.0	0.000	0.00E+00	
Ethylene Dibromide	187.9	384.6	60.0	0.0	0.000	0.00E+00	
Chlorobenzene	112.6	384.6	60.0	0.0	0.000	0.00E+00	
Ethylbenzene	106.2	384.6	60.0	0.0	0.000	0.00E+00	
m,p-Xylenes	106.2	384.6	60.0	0.0	0.000	0.00E+00	
o-Xylene	106.2	384.6	60.0	0.0	0.000	0.00E+00	
Styrene	104.2	384.6	60.0	0.0	0.000	0.00E+00	
1,1,2,2-Tetrachlorethane	167.9	384.6	60.0	0.0	0.000	0.00E+00	
1,3,5-Trimethylbenzene	120.2	384.6	60.0	0.0	0.000	0.00E+00	
1,2,4-Trimethylbenzene	120.2	384.6	60.0	0.0	0.000	0.00E+00	
1,3-Dichlorobenzene	147.0	384.6	60.0	0.0	0.000	0.00E+00	
1,4-Dichlorobenzene	147.0	384.6	60.0	0.0	0.000	0.00E+00	
Chlorotoluene	126.6	384.6	60.0	0.0	0.000	0.00E+00	
1,2-Dichlorobenzene	147.0	384.6	60.0	0.0	0.000	0.00E+00	
Acetone	58.1	384.6	60.0	0.0	0.000	0.00E+00	
2-Butanone	72.1	384.6	60.0	0.0	0.000	0.00E+00	
4-methyl-2-pentanone	100.2	384.6	60.0	0.0	0.000	0.00E+00	
2-Hexanone	100.2	384.6	60.0	0.0	0.000	0.00E+00	
			Total Emissions:		**0.000**	**0.00E+00**	**5.00E-02**

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

APPENDIX C

U.S. Navy SBE O&M Contract No. N62472-03-D-0802
Naval Weapons Station-Earle: Bioslurper Unit No. 1
Analytical Results of Air Samples

Bioslurper Unit #1 April 2006

SAMPLE NO. BS #1 Final Effluent **Sample Date:** 4/12/2006 **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))**	**Output Rate (lbs/hr)**	**Emission Limits (lbs/hr)**
Chloromethane	50.5	384.6	60.0	39.0	0.000	0.00E+00	
Bromomethane	94.9	384.6	60.0	39.0	0.000	0.00E+00	
Vinyl Chloride	62.5	384.6	60.0	39.0	0.000	0.00E+00	
Chloroethane	64.5	384.6	60.0	39.0	0.000	0.00E+00	
Freon 11	137.4	384.6	60.0	39.0	0.000	0.00E+00	
1,1-Dichloroethene	96.9	384.6	60.0	39.0	0.000	0.00E+00	
Freon 113	170.9	384.6	60.0	39.0	0.000	0.00E+00	
Methylene Chloride	84.9	384.6	60.0	39.0	0.000	0.00E+00	
1,1-Dichloroethane	99.0	384.6	60.0	39.0	0.000	0.00E+00	
trans-1,2-Dichloroethene	96.9	384.6	60.0	39.0	0.000	0.00E+00	
cis-1,2-Dichloroethene	96.9	384.6	60.0	39.0	0.000	0.00E+00	
Chloroform	119.4	384.6	60.0	39.0	0.000	0.00E+00	
1,1,1-Trichloroethane	133.4	384.6	60.0	39.0	0.000	0.00E+00	
Carbon Tetrachloride	153.8	384.6	60.0	39.0	0.000	0.00E+00	
Benzene	78.1	384.6	60.0	39.0	0.000	0.00E+00	1.00E-02
1,2-Dichloroethane	99.0	384.6	60.0	39.0	0.000	0.00E+00	
Trichloroethene	131.4	384.6	60.0	39.0	0.000	0.00E+00	
1,2-Dichloropropane	113.0	384.6	60.0	39.0	0.000	0.00E+00	
trans-1,3-Dichloropropene	111.0	384.6	60.0	39.0	0.000	0.00E+00	
Toluene	92.0	384.6	60.0	39.0	0.000	0.00E+00	
cis-1,3-Dichloropropene	111.0	384.6	60.0	39.0	0.000	0.00E+00	
1,1,2-Trichloroethane	133.4	384.6	60.0	39.0	0.000	0.00E+00	
Tetrachloroethene	165.8	384.6	60.0	39.0	0.000	0.00E+00	
Ethylene Dibromide	187.9	384.6	60.0	39.0	0.000	0.00E+00	
Chlorobenzene	112.6	384.6	60.0	39.0	0.000	0.00E+00	
Ethylbenzene	106.2	384.6	60.0	39.0	0.000	0.00E+00	
m,p-Xylenes	106.2	384.6	60.0	39.0	0.000	0.00E+00	
o-Xylene	106.2	384.6	60.0	39.0	0.000	0.00E+00	
Styrene	104.2	384.6	60.0	39.0	0.000	0.00E+00	
1,1,2,2-Tetrachlorethane	167.9	384.6	60.0	39.0	0.000	0.00E+00	
1,3,5-Trimethylbenzene	120.2	384.6	60.0	39.0	0.000	0.00E+00	
1,2,4-Trimethylbenzene	120.2	384.6	60.0	39.0	0.000	0.00E+00	
1,3-Dichlorobenzene	147.0	384.6	60.0	39.0	0.000	0.00E+00	
1,4-Dichlorobenzene	147.0	384.6	60.0	39.0	0.000	0.00E+00	
Chlorotoluene	126.6	384.6	60.0	39.0	0.000	0.00E+00	
1,2-Dichlorobenzene	147.0	384.6	60.0	39.0	0.000	0.00E+00	
Acetone	58.1	384.6	60.0	39.0	0.000	0.00E+00	
2-Butanone	72.1	384.6	60.0	39.0	0.000	0.00E+00	
4-methyl-2-pentanone	100.2	384.6	60.0	39.0	0.000	0.00E+00	
2-Hexanone	100.2	384.6	60.0	39.0	0.000	0.00E+00	
			Total Emissions:		**0.000**	**0.00E+00**	**5.00E-02**

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

APPENDIX C

U.S. Navy SBE O&M Contract No. N62472-03-D-0802
Naval Weapons Station-Earle: Bioslurper Unit No. 2
Analytical Results of Air Samples

Bioslurper Unit #2 April 2006

SAMPLE NO. BS #2 Final Effluent **Sample Date:** April 2006 - Deactivated **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))**	**Output Rate (lbs/hr)**	**Emission Limits (lbs/hr)**
Chloromethane	50.5	384.6	60.0	0.0	0.000	0.00E+00	
Bromomethane	94.9	384.6	60.0	0.0	0.000	0.00E+00	
Vinyl Chloride	62.5	384.6	60.0	0.0	0.000	0.00E+00	
Chloroethane	64.5	384.6	60.0	0.0	0.000	0.00E+00	
Freon 11	137.4	384.6	60.0	0.0	0.000	0.00E+00	
1,1-Dichloroethene	96.9	384.6	60.0	0.0	0.000	0.00E+00	
Freon 113	170.9	384.6	60.0	0.0	0.000	0.00E+00	
Methylene Chloride	84.9	384.6	60.0	0.0	0.000	0.00E+00	
1,1-Dichloroethane	99.0	384.6	60.0	0.0	0.000	0.00E+00	
trans-1,2-Dichloroethene	96.9	384.6	60.0	0.0	0.000	0.00E+00	
cis-1,2-Dichloroethene	96.9	384.6	60.0	0.0	0.000	0.00E+00	
Chloroform	119.4	384.6	60.0	0.0	0.000	0.00E+00	
1,1,1-Trichloroethane	133.4	384.6	60.0	0.0	0.000	0.00E+00	
Carbon Tetrachloride	153.8	384.6	60.0	0.0	0.000	0.00E+00	
Benzene	78.1	384.6	60.0	0.0	0.000	**0.00E+00**	**1.00E-02**
1,2-Dichloroethane	99.0	384.6	60.0	0.0	0.000	0.00E+00	
Trichloroethene	131.4	384.6	60.0	0.0	0.000	0.00E+00	
1,2-Dichloropropane	113.0	384.6	60.0	0.0	0.000	0.00E+00	
trans-1,3-Dichloropropene	111.0	384.6	60.0	0.0	0.000	0.00E+00	
Toluene	92.0	384.6	60.0	0.0	0.000	0.00E+00	
cis-1,3-Dichloropropene	111.0	384.6	60.0	0.0	0.000	0.00E+00	
1,1,2-Trichloroethane	133.4	384.6	60.0	0.0	0.000	0.00E+00	
Tetrachloroethene	165.8	384.6	60.0	0.0	0.000	0.00E+00	
Ethylene Dibromide	187.9	384.6	60.0	0.0	0.000	0.00E+00	
Chlorobenzene	112.6	384.6	60.0	0.0	0.000	0.00E+00	
Ethylbenzene	106.2	384.6	60.0	0.0	0.000	0.00E+00	
m,p-Xylenes	106.2	384.6	60.0	0.0	0.000	0.00E+00	
o-Xylene	106.2	384.6	60.0	0.0	0.000	0.00E+00	
Styrene	104.2	384.6	60.0	0.0	0.000	0.00E+00	
1,1,2,2-Tetrachlorethane	167.9	384.6	60.0	0.0	0.000	0.00E+00	
1,3,5-Trimethylbenzene	120.2	384.6	60.0	0.0	0.000	0.00E+00	
1,2,4-Trimethylbenzene	120.2	384.6	60.0	0.0	0.000	0.00E+00	
1,3-Dichlorobenzene	147.0	384.6	60.0	0.0	0.000	0.00E+00	
1,4-Dichlorobenzene	147.0	384.6	60.0	0.0	0.000	0.00E+00	
Chlorotoluene	126.6	384.6	60.0	0.0	0.000	0.00E+00	
1,2-Dichlorobenzene	147.0	384.6	60.0	0.0	0.000	0.00E+00	
Acetone	58.1	384.6	60.0	0.0	0.000	0.00E+00	
2-Butanone	72.1	384.6	60.0	0.0	0.000	0.00E+00	
4-methyl-2-pentanone	100.2	384.6	60.0	0.0	0.000	0.00E+00	
2-Hexanone	100.2	384.6	60.0	0.0	0.000	0.00E+00	
			Total Emissions:		**0.000**	**0.00E+00**	**5.00E-02**

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

APPENDIX C

U.S. Navy SBE O&M Contract No. N62472-03-D-0802
Naval Weapons Station-Earle: Bioslurper Unit No. 1
Analytical Results of Air Samples

Bioslurper Unit #1 May 2006

SAMPLE NO. BS #1 Final Effluent **Sample Date:** 5/17/2006 **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))**	**Output Rate (lbs/hr)**	**Emission Limits (lbs/hr)**
Chloromethane	50.5	384.6	60.0	55.0	0.000	0.00E+00	
Bromomethane	94.9	384.6	60.0	55.0	0.000	0.00E+00	
Vinyl Chloride	62 5	384.6	60.0	55.0	0.000	0.00E+00	
Chloroethane	64.5	384.6	60.0	55.0	0.000	0.00E+00	
Freon 11	137.4	384.6	60.0	55.0	0.000	0.00E+00	
1,1-Dichloroethene	96.9	384.6	60.0	55.0	0.000	0.00E+00	
Freon 113	170.9	384.6	60.0	55.0	0.000	0.00E+00	
Methylene Chloride	84.9	384.6	60.0	55.0	0.000	0.00E+00	
1,1-Dichloroethane	99 0	384.6	60.0	55.0	0.000	0.00E+00	
trans-1,2-Dichloroethene	96.9	384.6	60.0	55.0	0.000	0.00E+00	
cis-1,2-Dichloroethene	96.9	384.6	60.0	55.0	0.000	0.00E+00	
Chloroform	119.4	384.6	60.0	55.0	0.000	0.00E+00	
1,1,1-Trichloroethane	133.4	384.6	60.0	55.0	0.000	0.00E+00	
Carbon Tetrachloride	153.8	384.6	60.0	55.0	0.000	0.00E+00	
Benzene	78.1	384.6	60.0	55.0	0.000	**0.00E+00**	**1.00E-02**
1,2-Dichloroethane	99.0	384.6	60.0	55.0	0.000	0.00E+00	
Trichloroethene	131.4	384.6	60.0	55.0	0.000	0.00E+00	
1,2-Dichloropropane	113.0	384.6	60.0	55.0	0.000	0.00E+00	
trans-1,3-Dichloropropene	111.0	384.6	60.0	55.0	0.000	0.00E+00	
Toluene	92.0	384.6	60.0	55.0	0.000	0.00E+00	
cis-1,3-Dichloropropene	111.0	384.6	60.0	55.0	0.000	0.00E+00	
1,1,2-Trichloroethane	133.4	384.6	60.0	55.0	0.000	0.00E+00	
Tetrachloroethene	165.8	384.6	60.0	55.0	0.000	0.00E+00	
Ethylene Dibromide	187.9	384.6	60.0	55.0	0.000	0.00E+00	
Chlorobenzene	112.6	384.6	60.0	55.0	0.000	0.00E+00	
Ethylbenzene	106.2	384.6	60.0	55.0	0.000	0.00E+00	
m,p-Xylenes	106.2	384.6	60.0	55.0	0.000	0.00E+00	
o-Xylene	106.2	384.6	60.0	55.0	0.000	0.00E+00	
Styrene	104.2	384.6	60.0	55.0	0.000	0.00E+00	
1,1,2,2-Tetrachlorethane	167.9	384.6	60.0	55.0	0.000	0.00E+00	
1,3,5-Trimethylbenzene	120.2	384.6	60.0	55.0	0.000	0.00E+00	
1,2,4-Trimethylbenzene	120.2	384.6	60.0	55.0	0.000	0.00E+00	
1,3-Dichlorobenzene	147.0	384.6	60.0	55.0	0.000	0.00E+00	
1,4-Dichlorobenzene	147.0	384.6	60.0	55.0	0.000	0.00E+00	
Chlorotoluene	126.6	384.6	60.0	55.0	0.000	0.00E+00	
1,2-Dichlorobenzene	147.0	384.6	60.0	55.0	0.000	0.00E+00	
Acetone	58.1	384.6	60.0	55.0	0.000	0.00E+00	
2-Butanone	72.1	384.6	60.0	55.0	0.000	0.00E+00	
4-methyl-2-pentanone	100.2	384.6	60.0	55.0	0.000	0.00E+00	
2-Hexanone	100.2	384.6	60.0	55.0	0.000	0.00E+00	
			Total Emissions:		**0.000**	**0.00E+00**	**5.00E-02**

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

APPENDIX C

U S. Navy SBE O&M Contract No. N62472-03-D-0802
Naval Weapons Station-Earle: Bioslurper Unit No. 2
Analytical Results of Air Samples

Bioslurper Unit #2 May 2006

SAMPLE NO. BS #2 Final Effluent **Sample Date:** May 2006 - Deactivated **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))**	**Output Rate (lbs/hr)**	**Emission Limits (lbs/hr)**
Chloromethane	50.5	384.6	60.0	0.0	0.000	0.00E+00	
Bromomethane	94.9	384.6	60.0	0.0	0.000	0.00E+00	
Vinyl Chloride	62.5	384.6	60.0	0.0	0.000	0.00E+00	
Chloroethane	64.5	384 6	60.0	0.0	0.000	0.00E+00	
Freon 11	137.4	384.6	60.0	0.0	0.000	0.00E+00	
1,1-Dichloroethene	96.9	384.6	60.0	0.0	0.000	0.00E+00	
Freon 113	170.9	384.6	60.0	0.0	0.000	0.00E+00	
Methylene Chloride	84.9	384.6	60 0	0.0	0.000	0.00E+00	
1,1-Dichloroethane	99.0	384.6	60.0	0.0	0.000	0.00E+00	
trans-1,2-Dichloroethene	96.9	384.6	60.0	0.0	0.000	0.00E+00	
cis-1,2-Dichloroethene	96.9	384.6	60.0	0.0	0.000	0.00E+00	
Chloroform	119.4	384.6	60.0	0.0	0.000	0.00E+00	
1,1,1-Trichloroethane	133.4	384.6	60.0	0.0	0.000	0.00E+00	
Carbon Tetrachloride	153.8	384.6	60.0	0.0	0.000	0.00E+00	
Benzene	78 1	384.6	60.0	0.0	0.000	**0.00E+00**	**1.00E-02**
1,2-Dichloroethane	99.0	384.6	60.0	0.0	0.000	0.00E+00	
Trichloroethene	131.4	384.6	60.0	0.0	0.000	0.00E+00	
1,2-Dichloropropane	113.0	384.6	60.0	0.0	0.000	0.00E+00	
trans-1,3-Dichloropropene	111.0	384.6	60.0	0.0	0.000	0.00E+00	
Toluene	92.0	384.6	60.0	0.0	0.000	0.00E+00	
cis-1,3-Dichloropropene	111.0	384.6	60.0	0.0	0.000	0.00E+00	
1,1,2-Trichloroethane	133.4	384 6	60.0	0.0	0.000	0.00E+00	
Tetrachloroethene	165.8	384.6	60.0	0.0	0.000	0.00E+00	
Ethylene Dibromide	187.9	384.6	60.0	0.0	0.000	0.00E+00	
Chlorobenzene	112.6	384.6	60 0	0.0	0.000	0.00E+00	
Ethylbenzene	106.2	384.6	60.0	0.0	0.000	0.00E+00	
m,p-Xylenes	106.2	384.6	60.0	0.0	0.000	0.00E+00	
o-Xylene	106.2	384.6	60.0	0.0	0.000	0.00E+00	
Styrene	104.2	384.6	60.0	0.0	0.000	0.00E+00	
1,1,2,2-Tetrachlorethane	167.9	384.6	60.0	0.0	0.000	0.00E+00	
1,3,5-Trimethylbenzene	120.2	384.6	60.0	0.0	0.000	0.00E+00	
1,2,4-Trimethylbenzene	120.2	384.6	60.0	0.0	0.000	0.00E+00	
1,3-Dichlorobenzene	147.0	384.6	60.0	0.0	0.000	0.00E+00	
1,4-Dichlorobenzene	147.0	384 6	60.0	0.0	0.000	0.00E+00	
Chlorotoluene	126.6	384.6	60.0	0.0	0.000	0.00E+00	
1,2-Dichlorobenzene	147.0	384.6	60.0	0.0	0.000	0.00E+00	
Acetone	58.1	384.6	60.0	0.0	0.000	0.00E+00	
2-Butanone	72 1	384.6	60.0	0.0	0.000	0.00E+00	
4-methyl-2-pentanone	100.2	384.6	60.0	0.0	0.000	0.00E+00	
2-Hexanone	100.2	384.6	60.0	0.0	0.000	0.00E+00	
			Total Emissions:		**0.000**	**0.00E+00**	**5.00E-02**

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

APPENDIX C
NWS-EARLE
BIOSLURPER UNIT #1 AND #2
TPH REMOVED VIA VAPOR EXTRACTION
MARCH 2006

BIOSLURPER UNIT 1		
OPERATED (hours):	165	
AVERAGE FLOW RATE (cfm):	17	
TPH CONCENTRATION (mg/m^3):	150	
(as per analytical)	**3/14/2006**	
	1.58	=POUNDS OF TPH

BIOSLURPER UNIT 2		
OPERATED (hours):	0	
AVERAGE FLOW RATE (cfm):	0	
TPH CONCENTRATION (mg/m^3):		
(as per analytical)	**Mar 2006 - Deactivated**	
	0.00	=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)

APPENDIX C
NWS-EARLE
BIOSLURPER UNIT #1 AND #2
TPH REMOVED VIA VAPOR EXTRACTION
APRIL 2006

BIOSLURPER UNIT 1		
OPERATED (hours):	139	
AVERAGE FLOW RATE (cfm):	39	
TPH CONCENTRATION (mg/m^3):	200	
(as per analytical) **4/12/2006**		
	4.06	=POUNDS OF TPH

BIOSLURPER UNIT 2		
OPERATED (hours):	0	
AVERAGE FLOW RATE (cfm):	0	
TPH CONCENTRATION (mg/m^3):		
(as per analytical) **Apr 2006 - Deactivated**		
	0.00	=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)

APPENDIX C
NWS-EARLE
BIOSLURPER UNIT #1 AND #2
TPH REMOVED VIA VAPOR EXTRACTION
MAY 2006

BIOSLURPER UNIT 1		
OPERATED (hours):	158	
AVERAGE FLOW RATE (cfm):	55	
TPH CONCENTRATION (mg/m^3):	290	
(as per analytical) **5/17/2006**		
	9.44	=POUNDS OF TPH

BIOSLURPER UNIT 2		
OPERATED (hours):	0	
AVERAGE FLOW RATE (cfm):	0	
TPH CONCENTRATION (mg/m^3):		
(as per analytical) **May 2006 - Deactivated**		
	0.00	=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)

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CHAIN-OF-CUSTODY RECORD

Page ____ of ____

Contact Person: Rich Evans
Company: ECOR Solutions Inc. Email:
Address: 1075 Andrew Dr. Suite F City: Westchester State: PA Zip: 19380
Phone: (610) 431 8731 Fax: (610) 431-2852
Collected by: (Signature)

Project Info:
P.O. #: N0100171
Project #:
Project Name: NWS Earle Colts Neck

Turn Around Time:
☑ Normal
☐ Rush
specify

Lab Use Only
Pressurized by: [illegible]
Date: 3/17/06
Pressurization Gas: (N_2) He

Lab I.D.	Field Sample I.D. (Location)	Can#	Date	Time	Analyses Requested	Canister Pressure/Vacuum Initial	Final	Receipt	Final (psi)
01A	Inffluent	3475	3/14/06	12:30	TO3 - TO14			0.2psi	5.0psi
02A	Final Effluent	5360	3/14/06	12:30	TO3 - TO14			0.0HG	↓

Relinquished by: (signature) Date/Time	Received by: (signature) Date/Time
Keith Pebler 3/14/06	[illegible] 03/15/06 0840
Relinquished by: (signature) Date/Time	Received by: (signature) Date/Time
Relinquished by: (signature) Date/Time	Received by: (signature) Date/Time

Notes:

Lab Use Only	Shipper Name	Air Bill #	Temp (°C)	Condition	Customer Seals Intact?	Work Order #
	FedEx	8532 2794 2492	—	Good	Yes No None	0603315

Form 1898 rev.10

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AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: Influent

Lab ID#: 0603315A-01A

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	i031928	Date of Collection:	3/14/06
Dil. Factor:	3.52	Date of Analysis:	3/20/06 06:29 AM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	1.8	Not Detected	8.7	Not Detected
Freon 114	1.8	Not Detected	12	Not Detected
Chloromethane	7.0	Not Detected	14	Not Detected
Vinyl Chloride	1.8	Not Detected	4.5	Not Detected
1,3-Butadiene	1.8	Not Detected	3.9	Not Detected
Bromomethane	1.8	Not Detected	6.8	Not Detected
Chloroethane	1.8	Not Detected	4.6	Not Detected
Freon 11	1.8	Not Detected	9.9	Not Detected
Ethanol	7.0	Not Detected	13	Not Detected
Freon 113	1.8	Not Detected	13	Not Detected
1,1-Dichloroethene	1.8	Not Detected	7.0	Not Detected
Acetone	7.0	Not Detected	17	Not Detected
2-Propanol	7.0	Not Detected	17	Not Detected
Carbon Disulfide	1.8	Not Detected	5.5	Not Detected
3-Chloropropene	7.0	Not Detected	22	Not Detected
Methylene Chloride	1.8	Not Detected	6.1	Not Detected
Methyl tert-butyl ether	1.8	Not Detected	6.3	Not Detected
trans-1,2-Dichloroethene	1.8	Not Detected	7.0	Not Detected
Hexane	1.8	170	6.2	590
1,1-Dichloroethane	1.8	Not Detected	7.1	Not Detected
2-Butanone (Methyl Ethyl Ketone)	1.8	21	5.2	62
cis-1,2-Dichloroethene	1.8	Not Detected	7.0	Not Detected
Tetrahydrofuran	1.8	33	5.2	96
Chloroform	1.8	Not Detected	8.6	Not Detected
1,1,1-Trichloroethane	1.8	Not Detected	9.6	Not Detected
Cyclohexane	1.8	96	6.0	330
Carbon Tetrachloride	1.8	Not Detected	11	Not Detected
2,2,4-Trimethylpentane	1.8	34 J	8.2	160 J
Benzene	1.8	67	5.6	210
1,2-Dichloroethane	1.8	Not Detected	7.1	Not Detected
Heptane	1.8	150	7.2	630
Trichloroethene	1.8	Not Detected	9.4	Not Detected
1,2-Dichloropropane	1.8	Not Detected	8.1	Not Detected
1,4-Dioxane	7.0	Not Detected	25	Not Detected
Bromodichloromethane	1.8	Not Detected	12	Not Detected
cis-1,3-Dichloropropene	1.8	Not Detected	8.0	Not Detected
4-Methyl-2-pentanone	1.8	Not Detected	7.2	Not Detected
Toluene	1.8	9.6	6.6	36
trans-1,3-Dichloropropene	1.8	Not Detected	8.0	Not Detected
1,1,2-Trichloroethane	1.8	Not Detected	9.6	Not Detected

AIR TOXICS LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: Influent

Lab ID#: 0603315A-01A

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	i031928	Date of Collection:	3/14/06
Dil. Factor:	3.52	Date of Analysis:	3/20/06 06:29 AM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Tetrachloroethene	1.8	Not Detected	12	Not Detected
2-Hexanone	7.0	Not Detected	29	Not Detected
Dibromochloromethane	1.8	Not Detected	15	Not Detected
1,2-Dibromoethane (EDB)	1.8	Not Detected	14	Not Detected
Chlorobenzene	1.8	Not Detected	8.1	Not Detected
Ethyl Benzene	1.8	170	7.6	730
m,p-Xylene	1.8	510	7.6	2200
o-Xylene	1.8	74	7.6	320
Styrene	1.8	Not Detected	7.5	Not Detected
Bromoform	1.8	Not Detected	18	Not Detected
Cumene	1.8	60	8.6	300
1,1,2,2-Tetrachloroethane	1.8	Not Detected	12	Not Detected
Propylbenzene	1.8	120	8.6	580
4-Ethyltoluene	1.8	420	8.6	2100
1,3,5-Trimethylbenzene	1.8	230	8.6	1100
1,2,4-Trimethylbenzene	1.8	700	8.6	3400
1,3-Dichlorobenzene	1.8	Not Detected	10	Not Detected
1,4-Dichlorobenzene	1.8	Not Detected	10	Not Detected
alpha-Chlorotoluene	1.8	Not Detected	9.1	Not Detected
1,2-Dichlorobenzene	1.8	Not Detected	10	Not Detected
1,2,4-Trichlorobenzene	7.0	Not Detected	52	Not Detected
Hexachlorobutadiene	7.0	Not Detected	75	Not Detected

J = Estimated value due to bias in the CCV.

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	107	70-130
Toluene-d8	104	70-130
4-Bromofluorobenzene	109	70-130

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AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: Final Effluent

Lab ID#: 0603315A-02A

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	i031929	Date of Collection:	3/14/06
Dil. Factor:	1.34	Date of Analysis:	3/20/06 07:07 AM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	0.67	0.68	3.3	3.4
Freon 114	0.67	Not Detected	4.7	Not Detected
Chloromethane	2.7	Not Detected	5.5	Not Detected
Vinyl Chloride	0.67	Not Detected	1.7	Not Detected
1,3-Butadiene	0.67	Not Detected	1.5	Not Detected
Bromomethane	0.67	Not Detected	2.6	Not Detected
Chloroethane	0.67	Not Detected	1.8	Not Detected
Freon 11	0.67	Not Detected	3.8	Not Detected
Ethanol	2.7	3.1	5.0	5.9
Freon 113	0.67	Not Detected	5.1	Not Detected
1,1-Dichloroethene	0.67	Not Detected	2.6	Not Detected
Acetone	2.7	Not Detected	6.4	Not Detected
2-Propanol	2.7	Not Detected	6.6	Not Detected
Carbon Disulfide	0.67	Not Detected	2.1	Not Detected
3-Chloropropene	2.7	Not Detected	8.4	Not Detected
Methylene Chloride	0.67	0.89	2.3	3 1
Methyl tert-butyl ether	0.67	Not Detected	2.4	Not Detected
trans-1,2-Dichloroethene	0.67	Not Detected	2.6	Not Detected
Hexane	0.67	Not Detected	2.4	Not Detected
1,1-Dichloroethane	0.67	Not Detected	2.7	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.67	1.2	2.0	3.6
cis-1,2-Dichloroethene	0.67	Not Detected	2.6	Not Detected
Tetrahydrofuran	0.67	Not Detected	2.0	Not Detected
Chloroform	0.67	Not Detected	3.3	Not Detected
1,1,1-Trichloroethane	0.67	Not Detected	3.6	Not Detected
Cyclohexane	0.67	Not Detected	2.3	Not Detected
Carbon Tetrachloride	0.67	Not Detected	4.2	Not Detected
2,2,4-Trimethylpentane	0.67	Not Detected U J	3.1	Not Detected U J
Benzene	0.67	Not Detected	2.1	Not Detected
1,2-Dichloroethane	0.67	Not Detected	2.7	Not Detected
Heptane	0.67	Not Detected	2.7	Not Detected
Trichloroethene	0.67	Not Detected	3.6	Not Detected
1,2-Dichloropropane	0.67	Not Detected	3.1	Not Detected
1,4-Dioxane	2.7	Not Detected	9.6	Not Detected
Bromodichloromethane	0.67	Not Detected	4.5	Not Detected
cis-1,3-Dichloropropene	0.67	Not Detected	3.0	Not Detected
4-Methyl-2-pentanone	0.67	Not Detected	2.7	Not Detected
Toluene	0.67	Not Detected	2.5	Not Detected
trans-1,3-Dichloropropene	0.67	Not Detected	3.0	Not Detected
1,1,2-Trichloroethane	0.67	Not Detected	3.6	Not Detected

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AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: Final Effluent

Lab ID#: 0603315A-02A

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	i031929	Date of Collection:	3/14/06
Dil. Factor:	1.34	Date of Analysis:	3/20/06 07:07 AM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Tetrachloroethene	0.67	Not Detected	4.5	Not Detected
2-Hexanone	2.7	Not Detected	11	Not Detected
Dibromochloromethane	0.67	Not Detected	5.7	Not Detected
1,2-Dibromoethane (EDB)	0.67	Not Detected	5.1	Not Detected
Chlorobenzene	0.67	Not Detected	3.1	Not Detected
Ethyl Benzene	0.67	Not Detected	2.9	Not Detected
m,p-Xylene	0.67	Not Detected	2.9	Not Detected
o-Xylene	0.67	Not Detected	2.9	Not Detected
Styrene	0.67	Not Detected	2.8	Not Detected
Bromoform	0.67	Not Detected	6.9	Not Detected
Cumene	0.67	Not Detected	3.3	Not Detected
1,1,2,2-Tetrachloroethane	0.67	Not Detected	4.6	Not Detected
Propylbenzene	0.67	Not Detected	3.3	Not Detected
4-Ethyltoluene	0.67	Not Detected	3.3	Not Detected
1,3,5-Trimethylbenzene	0.67	Not Detected	3.3	Not Detected
1,2,4-Trimethylbenzene	0.67	Not Detected	3.3	Not Detected
1,3-Dichlorobenzene	0.67	Not Detected	4.0	Not Detected
1,4-Dichlorobenzene	0.67	Not Detected	4.0	Not Detected
alpha-Chlorotoluene	0.67	Not Detected	3.5	Not Detected
1,2-Dichlorobenzene	0.67	Not Detected	4.0	Not Detected
1,2,4-Trichlorobenzene	2.7	Not Detected	20	Not Detected
Hexachlorobutadiene	2.7	Not Detected	28	Not Detected

UJ = Non-detected compound associated with low bias in the CCV

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	98	70-130
Toluene-d8	103	70-130
4-Bromofluorobenzene	108	70-130

AIR TOXICS LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: Influent

Lab ID#: 0603315B-01A

MODIFIED EPA METHOD TO-3 GC/FID

File Name:	d032217	Date of Collection:	3/14/06
Dil. Factor:	5.28	Date of Analysis:	3/22/06 04:59 PM

Compound	Rpt. Limit (ppmv)	Rpt. Limit (uG/L)	Amount (ppmv)	Amount (uG/L)
TPH (C5+ Hydrocarbons) ref. to Gasoline	0.13	0.54	36	150

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Fluorobenzene (FID)	100	75-150

AIR TOXICS LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: Final Effluent

Lab ID#: 0603315B-02A

MODIFIED EPA METHOD TO-3 GC/FID

File Name:	d032218	Date of Collection:	3/14/06
Dil. Factor:	1.34	Date of Analysis:	3/22/06 05:39 PM

Compound	Rpt. Limit (ppmv)	Rpt. Limit (uG/L)	Amount (ppmv)	Amount (uG/L)
TPH (C5+ Hydrocarbons) ref. to Gasoline	0.034	0.14	0.10	0.43

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Fluorobenzene (FID)	106	75-150

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AN ENVIRONMENTAL ANALYTICAL LABORATORY

CHAIN-OF-CUSTODY RECORD

Sample Transp rtati n Notice
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180 BLUE RAVINE ROAD, SUITE B
FOLSOM, CA 95630-4719
(916) 985-1000 FAX (916) 985-1020

Page ____ of ____

0102

Contact Person: Rich Evans
Company: Ecor Solutions Inc.
Email:
Address: 1075 Andrew dr. City: West Chester State: Pa. Zip: 19380
Phone: 610-431-8731 Fax: 610-431-2452
Collected by: (Signature) Greg McFadden

Project Info:
P.O. # NC100171
Project #
Project Name: NWS Earle

Turn Around Time:
☑ Normal
☐ Rush
specify

Lab Use Only
Pressurized by: VHR
Date: 4/13/06
Pressurization Gas: (N_2) He

Lab I.D.	Field Sample I.D. (Location)	Can#	Date	Time	Analyses Requested	Canister Pressure/Vacuum Initial	Final	Receipt (psi)	Final (psi)
02A	Influent	13055	4-12-06	1249	TO3-TO14			0.2psi	5.0psi
02B	Final Effluent	3P887	4-12-06	1303	TO3-TO14			0.2psi	✓

Relinquished by: (signature)	Date/Time	Received by: (signature)	Date/Time
[signature]	4-12-06 1600	[signature]	4/13/06 ATL 0900
Relinquished by: (signature)	Date/Time	Received by: (signature)	Date/Time
Relinquished by: (signature)	Date/Time	Received by: (signature)	Date/Time

Notes:

Lab Use Only	Shipper Name	Air Bill #	Temp (°C)	Condition	Customer Seals Intact?	Work Order
	Fed Ex	8555 [illegible]	NA	Good	Yes No None	0604247

Form 1235 rev.10

@ AIR TOXICS LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: Influent

Lab ID#: 0604247A-01A

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	1041722	Date of Collection:	4/12/06
Dil. Factor:	5.28	Date of Analysis:	4/18/06 12:28 AM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	2.6	Not Detected	13	Not Detected
Freon 114	2.6	Not Detected	18	Not Detected
Chloromethane	10	Not Detected	22	Not Detected
Vinyl Chloride	2.6	8.0	6.7	20
1,3-Butadiene	2.6	Not Detected	5.8	Not Detected
Bromomethane	2.6	Not Detected	10	Not Detected
Chloroethane	2.6	Not Detected	7.0	Not Detected
Freon 11	2.6	Not Detected	15	Not Detected
Ethanol	10	Not Detected	20	Not Detected
Freon 113	2.6	Not Detected	20	Not Detected
1,1-Dichloroethene	2.6	Not Detected	10	Not Detected
Acetone	10	Not Detected	25	Not Detected
2-Propanol	10	Not Detected	26	Not Detected
Carbon Disulfide	2.6	Not Detected	8.2	Not Detected
3-Chloropropene	10	Not Detected	33	Not Detected
Methylene Chloride	2.6	Not Detected	9.2	Not Detected
Methyl tert-butyl ether	2.6	Not Detected	9.5	Not Detected
trans-1,2-Dichloroethene	2.6	Not Detected	10	Not Detected
Hexane	2.6	790	9.3	2800
1,1-Dichloroethane	2.6	Not Detected	11	Not Detected
2-Butanone (Methyl Ethyl Ketone)	2.6	14	7.8	42
cis-1,2-Dichloroethene	2.6	Not Detected	10	Not Detected
Tetrahydrofuran	2.6	Not Detected	7.8	Not Detected
Chloroform	2.6	Not Detected	13	Not Detected
1,1,1-Trichloroethane	2.6	Not Detected	14	Not Detected
Cyclohexane	2.6	160	9.1	550
Carbon Tetrachloride	2.6	Not Detected	17	Not Detected
2,2,4-Trimethylpentane	2.6	190	12	890
Benzene	2 6	180	8.4	560
1,2-Dichloroethane	2.6	Not Detected	11	Not Detected
Heptane	2.6	310	11	1300
Trichloroethene	2.6	Not Detected	14	Not Detected
1,2-Dichloropropane	2.6	Not Detected	12	Not Detected
1,4-Dioxane	10	Not Detected	38	Not Detected
Bromodichloromethane	2.6	Not Detected	18	Not Detected
cis-1,3-Dichloropropene	2.6	Not Detected	12	Not Detected
4-Methyl-2-pentanone	2.6	Not Detected	11	Not Detected
Toluene	2.6	25	9.9	94
trans-1,3-Dichloropropene	2.6	Not Detected	12	Not Detected
1,1,2-Trichloroethane	2.6	Not Detected	14	Not Detected

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AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: Influent

Lab ID#: 0604247A-01A

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	1041722	Date of Collection:	4/12/06
Dil. Factor:	5.28	Date of Analysis:	4/18/06 12:28 AM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Tetrachloroethene	2.6	Not Detected	18	Not Detected
2-Hexanone	10	Not Detected	43	Not Detected
Dibromochloromethane	2.6	Not Detected	22	Not Detected
1,2-Dibromoethane (EDB)	2.6	Not Detected	20	Not Detected
Chlorobenzene	2.6	Not Detected	12	Not Detected
Ethyl Benzene	2.6	240	11	1000
m,p-Xylene	2.6	580	11	2500
o-Xylene	2.6	120	11	530
Styrene	2.6	Not Detected	11	Not Detected
Bromoform	2.6	Not Detected	27	Not Detected
Cumene	2.6	63	13	310
1,1,2,2-Tetrachloroethane	2.6	Not Detected	18	Not Detected
Propylbenzene	2.6	120	13	570
4-Ethyltoluene	2.6	330	13	1600
1,3,5-Trimethylbenzene	2.6	170	13	820
1,2,4-Trimethylbenzene	2.6	500	13	2400
1,3-Dichlorobenzene	2.6	Not Detected	16	Not Detected
1,4-Dichlorobenzene	2.6	Not Detected	16	Not Detected
alpha-Chlorotoluene	2.6	Not Detected	14	Not Detected
1,2-Dichlorobenzene	2.6	Not Detected	16	Not Detected
1,2,4-Trichlorobenzene	10	Not Detected	78	Not Detected
Hexachlorobutadiene	10	Not Detected	110	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	108	70-130
Toluene-d8	101	70-130
4-Bromofluorobenzene	98	70-130

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AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: Final Effluent

Lab ID#: 0604247A-02A

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	1041723	Date of Collection:	4/12/06
Dil. Factor:	1.32	Date of Analysis:	4/18/06 01:19 AM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	0.66	Not Detected	3.3	Not Detected
Freon 114	0.66	Not Detected	4.6	Not Detected
Chloromethane	2.6	Not Detected	5.4	Not Detected
Vinyl Chloride	0.66	Not Detected	1.7	Not Detected
1,3-Butadiene	0.66	Not Detected	1.5	Not Detected
Bromomethane	0.66	Not Detected	2.6	Not Detected
Chloroethane	0.66	Not Detected	1.7	Not Detected
Freon 11	0.66	Not Detected	3.7	Not Detected
Ethanol	2.6	Not Detected	5.0	Not Detected
Freon 113	0.66	Not Detected	5.0	Not Detected
1,1-Dichloroethene	0.66	Not Detected	2.6	Not Detected
Acetone	2.6	Not Detected	6.3	Not Detected
2-Propanol	2.6	Not Detected	6.5	Not Detected
Carbon Disulfide	0.66	Not Detected	2.0	Not Detected
3-Chloropropene	2.6	Not Detected	8.3	Not Detected
Methylene Chloride	0.66	Not Detected	2.3	Not Detected
Methyl tert-butyl ether	0.66	Not Detected	2.4	Not Detected
trans-1,2-Dichloroethene	0.66	Not Detected	2.6	Not Detected
Hexane	0.66	Not Detected	2 3	Not Detected
1,1-Dichloroethane	0.66	Not Detected	2.7	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.66	Not Detected	1.9	Not Detected
cis-1,2-Dichloroethene	0.66	Not Detected	2.6	Not Detected
Tetrahydrofuran	0.66	Not Detected	1.9	Not Detected
Chloroform	0.66	Not Detected	3.2	Not Detected
1,1,1-Trichloroethane	0.66	Not Detected	3.6	Not Detected
Cyclohexane	0.66	Not Detected	2.3	Not Detected
Carbon Tetrachloride	0.66	Not Detected	4.2	Not Detected
2,2,4-Trimethylpentane	0.66	Not Detected	3.1	Not Detected
Benzene	0.66	Not Detected	2.1	Not Detected
1,2-Dichloroethane	0.66	Not Detected	2.7	Not Detected
Heptane	0.66	Not Detected	2.7	Not Detected
Trichloroethene	0.66	Not Detected	3.5	Not Detected
1,2-Dichloropropane	0.66	Not Detected	3.0	Not Detected
1,4-Dioxane	2.6	Not Detected	9.5	Not Detected
Bromodichloromethane	0.66	Not Detected	4.4	Not Detected
cis-1,3-Dichloropropene	0.66	Not Detected	3.0	Not Detected
4-Methyl-2-pentanone	0.66	Not Detected	2.7	Not Detected
Toluene	0.66	Not Detected	2.5	Not Detected
trans-1,3-Dichloropropene	0.66	Not Detected	3.0	Not Detected
1,1,2-Trichloroethane	0.66	Not Detected	3.6	Not Detected

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AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: Final Effluent

Lab ID#: 0604247A-02A

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	1041723	Date of Collection:	4/12/06
Dil. Factor:	1.32	Date of Analysis:	4/18/06 01:19 AM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Tetrachloroethene	0.66	Not Detected	4.5	Not Detected
2-Hexanone	2.6	Not Detected	11	Not Detected
Dibromochloromethane	0.66	Not Detected	5.6	Not Detected
1,2-Dibromoethane (EDB)	0.66	Not Detected	5.1	Not Detected
Chlorobenzene	0.66	Not Detected	3.0	Not Detected
Ethyl Benzene	0.66	Not Detected	2.9	Not Detected
m,p-Xylene	0.66	Not Detected	2.9	Not Detected
o-Xylene	0.66	Not Detected	2.9	Not Detected
Styrene	0.66	Not Detected	2.8	Not Detected
Bromoform	0.66	Not Detected	6.8	Not Detected
Cumene	0.66	Not Detected	3.2	Not Detected
1,1,2,2-Tetrachloroethane	0.66	Not Detected	4.5	Not Detected
Propylbenzene	0.66	Not Detected	3.2	Not Detected
4-Ethyltoluene	0.66	Not Detected	3.2	Not Detected
1,3,5-Trimethylbenzene	0.66	Not Detected	3.2	Not Detected
1,2,4-Trimethylbenzene	0.66	Not Detected	3.2	Not Detected
1,3-Dichlorobenzene	0.66	Not Detected	4.0	Not Detected
1,4-Dichlorobenzene	0.66	Not Detected	4.0	Not Detected
alpha-Chlorotoluene	0.66	Not Detected	3.4	Not Detected
1,2-Dichlorobenzene	0.66	Not Detected	4.0	Not Detected
1,2,4-Trichlorobenzene	2.6	Not Detected	20	Not Detected
Hexachlorobutadiene	2.6	Not Detected	28	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	94	70-130
Toluene-d8	99	70-130
4-Bromofluorobenzene	92	70-130

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AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: Influent

Lab ID#: 0604247B-01A

MODIFIED EPA METHOD TO-3 GC/FID

File Name:	d041720	Date of Collection:	4/12/06
Dil. Factor:	10.6	Date of Analysis:	4/17/06 08:43 PM

Compound	Rpt. Limit (ppmv)	Rpt. Limit (uG/L)	Amount (ppmv)	Amount (uG/L)
TPH (C5+ Hydrocarbons) ref. to Gasoline	0.26	1.1	50	210

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Fluorobenzene (FID)	132	75-150

AIR TOXICS LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Summary of Detected Compounds
MODIFIED EPA METHOD TO-3 GC/FID

Client Sample ID: Influent Duplicate

Lab ID#: 0604247B-01AA

Compound	Rpt. Limit (ppmv)	Rpt. Limit (uG/L)	Amount (ppmv)	Amount (uG/L)
TPH (C5+ Hydrocarbons) ref. to Gasoline	0.66	2.7	50	200

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Client Sample ID: Influent Duplicate

Lab ID#: 0604247B-01AA

MODIFIED EPA METHOD TO-3 GC/FID

File Name:	d041719	Date of Collection:	4/12/06
Dil. Factor:	26.4	Date of Analysis:	4/17/06 07:30 PM

Compound	Rpt. Limit (ppmv)	Rpt. Limit (uG/L)	Amount (ppmv)	Amount (uG/L)
TPH (C5+ Hydrocarbons) ref. to Gasoline	0.66	2.7	50	200

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Fluorobenzene (FID)	115	75-150

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AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: Final Effluent

Lab ID#: 0604247B-02A

MODIFIED EPA METHOD TO-3 GC/FID

File Name:	d041718	Date of Collection:	4/12/06
Dil. Factor:	1.32	Date of Analysis:	4/17/06 06:58 PM

Compound	Rpt. Limit (ppmv)	Rpt. Limit (uG/L)	Amount (ppmv)	Amount (uG/L)
TPH (C5+ Hydrocarbons) ref. to Gasoline	0.033	0.13	Not Detected	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Fluorobenzene (FID)	106	75-150

@ AIR TOXICS LTD.
AN ENVIRONMENTAL ANALYTICAL LABORATORY

Sample Transp rtation Notice
Relinquishing signature on this document indicates that sample is being shipped in compliance with all applicable local, State Federal, national, and international laws, regulations and ordinances of any kind. Air Toxics Limited assumes no liability with respect to the collection, handling or shipping of these samples. Relinquishing signature also indicates agreement to hold harmless, defend, and indemnify Air Toxics Limited against any claim demand, or action, of any kind, related to the collection, handling, or shipping of samples D.O.T. Hotline (800) 467-4922

180 BLUE RAVINE ROAD, SUITE B
FOLSOM, CA 95630-4719
(916) 985-1000 FAX (916) 985-1020

0364

CHAIN-OF-CUSTODY RECORD

Page ___ of ___

Contact Person Rich Evans
Company ECOR Solution Email
Address 1075 Andrews Suite 1 City Westchester State PA Zip 19380
Phone 610-431-8731 Fax 610 431 2852
Collected by: (Signature)

Project Info:
P.O. # N0100171
Project #
Project Name NWS Earle

Turn Around Time:
☐ Normal
☐ Rush
specify

Lab Use Only
Pressurized by: DS
Date: 5/23/06
Pressurization Gas: N_2 He

Lab I.D.	Field Sample I.D. (Location)	Can#	Date	Time	Analyses Requested	Canister Pressure/Vacuum Initial	Final	Receipt	Final (psi)
01A	INFLUENT	1	5-17-06	1230	T03 - T014			0.5 Hg	5.0 psi
02A	EFFLUENT	1	5-17-06	1230	T03 - T014			1.0 Hg	5.0 psi

Relinquished by: (signature) Date/Time: F. Mathison 5-17-06
Received by: (signature) Date/Time: [illegible] 5/18/06 1020
Notes:
Relinquished by: (signature) Date/Time
Received by: (signature) Date/Time
Relinquished by: (signature) Date/Time
Received by: (signature) Date/Time

Lab Use Only	Shipper Name	Air Bill #	Temp (°C)	Condition	Customer Seals Intact?	Work Order #
		1Z 176 316 22 1000 731 5	NA	good	Yes No None	0605142

Form 1293 rev.10

AIR TOXICS LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: Influent

Lab ID#: 0605442A-01A

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	5053017	Date of Collection:	5/17/06
Dil. Factor:	6.80	Date of Analysis:	5/30/06 09:41 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	3.4	Not Detected	17	Not Detected
Freon 114	3.4	Not Detected	24	Not Detected
Chloromethane	14	Not Detected	28	Not Detected
Vinyl Chloride	3.4	Not Detected	8.7	Not Detected
1,3-Butadiene	3.4	Not Detected	7.5	Not Detected
Bromomethane	3.4	Not Detected	13	Not Detected
Chloroethane	3.4	Not Detected	9.0	Not Detected
Freon 11	3.4	Not Detected	19	Not Detected
Ethanol	14	Not Detected	26	Not Detected
Freon 113	3.4	Not Detected	26	Not Detected
1,1-Dichloroethene	3.4	Not Detected	13	Not Detected
Acetone	14	Not Detected	32	Not Detected
2-Propanol	14	Not Detected	33	Not Detected
Carbon Disulfide	3.4	Not Detected	10	Not Detected
3-Chloropropene	14	Not Detected	42	Not Detected
Methylene Chloride	3.4	Not Detected	12	Not Detected
Methyl tert-butyl ether	3.4	4.7	12	17
trans-1,2-Dichloroethene	3.4	Not Detected	13	Not Detected
Hexane	3.4	700	12	2400
1,1-Dichloroethane	3.4	Not Detected	14	Not Detected
2-Butanone (Methyl Ethyl Ketone)	3.4	10	10	30
cis-1,2-Dichloroethene	3.4	Not Detected	13	Not Detected
Tetrahydrofuran	3.4	15	10	45
Chloroform	3.4	Not Detected	17	Not Detected
1,1,1-Trichloroethane	3.4	Not Detected	18	Not Detected
Cyclohexane	3.4	250	12	870
Carbon Tetrachloride	3.4	Not Detected	21	Not Detected
2,2,4-Trimethylpentane	3.4	140	16	650
Benzene	3.4	250	11	790
1,2-Dichloroethane	3.4	Not Detected	14	Not Detected
Heptane	3.4	330	14	1300
Trichloroethene	3.4	Not Detected	18	Not Detected
1,2-Dichloropropane	3.4	Not Detected	16	Not Detected
1,4-Dioxane	14	Not Detected	49	Not Detected
Bromodichloromethane	3.4	Not Detected	23	Not Detected
cis-1,3-Dichloropropene	3.4	Not Detected	15	Not Detected
4-Methyl-2-pentanone	3.4	Not Detected	14	Not Detected
Toluene	3.4	23	13	86
trans-1,3-Dichloropropene	3.4	Not Detected	15	Not Detected
1,1,2-Trichloroethane	3.4	Not Detected	18	Not Detected

@ AIR TOXICS LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: Influent

Lab ID#: 0605442A-01A

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	5053017	Date of Collection:	5/17/06
Dil. Factor:	6.80	Date of Analysis:	5/30/06 09:41 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Tetrachloroethene	3.4	Not Detected	23	Not Detected
2-Hexanone	14	Not Detected	56	Not Detected
Dibromochloromethane	3.4	Not Detected	29	Not Detected
1,2-Dibromoethane (EDB)	3.4	Not Detected	26	Not Detected
Chlorobenzene	3.4	Not Detected	16	Not Detected
Ethyl Benzene	3.4	390	15	1700
m,p-Xylene	3.4	900	15	3900
o-Xylene	3.4	160	15	710
Styrene	3.4	Not Detected	14	Not Detected
Bromoform	3.4	Not Detected	35	Not Detected
Cumene	3.4	96	17	470
1,1,2,2-Tetrachloroethane	3.4	Not Detected	23	Not Detected
Propylbenzene	3.4	160	17	810
4-Ethyltoluene	3.4	560	17	2800
1,3,5-Trimethylbenzene	3.4	340	17	1700
1,2,4-Trimethylbenzene	3.4	1000	17	5000
1,3-Dichlorobenzene	3.4	Not Detected	20	Not Detected
1,4-Dichlorobenzene	3.4	Not Detected	20	Not Detected
alpha-Chlorotoluene	3.4	Not Detected	18	Not Detected
1,2-Dichlorobenzene	3.4	Not Detected	20	Not Detected
1,2,4-Trichlorobenzene	14	Not Detected	100	Not Detected
Hexachlorobutadiene	14	Not Detected	140	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	84	70-130
Toluene-d8	99	70-130
4-Bromofluorobenzene	89	70-130

@ AIR TOXICS LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: Effluent

Lab ID#: 0605442A-02A

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	5053015	Date of Collection:	5/17/06
Dil. Factor:	1.39	Date of Analysis:	5/30/06 08:28 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	0.70	Not Detected	3 4	Not Detected
Freon 114	0.70	Not Detected	4.8	Not Detected
Chloromethane	2.8	Not Detected	5.7	Not Detected
Vinyl Chloride	0.70	Not Detected	1.8	Not Detected
1,3-Butadiene	0.70	Not Detected	1.5	Not Detected
Bromomethane	0.70	Not Detected	2.7	Not Detected
Chloroethane	0.70	Not Detected	1.8	Not Detected
Freon 11	0.70	Not Detected	3.9	Not Detected
Ethanol	2.8	Not Detected	5 2	Not Detected
Freon 113	0.70	Not Detected	5.3	Not Detected
1,1-Dichloroethene	0.70	Not Detected	2.8	Not Detected
Acetone	2.8	Not Detected	6.6	Not Detected
2-Propanol	2.8	Not Detected	6.8	Not Detected
Carbon Disulfide	0.70	Not Detected	2.2	Not Detected
3-Chloropropene	2.8	Not Detected	8.7	Not Detected
Methylene Chloride	0.70	Not Detected	2.4	Not Detected
Methyl tert-butyl ether	0.70	Not Detected	2.5	Not Detected
trans-1,2-Dichloroethene	0.70	Not Detected	2.8	Not Detected
Hexane	0.70	Not Detected	2.4	Not Detected
1,1-Dichloroethane	0.70	Not Detected	2.8	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.70	Not Detected	2.0	Not Detected
cis-1,2-Dichloroethene	0.70	Not Detected	2.8	Not Detected
Tetrahydrofuran	0.70	Not Detected	2.0	Not Detected
Chloroform	0.70	Not Detected	3.4	Not Detected
1,1,1-Trichloroethane	0.70	Not Detected	3.8	Not Detected
Cyclohexane	0.70	Not Detected	2.4	Not Detected
Carbon Tetrachloride	0.70	Not Detected	4.4	Not Detected
2,2,4-Trimethylpentane	0.70	Not Detected	3.2	Not Detected
Benzene	0.70	Not Detected	2.2	Not Detected
1,2-Dichloroethane	0.70	Not Detected	2.8	Not Detected
Heptane	0.70	Not Detected	2.8	Not Detected
Trichloroethene	0.70	Not Detected	3.7	Not Detected
1,2-Dichloropropane	0.70	Not Detected	3.2	Not Detected
1,4-Dioxane	2.8	Not Detected	10	Not Detected
Bromodichloromethane	0.70	Not Detected	4.6	Not Detected
cis-1,3-Dichloropropene	0.70	Not Detected	3.2	Not Detected
4-Methyl-2-pentanone	0.70	Not Detected	2.8	Not Detected
Toluene	0.70	Not Detected	2.6	Not Detected
trans-1,3-Dichloropropene	0.70	Not Detected	3.2	Not Detected
1,1,2-Trichloroethane	0.70	Not Detected	3.8	Not Detected

AIR TOXICS LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: Effluent

Lab ID#: 0605442A-02A

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	5053015	Date of Collection:	5/17/06
Dil. Factor:	1.39	Date of Analysis:	5/30/06 08:28 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Tetrachloroethene	0.70	Not Detected	4.7	Not Detected
2-Hexanone	2.8	Not Detected	11	Not Detected
Dibromochloromethane	0.70	Not Detected	5.9	Not Detected
1,2-Dibromoethane (EDB)	0.70	Not Detected	5.3	Not Detected
Chlorobenzene	0.70	Not Detected	3.2	Not Detected
Ethyl Benzene	0.70	Not Detected	3.0	Not Detected
m,p-Xylene	0.70	Not Detected	3.0	Not Detected
o-Xylene	0.70	Not Detected	3.0	Not Detected
Styrene	0.70	Not Detected	3.0	Not Detected
Bromoform	0.70	Not Detected	7.2	Not Detected
Cumene	0.70	Not Detected	3.4	Not Detected
1,1,2,2-Tetrachloroethane	0.70	Not Detected	4.8	Not Detected
Propylbenzene	0.70	Not Detected	3.4	Not Detected
4-Ethyltoluene	0.70	Not Detected	3.4	Not Detected
1,3,5-Trimethylbenzene	0.70	Not Detected	3.4	Not Detected
1,2,4-Trimethylbenzene	0.70	Not Detected	3.4	Not Detected
1,3-Dichlorobenzene	0.70	Not Detected	4.2	Not Detected
1,4-Dichlorobenzene	0.70	Not Detected	4.2	Not Detected
alpha-Chlorotoluene	0.70	Not Detected	3.6	Not Detected
1,2-Dichlorobenzene	0.70	Not Detected	4 2	Not Detected
1,2,4-Trichlorobenzene	2.8	Not Detected	21	Not Detected
Hexachlorobutadiene	2.8	Not Detected	30	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	79	70-130
Toluene-d8	97	70-130
4-Bromofluorobenzene	88	70-130

AIR TOXICS LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: Influent

Lab ID#: 0605442B-01A

MODIFIED EPA METHOD TO-3 GC/FID

File Name:	d052805	Date of Collection:	5/17/06
Dil. Factor:	6.80	Date of Analysis:	5/28/06 11:13 AM

Compound	Rpt. Limit (ppmv)	Rpt. Limit (uG/L)	Amount (ppmv)	Amount (uG/L)
TPH (C5+ Hydrocarbons) ref. to Gasoline	0.17	0.70	71	290

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Fluorobenzene (FID)	141	75-150

AIR TOXICS LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: Effluent

Lab ID#: 0605442B-02A

MODIFIED EPA METHOD TO-3 GC/FID

File Name:	d052806	Date of Collection:	5/17/06
Dil. Factor:	1.39	Date of Analysis:	5/28/06 11:57 AM

Compound	Rpt. Limit (ppmv)	Rpt. Limit (uG/L)	Amount (ppmv)	Amount (uG/L)
TPH (C5+ Hydrocarbons) ref. to Gasoline	0.035	0.14	0.042	0.17

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Fluorobenzene (FID)	107	75-150

APPENDIX D
ANALYTICAL SUMMARY TABLES FOR SYSTEM WATER SAMPLES AND LABORATORY ANALYTICAL DATA

APPENDIX D
NWS-EARLE
BIOSLURPER UNIT #1 AND #2
TPH EXTRACTED VIA GROUNDWATER TREATMENT
MARCH 2006

BIOSLURPER UNIT 1

TPH INFLUENT* (mg/L):	49.5	
TPH EFFLUENT* (mg/L):	0	
GALLONS GROUNDWATER TREATED:	12,963	
* as per analytical average if more than one sample	**3/14/2006**	
	5.36	=POUNDS OF TPH

BIOSLURPER UNIT 2

TPH INFLUENT* (mg/L):		
TPH EFFLUENT* (mg/L):		
GALLONS GROUNDWATER TREATED:	0	
* as per analytical average if more than one sample	**Mar 2006 - Deactivated**	
	0.00	=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)

APPENDIX D
NWS-EARLE
BIOSLURPER UNIT #1 AND #2
TPH EXTRACTED VIA GROUNDWATER TREATMENT
APRIL 2006

BIOSLURPER UNIT 1

TPH INFLUENT* (mg/L):	60	
TPH EFFLUENT* (mg/L):	0	
GALLONS GROUNDWATER TREATED:	2,364	
* as per analytical average if more than one sample	**4/12/2006**	
	1.18	=POUNDS OF TPH

BIOSLURPER UNIT 2

TPH INFLUENT* (mg/L):		
TPH EFFLUENT* (mg/L):		
GALLONS GROUNDWATER TREATED:	0	
* as per analytical average if more than one sample	**Apr 2006 - Deactivated**	
	0.00	=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)

APPENDIX D
NWS-EARLE
BIOSLURPER UNIT #1 AND #2
TPH EXTRACTED VIA GROUNDWATER TREATMENT
MAY 2006

BIOSLURPER UNIT 1

TPH INFLUENT* (mg/L):	31.8	
TPH EFFLUENT* (mg/L):	0	
GALLONS GROUNDWATER TREATED:	11,814	
* as per analytical average if more than one sample	**5/17/2006**	
	3.14	=POUNDS OF TPH

BIOSLURPER UNIT 2

TPH INFLUENT* (mg/L):		
TPH EFFLUENT* (mg/L):		
GALLONS GROUNDWATER TREATED:	0	
* as per analytical average if more than one sample	**May 2006 - Deactivated**	
	0.00	=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)

0642

STL Edison

STL EDISON

777 New Durham Road
Edison, New Jersey 08817
Phone: (732) 549-3900 Fax: (732) 549-3679

CHAIN OF CUSTODY / ANALYSIS REQUEST

PAGE ____ OF ____

Name (for report and invoice): Rich Evans	Sampler's Name (Printed): Keith Pebler	Site/Project Identification: NWS Earle Colts Neck N.J.
Company: ECOR Solutions	P.O. #: NO 100 171	State (Location of Site): NJ: ☑ NY: ☐ Other:
Address: 1075 Andrew Dr. Suite I	Analysis Turnaround Time: Standard ☑	Regulatory Program:
City: Westchester State: P.A. Zip: 19383	Rush Charges Authorized For: 1 Week ☐ 3 Day ☐ Other ☐	
Phone: (610) 431 8731 Fax: (610) 431 2852		

ANALYSIS REQUESTED (ENTER "X" BELOW TO INDICATE REQUEST)

LAB USE ONLY
Project No.
Job No. 0642

Sample Identification	Date	Time	Matrix	No. of Cont.	TPH 418-1	Sample Numbers
In Effluent	3/14		W	1	1	715830
After 2 Clay	3/14		W	1	1	831
GAC 1 Effluent	3/14		W	1	1	832
Final Effluent	3/14		W	1	1	833

Preservation Used: 1 = ICE, 2 = HCl, 3 = H_2SO_4, 4 = HNO_3, 5 = NaOH
6 = Other _____, 7 = Other _____

Soil:
Water: ✓

Special Instructions _____ Cooler Temp: 3° Water Metals Filtered (Yes/No)? _____

Relinquished by	Company	Date/Time	Received by	Company
1. Keith Pebler	ECOR Solutions	3/14/06 1845	[illegible]	ST
2.				
3.				
4.				

Laboratory Certifications: New Jersey (12028), New York (11452), Pennsylvania (68-522), Connecticut (PH-0200), Rhode Island (132).

STL-6003

Site: NAWC Earle

Lab Job No: 0642

Matrix: WATER

QA Batch: 8633

Total Petroleum Hydrocarbons (418.1)

STL Edison Sample #	Client ID	Date Sampled	Date Extracted	Date Analyzed	Dilution Factor	Analytical Result Units: mg/l
715830	Inffluent	03/14/06	03/21/06	03/21/06	2.0	49.5
715831	After_2_Clay	03/14/06	03/21/06	03/21/06	1.0	ND
715832	GAC_1_Effluent	03/14/06	03/21/06	03/21/06	1.0	ND
715833	Final_Effluent	03/14/06	03/21/06	03/21/06	1.0	ND

Quantitation Limit for Total Petroleum Hydrocarbons (418.1) is 1.0 mg/l.

Q365

CHAIN OF CUSTODY / ANALYSIS REQUEST

'77 New Durham Road
Edison, New Jersey 08817
Phone: (732) 549-3900 Fax: (732) 549-3679

PAGE ____ OF ____

Name (for report and invoice): Rich Evans	Sampler's Name (Printed): Gregg McFadden	Site/Project Identification: NWS Earle
Company: Econ Solutions Inc.	P.O. #: NO100171	State (Location of Site): NJ: ☑ NY: ☐ Other:
Address: 1075 Andrew drive	Analysis Turnaround Time: Standard ☑	Regulatory Program:
City: West Chester State: Pa. Zip: 19380	Rush Charges Authorized For: 1 Week ☐ 3 Day ☐ Other ☐	
Phone: 610-431-8731 Fax: 610-431-2852		

ANALYSIS REQUESTED (ENTER "X" BELOW TO INDICATE REQUEST)

LAB USE ONLY
Project No.
Job No. Q365

Sample Identification	Date	Time	Matrix	No. of Cont.	TPH 418-1	Sample Numbers
INFLUENT	4-12-06	1320	Aqueous	1	✓	725870
POST CLAY	↓	1331	↓	1	✓	725871
MID GAC		1338		1	✓	725872
FINAL EFFLUENT		1343		1	✓	725873
Soil:						
Water:					3	

Preservation Used: 1 = ICE, 2 = HCl, 3 = H_2SO_4, 4 = HNO_3, 5 = NaOH
6 = Other _____, 7 = Other _____

Cooler Temp: 4°C

Water Metals Filtered (Yes/No)? _____

Special Instructions _____

Relinquished by	Company	Date/Time	Received by	Company
1.	Econ	4-12-06 1448		
2.				
3.				
4.				

Laboratory Certifications: New Jersey (12028), New York (11452), Pennsylvania (68-522), Connecticut (PH-0200), Rhode Island (132).

STL-6003

STL Edison

Site: NWS EARLE

Lab Job No: Q365

Matrix: WATER

QA Batch: 8689

Total Petroleum Hydrocarbons (418.1)

STL Edison Sample #	Client ID	Date Sampled	Date Extracted	Date Analyzed	Dilution Factor	Analytical Result Units: mg/l
725870	Influent	04/12/06	04/19/06	04/19/06	2.0	60.0
725871	Post_Clay	04/12/06	04/19/06	04/19/06	1.0	ND
725872	Mid-GAC	04/12/06	04/19/06	04/19/06	1.0	ND
725873	Final_ Effluent	04/12/06	04/19/06	04/19/06	1.0	ND

Quantitation Limit for Total Petroleum Hydrocarbons (418.1) is 1.0 mg/l.

S069

STL Edison

STL EDISON

777 New Durham Road
Edison, New Jersey 08817
Phone: (732) 549-3900 Fax: (732) 549-3679

CHAIN OF CUSTODY / ANALYSIS REQUEST

PAGE ____ OF ____

Name (for report and invoice): Rich Evan	Sampler's Name (Printed): F. Mattison	Site/Project Identification: NWS Earle
Company: ECOR Solutions	P.O. #: NO.100 171	State (Location of Site): NJ: ☒ NY: ☐ Other:
		Regulatory Program:
Address: 1075 Andrew Dr. Suite 1	Analysis Turnaround Time: Standard ☐	
City: Westchester State: PA Zip: 19380	Rush Charges Authorized For: 1 Week ☐ 3 Day ☐ Other ☐	
Phone: 610-431-8731 Fax: 610-431-2852		

ANALYSIS REQUESTED (ENTER "X" BELOW TO INDICATE REQUEST): TPH 418.1

LAB USE ONLY: Project No. ____ Job No. S069

Sample Identification	Date	Time	Matrix	No. of Cont.	TPH 418.1	Sample Numbers
INFLUENT	5-17-06	1256	W	1		735974
~~GAC Effluent~~	~~5-17-06~~	~~1255~~	~~W~~	~~1~~		—
After carbon	5-17-06	1300	W	1		735975
Final Effluent	5-17-06	1305	W	1		735976
POST #2 Clay	5-17-06	1255	W	1		735977

Preservation Used: 1 = ICE, 2 = HCl, 3 = H_2SO_4, 4 = HNO_3, 5 = NaOH
6 = Other _____, 7 = Other _____

Soil:
Water:

Special Instructions _____ Cooler Temp: 6° Water Metals Filtered (Yes/No)? _____

Relinquished by	Company	Date/Time	Received by	Company
1. F. Mattison	ECOR	5-17-06 2120	[illegible]	STL
2.				
3.				
4.				

Laboratory Certifications: New Jersey (12028), New York (11452), Pennsylvania (68-522), Connecticut (PH-0200), Rhode Island (132).

STL-6003

Site: NWS Earle

Lab Job No: S069

Matrix: WATER

QA Batch: 8763

Total Petroleum Hydrocarbons (418.1)

STL Edison Sample #	Client ID	Date Sampled	Date Extracted	Date Analyzed	Dilution Factor	Analytical Result Units: mg/l
735974	Influent	05/17/06	05/24/06	05/24/06	1.0	31.8
735975	After_Carbon	05/17/06	05/24/06	05/24/06	1.0	ND
735976	Final_Effluent	05/17/06	05/24/06	05/24/06	1.0	ND
735977	Post_2Clay	05/17/06	05/24/06	05/24/06	1.0	ND

Quantitation Limit for Total Petroleum Hydrocarbons (418.1) is 1.0 mg/l.