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NWS EARLE
5090.3a

ENVIRONMENTAL CONSTRUCTION OPERATIONS & REMEDIATION

Final Bioslurper Status Report

September 2004 through November 2004

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

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Prepared For:

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1.0 INTRODUCTION

ECOR Solutions, Inc. (ECOR) is contracted by Engineering Field Activity Northeast (EFANE) 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 June to 31 August 2004 for Task Order No. 0100 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) normally operates from the following extraction wells: 16-MW-04, 16MW-13, 16MW-14, 16MW-15, 16MW-25, 16MW-26, 16MW-27 and vapor extraction wells: 16MW-22 and 16MW-23. Bioslurper Unit No. 2 (located north of Building C-50) normally operates from 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.

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 Navy conducted an investigation at Site 16F using a Site Characterization and Analysis Penetrometer System (SCAPS). SCAPS is a field screening technique, which detects

utilized to demonstrate compliance and calculate mass removal for September 2004. Analytical results indicate that no permitted limits were exceeded. The missed vapor samples were reported to the NJDEP (Dr. Negib Harfouche) on 22 October 2004. ECOR communicated with Dr. Harfouche via telephone and facsimile on 27 and 28 October 2004 to provide additional information requested by Dr. Harfouche.

5.2 October 2004

Bioslurper Unit No. 1 was not operational during October 2004.

Bioslurper Unit No. 2 was operated continuously during October 2004 with the exception of a three-day period due to a failed circuit breaker. The circuit breaker was replaced, and the system was reactivated. System water and vapor samples were collected on 26 October 2004. The effluent sample indicated a TPH concentration of 11.7 milligrams per liter (mg/L) in excess of the 10 mg/L effluent guideline. However, the midfluent (between carbon vessels) sample indicated that TPH was not detected. As a result of this sampling event, the November 2004 samples were collected on 10 November 2004 and submitted for a rush turn-around time. Analytical results from the 10 November 2004 sampling event indicate that no permitted limits were exceeded (TPH was not present in the effluent). Therefore, it appears that the 26 October 2004 midfluent and effluent samples were inadvertently switched. During October 2004, Bioslurper Unit No. 2 was operated for 152 hours, recovering 36,885 gallons of groundwater. No measurable LNAPL was recovered, but LNAPL was observed in the oil/water separator emulsified with the iron fouling.

5.3 November 2004

Bioslurper Unit No. 1 was not operational during November 2004.

Bioslurper Unit No. 2 was temporarily deactivated on 10 November 2004 upon receipt of the 26 October 2004 sample analytical results which indicated a potential effluent discharge concentration above the 10 mg/L guideline (as previously discussed in **Section 5.2**). System water samples were collected on 10 November 2004 and submitted for a 72-hour turn around. The analytical data indicated that TPH was not present in the effluent, and Bioslurper Unit No. 2 was reactivated on 16 November 2004. On 17 November 2004, a high pressure condition was noted and the system was deactivated. Since deactivation of Bioslurper Unit No. 2 had been approved by the NJDEP and the system was inoperable, the unit was not operated after 17 November 2004. Previous to 17 November 2004, Bioslurper Unit No. 2 was operated for 67 hours during November 2004 and recovered 19,126 gallons of groundwater. No measurable LNAPL was recovered, but LNAPL was observed in the oil/water separator emulsified with the iron fouling. Due to the system deactivation, Bioslurper Unit No. 2 was inoperable and the November 2004 system vapor samples were not collected. No reactivation is planned.

On 18 November 2004, both systems were cleaned utilizing a vacuum truck. Bioslurper Unit No. 1 was cleaned and prepared for reactivation. Bioslurper Unit No. 2 was prepared for long-term term deactivation.

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, it appears that the systems' operations have caused LNAPL thickness and the size of the plume to remain constant or decrease over the operational history of the groundwater treatment. The LNAPL thickness isocontours are based on the corrected thickness, adjusted for LNAPL density (0.852 grams per cubic centimeter [g/cm^3] per TtFW). An increasing LNAPL thickness trend is apparent in the extraction wells likely associated with the temporary deactivation of Bioslurper Unit No. 1. This trend demonstrates a continued need for LNAPL extraction in this area. LNAPL thicknesses also increased at the easternmost extraction wells (16-MW-20 and 16-MW21). LNAPL is intermittently detected at these locations, and the presence of LNAPL will continue to be monitored at these locations.

The current product thickness data confirms that the main portion of the LNAPL plume is around and underlying the southeastern corner of former Building C-16. Building C-16 has been demolished and a grass area is now present in this area. EFANE is evaluating a plan to upgrade Bioslurper Unit No. 1 and install three additional extraction wells in the vicinity of former building C-16. The proposed upgrades would also likely include additional dissolved-phase treatment capability and utilizing the existing ability to recover LNAPL and groundwater from extraction wells currently connected to Bioslurper Unit No. 2 (an existing sub-grade piping system was installed to allow operation in this manner).

5.5 Product 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, zero gallons of LNAPL were recovered. LNAPL was observed on the oil/water separators, but the volume was not measurable due to emulsification and the degree of fouling present.

To improve LNAPL recovery, the drop tubes at active recovery wells were lowered to the LNAPL/water interface as recommended at the 25 June 2004 technical evaluation meeting. ECOR operated the systems in this manner for approximately four weeks. During this time, increased fouling in the system was observed. The oil/water separators filled with fouling material, the bag filters required more frequent replacement, and the primary clay vessels became clogged. The LNAPL recovery rate did not appear to increase during this time. A sheen of LNAPL was observed but was emulsified with the fouling material. Therefore, the drop tubes were raised above the LNAPL interface.

During the temporary deactivation of Bioslurper Unit No. 1, LNAPL levels have recharged in the extraction well network. It is anticipated that reactivation of Bioslurper Unit. No. 1 will result in increased LNAPL recover over the previous months of extraction due to this period of recharge.

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, both bioslurper units are operating within the permit requirements established for air discharge.

As noted previously, system samples were inadvertently not collected during September 2004, and two sampling events were conducted in October 2004 to demonstration compliance. Vapor samples were not collected from Bioslurper Unit No. 2 during November 2004 because the system was inoperable during the planned vapor sampling event and reactivation is not planned for the system. Bioslurper Unit No. 1 was not operating during the reporting period.

During the reporting period, no vapor-phase TPH were recovered at Bioslurper Unit No. 1, and 0.15 pounds of vapor-phase TPH were recovered at Bioslurper Unit No. 2.

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

The groundwater influent, midfluent (between carbon vessels), and effluent from the Bioslurper Units are sampled on a monthly 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, 57.01 pounds of dissolved-phase were recovered via groundwater extraction at Bioslurper Unit No. 2.

Bioslurper Unit No. 1 was not operated during the reporting period. Bioslurper Unit No. 1 was briefly activated on 9 September 2004 (less than one hour) to obtain an effluent sample because

the sample collected on 18 August 2004 exceeded the effluent guideline. The 9 September 2004 effluent sample demonstrated permit compliance. Bioslurper Unit No. 2 effluent samples demonstrated permit compliance. As discussed in **Section 5.2**, ECOR assumes that system midfluent and effluent water samples were inadvertently mislabeled during the 26 October 2004 sampling event. As indicated in **Table 4** and **Appendix D**, the influent TPH concentration increased from 3.2 mg/L on 12 October 2004 to 143 mg/L on 26 October 2004.

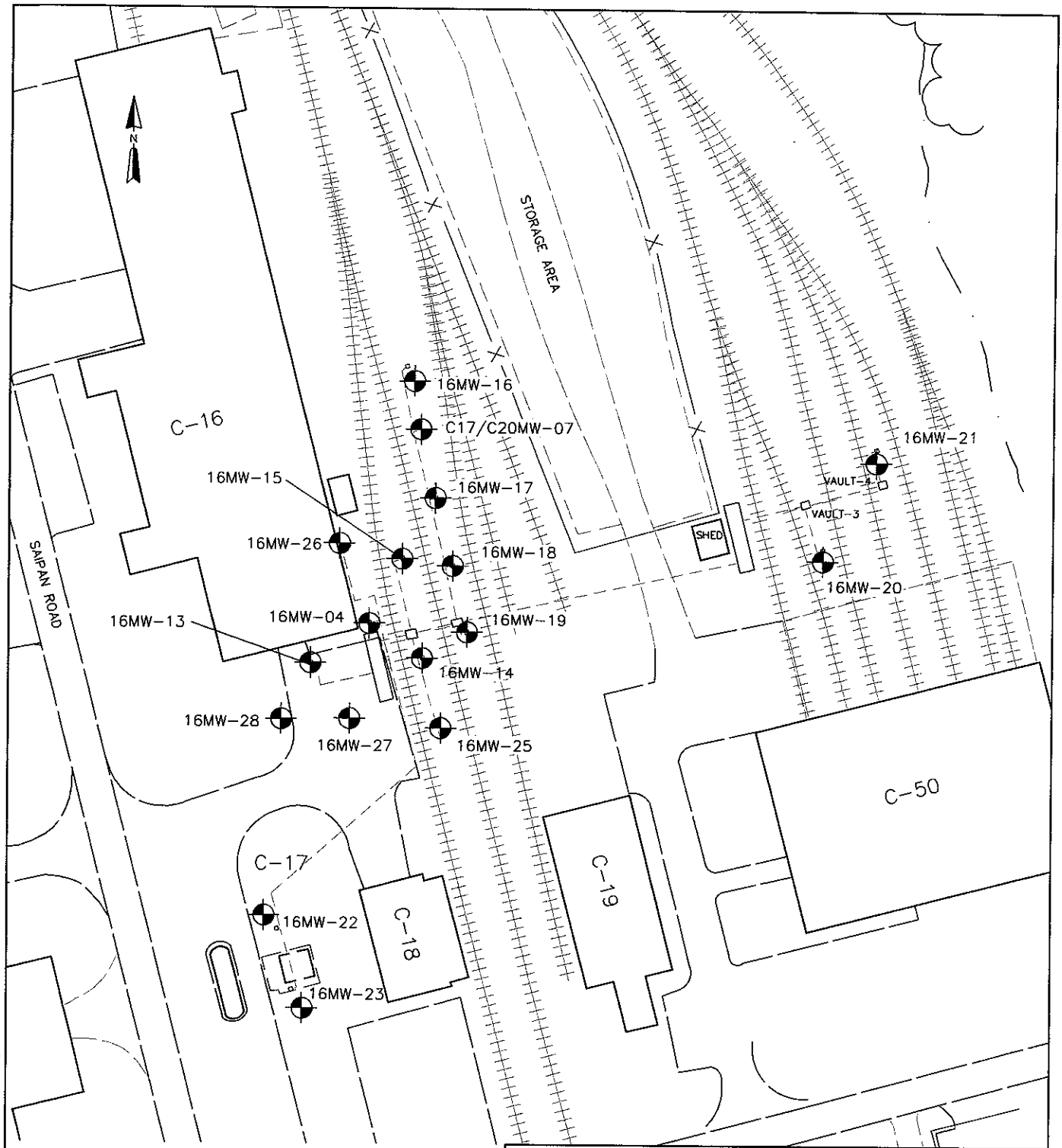
7.0 CONCLUSIONS

Bioslurper Unit No. 1 experienced significant down time due to system fouling and equipment malfunctions during the reporting period. Bioslurper Unit No. 2 was operated nearly continuously until a high pressure condition was observed on 17 November 2004. At that time, Bioslurper Unit No. 2 was deactivated under the NJDEP approval. LNAPL thickness have generally increased in extraction wells associated with Bioslurper Unit No.1 while the unit is off-line. The temporary deactivation of Bioslurper Unit No. 1 will permit recharge of LNAPL present in the subsurface. Upon reactivation, increased LNAPL recovery is initially anticipated. During operation in 2004, LNAPL levels have demonstrated a decreasing trend during system operation, and vapor- and dissolved-phase TPH concentrations generally increase.

To improve LNAPL recovery in the short-term, ECOR plans to maintain up to four clay vessels and the two existing liquid-phase granular activated carbon vessels in Bioslurper Unit No. 1 for recovered groundwater treatment. TPH concentrations have fluctuated significantly at Bioslurper Unit No.1 during 2004 (98.6 mg/L in March 2004 to 576 mg/L in February 2004). The concentration variations result in less predictable liquid-phase media use rates. Increasing the amount of liquid-phase treatment installed will extend the period between media changeouts and provide additional ability to predict breakthrough of the media. This modification to Bioslurper Unit No. 1 is planned for completion during January 2005. Bioslurper Unit No. 2 will remain deactivated, and equipment will be utilized at Bioslurper Unit No. 1 as needed.

EFANE is evaluating a plan to modify the LNAPL recovery program. The proposed plan includes the installation of three additional extraction wells in the vicinity of former building C-16. This area was not previously explored due to the location of the building, which was demolished subsequent to the installation of the Biosluper Units. Additionally, existing sub-surface piping was reportedly designed to permit extraction of total fluids from extraction wells by either Bioslurper Unit. This would allow the recovery of LNAPL and groundwater from extraction wells along the railroad tracks (16MW-16 through 16MW-19 and C17/C20MW-07) utilizing Bioslurper Unit No. 1 instead of Bioslurper Unit No. 2. This will increase the number of extraction wells available for LNAPL recovery from Bioslurper Unit No. 1. Although only a limited number of extraction wells can be utilized at any given time (approximately four), this modification would increase the ability to switch between extraction locations as LNAPL thicknesses vary. Additionally, it is likely that additional liquid-phase treatment capacity (clay and carbon media) would be added in the future if the plan is implemented.

FIGURES



LEGEND

MONITORING WELL LOCATION

SOURCE: TETRATECH FOSTER WHEELER

SITE MAP		
U.S. NAVY NWS- EARLE COLTS NECK, NJ		
ECOR Solutions 508 Brandywine Parkway, West Chester, PA 19380		
SCALE IN FEET 0 80	DATE 12-12-04	FIGURE 2-1

ECOR Solutions, Inc.

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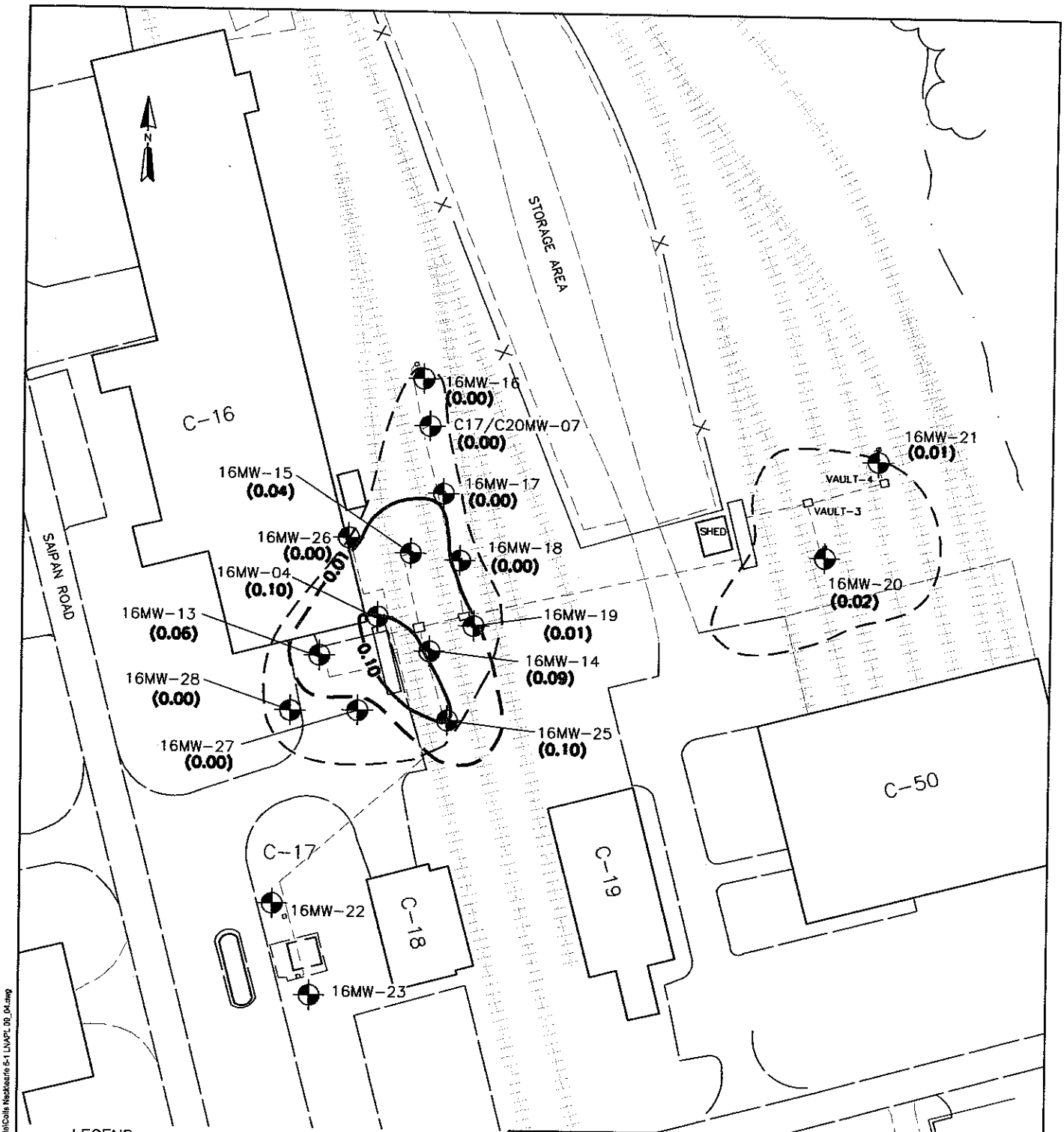


LEGEND

16MW-16 — MONITORING WELL LOCATION

(0.09) — LNAPL THICKNESS (ft)

LNAPL THICKNESS ISOCONTOUR (ft)

INFERRED ISOCONTOUR (ft)

LNAPL PLUME BOUNDARY BASED ON FORMER SCAPS STUDY

SOURCE: TETRATECH FOSTER WHEELER

LNAPL THICKNESS ISOCONTOUR MAP
1 SEPTEMBER 2004

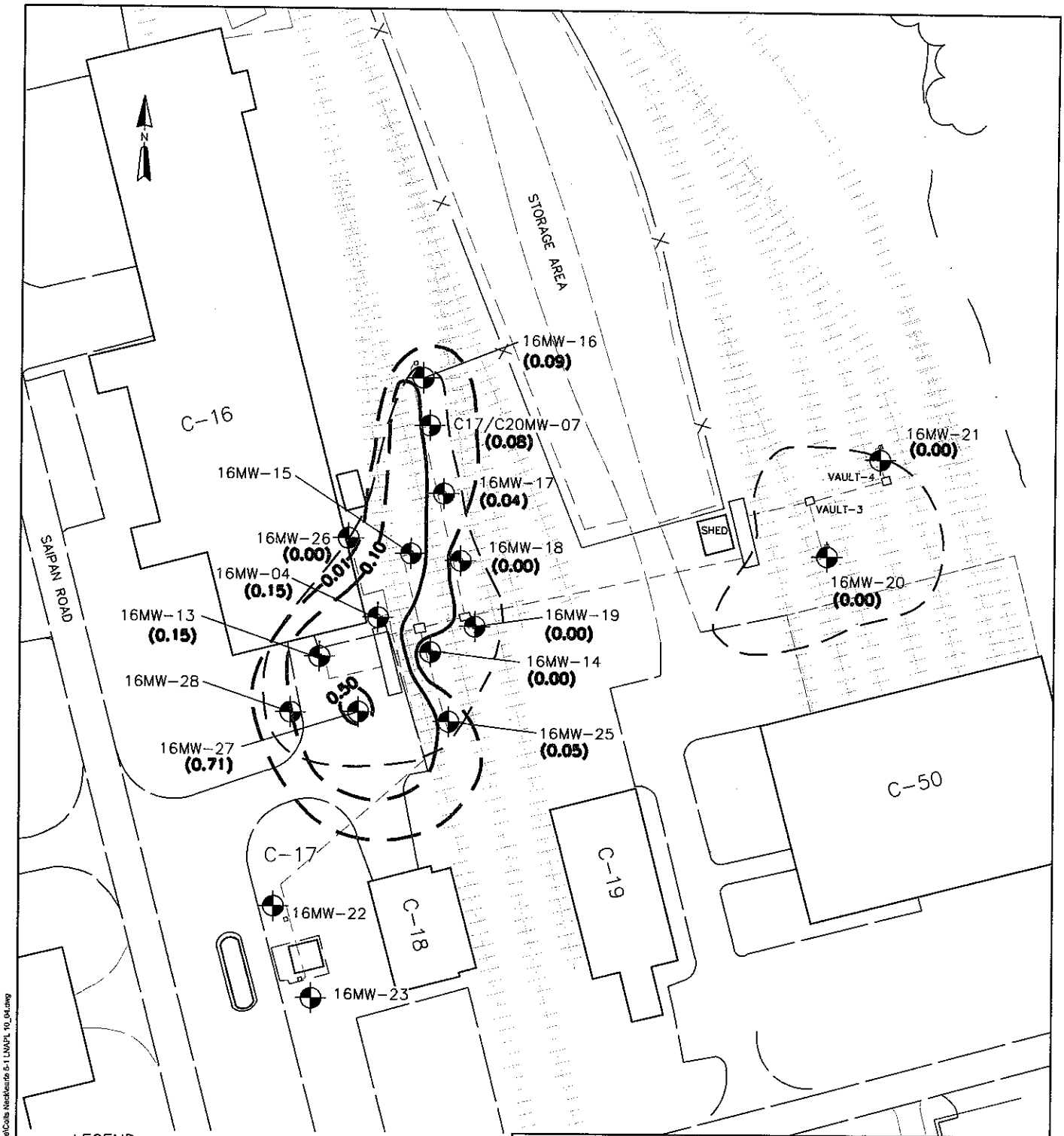
U.S. NAVY
NWS- EARLE
COLTS NECK, NJ

ECOR Solutions, Inc.
508 Brandywine Parkway, West Chester, PA 19380

SCALE IN FEET	DATE	FIGURE
0 — 80	12-12-04	5-1

ECOR Solutions, Inc.

C:\Documents and Settings\All Users\Documents\CADD\ECOR\NWS Earle\Colts Neck\earle 5-1 LNAPL 09_04.dwg



LEGEND

16MW-16 — MONITORING WELL LOCATION

(0.71) — LNAPL THICKNESS (ft)

LNAPL THICKNESS ISOCONTOUR (ft)

INFERRED ISOCONTOUR (ft)

LNAPL PLUME BOUNDARY BASED ON FORMER SCAPS STUDY

SOURCE: TETRATECH FOSTER WHEELER

LNAPL THICKNESS ISOCONTOUR MAP
19 OCTOBER 2004

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

ECOR Solutions, Inc.
508 Brandywine Parkway, West Chester, PA 19380

SCALE IN FEET	DATE	FIGURE
0 — 80	12-12-04	5-2

ECOR Solutions, Inc.

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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	7.85	3.6	22.5	25.7	10	8.9	8.9	16.76	0	ND	160.2
Bioslurper System #2	0.5	0.5	2.75	0	2.62	0	4	5.7	4.19	5.24	0	0	25.5
Total	51.3	5.7	10.6	3.6	25.12	25.7	14	14.6	13.09	22	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		38.6
Bioslurper System #2	0	4.19	4.2	2	1	0	0	0	0	0	0		11.4
Total	0	17.79	14.2	11.5	6.5	0	0	0	0	0	0		50.0

ND - no data due to system not in operation

Total LNAPL extracted to date (g): 4879.2

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		2675	26,169	23898	12799	ND	ND	16498	34612	29974	20503	40611	207739
Bioslurper System #2		5282	20,586	22607	6584	ND	ND	13537	14451	27850	16196	9141	136234
Total		7957	46755	46505	19383			30035	49063	57824	36699	49752	343973
	1999 Groundwater Extracted (gallons)												**Year**
	Jan.	Feb.	March	April	May	June	July	August	Sep.	Oct.	Nov.	Dec.	Total
Bioslurper System #1	35078	6536	49834	40889	ND	ND	ND	7321	ND	ND	ND	ND	139658
Bioslurper System #2	8843	536	12956		ND	ND	ND		ND	ND	ND	ND	22335
Total	43921	7072	62790	40889	ND	ND	ND	7321	ND	ND	ND	ND	161993
	2000 Groundwater Extracted (gallons)												**Year**
	Jan.	Feb.	March	April	May	June	July	August	Sep.	Oct.	Nov.	Dec.	Total
Bioslurper System #1	3393	4618	9842	10945	2764	14112	19758	23298	36900	31669	27785	30231	215315
Bioslurper System #2	ND	ND	ND	ND	ND	2976	5549	17704	21156	21588	ND	20848	89821
Total	3393	4618	9842	10945	2764	17088	25307	41002	58056	53257	27785	51079	305136
	2001 Groundwater Extracted (gallons)												**Year**
	Jan.	Feb.	March	April	May	June	July	August	Sep.	Oct.	Nov.	Dec.	Total
Bioslurper System #1	25897	30981	33832	ND	ND	ND	2812	12136	7669	1665	4635	3080	122707
Bioslurper System #2	ND	15852	19914	ND	ND	ND			2967	6814	1277	345	47169
Total	25897	46833	53746	ND	ND	ND	2812	12136	10636	8479	5912	3425	169876
	2002 Groundwater Extracted (gallons)												**Year**
	Jan.	Feb.	March	April	May	June	July	August	Sep.	Oct.	Nov.	Dec.	Total
Bioslurper System #1	13137	9292	16151	12749	24926	19641	24875	31129	10390	19562	4854	7694	194400
Bioslurper System #2	1095	1224	5726	7639	7727	6464	5362	5977	289	0	4771	4772	51046
Total	14232	10516	21877	20388	32653	26105	30237	37106	10679	19562	9625	12466	245446
	2003 Groundwater Extracted (gallons)												**Year**
	Jan.	Feb.	March	April	May	June	July	August	Sep.	Oct.	Nov.	Dec.	Total
Bioslurper System #1	22799	28656	14682	18084	20199	28439	15990	25071	13448	13615	1984	0	202967
Bioslurper System #2	10546	1614	6325	14649	4303	6546	4930	4938	2924	1190	1103	480	59548
Total	33345	30270	21007	32733	24502	34985	20920	30009	16372	14805	3087	480	262515
	2004 Groundwater Extracted (gallons)												**Year**
	Jan.	Feb.	March	April	May	June	July	August	Sep.	Oct.	Nov.	Dec.	Total
Bioslurper System #1	3648	5235	20986	9573	30020	31821	38634	44162	0	0	0		184079
Bioslurper System #2	3954	5692	7370	35264	33154	34911	20298	23613	26708	36885	19126		246975
Total	7602	10927	28356	44837	63174	66732	58932	67775	26708	36885	19126		431054

Total Groundwater Extracted to Date = 1,919,993

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	ND	ND	47.30	ND	175.99	179.16	192.96	1223.28
Bioslurper System #2		4.25	14.17	32.40	9.61	ND	ND	ND	13.99	2.37	4.26	11.48	92.53
Total		65.00	139.31	338.82	145.17	ND	ND	47.30	13.99	178.36	183.42	204.44	1315.81
	1999 TPH Removed via Groundwater Treatment (pounds)												Year
	Jan.	Feb.	March	April	May	June	July	August	Sep.	Oct.	Nov.	Dec.	Total
Bioslurper System #1	60.48	56.18	394.28	285.29	ND	ND	ND	ND	ND	ND	0.29	ND	796.52
Bioslurper System #2	3.84	0.21	29.30	15.20	ND	ND	ND	ND	ND	ND	0.01	ND	48.56
Total	64.32	56.39	423.58	300.49	ND	ND	ND	ND	ND	ND	0.30	ND	845.08
	2000 TPH Removed via Groundwater Treatment (pounds)												Year
	Jan.	Feb.	March	April	May	June	July	August	Sep.	Oct.	Nov.	Dec.	Total
Bioslurper System #1	8.58	ND	17.20	30.99	ND	31.80	18.14	ND	95.47	160.86	92.04	327.49	782.56
Bioslurper System #2	0.01	ND	ND	ND	ND	0.11	0.40	ND	2.63	37.55	ND	21.71	62.40
Total	8.59	ND	17.20	30.99	ND	31.91	18.53	ND	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	ND	ND	ND	0.07	52.80	2.61	2.25	2.97	10.82	201.42
Bioslurper System #2	ND	8.59	59.43	ND	ND	ND	ND	ND	1.12	3.73	0.13	0.01	73.01
Total	34.31	53.63	109.97				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	ND	ND	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		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		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		388.81

Pounds of TPH Removed via Groundwater Treatment to Date = 5105.83

ND - no data due to system not inoperation

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

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

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

Effluent Sample Date	Unit No. 1		Unit No. 2	
	Before Clay/Carbon	After Clay/Carbon	Before Clay/Carbon	After Clay/Carbon
02/29/00	<0.5	<0.5	NA	NA
04/04/00	210	0.57	NA	NA
04/28/00	16(A)EW00W5	16(A)EW00W6		
	340	0.68	NA	NA
06/19/00	270	<1.0	4.4	<1.0
07/21/00	16(A)EW00W10	16(A)EW00W09	16(B)EW00W05	16(B)EW00W06
	110	<1.0	8.7	<1.0
09/07/00	16(A)EW11	16(A)EW12	16(B)EW07	16(B)EW08
	310	5.1	18	3.1
10/30/00	16(A)EW13	16(A)EW14	16(B)EW09	16(B)EW10
	610	1.4	210	1.6
11/30/00	16(A)EW15	16(A)EW16	16(B)EW11	16(B)EW12
	400	3.1	220	2
12/28/00	16(A)EW17	16(A)EW18	16(B)EW13	16(B)EW14
	1300	2.4	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

Notes:
All units are mg/L.
The NWS-Earle Sewer Treatment Plant NJPDES Permit Discharge Limit for TPH is 10 ppm.
ND - not detected above laboratory detection limit
NA - not available (no sample collected)

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

Effluent Sample Date	Unit No. 1		Unit No. 2	
	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

Notes:
All units are mg/L.
The NWS-Earle Sewer Treatment Plant NJPDES Permit Discharge Limit for TPH is 10 ppm.
ND - not detected above laboratory detection limit
NA - not available (no sample collected)

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

Effluent Sample Date	Unit No. 1		Unit No. 2	
	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

NOTES

(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.

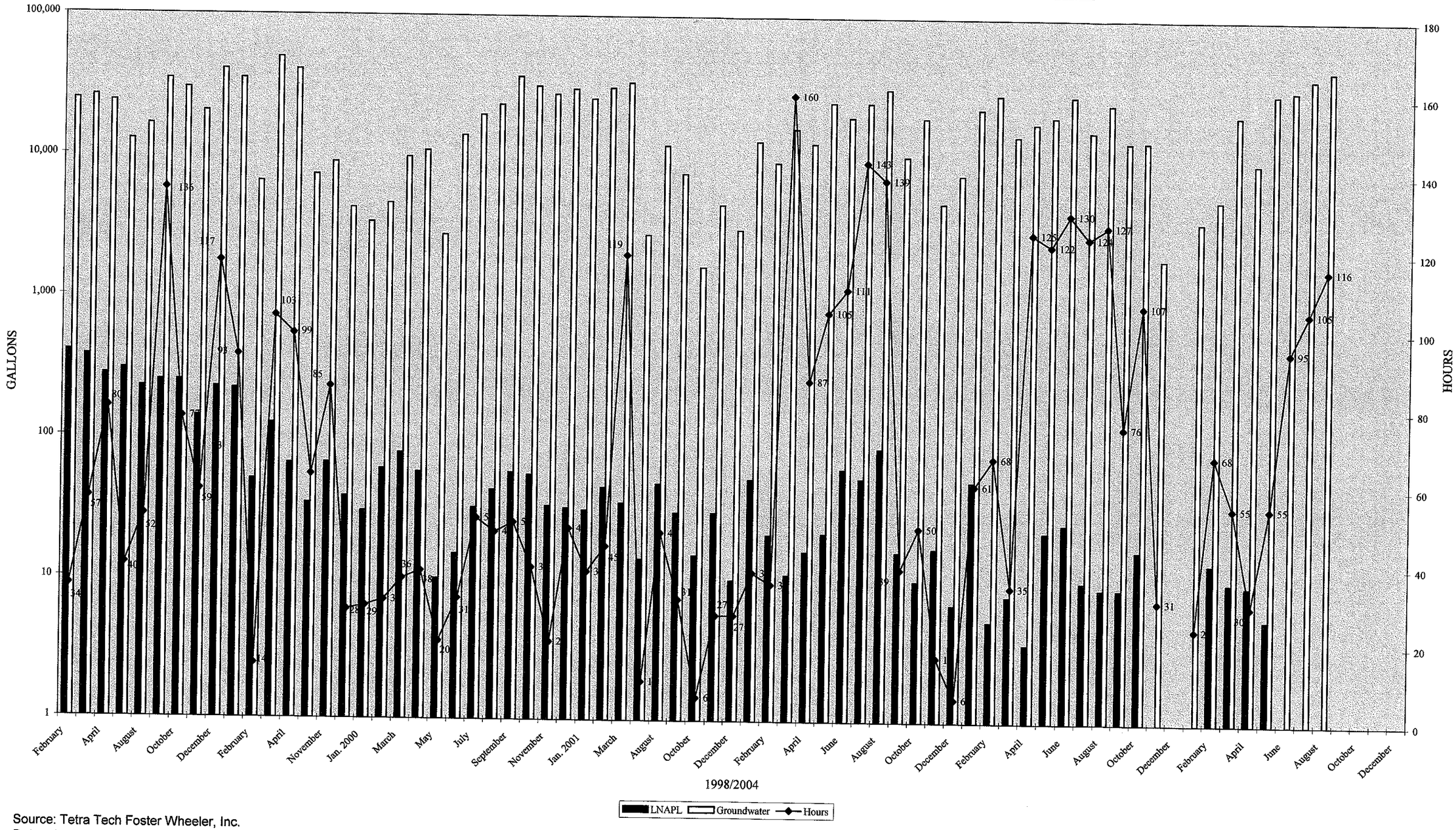
(3) System samples were inadvertently not collected during September 2004. Two sampling events were conducted in October 2004. The 12 October 2004 sampling data is presented for September 2004.

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

Notes:
All units are mg/L.
The NWS-Earle Sewer Treatment Plant NJPDES Permit Discharge Limit for TPH is 10 ppm.
ND - not detected above laboratory detection limit
NA - not available (no sample collected)

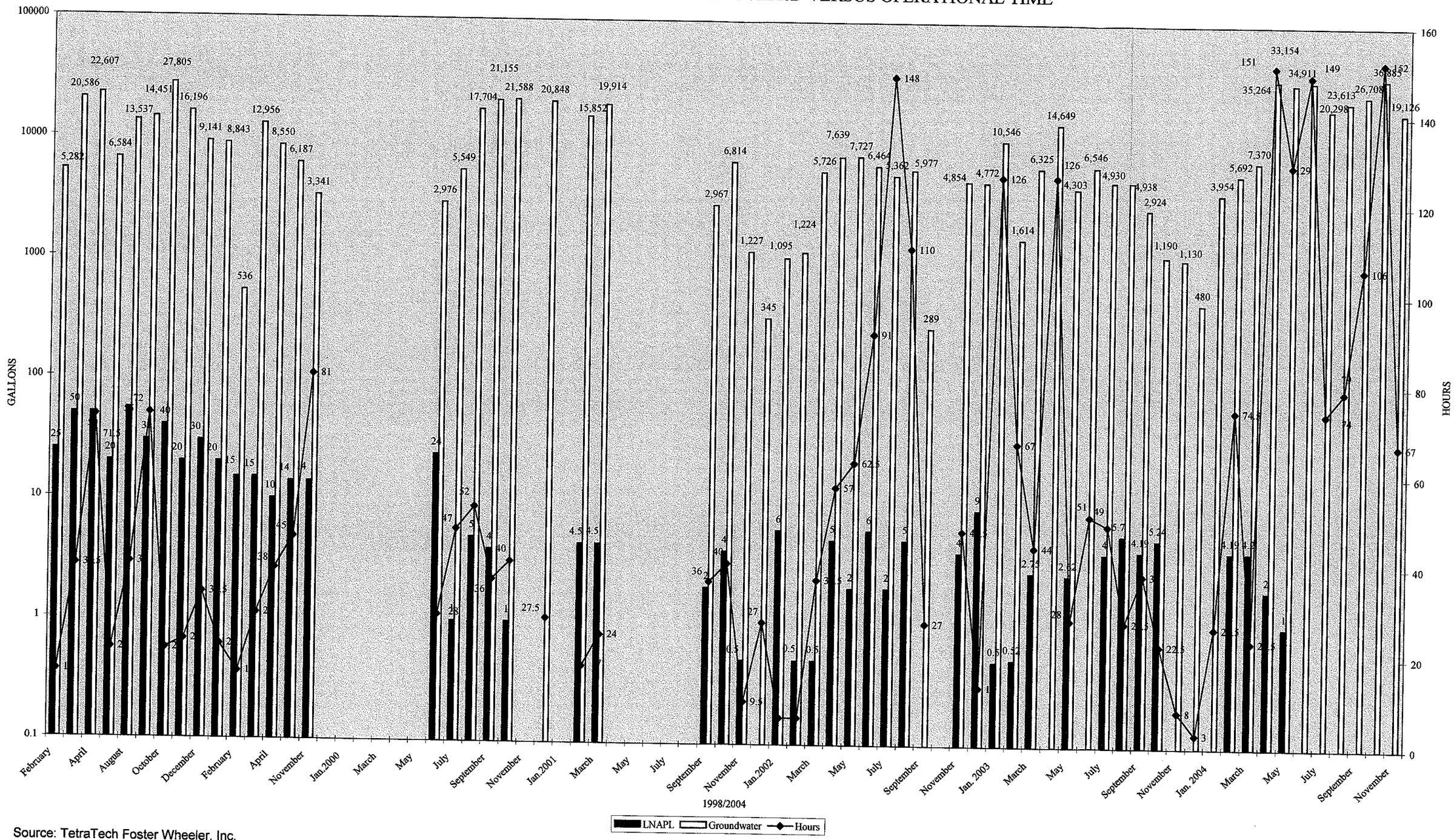
APPENDIX A
GRAPHS OF LNAPL/WATER EXTRACTED TO DATE

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	8/20/97	101.23	13.65	87.58	14.23	0.58	88.07
16MW-04	12/12/97	101.23	11.55	89.68	12.34	0.79	90.35
16MW-04	1/7/98	101.23	11.85	89.38	12.89	1.04	90.26
16MW-04	1/15/98	101.23	9.49	91.74	9.87	0.38	92.06
16MW-04	2/10/98	101.23	10.78	90.45	11.72	0.94	91.25
16MW-04	2/24/98	101.23	8.78	92.45	9.35	0.57	92.93
16MW-04	3/3/98	101.23	10.45	90.78	11.45	1.00	91.63
16MW-04	3/12/98	101.23	9.62	91.61	10.51	0.89	92.36
16MW-04	3/13/98	101.23	9.15	92.08	9.87	0.72	92.69
16MW-04	3/26/98	101.23	6.76	94.47	7.60	0.84	95.19
16MW-04	4/3/98	101.23	8.40	92.83	8.85	0.45	93.21
16MW-04	4/9/98	101.23	6.90	94.33	6.91	0.01	94.34
16MW-04	4/17/98	101.23	7.06	94.17	7.10	0.04	94.20
16MW-04	4/24/98	101.23	0.00	101.23	-	0.00	101.23
16MW-04	5/5/98	101.23	8.40	92.83	8.89	0.49	93.25
16MW-04	5/15/98	101.23	8.20	93.03	8.85	0.65	93.59
16MW-04	7/30/98	101.23	10.15	91.08	10.77	0.62	91.61
16MW-04	8/7/98	101.23	9.17	92.06	9.44	0.27	92.29
16MW-04	8/13/98	101.23	8.50	92.73	8.52	0.02	92.75
16MW-04	8/21/98	101.23	9.20	92.03	9.39	0.19	92.19
16MW-04	9/3/98	101.23	9.44	91.79	9.67	0.23	91.99
16MW-04	9/10/98	101.23	9.57	91.66	9.81	0.24	91.86
16MW-04	10/2/98	101.23	9.65	91.58	9.88	0.23	91.78
16MW-04	10/20/98	101.23	9.85	91.38	10.11	0.26	91.60
16MW-04	11/6/98	101.23	9.66	91.57	9.82	0.16	91.71
16MW-04	12/3/98	101.23	9.93	91.30	10.17	0.24	91.50
16MW-04	12/30/98	101.23	9.40	91.83	9.48	0.08	91.90
16MW-04	1/26/99	101.23	8.26	92.97	8.33	0.07	93.03
16MW-04	2/10/99	101.23	8.92	92.31	9.11	0.19	92.47
16MW-04	3/3/99	101.23	8.49	92.74	8.55	0.06	92.79
16MW-04	3/9/99	101.23	8.28	92.95	8.30	0.02	92.97
16MW-04	3/19/99	101.23	8.40	92.83	8.52	0.12	92.93
16MW-04	4/20/99	101.23	8.45	92.78	8.59	0.14	92.90
16MW-04	5/7/99	101.23	8.52	92.71	8.60	0.08	92.78
16MW-04	6/9/99	101.23	8.99	92.24	-	0.00	92.24
16MW-04	6/9/99	101.23	9.77	91.46	10.04	0.27	91.69
16MW-04	6/14/99	101.23	9.52	91.71	9.71	0.19	91.87
16MW-04	6/22/99	101.23	9.55	91.68	9.74	0.19	91.84
16MW-04	7/29/99	101.23	10.43	90.80	10.64	0.21	90.97
16MW-04	8/3/99	101.23	10.51	90.72	10.71	0.20	90.89
16MW-04	8/13/99	101.23	10.62	90.61	10.82	0.20	90.78
16MW-04	9/3/99	101.23	9.80	91.43	9.84	0.04	91.46
16MW-04	9/15/99	101.23	10.34	90.89	10.50	0.16	91.03
16MW-04	10/26/99	101.23	10.30	90.93	10.66	0.36	91.23
16MW-04	11/2/99	101.23	10.60	90.63	10.99	0.39	90.96
16MW-04	11/12/99	101.23	10.05	91.18	10.26	0.21	91.36
16MW-04	11/18/99	101.23	10.39	90.84	10.66	0.27	91.07
16MW-04	12/1/99	101.23	9.60	91.63	9.86	0.26	91.85
16MW-04	12/31/99	101.23	10.03	91.20	10.32	0.29	91.45

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	1/26/00	101.23	10.04	91.19	10.26	0.22	91.38
16MW-04	2/18/00	101.23	9.44	91.79	9.59	0.15	91.92
16MW-04	4/17/00	101.23	9.10	92.13	9.23	0.13	92.24
16MW-04	5/4/00	101.23	8.42	92.81	8.58	0.16	92.95
16MW-04	8/9/00	101.23	10.00	91.23	10.42	0.42	91.59
16MW-04	8/24/00	101.23	9.91	91.32	10.17	0.26	91.54
16MW-04	11/28/00	101.23	9.30	91.93	9.37	0.07	91.99
16MW-04	1/16/01	101.23	9.10	92.13	9.14	0.04	92.16
16MW-04	2/27/01	101.23	8.61	92.62	8.61	0.00	92.62
16MW-04	3/27/01	101.23	8.25	92.98	8.55	0.30	93.24
16MW-04	4/19/01	101.23	9.17	92.06	9.61	0.44	92.43
16MW-04	5/11/01	101.23	9.76	91.47	10.21	0.45	91.86
16MW-04	6/6/01	101.23	9.89	91.34	10.30	0.41	91.69
16MW-04	8/14/01	101.23	9.33	91.90	9.38	0.05	91.94
16MW-04	9/14/01	101.23	10.08	91.15	10.22	0.14	91.27
16MW-04	10/11/01	101.23	9.97	91.26	10.03	0.06	91.31
16MW-04	11/13/01	101.23	10.27	90.96	10.37	0.10	91.05
16MW-04	12/13/01	101.23	9.76	91.47	9.79	0.03	91.49
16MW-04	2/28/02	101.23	10.11	91.12	10.17	0.06	91.17
16MW-04	3/28/02	101.23	9.27	91.96	9.31	0.04	91.99
16MW-04	4/23/02	101.23	9.63	91.60	9.68	0.05	91.64
16MW-04	5/15/02	101.23	9.30	91.93	9.33	0.03	91.96
16MW-04	6/8/02	101.23	9.48	91.75	-	0.00	91.75
16MW-04	6/27/02	101.23	9.73	91.50	9.81	0.08	91.56
16MW-04	7/16/02	101.23	10.06	91.17	10.07	0.01	91.17
16MW-04	8/15/02	101.23	10.90	90.33	11.43	0.53	90.78
16MW-04	9/10/02	101.23	9.76	91.47	9.76	0.00	91.47
16MW-04	10/18/02	101.23	8.65	92.58	9.20	0.55	93.05
16MW-04	11/14/02	101.23	9.07	92.16	9.13	0.06	92.21
16MW-04	11/26/02	101.23	8.90	92.33	8.95	0.05	92.37
16MW-04	12/16/02	101.23	8.90	92.33	9.03	0.13	92.44
16MW-04	1/28/03	101.23	8.55	92.68	8.56	0.01	92.69
16MW-04	2/26/03	101.23	8.30	92.93	8.40	0.10	93.01
16MW-04	3/31/03	101.23	7.90	93.33	7.92	0.02	93.35
16MW-04	4/29/03	101.23	7.92	93.31	7.99	0.07	93.37
16MW-04	5/23/03	101.23	8.20	93.03	8.22	0.02	93.04
16MW-04	8/1/03	101.23	8.88	92.35	9.03	0.15	92.48
16MW-04	8/26/03	101.23	9.12	92.11	9.28	0.16	92.24
16MW-04	9/17/03	101.23	8.69	92.54	-	0.00	92.54
16MW-04	10/28/03	101.23	8.90	92.33	-	0.00	92.33
16MW-04	11/11/03	101.23	8.84	92.39	8.93	0.09	92.47
16MW-04	12/30/03	101.23	8.60	92.63	8.83	0.23	92.82
16MW-04	1/16/04	101.23	8.60	92.63	8.71	0.11	92.73
16MW-04	2/18/04	101.23	8.80	92.43	9.05	0.25	92.64
16MW-04	3/24/04	101.23	8.27	92.96	7.75	0.25	93.17
16MW-04	4/5/04	101.23	8.21	93.02	7.51	0.70	93.62
16MW-04	5/5/04	101.23	8.70	92.53	7.10	1.60	93.89
16MW-04	6/29/04	101.23	8.87	92.36	8.63	0.24	92.56
16MW-04	7/27/04	101.23	8.35	92.88	8.28	0.07	92.94

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	8/18/04	101.23	9.20	92.03	8.80	0.40	92.37
16MW-04	9/1/04	101.23	9.10	92.13	9.00	0.10	92.22
16MW-04	10/19/04	101.23	9.15	92.08	9.00	0.15	92.21
16MW-04	11/23/04	101.23	9.20	92.03	8.75	0.45	92.41
16MW-13	8/20/97	100.97	10.90	90.07	11.70	0.80	90.75
16MW-13	10/6/97	100.97	11.10	89.87	11.85	0.75	90.51
16MW-13	12/12/97	100.97	10.50	90.47	11.15	0.65	91.02
16MW-13	1/7/98	100.97	10.22	90.75	10.95	0.73	91.37
16MW-13	1/15/98	100.97	10.29	90.68	11.04	0.75	91.31
16MW-13	2/10/98	100.97	10.01	90.96	10.89	0.88	91.71
16MW-13	2/24/98	100.97	8.82	92.15	9.54	0.72	92.76
16MW-13	3/3/98	100.97	10.02	90.95	11.06	1.04	91.84
16MW-13	3/12/98	100.97	9.67	91.30	10.70	1.03	92.17
16MW-13	3/13/98	100.97	9.02	91.95	9.83	0.81	92.64
16MW-13	3/26/98	100.97	7.05	93.92	7.35	0.30	94.18
16MW-13	4/3/98	100.97	7.72	93.25	8.14	0.42	93.61
16MW-13	4/9/98	100.97	7.34	93.63	7.61	0.27	93.86
16MW-13	4/17/98	100.97	6.95	94.02	7.13	0.18	94.17
16MW-13	4/24/98	100.97	8.16	92.81	8.74	0.58	93.30
16MW-13	5/5/98	100.97	8.85	92.12	9.61	0.76	92.77
16MW-13	5/15/98	100.97	7.09	93.88	7.61	0.52	94.32
16MW-13	7/30/98	100.97	10.25	90.72	11.07	0.82	91.42
16MW-13	8/7/98	100.97	8.57	92.40	8.83	0.26	92.62
16MW-13	8/13/98	100.97	8.36	92.61	8.51	0.15	92.73
16MW-13	8/21/98	100.97	8.84	92.13	9.11	0.27	92.36
16MW-13	9/3/98	100.97	8.69	92.28	8.87	0.18	92.43
16MW-13	9/10/98	100.97	8.71	92.26	8.86	0.15	92.39
16MW-13	10/2/98	100.97	9.23	91.74	9.50	0.27	91.97
16MW-13	10/20/98	100.97	8.88	92.09	9.02	0.14	92.21
16MW-13	11/6/98	100.97	9.01	91.96	9.15	0.14	92.08
16MW-13	12/3/98	100.97	8.95	92.02	9.06	0.11	92.11
16MW-13	12/30/98	100.97	9.29	91.68	9.49	0.20	91.85
16MW-13	1/26/99	100.97	8.10	92.87	8.28	0.18	93.03
16MW-13	2/10/99	100.97	9.00	91.97	9.38	0.38	92.29
16MW-13	3/3/99	100.97	8.13	92.84	8.24	0.11	92.93
16MW-13	3/9/99	100.97	8.17	92.80	8.31	0.14	92.92
16MW-13	3/19/99	100.97	7.97	93.00	8.13	0.16	93.13
16MW-13	4/20/99	100.97	8.00	92.97	8.15	0.15	93.09
16MW-13	5/7/99	100.97	8.45	92.52	8.59	0.14	92.64
16MW-13	6/9/99	100.97	7.76	93.21	7.77	0.01	93.21
16MW-13	6/9/99	100.97	9.80	91.17	10.24	0.44	91.54
16MW-13	6/10/99	100.97	9.20	91.77	9.30	0.10	91.85
16MW-13	6/14/99	100.97	9.52	91.45	9.87	0.35	91.75
16MW-13	6/22/99	100.97	9.76	91.21	10.17	0.41	91.56
16MW-13	7/29/99	100.97	10.83	90.14	11.32	0.49	90.56
16MW-13	8/3/99	100.97	10.90	90.07	11.38	0.48	90.47
16MW-13	8/13/99	100.97	11.03	89.94	11.51	0.48	90.35
16MW-13	9/3/99	100.97	9.15	91.82	9.18	0.03	91.85

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	9/15/99	100.97	9.41	91.56	9.46	0.05	91.60
16MW-13	10/26/99	100.97	10.24	90.73	10.74	0.50	91.15
16MW-13	11/2/99	100.97	10.47	90.50	10.99	0.52	90.94
16MW-13	11/12/99	100.97	10.07	90.90	10.44	0.37	91.21
16MW-13	11/18/99	100.97	10.36	90.61	10.78	0.42	90.96
16MW-13	12/1/99	100.97	10.26	90.71	10.69	0.43	91.07
16MW-13	12/31/99	100.97	10.12	90.85	10.59	0.47	91.25
16MW-13	1/26/00	100.97	10.06	90.91	10.44	0.38	91.24
16MW-13	2/18/00	100.97	8.94	92.03	9.10	0.16	92.17
16MW-13	4/17/00	100.97	8.87	92.10	9.08	0.21	92.27
16MW-13	5/4/00	100.97	7.94	93.03	8.04	0.10	93.12
16MW-13	8/9/00	100.97	8.68	92.29	8.93	0.25	92.50
16MW-13	8/24/00	100.97	8.71	92.26	8.79	0.08	92.33
16MW-13	10/26/00	100.97	9.03	91.94	9.10	0.07	92.00
16MW-13	11/28/00	100.97	9.80	91.17	9.90	0.10	91.26
16MW-13	1/16/01	100.97	9.03	91.94	9.20	0.17	92.08
16MW-13	2/27/01	100.97	8.05	92.92	8.09	0.04	92.95
16MW-13	3/27/01	100.97	8.09	92.88	8.35	0.26	93.10
16MW-13	4/19/01	100.97	9.61	91.36	10.36	0.75	92.00
16MW-13	5/11/01	100.97	10.28	90.69	11.06	0.78	91.36
16MW-13	6/6/01	100.97	10.18	90.79	10.87	0.69	91.38
16MW-13	8/14/01	100.97	9.67	91.30	10.00	0.33	91.58
16MW-13	9/14/01	100.97	9.48	91.49	9.63	0.15	91.62
16MW-13	10/11/01	100.97	9.41	91.56	9.50	0.09	91.63
16MW-13	11/13/01	100.97	9.45	91.52	9.49	0.04	91.56
16MW-13	12/13/01	100.97	9.34	91.63	9.39	0.05	91.67
16MW-13	1/8/02	100.97	9.35	91.62	9.36	0.01	91.63
16MW-13	1/23/02	100.97	9.35	91.62	9.41	0.06	91.67
16MW-13	2/28/02	100.97	9.51	91.46	9.56	0.05	91.50
16MW-13	3/28/02	100.97	9.04	91.93	9.18	0.14	92.05
16MW-13	4/23/02	100.97	10.12	90.85	10.48	0.36	91.16
16MW-13	5/15/02	100.97	9.98	90.99	10.38	0.40	91.33
16MW-13	6/8/02	100.97	9.40	91.57	9.55	0.15	91.70
16MW-13	6/27/02	100.97	9.70	91.27	9.95	0.25	91.48
16MW-13	7/16/02	100.97	9.66	91.31	9.72	0.06	91.36
16MW-13	8/15/02	100.97	9.98	90.99	10.17	0.19	91.15
16MW-13	9/10/02	100.97	9.74	91.23	-	0.00	91.23
16MW-13	10/18/02	100.97	9.00	91.97	9.21	0.21	92.14
16MW-13	11/14/02	100.97	9.40	91.57	9.45	0.05	91.61
16MW-13	11/26/02	100.97	9.90	91.07	10.42	0.52	91.52
16MW-13	12/16/02	100.97	9.87	91.10	10.48	0.61	91.62
16MW-13	1/28/03	100.97	9.00	91.97	9.33	0.33	92.25
16MW-13	2/26/03	100.97	8.00	92.97	8.30	0.30	93.23
16MW-13	3/31/03	100.97	7.15	93.82	7.18	0.03	93.85
16MW-13	4/29/03	100.97	7.80	93.17	8.05	0.25	93.38
16MW-13	5/23/03	100.97	7.90	93.07	8.03	0.13	93.18
16MW-13	6/26/03	100.97	7.16	93.81	7.39	0.23	94.00
16MW-13	8/1/03	100.97	8.21	92.76	8.36	0.15	92.89
16MW-13	8/26/03	100.97	8.60	92.37	8.79	0.19	92.53

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	9/17/03	100.97	8.41	92.56	8.51	0.10	92.65
16MW-13	10/28/03	100.97	8.55	92.42	8.63	0.08	92.48
16MW-13	12/30/03	100.97	7.75	93.22	7.94	0.19	93.38
16MW-13	1/16/04	100.97	8.16	92.81	8.34	0.18	92.96
16MW-13	2/18/04	100.97	7.70	93.27	7.83	0.13	93.38
16MW-13	3/24/04	100.97	7.35	93.62	7.00	0.35	93.92
16MW-13	4/5/04	100.97	7.20	93.77	6.78	0.42	94.13
16MW-13	5/5/04	100.97	7.21	93.76	6.38	0.83	94.47
16MW-13	6/29/04	100.97	8.34	92.63	8.01	0.33	92.91
16MW-13	7/27/04	100.97	9.00	91.97	7.50	1.50	93.25
16MW-13	8/18/04	100.97	8.40	92.57	8.20	0.20	92.74
16MW-13	9/1/04	100.97	8.41	92.56	8.35	0.06	92.61
16MW-13	10/19/04	100.97	8.55	92.42	8.40	0.15	92.55
16MW-13	11/23/04	100.97	8.50	92.47	8.23	0.27	92.70
16MW-14	8/20/97	100.66	10.64	90.02	11.47	0.83	90.72
16MW-14	10/6/97	100.66	11.61	89.05	12.60	0.99	89.90
16MW-14	12/12/97	100.66	10.72	89.94	11.51	0.79	90.61
16MW-14	1/7/98	100.66	10.52	90.14	11.38	0.86	90.87
16MW-14	1/7/98	100.66	10.52	90.14	11.38	0.86	90.87
16MW-14	1/15/98	100.66	9.61	91.05	10.25	0.64	91.59
16MW-14	2/10/98	100.66	10.36	90.30	11.44	1.08	91.22
16MW-14	3/3/98	100.66	6.40	94.27	7.23	0.84	94.98
16MW-14	3/12/98	100.66	8.29	92.37	9.04	0.75	93.01
16MW-14	3/13/98	100.66	8.90	91.76	9.74	0.84	92.47
16MW-14	3/26/98	100.66	5.70	94.96	5.73	0.03	94.99
16MW-14	4/3/98	100.66	6.66	94.00	6.87	0.21	94.18
16MW-14	4/9/98	100.66	5.38	95.28	5.47	0.09	95.36
16MW-14	4/17/98	100.66	6.05	94.61	6.15	0.10	94.69
16MW-14	4/24/98	100.66	7.82	92.84	8.37	0.55	93.30
16MW-14	5/5/98	100.66	7.41	93.25	7.87	0.46	93.64
16MW-14	5/15/98	100.66	5.70	94.96	5.80	0.10	95.05
16MW-14	7/30/98	100.66	10.05	90.61	10.90	0.85	91.34
16MW-14	8/7/98	100.66	7.40	93.26	7.46	0.06	93.31
16MW-14	8/13/98	100.66	7.71	92.95	7.76	0.05	92.99
16MW-14	8/21/98	100.66	8.60	92.06	8.87	0.27	92.29
16MW-14	9/3/98	100.66	8.41	92.25	8.56	0.15	92.38
16MW-14	9/10/98	100.66	7.96	92.70	8.11	0.15	92.83
16MW-14	10/2/98	100.66	8.62	92.04	8.80	0.18	92.20
16MW-14	10/20/98	100.66	8.57	92.09	8.71	0.14	92.21
16MW-14	11/6/98	100.66	8.65	92.01	8.77	0.12	92.11
16MW-14	12/3/98	100.66	8.71	91.95	8.84	0.13	92.06
16MW-14	12/30/98	100.66	9.33	91.33	9.47	0.14	91.45
16MW-14	1/26/99	100.66	7.62	93.04	7.77	0.15	93.17
16MW-14	2/10/99	100.66	8.38	92.28	8.68	0.30	92.53
16MW-14	3/3/99	100.66	8.41	92.25	8.54	0.13	92.36
16MW-14	3/9/99	100.66	7.45	93.21	7.49	0.04	93.24
16MW-14	3/19/99	100.66	7.40	93.26	7.49	0.09	93.33
16MW-14	4/20/99	100.66	7.59	93.07	7.70	0.11	93.17

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-14	5/7/99	100.66	7.77	92.89	7.78	0.01	92.90
16MW-14	6/1/99	100.66	8.48	92.18	8.70	0.22	92.36
16MW-14	6/9/99	100.66	7.65	93.01	7.65	0.00	93.01
16MW-14	6/9/99	100.66	9.04	91.62	9.34	0.30	91.88
16MW-14	6/10/99	100.66	8.50	92.16	8.63	0.13	92.27
16MW-14	6/14/99	100.66	8.80	91.86	9.02	0.22	92.04
16MW-14	6/22/99	100.66	8.95	91.71	9.20	0.25	91.92
16MW-14	7/29/99	100.66	10.25	90.41	10.63	0.38	90.73
16MW-14	8/3/99	100.66	10.40	90.26	10.80	0.40	90.60
16MW-14	8/13/99	100.66	10.46	90.20	10.85	0.39	90.53
16MW-14	9/3/99	100.66	8.85	91.81	8.88	0.03	91.84
16MW-14	9/15/99	100.66	9.29	91.37	9.38	0.09	91.45
16MW-14	10/26/99	100.66	10.20	90.46	10.77	0.57	90.95
16MW-14	11/2/99	100.66	10.26	90.40	10.79	0.53	90.85
16MW-14	11/12/99	100.66	9.60	91.06	9.75	0.15	91.19
16MW-14	11/18/99	100.66	9.82	90.84	10.00	0.18	90.99
16MW-14	12/1/99	100.66	9.70	90.96	10.05	0.35	91.26
16MW-14	12/31/99	100.66	9.50	91.16	9.88	0.38	91.48
16MW-14	1/26/00	100.66	9.44	91.22	9.73	0.29	91.46
16MW-14	2/18/00	100.66	8.93	91.73	9.17	0.24	91.94
16MW-14	4/17/00	100.66	8.42	92.24	8.59	0.17	92.38
16MW-14	5/4/00	100.66	0.00	100.66	0.00	0.00	100.66
16MW-14	8/9/00	100.66	8.40	92.26	8.62	0.22	92.45
16MW-14	8/24/00	100.66	5.56	95.10	5.57	0.01	95.11
16MW-14	10/26/00	100.66	8.83	91.83	8.90	0.07	91.89
16MW-14	11/28/00	100.66	9.35	91.31	9.54	0.19	91.47
16MW-14	1/16/01	100.66	9.30	91.36	9.59	0.29	91.61
16MW-14	2/27/01	100.66	7.62	93.04	7.63	0.01	93.04
16MW-14	4/19/01	100.66	7.05	93.61	7.09	0.04	93.64
16MW-14	5/11/01	100.66	9.17	91.49	9.50	0.33	91.77
16MW-14	6/6/01	100.66	9.84	90.82	10.36	0.52	91.26
16MW-14	8/14/01	100.66	9.82	90.84	10.05	0.23	91.04
16MW-14	9/14/01	100.66	9.67	90.99	9.72	0.05	91.03
16MW-14	10/11/01	100.66	9.74	90.92	9.77	0.03	90.95
16MW-14	11/13/01	100.66	9.94	90.72	9.97	0.03	90.75
16MW-14	12/13/01	100.66	9.88	90.78	9.93	0.05	90.82
16MW-14	1/8/02	100.66	10.31	90.35	10.53	0.22	90.53
16MW-14	1/23/02	100.66	9.72	90.94	9.76	0.04	90.98
16MW-14	2/28/02	100.66	9.87	90.79	9.88	0.01	90.80
16MW-14	3/28/02	100.66	9.65	91.01	9.84	0.19	91.17
16MW-14	4/23/02	100.66	10.91	89.75	11.36	0.45	90.13
16MW-14	5/15/02	100.66	9.64	91.02	9.80	0.16	91.16
16MW-14	6/8/02	100.66	9.63	91.03	9.70	0.07	91.09
16MW-14	6/27/02	100.66	9.36	91.30	-	0.00	91.30
16MW-14	7/16/02	100.66	10.34	90.32	10.45	0.11	90.41
16MW-14	8/15/02	100.66	10.51	90.15	10.70	0.19	90.31
16MW-14	9/10/02	100.66	10.69	89.97	11.02	0.33	90.25
16MW-14	10/18/02	100.66	8.00	92.66	-	0.00	92.66
16MW-14	11/14/02	100.66	8.05	92.61	8.08	0.03	92.63

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-14	11/26/02	100.66	8.34	92.32	8.36	0.02	92.34
16MW-14	12/16/02	100.66	7.40	93.26	7.60	0.20	93.43
16MW-14	1/28/03	100.66	8.20	92.46	8.20	0.00	92.46
16MW-14	2/26/03	100.66	7.55	93.11	7.62	0.07	93.17
16MW-14	3/31/03	100.66	7.60	93.06	7.63	0.03	93.08
16MW-14	4/29/03	100.66	6.61	94.05	-	0.00	94.05
16MW-14	5/23/03	100.66	7.90	92.76	7.93	0.03	92.78
16MW-14	6/26/03	100.66	7.20	93.46	7.28	0.08	93.52
16MW-14	8/1/03	100.66	8.48	92.18	8.56	0.08	92.24
16MW-14	8/26/03	100.66	8.61	92.05	8.65	0.04	92.09
16MW-14	9/17/03	100.66	8.47	92.19	8.49	0.02	92.20
16MW-14	10/28/03	100.66	8.60	92.06	8.63	0.03	92.08
16MW-14	11/11/03	100.66	8.10	92.56	8.13	0.03	92.58
16MW-14	12/30/03	100.66	7.45	93.21	7.46	0.01	93.22
16MW-14	1/16/04	100.66	8.15	92.51	8.18	0.03	92.53
16MW-14	2/18/04	100.66	7.53	93.13	7.54	0.01	93.14
16MW-14	3/24/04	100.66	7.65	93.01	7.56	0.09	93.09
16MW-14	4/5/04	100.66	6.44	94.22	6.35	0.09	94.30
16MW-14	5/5/04	100.66	7.15	93.51	7.00	0.15	93.64
16MW-14	6/29/04	100.66	8.63	92.03	8.54	0.09	92.11
16MW-14	7/27/04	100.66	7.09	93.57	7.00	0.09	93.65
16MW-14	8/18/04	100.66	8.64	92.02	8.60	0.04	92.05
16MW-14	9/1/04	100.66	8.89	91.77	8.80	0.09	91.85
16MW-14	10/19/04	100.66	8.95	91.71	-	0.00	91.71
16MW-14	11/23/04	100.66	8.57	92.09	-	0.00	92.09
16MW-15	8/20/97	100.98	11.49	89.49	12.39	0.90	90.26
16MW-15	8/20/97	100.98	8.80	92.18	9.70	0.90	92.95
16MW-15	10/6/97	100.98	11.98	89.00	12.91	0.93	89.79
16MW-15	12/12/97	100.98	11.96	89.02	12.95	0.99	89.87
16MW-15	1/7/98	100.98	12.38	88.60	13.65	1.27	89.68
16MW-15	1/15/98	100.98	10.88	90.10	11.72	0.84	90.82
16MW-15	2/10/98	100.98	12.40	88.58	13.90	1.50	89.85
16MW-15	3/3/98	100.98	11.50	89.48	12.88	1.38	90.65
16MW-15	3/12/98	100.98	10.50	90.48	11.69	1.19	91.49
16MW-15	3/13/98	100.98	8.60	92.38	9.21	0.61	92.90
16MW-15	3/26/98	100.98	6.40	94.58	6.43	0.03	94.61
16MW-15	4/3/98	100.98	8.01	92.97	8.43	0.42	93.32
16MW-15	4/9/98	100.98	7.19	93.79	7.33	0.14	93.91
16MW-15	4/17/98	100.98	6.79	94.19	6.85	0.06	94.24
16MW-15	4/24/98	100.98	8.45	92.53	9.03	0.58	93.02
16MW-15	5/5/98	100.98	8.50	92.48	9.09	0.59	92.98
16MW-15	5/15/98	100.98	7.20	93.78	7.56	0.36	94.09
16MW-15	7/30/98	100.98	10.96	90.02	11.88	0.92	90.81
16MW-15	8/7/98	100.98	9.06	91.92	9.37	0.31	92.18
16MW-15	8/13/98	100.98	8.77	92.21	8.94	0.17	92.35
16MW-15	8/21/98	100.98	9.22	91.76	9.49	0.27	91.99
16MW-15	9/3/98	100.98	9.12	91.86	9.34	0.22	92.05
16MW-15	9/10/98	100.98	9.11	91.87	9.29	0.18	92.02

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	10/2/98	100.98	9.30	91.68	9.51	0.21	91.85
16MW-15	10/20/98	100.98	9.25	91.73	9.41	0.16	91.87
16MW-15	11/6/98	100.98	9.06	91.92	9.12	0.06	91.97
16MW-15	12/3/98	100.98	9.27	91.71	9.39	0.12	91.81
16MW-15	12/30/98	100.98	8.67	92.31	8.78	0.11	92.40
16MW-15	1/26/99	100.98	8.12	92.86	8.25	0.13	92.97
16MW-15	2/10/99	100.98	8.81	92.17	9.06	0.25	92.38
16MW-15	3/3/99	100.98	7.77	93.21	7.88	0.11	93.30
16MW-15	3/9/99	100.98	9.50	91.48	9.90	0.40	91.82
16MW-15	3/19/99	100.98	8.21	92.77	8.36	0.15	92.90
16MW-15	4/20/99	100.98	8.30	92.68	8.44	0.14	92.80
16MW-15	6/1/99	100.98	8.91	92.07	9.08	0.17	92.21
16MW-15	6/9/99	100.98	7.96	93.02	-	0.00	93.02
16MW-15	6/9/99	100.98	9.37	91.61	9.60	0.23	91.80
16MW-15	6/10/99	100.98	9.01	91.97	9.12	0.11	92.06
16MW-15	6/14/99	100.98	9.27	91.71	9.45	0.18	91.86
16MW-15	6/22/99	100.98	9.35	91.63	9.56	0.21	91.80
16MW-15	7/29/99	100.98	10.61	90.37	10.94	0.33	90.65
16MW-15	8/13/99	100.98	10.98	90.00	11.35	0.37	90.31
16MW-15	9/3/99	100.98	9.44	91.54	9.48	0.04	91.57
16MW-15	9/15/99	100.98	9.94	91.04	10.06	0.12	91.14
16MW-15	10/26/99	100.98	10.65	90.33	11.20	0.55	90.79
16MW-15	11/2/99	100.98	10.93	90.05	11.50	0.57	90.54
16MW-15	11/12/99	100.98	9.70	91.28	10.04	0.34	91.57
16MW-15	11/18/99	100.98	9.81	91.17	10.16	0.35	91.47
16MW-15	12/1/99	100.98	9.60	91.38	9.76	0.16	91.52
16MW-15	12/31/99	100.98	9.48	91.50	9.69	0.21	91.67
16MW-15	1/26/00	100.98	9.50	91.48	9.64	0.14	91.60
16MW-15	2/18/00	100.98	8.91	92.07	8.98	0.07	92.13
16MW-15	4/17/00	100.98	8.83	92.15	8.95	0.12	92.25
16MW-15	5/4/00	100.98	8.25	92.73	8.32	0.07	92.79
16MW-15	8/9/00	100.98	9.17	91.81	9.44	0.27	92.04
16MW-15	8/24/00	100.98	9.05	91.93	9.14	0.09	92.00
16MW-15	10/26/00	100.98	9.35	91.63	9.43	0.08	91.69
16MW-15	11/28/00	100.98	8.90	92.08	9.00	0.10	92.17
16MW-15	1/16/01	100.98	9.00	91.98	9.09	0.09	92.05
16MW-15	2/27/01	100.98	8.17	92.81	-	0.00	92.81
16MW-15	3/27/01	100.98	7.65	93.33	7.71	0.06	93.38
16MW-15	4/19/01	100.98	7.98	93.00	8.19	0.21	93.18
16MW-15	5/11/01	100.98	9.33	91.65	9.74	0.41	92.00
16MW-15	6/6/01	100.98	10.06	90.92	10.61	0.55	91.39
16MW-15	8/14/01	100.98	9.19	91.79	9.29	0.10	91.88
16MW-15	9/14/01	100.98	9.80	91.18	9.95	0.15	91.30
16MW-15	10/11/01	100.98	9.72	91.26	9.81	0.09	91.33
16MW-15	11/13/01	100.98	10.28	90.70	10.49	0.21	90.88
16MW-15	12/13/01	100.98	10.07	90.91	10.26	0.19	91.07
16MW-15	1/8/02	100.98	9.82	91.16	9.97	0.15	91.29
16MW-15	1/23/02	100.98	9.50	91.48	9.54	0.04	91.51
16MW-15	2/28/02	100.98	9.65	91.33	9.68	0.03	91.36

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	3/28/02	100.98	8.80	92.18	8.85	0.05	92.22
16MW-15	4/23/02	100.98	9.49	91.49	9.60	0.11	91.58
16MW-15	5/15/02	100.98	9.28	91.70	9.41	0.13	91.81
16MW-15	6/8/02	100.98	9.40	91.58	9.48	0.08	91.64
16MW-15	6/27/02	100.98	9.35	91.63	9.41	0.06	91.68
16MW-15	7/16/02	100.98	9.89	91.09	9.93	0.04	91.12
16MW-15	8/15/02	100.98	10.23	90.75	10.35	0.12	90.85
16MW-15	9/10/02	100.98	10.31	90.67	10.63	0.32	90.94
16MW-15	10/18/02	100.98	8.75	92.23	8.82	0.07	92.29
16MW-15	11/14/02	100.98	9.15	91.83	9.31	0.16	91.97
16MW-15	11/26/02	100.98	10.45	90.53	11.06	0.61	91.05
16MW-15	12/16/02	100.98	9.75	91.23	10.24	0.49	91.65
16MW-15	1/28/03	100.98	8.60	92.38	8.71	0.11	92.48
16MW-15	2/26/03	100.98	8.07	92.91	8.21	0.14	93.03
16MW-15	3/31/03	100.98	7.60	93.38	7.63	0.03	93.40
16MW-15	4/29/03	100.98	7.51	93.47	7.55	0.04	93.50
16MW-15	5/23/03	100.98	8.02	92.96	8.07	0.05	93.00
16MW-15	6/26/03	100.98	7.40	93.58	7.55	0.15	93.70
16MW-15	8/1/03	100.98	8.42	92.56	8.53	0.11	92.65
16MW-15	8/26/03	100.98	7.80	93.18	7.95	0.15	93.31
16MW-15	9/17/03	100.98	8.74	92.24	8.86	0.12	92.34
16MW-15	10/28/03	100.98	8.72	92.26	8.78	0.06	92.31
16MW-15	11/11/03	100.98	8.10	92.88	8.12	0.02	92.89
16MW-15	12/30/03	100.98	7.80	93.18	7.89	0.09	93.25
16MW-15	1/16/04	100.98	8.30	92.68	8.43	0.13	92.79
16MW-15	2/18/04	100.98	8.25	92.73	8.44	0.19	92.89
16MW-15	3/24/04	100.98	7.87	93.11	7.47	0.40	93.45
16MW-15	4/5/04	100.98	7.61	93.37	7.19	0.42	93.73
16MW-15	5/5/04	100.98	7.90	93.08	6.82	1.08	94.00
16MW-15	6/29/04	100.98	8.82	92.16	8.29	0.53	92.61
16MW-15	7/27/04	100.98	8.20	92.78	8.00	0.20	92.95
16MW-15	8/18/04	100.98	8.55	92.43	8.45	0.10	92.52
16MW-15	9/1/04	100.98	8.79	92.19	8.75	0.04	92.22
16MW-15	11/23/04	100.98	9.23	91.75	8.34	0.89	92.51
16MW-16	8/20/97	98.82	7.01	91.81	7.07	0.06	91.86
16MW-16	10/6/97	98.82	8.19	90.63	8.55	0.36	90.93
16MW-16	12/12/97	98.82	10.90	87.92	12.10	1.20	88.94
16MW-16	1/7/98	98.82	10.40	88.42	11.55	1.15	89.40
16MW-16	1/15/98	98.82	7.83	90.99	8.39	0.56	91.47
16MW-16	2/10/98	98.82	7.38	91.44	7.87	0.49	91.86
16MW-16	2/24/98	98.82	4.05	94.77	4.25	0.20	94.94
16MW-16	3/3/98	98.82	5.70	93.12	5.87	0.17	93.27
16MW-16	3/12/98	98.82	4.81	94.01	4.84	0.03	94.03
16MW-16	3/13/98	98.82	5.12	93.70	5.14	0.02	93.72
16MW-16	3/26/98	98.82	4.42	94.40	4.43	0.01	94.41
16MW-16	4/3/98	98.82	5.17	93.65	5.18	0.01	93.66
16MW-16	4/9/98	98.82	5.35	93.47	5.37	0.02	93.49
16MW-16	4/17/98	98.82	5.60	93.22	5.74	0.14	93.34

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-16	4/24/98	98.82	5.28	93.54	5.37	0.09	93.62
16MW-16	5/5/98	98.82	5.32	93.50	5.40	0.08	93.56
16MW-16	5/15/98	98.82	4.25	94.57	4.36	0.11	94.66
16MW-16	7/30/98	98.82	7.64	91.18	8.03	0.39	91.51
16MW-16	8/7/98	98.82	6.92	91.90	7.06	0.14	92.02
16MW-16	8/13/98	98.82	7.22	91.60	7.39	0.17	91.75
16MW-16	8/21/98	98.82	6.99	91.83	7.06	0.07	91.89
16MW-16	9/3/98	98.82	6.86	91.96	6.90	0.04	91.99
16MW-16	9/10/98	98.82	7.01	91.81	7.05	0.04	91.84
16MW-16	10/2/98	98.82	7.22	91.60	7.30	0.08	91.67
16MW-16	10/20/98	98.82	7.16	91.66	7.20	0.04	91.69
16MW-16	11/6/98	98.82	7.25	91.57	7.28	0.03	91.60
16MW-16	12/3/98	98.82	7.24	91.58	7.28	0.04	91.61
16MW-16	12/30/98	98.82	7.27	91.55	7.33	0.06	91.60
16MW-16	1/26/99	98.82	5.89	92.93	5.90	0.01	92.94
16MW-16	2/10/99	98.82	6.45	92.37	6.53	0.08	92.44
16MW-16	3/9/99	98.82	6.21	92.61	6.23	0.02	92.62
16MW-16	3/19/99	98.82	5.85	92.97	5.86	0.01	92.97
16MW-16	4/20/99	98.82	6.05	92.77	6.06	0.01	92.78
16MW-16	5/7/99	98.82	6.26	92.56	6.27	0.01	92.57
16MW-16	6/1/99	98.82	6.95	91.87	7.05	0.10	91.95
16MW-16	6/9/99	98.82	6.15	92.67	6.15	0.00	92.67
16MW-16	6/9/99	98.82	7.50	91.32	7.66	0.16	91.46
16MW-16	6/10/99	98.82	7.05	91.77	7.08	0.03	91.79
16MW-16	6/14/99	98.82	7.20	91.62	7.26	0.06	91.67
16MW-16	6/22/99	98.82	7.26	91.56	7.36	0.10	91.64
16MW-16	7/29/99	98.82	8.62	90.20	8.85	0.23	90.39
16MW-16	8/3/99	98.82	8.80	90.02	9.05	0.25	90.23
16MW-16	8/13/99	98.82	8.97	89.85	9.24	0.27	90.08
16MW-16	9/3/99	98.82	8.35	90.47	8.55	0.20	90.64
16MW-16	9/15/99	98.82	8.10	90.72	8.19	0.09	90.79
16MW-16	10/26/99	98.82	8.00	90.82	8.30	0.30	91.08
16MW-16	11/2/99	98.82	8.22	90.60	8.53	0.31	90.86
16MW-16	11/12/99	98.82	7.30	91.52	7.33	0.03	91.54
16MW-16	11/18/99	98.82	7.57	91.25	7.61	0.04	91.29
16MW-16	12/1/99	98.82	7.51	91.31	7.59	0.08	91.38
16MW-16	12/31/99	98.82	7.44	91.38	7.48	0.04	91.41
16MW-16	1/26/00	98.82	7.37	91.45	7.41	0.04	91.49
16MW-16	2/18/00	98.82	6.85	91.97	6.86	0.01	91.98
16MW-16	4/17/00	98.82	6.59	92.23	6.61	0.02	92.25
16MW-16	8/9/00	98.82	6.46	92.36	6.63	0.17	92.51
16MW-16	8/24/00	98.82	0.00	98.82	-	0.00	98.82
16MW-16	10/26/00	98.82	7.40	91.42	7.53	0.13	91.53
16MW-16	11/28/00	98.82	8.57	90.25	8.86	0.29	90.49
16MW-16	1/16/01	98.82	6.99	91.83	7.02	0.03	91.85
16MW-16	2/27/01	98.82	6.26	92.56	-	0.00	92.56
16MW-16	3/27/01	98.82	5.90	92.92	-	0.00	92.92
16MW-16	5/11/01	98.82	6.38	92.44	6.43	0.05	92.48
16MW-16	6/6/01	98.82	6.54	92.28	6.58	0.04	92.31

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-16	8/14/01	98.82	7.56	91.26	7.68	0.12	91.36
16MW-16	9/14/01	98.82	8.22	90.60	8.39	0.17	90.75
16MW-16	10/11/01	98.82	7.35	91.47	7.52	0.17	91.61
16MW-16	11/13/01	98.82	8.91	89.91	9.23	0.32	90.18
16MW-16	12/13/01	98.82	7.57	91.25	7.61	0.04	91.28
16MW-16	1/8/02	98.82	7.77	91.05	7.87	0.10	91.13
16MW-16	1/23/02	98.82	7.60	91.22	7.64	0.04	91.25
16MW-16	2/28/02	98.82	7.75	91.07	7.76	0.01	91.07
16MW-16	3/28/02	98.82	6.75	92.07	6.76	0.01	92.08
16MW-16	4/23/02	98.82	7.38	91.44	7.66	0.28	91.68
16MW-16	5/15/02	98.82	7.09	91.73	7.12	0.03	91.76
16MW-16	6/8/02	98.82	7.35	91.47	7.36	0.01	91.48
16MW-16	6/27/02	98.82	7.50	91.32	7.55	0.05	91.36
16MW-16	8/15/02	98.82	8.51	90.31	8.63	0.12	90.41
16MW-16	9/10/02	98.82	7.51	91.31	7.54	0.03	91.34
16MW-16	10/18/02	98.82	7.10	91.72	7.11	0.01	91.73
16MW-16	11/14/02	98.82	6.76	92.06	6.78	0.02	92.08
16MW-16	11/26/02	98.82	5.17	93.65	5.18	0.01	93.65
16MW-16	12/16/02	98.82	6.33	92.49	6.37	0.04	92.52
16MW-16	1/28/03	98.82	6.40	92.42	6.43	0.03	92.44
16MW-16	2/26/03	98.82	4.99	93.83	5.00	0.01	93.84
16MW-16	3/31/03	98.82	5.31	93.51	5.32	0.01	93.52
16MW-16	4/29/03	98.82	4.98	93.84	4.99	0.01	93.85
16MW-16	5/23/03	98.82	5.97	92.85	5.98	0.01	92.85
16MW-16	6/26/03	98.82	4.00	94.82	4.01	0.01	94.83
16MW-16	8/1/03	98.82	6.20	92.62	6.21	0.01	92.63
16MW-16	8/26/03	98.82	6.40	92.42	6.41	0.01	92.43
16MW-16	12/30/03	98.82	0.00	98.82	-	0.00	98.82
16MW-16	3/24/04	98.82	4.76	94.06	4.68	0.08	94.06
16MW-16	4/5/04	98.82	4.51	94.31	4.44	0.07	94.37
16MW-16	5/5/04	98.82	5.40	93.42	-	0.00	93.42
16MW-16	6/29/04	98.82	6.75	92.07	6.63	0.12	92.17
16MW-16	7/27/04	98.82	6.50	92.32	-	0.00	92.32
16MW-16	8/18/04	98.82	5.40	93.42	-	0.00	93.42
16MW-16	9/1/04	98.82	4.95	93.87	-	0.00	93.87
16MW-16	10/19/04	98.82	6.99	91.83	6.90	0.09	91.91
16MW-16	11/23/04	98.82	6.55	92.27	6.46	0.09	92.35
16MW-17	8/20/97	99.79	10.87	88.92	11.91	1.04	89.80
16MW-17	10/6/97	99.79	8.19	91.60	9.47	1.28	92.69
16MW-17	10/6/97	99.79	10.98	88.81	11.92	0.94	89.61
16MW-17	12/12/97	99.79	10.50	89.29	11.38	0.88	90.04
16MW-17	1/7/98	99.79	11.15	88.64	12.37	1.22	89.68
16MW-17	1/15/98	99.79	8.45	91.34	8.89	0.44	91.71
16MW-17	2/10/98	99.79	10.24	89.55	11.42	1.18	90.55
16MW-17	2/24/98	99.79	6.70	93.09	7.08	0.38	93.41
16MW-17	3/3/98	99.79	8.95	90.84	9.91	0.96	91.66
16MW-17	3/12/98	99.79	7.27	92.52	7.77	0.50	92.94
16MW-17	3/13/98	99.79	5.55	94.24	5.63	0.08	94.30

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-17	3/26/98	99.79	5.35	94.44	5.37	0.02	94.45
16MW-17	4/3/98	99.79	5.54	94.25	5.65	0.11	94.34
16MW-17	4/9/98	99.79	6.12	93.67	6.22	0.10	93.75
16MW-17	4/17/98	99.79	6.04	93.75	6.18	0.14	93.87
16MW-17	4/24/98	99.79	6.19	93.60	6.40	0.21	93.77
16MW-17	5/5/98	99.79	6.45	93.34	6.72	0.27	93.57
16MW-17	5/15/98	99.79	5.36	94.43	5.45	0.09	94.51
16MW-17	7/30/98	99.79	10.26	89.53	11.27	1.01	90.39
16MW-17	8/7/98	99.79	7.72	92.07	7.93	0.21	92.25
16MW-17	8/13/98	99.79	7.95	91.84	8.17	0.22	92.03
16MW-17	8/21/98	99.79	7.62	92.17	7.71	0.09	92.25
16MW-17	9/3/98	99.79	7.76	92.03	7.88	0.12	92.13
16MW-17	9/10/98	99.79	7.72	92.07	7.80	0.08	92.14
16MW-17	10/2/98	99.79	8.28	91.51	8.48	0.20	91.68
16MW-17	10/20/98	99.79	7.85	91.94	7.92	0.07	92.00
16MW-17	11/6/98	99.79	8.04	91.75	8.11	0.07	91.81
16MW-17	12/3/98	99.79	7.99	91.80	8.04	0.05	91.84
16MW-17	12/30/98	99.79	8.36	91.43	8.54	0.18	91.58
16MW-17	1/26/99	99.79	6.73	93.06	6.81	0.08	93.12
16MW-17	2/10/99	99.79	7.74	92.05	7.99	0.25	92.26
16MW-17	3/9/99	99.79	7.03	92.76	7.09	0.06	92.81
16MW-17	3/19/99	99.79	6.68	93.11	6.74	0.06	93.16
16MW-17	4/20/99	99.79	6.90	92.89	6.96	0.06	92.94
16MW-17	5/7/99	99.79	6.96	92.83	6.98	0.02	92.85
16MW-17	6/1/99	99.79	7.53	92.26	7.61	0.08	92.33
16MW-17	6/9/99	99.79	7.16	92.63	-	0.00	92.63
16MW-17	6/9/99	99.79	7.99	91.80	8.12	0.13	91.91
16MW-17	6/10/99	99.79	7.74	92.05	7.79	0.05	92.09
16MW-17	6/14/99	99.79	7.91	91.88	8.01	0.10	91.97
16MW-17	6/22/99	99.79	8.01	91.78	8.12	0.11	91.88
16MW-17	7/29/99	99.79	9.40	90.39	9.67	0.27	90.62
16MW-17	8/3/99	99.79	9.55	90.24	9.83	0.28	90.48
16MW-17	8/13/99	99.79	9.70	90.09	10.00	0.30	90.34
16MW-17	9/3/99	99.79	8.49	91.30	8.53	0.04	91.34
16MW-17	9/15/99	99.79	8.86	90.93	8.97	0.11	91.03
16MW-17	10/26/99	99.79	9.81	89.98	10.44	0.63	90.51
16MW-17	11/2/99	99.79	9.99	89.80	10.63	0.64	90.34
16MW-17	11/12/99	99.79	8.31	91.48	8.41	0.10	91.57
16MW-17	11/18/99	99.79	8.55	91.24	8.68	0.13	91.35
16MW-17	12/1/99	99.79	8.87	90.92	9.00	0.13	91.03
16MW-17	12/31/99	99.79	8.21	91.58	8.37	0.16	91.72
16MW-17	1/26/00	99.79	8.21	91.58	8.30	0.09	91.65
16MW-17	2/18/00	99.79	7.57	92.22	7.59	0.02	92.24
16MW-17	4/17/00	99.79	7.46	92.33	7.51	0.05	92.38
16MW-17	5/4/00	99.79	7.14	92.65	7.17	0.03	92.67
16MW-17	8/9/00	99.79	8.40	91.39	8.82	0.42	91.75
16MW-17	8/24/00	99.79	7.85	91.94	7.91	0.06	91.99
16MW-17	10/26/00	99.79	8.09	91.70	8.11	0.02	91.72
16MW-17	11/28/00	99.79	8.48	91.31	8.73	0.25	91.53

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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-17	1/16/01	99.79	7.90	91.89	8.00	0.10	91.98
16MW-17	2/27/01	99.79	7.05	92.74	-	0.00	92.74
16MW-17	3/27/01	99.79	6.40	93.39	6.43	0.03	93.41
16MW-17	4/19/01	99.79	6.55	93.24	6.65	0.10	93.33
16MW-17	5/11/01	99.79	7.42	92.37	7.55	0.13	92.48
16MW-17	6/6/01	99.79	8.00	91.79	8.25	0.25	92.00
16MW-17	8/14/01	99.79	9.27	90.52	9.68	0.41	90.87
16MW-17	9/14/01	99.79	8.70	91.09	8.81	0.11	91.18
16MW-17	10/11/01	99.79	8.44	91.35	8.46	0.02	91.36
16MW-17	11/13/01	99.79	8.66	91.13	8.70	0.04	91.16
16MW-17	11/13/01	99.79	9.22	90.57	-	0.00	90.57
16MW-17	12/13/01	99.79	8.45	91.34	8.48	0.03	91.36
16MW-17	1/8/02	99.79	8.51	91.28	8.59	0.08	91.35
16MW-17	1/23/02	99.79	8.40	91.39	8.43	0.03	91.42
16MW-17	2/28/02	99.79	8.51	91.28	8.52	0.01	91.29
16MW-17	3/28/02	99.79	7.64	92.15	7.66	0.02	92.16
16MW-17	4/23/02	99.79	8.09	91.70	8.11	0.02	91.72
16MW-17	5/15/02	99.79	7.83	91.96	7.88	0.05	92.00
16MW-17	6/8/02	99.79	8.08	91.71	8.09	0.01	91.72
16MW-17	6/27/02	99.79	8.20	91.59	8.24	0.04	91.62
16MW-17	7/16/02	99.79	8.77	91.02	8.79	0.02	91.04
16MW-17	8/15/02	99.79	9.88	89.91	10.84	0.96	90.73
16MW-17	9/10/02	99.79	8.80	90.99	8.98	0.18	91.14
16MW-17	10/18/02	99.79	7.13	92.66	7.14	0.01	92.67
16MW-17	11/14/02	99.79	9.30	90.49	9.83	0.53	90.94
16MW-17	11/26/02	99.79	7.20	92.59	7.43	0.23	92.78
16MW-17	12/16/02	99.79	7.50	92.29	7.68	0.18	92.45
16MW-17	1/28/03	99.79	7.26	92.53	7.30	0.04	92.56
16MW-17	2/26/03	99.79	6.54	93.25	6.57	0.03	93.27
16MW-17	3/31/03	99.79	6.50	93.29	6.54	0.04	93.32
16MW-17	4/29/03	99.79	6.35	93.44	6.37	0.02	93.45
16MW-17	5/23/03	99.79	7.03	92.76	7.10	0.07	92.82
16MW-17	6/26/03	99.79	5.80	93.99	5.83	0.03	94.01
16MW-17	8/1/03	99.79	7.38	92.41	7.49	0.11	92.51
16MW-17	8/26/03	99.79	7.61	92.18	7.71	0.10	92.27
16MW-17	9/17/03	99.79	7.49	92.30	7.54	0.05	92.34
16MW-17	10/28/03	99.79	7.49	92.30	-	0.00	92.30
16MW-17	11/11/03	99.79	7.38	92.41	7.46	0.08	92.47
16MW-17	12/30/03	99.79	6.35	93.44	6.36	0.01	93.45
16MW-17	1/16/04	99.79	6.95	92.84	7.00	0.05	92.88
16MW-17	2/18/04	99.79	6.57	93.22	6.59	0.02	93.23
16MW-17	3/24/04	99.79	6.54	93.25	6.37	0.17	93.39
16MW-17	4/5/04	99.79	6.24	93.55	6.14	0.10	93.64
16MW-17	5/5/04	99.79	6.50	93.29	-	0.00	93.29
16MW-17	6/29/04	99.79	7.36	92.43	-	0.00	92.43
16MW-17	7/27/04	99.79	7.15	92.64	7.10	0.05	92.68
16MW-17	8/18/04	99.79	7.40	92.39	-	0.00	92.39
16MW-17	9/1/04	99.79	7.29	92.50	-	0.00	92.50
16MW-17	10/19/04	99.79	7.65	92.14	7.61	0.04	92.17

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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-17	11/23/04	99.79	7.86	91.93	7.34	0.52	92.37
16MW-18	8/20/97	100.69	7.96	92.73	-	0.00	92.73
16MW-18	10/6/97	100.69	8.21	92.48	-	0.00	92.48
16MW-18	12/12/97	100.69	7.98	92.71	-	0.00	92.71
16MW-18	1/7/98	100.69	6.85	93.84	-	0.00	93.84
16MW-18	1/15/98	100.69	7.24	93.45	-	0.00	93.45
16MW-18	2/10/98	100.69	5.86	94.83	-	0.00	94.83
16MW-18	2/24/98	100.69	6.80	93.89	-	0.00	93.89
16MW-18	3/3/98	100.69	5.30	95.39	-	0.00	95.39
16MW-18	3/12/98	100.69	4.89	95.80	-	0.00	95.80
16MW-18	3/13/98	100.69	5.06	95.63	-	0.00	95.63
16MW-18	3/26/98	100.69	4.78	95.91	-	0.00	95.91
16MW-18	4/3/98	100.69	5.51	95.18	-	0.00	95.18
16MW-18	4/9/98	100.69	5.85	94.84	-	0.00	94.84
16MW-18	4/17/98	100.69	5.20	95.49	-	0.00	95.49
16MW-18	4/24/98	100.69	5.50	95.19	-	0.00	95.19
16MW-18	5/5/98	100.69	4.40	96.29	-	0.00	96.29
16MW-18	5/15/98	100.69	3.85	96.84	-	0.00	96.84
16MW-18	7/30/98	100.69	6.93	93.76	-	0.00	93.76
16MW-18	8/7/98	100.69	7.14	93.55	-	0.00	93.55
16MW-18	8/13/98	100.69	8.40	92.29	-	0.00	92.29
16MW-18	8/21/98	100.69	7.61	93.08	-	0.00	93.08
16MW-18	9/3/98	100.69	7.78	92.91	-	0.00	92.91
16MW-18	9/10/98	100.69	7.90	92.79	-	0.00	92.79
16MW-18	10/2/98	100.69	7.66	93.03	-	0.00	93.03
16MW-18	10/20/98	100.69	8.12	92.57	-	0.00	92.57
16MW-18	11/6/98	100.69	8.34	92.35	-	0.00	92.35
16MW-18	12/3/98	100.69	8.20	92.49	-	0.00	92.49
16MW-18	12/30/98	100.69	8.48	92.21	8.49	0.01	92.21
16MW-18	1/26/99	100.69	4.36	96.33	-	0.00	96.33
16MW-18	2/10/99	100.69	6.40	94.29	-	0.00	94.29
16MW-18	3/9/99	100.69	6.30	94.39	-	0.00	94.39
16MW-18	3/19/99	100.69	4.80	95.89	-	0.00	95.89
16MW-18	5/7/99	100.69	7.14	93.55	-	0.00	93.55
16MW-18	6/1/99	100.69	7.40	93.29	-	0.00	93.29
16MW-18	6/9/99	100.69	7.79	92.90	-	0.00	92.90
16MW-18	6/9/99	100.69	7.77	92.92	-	0.00	92.92
16MW-18	6/10/99	100.69	7.82	92.87	-	0.00	92.87
16MW-18	6/14/99	100.69	8.90	91.79	-	0.00	91.79
16MW-18	6/22/99	100.69	8.12	92.57	-	0.00	92.57
16MW-18	7/29/99	100.69	9.10	91.59	-	0.00	91.59
16MW-18	8/3/99	100.69	9.25	91.44	-	0.00	91.44
16MW-18	8/13/99	100.69	9.38	91.31	-	0.00	91.31
16MW-18	9/3/99	100.69	6.50	94.19	-	0.00	94.19
16MW-18	9/15/99	100.69	8.99	91.70	-	0.00	91.70
16MW-18	10/26/99	100.69	7.15	93.54	7.16	0.01	93.55
16MW-18	11/12/99	100.69	8.39	92.30	8.41	0.02	92.32
16MW-18	11/18/99	100.69	8.60	92.09	8.61	0.01	92.10

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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-18	12/1/99	100.69	8.41	92.28	8.43	0.02	92.29
16MW-18	12/31/99	100.69	7.50	93.19	7.78	0.28	93.42
16MW-18	1/26/00	100.69	8.39	92.30	8.41	0.02	92.32
16MW-18	2/18/00	100.69	6.17	94.52	6.20	0.03	94.55
16MW-18	4/17/00	100.69	6.32	94.37	6.37	0.05	94.41
16MW-18	5/4/00	100.69	6.81	93.88	-	0.00	93.88
16MW-18	8/9/00	100.69	5.26	95.43	5.27	0.01	95.44
16MW-18	8/24/00	100.69	7.31	93.38	7.34	0.03	93.40
16MW-18	10/26/00	100.69	8.35	92.34	8.36	0.01	92.35
16MW-18	11/28/00	100.69	7.05	93.64	7.06	0.01	93.65
16MW-18	1/16/01	100.69	7.72	92.97	7.73	0.01	92.97
16MW-18	2/27/01	100.69	6.40	94.29	-	0.00	94.29
16MW-18	3/27/01	100.69	5.20	95.49	-	0.00	95.49
16MW-18	4/19/01	100.69	5.43	95.26	-	0.00	95.26
16MW-18	5/11/01	100.69	7.06	93.63	-	0.00	93.63
16MW-18	6/6/01	100.69	7.68	93.01	7.68	0.00	93.01
16MW-18	8/14/01	100.69	8.21	92.48	8.24	0.03	92.50
16MW-18	9/14/01	100.69	8.91	91.78	8.92	0.01	91.79
16MW-18	10/11/01	100.69	8.48	92.21	-	0.00	92.21
16MW-18	12/13/01	100.69	8.51	92.18	8.55	0.04	92.22
16MW-18	1/8/02	100.69	7.95	92.74	8.01	0.06	92.79
16MW-18	1/23/02	100.69	8.50	92.19	8.56	0.06	92.24
16MW-18	2/28/02	100.69	8.83	91.86	-	0.00	91.86
16MW-18	3/28/02	100.69	6.03	94.66	-	0.00	94.66
16MW-18	4/23/02	100.69	8.23	92.46	-	0.00	92.46
16MW-18	5/15/02	100.69	6.43	94.26	-	0.00	94.26
16MW-18	6/8/02	100.69	8.91	91.78	8.92	0.01	91.79
16MW-18	6/27/02	100.69	8.93	91.76	8.95	0.02	91.77
16MW-18	7/16/02	100.69	9.30	91.39	9.43	0.13	91.50
16MW-18	8/15/02	100.69	9.65	91.04	-	0.00	91.04
16MW-18	9/10/02	100.69	8.42	92.27	8.43	0.01	92.27
16MW-18	10/18/02	100.69	5.91	94.78	-	0.00	94.78
16MW-18	11/14/02	100.69	6.91	93.78	-	0.00	93.78
16MW-18	11/26/02	100.69	6.21	94.48	-	0.00	94.48
16MW-18	12/16/02	100.69	5.91	94.78	-	0.00	94.78
16MW-18	1/28/03	100.69	7.28	93.41	-	0.00	93.41
16MW-18	2/26/03	100.69	5.56	95.13	-	0.00	95.13
16MW-18	3/31/03	100.69	5.86	94.83	-	0.00	94.83
16MW-18	4/29/03	100.69	6.00	94.69	-	0.00	94.69
16MW-18	5/23/03	100.69	7.05	93.64	-	0.00	93.64
16MW-18	6/26/03	100.69	4.91	95.78	-	0.00	95.78
16MW-18	8/1/03	100.69	7.02	93.67	-	0.00	93.67
16MW-18	8/26/03	100.69	7.49	93.20	-	0.00	93.20
16MW-18	9/17/03	100.69	7.29	93.40	-	0.00	93.40
16MW-18	10/28/03	100.69	7.84	92.85	-	0.00	92.85
16MW-18	11/11/03	100.69	6.20	94.49	6.21	0.01	94.50
16MW-18	12/30/03	100.69	5.95	94.74	5.96	0.01	94.75
16MW-18	1/16/04	100.69	6.98	93.71	6.99	0.01	93.72
16MW-18	2/18/04	100.69	6.20	94.49	6.21	0.01	94.50

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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	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-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
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

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	7/29/99	100.54	9.01	91.53	9.06	0.05	91.57
16MW-19	8/3/99	100.54	9.14	91.40	9.20	0.06	91.45
16MW-19	8/13/99	100.54	9.05	91.49	-	0.00	91.49
16MW-19	9/3/99	100.54	9.07	91.47	9.21	0.14	91.59
16MW-19	9/15/99	100.54	8.99	91.55	9.01	0.02	91.57
16MW-19	10/26/99	100.54	9.35	91.19	9.77	0.42	91.54
16MW-19	11/2/99	100.54	9.99	90.55	10.46	0.47	90.95
16MW-19	11/12/99	100.54	8.45	92.09	8.46	0.01	92.10
16MW-19	11/18/99	100.54	8.59	91.95	-	0.00	91.95
16MW-19	12/1/99	100.54	8.35	92.19	8.36	0.01	92.20
16MW-19	12/31/99	100.54	8.07	92.47	8.11	0.04	92.50
16MW-19	1/26/00	100.54	8.36	92.18	8.37	0.01	92.19
16MW-19	2/18/00	100.54	7.51	93.03	7.52	0.01	93.04
16MW-19	4/17/00	100.54	7.52	93.02	-	0.00	93.02
16MW-19	5/4/00	100.54	7.22	93.32	7.28	0.06	93.37
16MW-19	8/9/00	100.54	7.30	93.24	7.52	0.22	93.42
16MW-19	8/24/00	100.54	8.00	92.54	8.06	0.06	92.59
16MW-19	10/26/00	100.54	8.77	91.77	8.86	0.09	91.84
16MW-19	11/28/00	100.54	8.32	92.22	8.38	0.06	92.27
16MW-19	1/16/01	100.54	8.60	91.94	8.78	0.18	92.09
16MW-19	2/27/01	100.54	7.37	93.17	-	0.00	93.17
16MW-19	3/27/01	100.54	6.20	94.34	6.28	0.08	94.41
16MW-19	4/19/01	100.54	6.40	94.14	6.51	0.11	94.23
16MW-19	5/11/01	100.54	7.48	93.06	7.60	0.12	93.16
16MW-19	6/6/01	100.54	7.57	92.97	7.67	0.10	93.05
16MW-19	8/14/01	100.54	7.30	93.24	7.35	0.05	93.28
16MW-19	9/14/01	100.54	9.12	91.42	9.24	0.12	91.52
16MW-19	10/11/01	100.54	8.97	91.57	9.01	0.04	91.60
16MW-19	11/13/01	100.54	9.10	91.44	9.13	0.03	91.47
16MW-19	12/13/01	100.54	8.97	91.57	9.01	0.04	91.60
16MW-19	1/8/02	100.54	8.93	91.61	8.99	0.06	91.66
16MW-19	1/23/02	100.54	8.82	91.72	8.84	0.02	91.73
16MW-19	2/28/02	100.54	8.98	91.56	-	0.00	91.56
16MW-19	3/28/02	100.54	8.00	92.54	8.09	0.09	92.61
16MW-19	4/23/02	100.54	8.58	91.96	8.61	0.03	91.98
16MW-19	5/15/02	100.54	8.20	92.34	8.26	0.06	92.39
16MW-19	6/8/02	100.54	8.55	91.99	8.58	0.03	92.01
16MW-19	6/27/02	100.54	8.57	91.97	8.59	0.02	91.99
16MW-19	7/16/02	100.54	9.26	91.28	9.28	0.02	91.29
16MW-19	8/15/02	100.54	9.52	91.02	-	0.00	91.02
16MW-19	9/10/02	100.54	8.70	91.84	8.71	0.01	91.85
16MW-19	10/18/02	100.54	6.91	93.63	6.91	0.00	93.63
16MW-19	11/14/02	100.54	7.57	92.97	7.58	0.01	92.97
16MW-19	11/26/02	100.54	7.18	93.36	-	0.00	93.36
16MW-19	12/16/02	100.54	6.90	93.64	6.93	0.03	93.66
16MW-19	1/28/03	100.54	7.31	93.23	7.31	0.00	93.23
16MW-19	2/26/03	100.54	6.43	94.11	6.49	0.06	94.16
16MW-19	3/31/03	100.54	6.25	94.29	6.26	0.01	94.30
16MW-19	4/29/03	100.54	6.32	94.22	6.34	0.02	94.23

APPENDIX B
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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-19	5/23/03	100.54	7.08	93.46	7.11	0.03	93.48
16MW-19	6/26/03	100.54	5.56	94.98	-	0.00	94.98
16MW-19	8/1/03	100.54	7.28	93.26	7.33	0.05	93.30
16MW-19	8/26/03	100.54	7.37	93.17	7.38	0.01	93.17
16MW-19	9/17/03	100.54	7.65	92.89	-	0.00	92.89
16MW-19	10/28/03	100.54	8.12	92.42	8.20	0.08	92.48
16MW-19	12/30/03	100.54	6.46	94.08	-	0.00	94.08
16MW-19	1/16/04	100.54	7.10	93.44	7.12	0.02	93.45
16MW-19	2/18/04	100.54	6.63	93.91	6.66	0.03	93.93
16MW-19	3/24/04	100.54	6.40	94.14	6.22	0.18	94.29
16MW-19	4/5/04	100.54	5.98	94.56	5.96	0.02	94.58
16MW-19	5/5/04	100.54	6.15	94.39	-	0.00	94.39
16MW-19	6/29/04	100.54	7.57	92.97	7.54	0.03	93.00
16MW-19	7/27/04	100.54	7.50	93.04	-	0.00	93.04
16MW-19	8/18/04	100.54	7.73	92.81	7.59	0.14	92.93
16MW-19	9/1/04	100.54	7.41	93.13	7.40	0.01	93.14
16MW-19	10/19/04	100.54	8.00	92.54	-	0.00	92.54
16MW-19	11/23/04	100.54	7.63	92.91	7.48	0.15	93.04
16MW-20	8/20/97	100.82	9.88	90.94	10.33	0.45	91.32
16MW-20	10/6/97	100.82	10.22	90.60	10.68	0.46	90.99
16MW-20	12/12/97	100.82	10.55	90.27	11.16	0.61	90.79
16MW-20	1/7/98	100.82	10.36	90.46	11.06	0.70	91.05
16MW-20	1/22/98	100.82	10.50	90.32	11.27	0.77	90.97
16MW-20	2/10/98	100.82	7.71	93.11	7.86	0.15	93.24
16MW-20	2/24/98	100.82	6.80	94.02	6.88	0.08	94.09
16MW-20	3/3/98	100.82	6.85	93.97	6.92	0.07	94.03
16MW-20	3/12/98	100.82	6.37	94.45	6.39	0.02	94.47
16MW-20	3/13/98	100.82	6.43	94.39	6.45	0.02	94.41
16MW-20	3/26/98	100.82	6.21	94.61	6.21	0.00	94.61
16MW-20	4/3/98	100.82	6.60	94.22	6.64	0.04	94.25
16MW-20	4/9/98	100.82	6.68	94.14	6.70	0.02	94.16
16MW-20	4/17/98	100.82	6.49	94.33	6.50	0.01	94.34
16MW-20	4/24/98	100.82	6.48	94.34	6.51	0.03	94.36
16MW-20	5/5/98	100.82	5.70	95.12	5.76	0.06	95.17
16MW-20	5/15/98	100.82	5.54	95.29	5.59	0.06	95.33
16MW-20	7/30/98	100.82	8.98	91.84	9.35	0.37	92.15
16MW-20	8/7/98	100.82	8.11	92.71	8.16	0.05	92.75
16MW-20	8/13/98	100.82	8.29	92.53	8.34	0.05	92.57
16MW-20	8/21/98	100.82	8.40	92.42	8.45	0.05	92.46
16MW-20	9/3/98	100.82	8.65	92.17	8.71	0.06	92.22
16MW-20	9/10/98	100.82	8.48	92.34	8.50	0.02	92.36
16MW-20	10/2/98	100.82	8.73	92.09	8.78	0.05	92.13
16MW-20	10/20/98	100.82	8.66	92.16	-	0.00	92.16
16MW-20	11/6/98	100.82	8.79	92.03	-	0.00	92.03
16MW-20	12/3/98	100.82	9.03	91.79	9.09	0.06	91.84
16MW-20	1/26/99	100.82	7.70	93.12	7.73	0.03	93.14
16MW-20	2/10/99	100.82	8.05	92.77	8.10	0.05	92.81
16MW-20	3/9/99	100.82	7.95	92.87	7.98	0.03	92.89

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-20	3/19/99	100.82	7.66	93.16	7.67	0.01	93.17
16MW-20	4/20/99	100.82	7.70	93.12	7.71	0.01	93.12
16MW-20	5/7/99	100.82	7.91	92.91	7.93	0.02	92.92
16MW-20	6/1/99	100.82	8.36	92.46	8.40	0.04	92.49
16MW-20	6/9/99	100.82	8.80	92.02	8.88	0.08	92.09
16MW-20	6/10/99	100.82	7.72	93.10	7.77	0.05	93.14
16MW-20	6/14/99	100.82	8.85	91.97	8.94	0.09	92.04
16MW-20	6/22/99	100.82	8.59	92.23	8.68	0.09	92.30
16MW-20	7/29/99	100.82	9.40	91.42	-	0.00	91.42
16MW-20	8/3/99	100.82	10.25	90.57	10.44	0.19	90.73
16MW-20	9/3/99	100.82	9.45	91.37	9.47	0.02	91.38
16MW-20	9/15/99	100.82	9.72	91.10	9.79	0.07	91.16
16MW-20	11/2/99	100.82	10.08	90.74	10.40	0.32	91.01
16MW-20	11/12/99	100.82	9.17	91.65	9.20	0.03	91.68
16MW-20	11/18/99	100.82	9.40	91.42	-	0.00	91.42
16MW-20	12/1/99	100.82	9.31	91.51	9.39	0.08	91.58
16MW-20	12/31/99	100.82	8.84	91.98	8.87	0.03	92.01
16MW-20	1/26/00	100.82	9.28	91.54	9.37	0.09	91.62
16MW-20	2/18/00	100.82	8.82	92.00	8.88	0.06	92.05
16MW-20	4/17/00	100.82	9.21	91.61	9.48	0.27	91.84
16MW-20	5/4/00	100.82	8.05	92.77	8.27	0.22	92.96
16MW-20	8/9/00	100.82	8.32	92.50	8.34	0.02	92.52
16MW-20	8/24/00	100.82	7.70	93.12	-	0.00	93.12
16MW-20	10/26/00	100.82	9.21	91.61	9.25	0.04	91.64
16MW-20	1/16/01	100.82	9.15	91.67	9.31	0.16	91.81
16MW-20	2/27/01	100.82	8.40	92.42	8.50	0.10	92.50
16MW-20	3/27/01	100.82	7.80	93.02	7.93	0.13	93.13
16MW-20	4/19/01	100.82	7.77	93.05	7.94	0.17	93.20
16MW-20	5/11/01	100.82	8.88	91.94	9.22	0.34	92.23
16MW-20	6/6/01	100.82	9.85	90.97	10.37	0.52	91.41
16MW-20	8/14/01	100.82	10.59	90.23	11.12	0.53	90.68
16MW-20	9/14/01	100.82	10.80	90.02	11.24	0.44	90.40
16MW-20	10/11/01	100.82	9.62	91.20	9.69	0.07	91.26
16MW-20	11/13/01	100.82	9.73	91.09	9.79	0.06	91.14
16MW-20	12/13/01	100.82	9.67	91.15	9.75	0.08	91.21
16MW-20	1/8/02	100.82	9.81	91.01	9.97	0.16	91.14
16MW-20	1/23/02	100.82	9.63	91.19	9.73	0.10	91.28
16MW-20	2/28/02	100.82	9.69	91.13	9.74	0.05	91.17
16MW-20	3/28/02	100.82	8.75	92.07	8.76	0.01	92.07
16MW-20	4/23/02	100.82	9.30	91.52	9.37	0.07	91.58
16MW-20	5/15/02	100.82	9.14	91.68	9.26	0.12	91.78
16MW-20	6/8/02	100.82	9.19	91.63	9.22	0.03	91.65
16MW-20	6/27/02	100.82	9.45	91.37	9.56	0.11	91.47
16MW-20	7/16/02	100.82	9.75	91.07	-	0.00	91.07
16MW-20	8/15/02	100.82	10.13	90.69	10.14	0.01	90.70
16MW-20	9/10/02	100.82	9.60	91.22	9.67	0.07	91.28
16MW-20	10/18/02	100.82	5.70	95.12	-	0.00	95.12
16MW-20	11/14/02	100.82	8.60	92.22	-	0.00	92.22
16MW-20	11/26/02	100.82	8.40	92.42	8.43	0.03	92.44

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-20	12/16/02	100.82	8.30	92.52	8.36	0.06	92.57
16MW-20	1/28/03	100.82	8.23	92.59	8.26	0.03	92.62
16MW-20	2/26/03	100.82	7.76	93.06	7.83	0.07	93.12
16MW-20	3/31/03	100.82	7.51	93.31	7.54	0.03	93.34
16MW-20	4/29/03	100.82	7.98	92.84	8.17	0.19	93.00
16MW-20	5/23/03	100.82	8.10	92.72	8.20	0.10	92.81
16MW-20	6/26/03	100.82	6.91	93.91	6.94	0.03	93.93
16MW-20	8/1/03	100.82	8.15	92.67	8.21	0.06	92.72
16MW-20	8/26/03	100.82	8.70	92.12	8.83	0.13	92.23
16MW-20	9/17/03	100.82	8.68	92.14	-	0.00	92.14
16MW-20	10/28/03	100.82	8.45	92.37	8.46	0.01	92.38
16MW-20	12/30/03	100.82	7.49	93.33	7.51	0.02	93.34
16MW-20	2/18/04	100.82	7.73	93.09	7.74	0.01	93.10
16MW-20	3/24/04	100.82	7.51	93.31	7.38	0.13	93.42
16MW-20	4/5/04	100.82	7.15	93.67	7.09	0.06	93.72
16MW-20	5/5/04	100.82	6.87	93.95	-	0.00	93.95
16MW-20	6/29/04	100.82	8.16	92.66	-	0.00	92.66
16MW-20	7/27/04	100.82	8.20	92.62	-	0.00	92.62
16MW-20	8/18/04	100.82	8.55	92.27	8.45	0.10	92.36
16MW-20	9/1/04	100.82	8.67	92.15	8.65	0.02	92.17
16MW-20	10/19/04	100.82	8.49	92.33	-	0.00	92.33
16MW-20	11/23/04	100.82	8.52	92.30	8.41	0.11	92.39
16MW-21	8/20/97	99.78	7.57	92.21	-	0.00	92.21
16MW-21	10/6/97	99.78	7.80	91.98	-	0.00	91.98
16MW-21	12/12/97	99.78	7.70	92.08	-	0.00	92.08
16MW-21	1/7/98	99.78	7.12	92.66	-	0.00	92.66
16MW-21	2/10/98	99.78	6.00	93.78	-	0.00	93.78
16MW-21	2/24/98	99.78	5.67	94.11	-	0.00	94.11
16MW-21	3/3/98	99.78	5.40	94.38	-	0.00	94.38
16MW-21	3/12/98	99.78	5.03	94.75	-	0.00	94.75
16MW-21	3/13/98	99.78	5.17	94.61	-	0.00	94.61
16MW-21	3/26/98	99.78	4.90	94.88	-	0.00	94.88
16MW-21	4/3/98	99.78	5.25	94.53	-	0.00	94.53
16MW-21	4/9/98	99.78	5.55	94.23	-	0.00	94.23
16MW-21	4/17/98	99.78	5.10	94.68	-	0.00	94.68
16MW-21	4/24/98	99.78	5.93	93.85	-	0.00	93.85
16MW-21	5/5/98	99.78	4.88	94.90	-	0.00	94.90
16MW-21	5/15/98	99.78	4.10	95.68	-	0.00	95.68
16MW-21	7/30/98	99.78	6.95	92.83	-	0.00	92.83
16MW-21	8/7/98	99.78	7.21	92.57	-	0.00	92.57
16MW-21	8/13/98	99.78	7.41	92.37	-	0.00	92.37
16MW-21	8/21/98	99.78	7.51	92.27	-	0.00	92.27
16MW-21	9/3/98	99.78	7.57	92.21	-	0.00	92.21
16MW-21	9/10/98	99.78	7.70	92.08	-	0.00	92.08
16MW-21	10/2/98	99.78	7.77	92.01	-	0.00	92.01
16MW-21	10/20/98	99.78	7.86	91.92	-	0.00	91.92
16MW-21	11/6/98	99.78	0.00	99.78	-	0.00	99.78
16MW-21	12/3/98	99.78	8.00	91.78	-	0.00	91.78

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-21	1/26/99	99.78	5.05	94.73	-	0.00	94.73
16MW-21	3/9/99	99.78	6.57	93.21	-	0.00	93.21
16MW-21	3/19/99	99.78	5.56	94.22	-	0.00	94.22
16MW-21	4/20/99	99.78	6.40	93.38	-	0.00	93.38
16MW-21	5/7/99	99.78	7.05	92.73	-	0.00	92.73
16MW-21	6/1/99	99.78	7.45	92.33	-	0.00	92.33
16MW-21	6/9/99	99.78	7.15	92.63	-	0.00	92.63
16MW-21	6/14/99	99.78	7.77	92.01	-	0.00	92.01
16MW-21	6/22/99	99.78	7.00	92.78	-	0.00	92.78
16MW-21	7/29/99	99.78	8.75	91.03	-	0.00	91.03
16MW-21	8/3/99	99.78	8.89	90.89	-	0.00	90.89
16MW-21	9/15/99	99.78	8.70	91.08	-	0.00	91.08
16MW-21	11/18/99	99.78	8.33	91.45	-	0.00	91.45
16MW-21	2/18/00	99.78	7.51	92.27	-	0.00	92.27
16MW-21	4/17/00	99.78	7.35	92.43	-	0.00	92.43
16MW-21	5/4/00	99.78	7.20	92.58	-	0.00	92.58
16MW-21	8/9/00	99.78	6.20	93.58	-	0.00	93.58
16MW-21	8/24/00	99.78	7.88	91.90	-	0.00	91.90
16MW-21	10/26/00	99.78	8.30	91.48	-	0.00	91.48
16MW-21	1/16/01	99.78	7.80	91.98	-	0.00	91.98
16MW-21	2/27/01	99.78	7.27	92.51	-	0.00	92.51
16MW-21	3/27/01	99.78	5.65	94.13	-	0.00	94.13
16MW-21	4/19/01	99.78	5.70	94.08	-	0.00	94.08
16MW-21	5/11/01	99.78	6.95	92.83	-	0.00	92.83
16MW-21	6/6/01	99.78	7.19	92.59	-	0.00	92.59
16MW-21	8/14/01	99.78	8.00	91.78	-	0.00	91.78
16MW-21	9/14/01	99.78	8.51	91.27	-	0.00	91.27
16MW-21	10/11/01	99.78	8.59	91.19	-	0.00	91.19
16MW-21	11/13/01	99.78	8.74	91.04	-	0.00	91.04
16MW-21	12/13/01	99.78	8.58	91.20	-	0.00	91.20
16MW-21	1/8/02	99.78	8.41	91.37	-	0.00	91.37
16MW-21	1/22/02	99.78	7.06	92.72	-	0.00	92.72
16MW-21	1/23/02	99.78	8.46	91.32	-	0.00	91.32
16MW-21	2/28/02	99.78	8.69	91.09	-	0.00	91.09
16MW-21	3/28/02	99.78	5.86	93.92	-	0.00	93.92
16MW-21	4/23/02	99.78	8.22	91.56	-	0.00	91.56
16MW-21	5/15/02	99.78	6.17	93.61	-	0.00	93.61
16MW-21	6/8/02	99.78	8.26	91.52	-	0.00	91.52
16MW-21	6/27/02	99.78	8.05	91.73	-	0.00	91.73
16MW-21	7/16/02	99.78	9.00	90.78	-	0.00	90.78
16MW-21	8/15/02	99.78	9.36	90.42	-	0.00	90.42
16MW-21	9/10/02	99.78	7.78	92.00	-	0.00	92.00
16MW-21	10/18/02	99.78	5.75	94.03	5.83	0.08	94.09
16MW-21	11/14/02	99.78	6.17	93.61	6.18	0.01	93.61
16MW-21	11/26/02	99.78	6.31	93.47	-	0.00	93.47
16MW-21	12/16/02	99.78	5.80	93.98	-	0.00	93.98
16MW-21	1/28/03	99.78	7.21	92.57	-	0.00	92.57
16MW-21	2/26/03	99.78	5.79	93.99	-	0.00	93.99
16MW-21	3/31/03	99.78	4.60	95.18	-	0.00	95.18

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-21	4/29/03	99.78	4.70	95.08	-	0.00	95.08
16MW-21	5/23/03	99.78	6.88	92.90	-	0.00	92.90
16MW-21	6/26/03	99.78	0.00	99.78	-	0.00	99.78
16MW-21	8/1/03	99.78	7.00	92.78	-	0.00	92.78
16MW-21	8/26/03	99.78	7.30	92.48	-	0.00	92.48
16MW-21	9/17/03	99.78	7.28	92.50	-	0.00	92.50
16MW-21	10/28/03	99.78	7.61	92.17	-	0.00	92.17
16MW-21	12/30/03	99.78	6.15	93.63	-	0.00	93.63
16MW-21	2/18/04	99.78	6.55	93.23	-	0.00	93.23
16MW-21	3/24/04	99.78	6.10	93.68	-	0.00	93.68
16MW-21	4/5/04	99.78	4.91	94.87	-	0.00	94.87
16MW-21	5/5/04	99.78	5.53	94.25	-	0.00	94.25
16MW-21	6/29/04	99.78	7.58	92.20	-	0.00	92.20
16MW-21	7/27/04	99.78	7.50	92.28	-	0.00	92.28
16MW-21	8/18/04	99.78	8.60	91.18	-	0.00	91.18
16MW-21	9/1/04	99.78	8.80	90.98	8.79	0.01	90.98
16MW-21	10/19/04	99.78	6.95	92.83	-	0.00	92.83
16MW-21	11/23/04	99.78	7.50	92.28	-	0.00	92.28
16MW-22	12/12/97	102.22	7.70	94.52	-	0.00	94.52
16MW-22	1/7/98	102.22	5.34	96.88	-	0.00	96.88
16MW-22	2/10/98	102.22	2.98	99.24	-	0.00	99.24
16MW-22	2/24/98	102.22	1.60	100.62	-	0.00	100.62
16MW-22	3/3/98	102.22	2.87	99.35	-	0.00	99.35
16MW-22	3/26/98	102.22	1.85	100.37	-	0.00	100.37
16MW-22	4/3/98	102.22	2.05	100.17	-	0.00	100.17
16MW-22	4/17/98	102.22	2.10	100.12	-	0.00	100.12
16MW-22	4/24/98	102.22	1.52	100.70	-	0.00	100.70
16MW-22	5/15/98	102.22	2.86	99.36	-	0.00	99.36
16MW-22	7/30/98	102.22	6.03	96.19	-	0.00	96.19
16MW-22	8/13/98	102.22	6.10	96.12	-	0.00	96.12
16MW-22	10/2/98	102.22	7.78	94.44	-	0.00	94.44
16MW-22	11/6/98	102.22	8.79	93.43	-	0.00	93.43
16MW-22	1/26/99	102.22	1.81	100.41	-	0.00	100.41
16MW-22	3/9/99	102.22	3.45	98.77	-	0.00	98.77
16MW-22	3/19/99	102.22	8.38	93.84	-	0.00	93.84
16MW-22	4/20/99	102.22	4.15	98.07	-	0.00	98.07
16MW-22	5/7/99	102.22	7.05	95.17	-	0.00	95.17
16MW-22	6/1/99	102.22	5.81	96.41	-	0.00	96.41
16MW-22	6/9/99	102.22	6.11	96.11	-	0.00	96.11
16MW-22	6/14/99	102.22	7.57	94.65	7.62	0.05	94.69
16MW-22	6/22/99	102.22	7.11	95.11	-	0.00	95.11
16MW-22	5/4/00	102.22	8.86	93.36	-	0.00	93.36
16MW-23	12/12/97	102.58	9.19	93.39	-	0.00	93.39
16MW-23	1/7/98	102.58	8.67	93.91	-	0.00	93.91
16MW-23	1/7/98	102.58	8.67	93.91	-	0.00	93.91
16MW-23	2/10/98	102.58	7.80	94.78	-	0.00	94.78
16MW-23	2/24/98	102.58	7.20	95.38	-	0.00	95.38

APPENDIX B
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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	3/3/98	102.58	7.10	95.48	-	0.00	95.48
16MW-23	3/26/98	102.58	6.60	95.98	-	0.00	95.98
16MW-23	4/3/98	102.58	6.90	95.68	-	0.00	95.68
16MW-23	4/17/98	102.58	6.95	95.63	-	0.00	95.63
16MW-23	4/24/98	102.58	6.84	95.74	-	0.00	95.74
16MW-23	5/15/98	102.58	5.89	96.69	-	0.00	96.69
16MW-23	7/30/98	102.58	8.03	94.55	-	0.00	94.55
16MW-23	8/13/98	102.58	8.46	94.12	-	0.00	94.12
16MW-23	10/2/98	102.58	9.03	93.55	-	0.00	93.55
16MW-23	1/26/99	102.58	8.21	94.37	-	0.00	94.37
16MW-23	3/9/99	102.58	8.53	94.05	-	0.00	94.05
16MW-23	3/19/99	102.58	8.31	94.27	-	0.00	94.27
16MW-23	4/20/99	102.58	8.32	94.26	-	0.00	94.26
16MW-23	6/1/99	102.58	8.80	93.78	-	0.00	93.78
16MW-23	6/9/99	102.58	9.01	93.57	-	0.00	93.57
16MW-23	6/22/99	102.58	9.75	92.83	-	0.00	92.83
16MW-23	8/3/99	102.58	10.00	92.58	-	0.00	92.58
16MW-23	9/15/99	102.58	10.11	92.47	-	0.00	92.47
16MW-23	4/17/00	102.58	0.00	102.58	-	0.00	102.58
16MW-23	5/4/00	102.58	0.00	102.58	-	0.00	102.58
16MW-24	3/27/01	102.06	8.15	93.91	-	0.00	93.91
16MW-24	4/19/01	102.06	7.83	94.23	-	0.00	94.23
16MW-24	5/11/01	102.06	8.49	93.57	-	0.00	93.57
16MW-24	6/6/01	102.06	8.78	93.28	-	0.00	93.28
16MW-24	8/14/01	102.06	9.48	92.58	-	0.00	92.58
16MW-24	9/14/01	102.06	9.93	92.13	-	0.00	92.13
16MW-24	10/11/01	102.06	10.12	91.94	-	0.00	91.94
16MW-24	11/13/01	102.06	10.31	91.75	-	0.00	91.75
16MW-24	12/13/01	102.06	10.23	91.83	-	0.00	91.83
16MW-24	1/8/02	102.06	10.13	91.93	-	0.00	91.93
16MW-24	1/23/02	102.06	10.19	91.87	-	0.00	91.87
16MW-24	2/28/02	102.06	10.34	91.72	-	0.00	91.72
16MW-24	3/28/02	102.06	9.62	92.44	-	0.00	92.44
16MW-24	4/23/02	102.06	9.88	92.18	-	0.00	92.18
16MW-24	5/15/02	102.06	9.63	92.43	-	0.00	92.43
16MW-24	6/8/02	102.06	9.88	92.18	-	0.00	92.18
16MW-24	6/27/02	102.06	9.84	92.22	-	0.00	92.22
16MW-24	7/16/02	102.06	10.43	91.63	-	0.00	91.63
16MW-24	8/15/02	102.06	10.81	91.25	-	0.00	91.25
16MW-25	3/27/01	100.92	8.01	92.91	-	0.00	92.91
16MW-25	4/19/01	100.92	6.20	94.72	-	0.00	94.72
16MW-25	6/6/01	100.92	7.37	93.55	-	0.00	93.55
16MW-25	8/14/01	100.92	8.48	92.44	8.50	0.02	92.45
16MW-25	9/14/01	100.92	8.91	92.01	8.92	0.01	92.02
16MW-25	10/11/01	100.92	9.08	91.84	9.10	0.02	91.85
16MW-25	11/13/01	100.92	9.23	91.69	9.24	0.01	91.70
16MW-25	12/13/01	100.92	9.18	91.74	9.19	0.01	91.75

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-25	1/8/02	100.92	9.07	91.85	9.08	0.01	91.85
16MW-25	1/23/02	100.92	9.11	91.81	-	0.00	91.81
16MW-25	2/28/02	100.92	9.28	91.64	-	0.00	91.64
16MW-25	3/28/02	100.92	8.50	92.42	8.51	0.01	92.43
16MW-25	4/23/02	100.92	8.84	92.08	8.85	0.01	92.09
16MW-25	5/15/02	100.92	8.57	92.35	8.58	0.01	92.36
16MW-25	6/8/02	100.92	8.81	92.11	8.83	0.02	92.12
16MW-25	6/27/02	100.92	8.85	92.07	8.88	0.03	92.09
16MW-25	7/16/02	100.92	10.47	90.45	10.50	0.03	90.47
16MW-25	8/15/02	100.92	9.76	91.16	9.79	0.03	91.19
16MW-25	9/10/02	100.92	9.12	91.80	9.15	0.03	91.83
16MW-25	10/18/02	100.92	8.10	92.82	8.11	0.01	92.83
16MW-25	11/14/02	100.92	8.40	92.52	8.43	0.03	92.54
16MW-25	11/26/02	100.92	7.95	92.97	7.99	0.04	93.00
16MW-25	12/16/02	100.92	7.70	93.22	7.74	0.04	93.25
16MW-25	1/28/03	100.92	7.85	93.07	7.86	0.01	93.08
16MW-25	2/26/03	100.92	7.29	93.63	7.34	0.05	93.67
16MW-25	3/31/03	100.92	6.98	93.94	7.00	0.02	93.96
16MW-25	4/29/03	100.92	6.86	94.06	-	0.00	94.06
16MW-25	5/23/03	100.92	7.26	93.66	7.29	0.03	93.68
16MW-25	6/26/03	100.92	6.46	94.46	6.47	0.01	94.47
16MW-25	8/1/03	100.92	7.70	93.22	7.74	0.04	93.26
16MW-25	8/26/03	100.92	8.00	92.92	8.05	0.05	92.96
16MW-25	9/17/03	100.92	7.68	93.24	7.70	0.02	93.25
16MW-25	10/28/03	100.92	8.18	92.74	-	0.00	92.74
16MW-25	11/11/03	100.92	7.98	92.94	8.01	0.03	92.96
16MW-25	12/30/03	100.92	7.17	93.75	7.19	0.02	93.77
16MW-25	1/16/04	100.92	7.55	93.37	7.58	0.03	93.39
16MW-25	3/24/04	100.92	7.14	93.78	7.05	0.09	93.86
16MW-25	4/5/04	100.92	6.65	94.27	6.57	0.08	94.34
16MW-25	5/5/04	100.92	6.60	94.32	6.46	0.14	94.44
16MW-25	6/29/04	100.92	7.94	92.98	7.88	0.06	93.03
16MW-25	7/27/04	100.92	7.50	93.42	-	0.00	93.42
16MW-25	8/18/04	100.92	8.06	92.86	8.05	0.01	92.87
16MW-25	9/1/04	100.92	8.40	92.52	8.30	0.10	92.61
16MW-25	10/19/04	100.92	8.40	92.52	8.35	0.05	92.56
16MW-25	11/23/04	100.92	8.25	92.67	8.12	0.13	92.78
16MW-26	3/27/01	101.67	8.52	93.15	8.53	0.01	93.15
16MW-26	4/19/01	101.67	5.82	95.85	-	0.00	95.85
16MW-26	5/11/01	101.67	8.41	93.26	8.42	0.01	93.26
16MW-26	6/6/01	101.67	7.45	94.22	-	0.00	94.22
16MW-26	8/14/01	101.67	9.22	92.45	-	0.00	92.45
16MW-26	9/14/01	101.67	9.90	91.77	-	0.00	91.77
16MW-26	10/11/01	101.67	9.08	92.59	-	0.00	92.59
16MW-26	11/13/01	101.67	10.38	91.29	-	0.00	91.29
16MW-26	12/13/01	101.67	9.97	91.70	9.98	0.01	91.70
16MW-26	6/8/02	101.67	7.50	94.17	-	0.00	94.17
16MW-26	6/27/02	101.67	6.40	95.27	-	0.00	95.27

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-26	8/15/02	101.67	10.21	91.46	-	0.00	91.46
16MW-26	10/18/02	101.57	6.00	95.57	-	0.00	95.57
16MW-26	11/14/02	101.57	6.09	95.48	-	0.00	95.48
16MW-26	11/26/02	101.57	6.11	95.46	-	0.00	95.46
16MW-26	12/16/02	101.67	5.56	96.11	-	0.00	96.11
16MW-26	1/28/03	101.67	7.55	94.12	-	0.00	94.12
16MW-26	2/26/03	101.67	0.00	101.67	-	0.00	101.67
16MW-26	5/23/03	101.67	8.10	93.57	-	0.00	93.57
16MW-26	6/26/03	101.67	4.16	97.51	-	0.00	97.51
16MW-26	8/1/03	101.67	7.10	94.57	-	0.00	94.57
16MW-26	8/26/03	101.67	6.80	94.87	-	0.00	94.87
16MW-26	9/17/03	101.67	6.29	95.38	-	0.00	95.38
16MW-26	10/28/03	101.67	7.65	94.02	-	0.00	94.02
16MW-26	11/11/03	101.67	4.98	96.69	-	0.00	96.69
16MW-26	12/30/03	101.67	4.15	97.52	-	0.00	97.52
16MW-26	2/18/04	101.67	5.13	96.54	-	0.00	96.54
16MW-26	3/24/04	101.67	4.35	97.32	-	0.00	97.32
16MW-26	4/5/04	101.67	3.59	98.08	-	0.00	98.08
16MW-26	5/5/04	101.67	4.35	97.32	-	0.00	97.32
16MW-26	6/29/04	101.67	8.64	93.03	-	0.00	93.03
16MW-26	7/27/04	101.67	8.00	93.67	-	0.00	93.67
16MW-26	8/18/04	101.67	5.45	96.22	-	0.00	96.22
16MW-26	9/1/04	101.67	6.50	95.17	-	0.00	95.17
16MW-26	10/19/04	101.67	7.32	94.35	-	0.00	94.35
16MW-26	11/23/04	101.67	4.66	97.01	-	0.00	97.01
16MW-27	3/27/01	100.80	10.22	90.58	10.80	0.58	91.07
16MW-27	4/19/01	100.80	9.53	91.27	10.32	0.79	91.95
16MW-27	5/11/01	100.80	9.63	91.17	10.29	0.66	91.73
16MW-27	6/6/01	100.80	9.23	91.57	9.78	0.55	92.04
16MW-27	8/14/01	100.80	9.22	91.58	9.47	0.25	91.79
16MW-27	9/14/01	100.80	9.67	91.13	9.92	0.25	91.34
16MW-27	10/11/01	100.80	9.48	91.32	9.63	0.15	91.45
16MW-27	11/13/01	100.80	10.26	90.54	10.59	0.33	90.82
16MW-27	12/13/01	100.80	9.79	91.01	10.01	0.22	91.19
16MW-27	1/8/02	100.80	10.55	90.25	10.95	0.40	90.59
16MW-27	1/23/02	100.80	10.14	90.66	10.46	0.32	90.93
16MW-27	2/28/02	100.80	10.40	90.40	10.75	0.35	90.70
16MW-27	3/28/02	100.80	9.56	91.24	9.88	0.32	91.51
16MW-27	4/23/02	100.80	9.92	90.88	10.26	0.34	91.17
16MW-27	5/15/02	100.80	9.25	91.55	9.47	0.22	91.74
16MW-27	6/8/02	100.80	9.15	91.65	9.26	0.11	91.75
16MW-27	6/27/02	100.80	9.00	91.80	9.08	0.08	91.86
16MW-27	7/16/02	100.80	10.36	90.44	10.69	0.33	90.72
16MW-27	8/15/02	100.80	10.72	90.08	11.94	1.22	91.12
16MW-27	9/10/02	100.80	7.35	93.45	-	0.00	93.45
16MW-27	10/18/02	100.80	8.65	92.15	8.79	0.14	92.27
16MW-27	11/14/02	100.80	8.80	92.00	8.95	0.15	92.12
16MW-27	11/26/02	100.80	8.70	92.10	8.91	0.21	92.28

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-27	12/16/02	100.80	0.00	100.80	-	0.00	100.80
16MW-27	1/28/03	100.80	7.65	93.15	7.70	0.05	93.19
16MW-27	2/26/03	100.80	7.95	92.85	8.24	0.29	93.10
16MW-27	3/31/03	100.80	7.25	93.55	7.32	0.07	93.61
16MW-27	4/29/03	100.80	7.10	93.70	7.15	0.05	93.74
16MW-27	5/23/03	100.80	7.46	93.34	7.56	0.10	93.43
16MW-27	6/26/03	100.80	6.51	94.29	6.61	0.10	94.38
16MW-27	8/1/03	100.80	8.16	92.64	8.41	0.25	92.85
16MW-27	8/26/03	100.80	8.10	92.70	8.19	0.09	92.77
16MW-27	9/17/03	100.80	7.94	92.86	7.96	0.02	92.88
16MW-27	10/28/03	100.80	8.25	92.55	8.36	0.11	92.65
16MW-27	12/30/03	100.80	7.00	93.80	7.06	0.06	93.85
16MW-27	1/16/04	100.80	7.64	93.16	7.79	0.15	93.29
16MW-27	2/18/04	100.80	7.25	93.55	7.26	0.01	93.56
16MW-27	4/5/04	100.80	7.18	93.62	6.75	0.43	93.99
16MW-27	5/5/04	100.80	7.50	93.30	6.39	1.11	94.25
16MW-27	6/29/04	100.80	8.08	92.72	7.76	0.32	92.99
16MW-27	7/27/04	100.80	7.60	93.20	7.50	0.10	93.29
16MW-27	8/18/04	100.80	8.23	92.57	7.92	0.31	92.83
16MW-27	9/1/04	100.80	8.30	92.50	8.30	0.00	92.50
16MW-27	10/19/04	100.80	8.81	91.99	8.10	0.71	92.59
16MW-27	11/23/04	100.80	8.54	92.26	7.93	0.61	92.78
16MW-28	3/27/01	100.62	7.46	93.16	-	0.00	93.16
16MW-28	4/19/01	100.62	7.85	92.77	7.86	0.01	92.78
16MW-28	5/11/01	100.62	7.16	93.46	7.82	0.66	94.02
16MW-28	6/6/01	100.62	7.28	93.34	-	0.00	93.34
16MW-28	8/14/01	100.62	8.27	92.35	-	0.00	92.35
16MW-28	9/14/01	100.62	8.62	92.00	-	0.00	92.00
16MW-28	10/11/01	100.62	8.81	91.81	-	0.00	91.81
16MW-28	11/13/01	100.62	8.94	91.68	-	0.00	91.68
16MW-28	12/13/01	100.62	8.87	91.75	-	0.00	91.75
16MW-28	1/8/02	100.62	9.00	91.62	-	0.00	91.62
16MW-28	1/23/02	100.62	8.84	91.78	-	0.00	91.78
16MW-28	2/28/02	100.62	9.01	91.61	-	0.00	91.61
16MW-28	3/28/02	100.62	8.30	92.32	-	0.00	92.32
16MW-28	4/23/02	100.62	8.56	92.06	-	0.00	92.06
16MW-28	5/15/02	100.62	8.29	92.33	-	0.00	92.33
16MW-28	6/8/02	100.62	8.55	92.07	-	0.00	92.07
16MW-28	7/16/02	100.62	9.11	91.51	-	0.00	91.51
16MW-28	8/15/02	100.62	9.48	91.14	-	0.00	91.14
16MW-28	9/10/02	100.62	8.75	91.87	-	0.00	91.87
16MW-28	10/18/02	100.62	7.80	92.82	-	0.00	92.82
16MW-28	11/14/02	100.62	7.85	92.77	-	0.00	92.77
16MW-28	11/26/02	100.62	7.60	93.02	-	0.00	93.02
16MW-28	12/16/02	100.62	7.30	93.32	-	0.00	93.32
16MW-28	1/28/03	100.62	7.40	93.22	-	0.00	93.22
16MW-28	2/26/03	100.62	7.00	93.62	-	0.00	93.62
16MW-28	3/31/03	100.62	6.85	93.77	-	0.00	93.77

APPENDIX B
NAVAL WEAPONS STATION EARLE
BIOSLURPER UNITS
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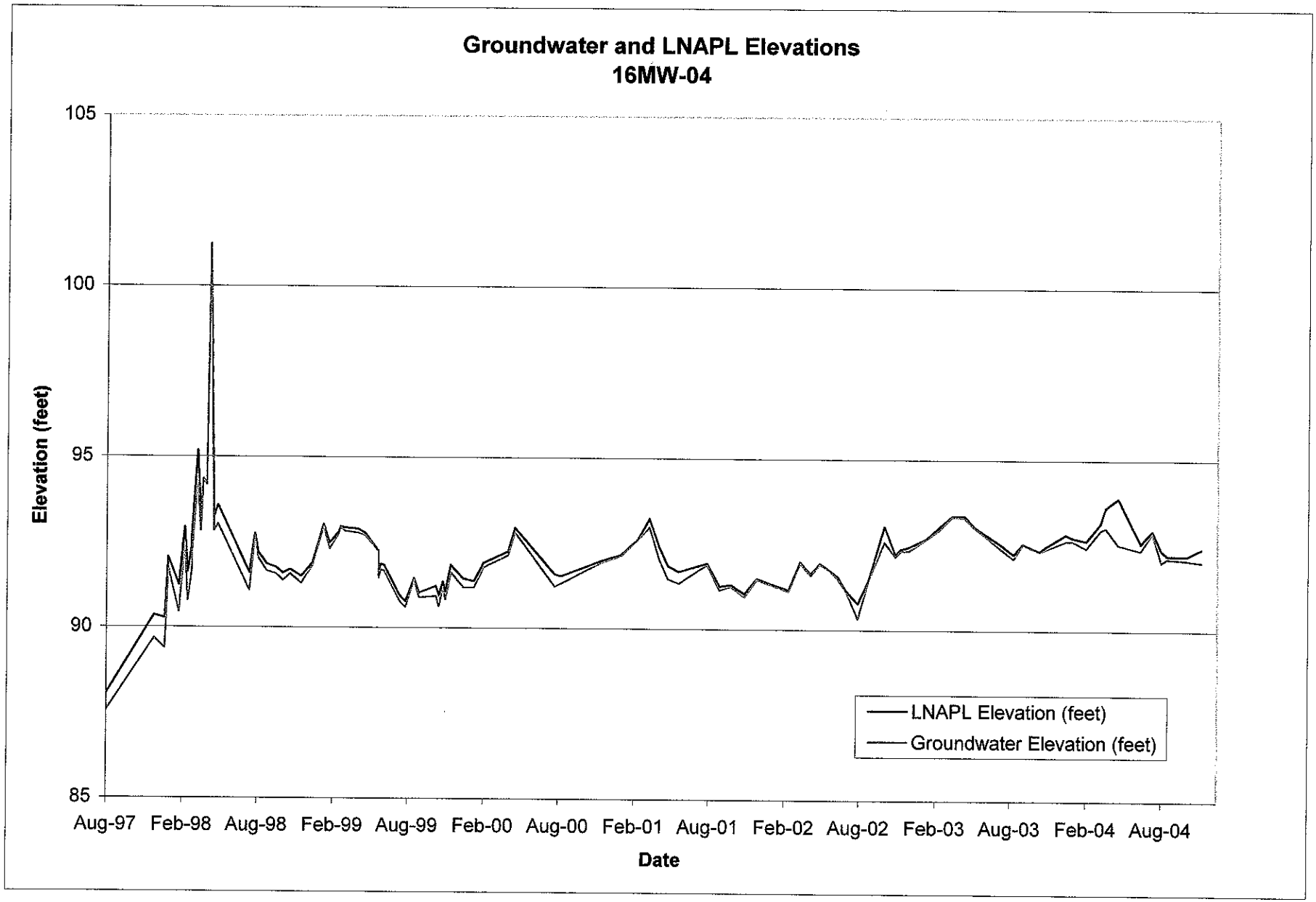
Well ID	Date	Top of Casing (feet)	Depth to Water (feet)	Groundwater Elevation (feet)	Depth to LNAPL (feet)	LNAPL Thickness (feet)	Corrected Elevation (feet)
16MW-28	4/29/03	100.62	6.65	93.97	-	0.00	93.97
16MW-28	5/23/03	100.62	7.25	93.37	-	0.00	93.37
16MW-28	9/17/03	100.62	7.78	92.84	-	0.00	92.84
16MW-28	12/30/03	100.62	6.78	93.84	-	0.00	93.84
16MW-28	2/18/04	100.62	7.00	93.62	-	0.00	93.62
16MW-28	3/24/04	100.62	6.76	93.86	-	0.00	93.86
16MW-28	4/5/04	100.62	6.02	94.60	-	0.00	94.60
16MW-28	5/5/04	100.62	6.20	94.42	-	0.00	94.42
16MW-28	6/29/04	100.62	7.67	92.95	-	0.00	92.95
16MW-28	7/27/04	100.62	7.50	93.12	-	0.00	93.12
16MW-28	8/18/04	100.62	7.05	93.57	-	0.00	93.57
16MW-28	9/1/04	100.62	8.10	92.52	-	0.00	92.52
16MW-28	11/23/04	100.62	7.88	92.74	-	0.00	92.74
C17MW-07	10/6/97	100.16	12.03	88.13	13.31	1.28	89.22
C17MW-07	12/12/97	100.16	11.69	88.47	12.95	1.26	89.54
C17MW-07	1/7/98	100.16	11.78	88.38	13.20	1.42	89.59
C17MW-07	1/15/98	100.16	7.95	92.21	8.27	0.32	92.48
C17MW-07	2/10/98	100.16	9.05	91.11	9.89	0.84	91.82
C17MW-07	2/24/98	100.16	6.00	94.16	6.15	0.15	94.29
C17MW-07	3/3/98	100.16	5.89	94.27	6.38	0.49	94.69
C17MW-07	3/12/98	100.16	5.99	94.17	6.17	0.18	94.32
C17MW-07	3/13/98	100.16	5.96	94.20	6.10	0.14	94.32
C17MW-07	3/26/98	100.16	5.35	94.81	5.36	0.01	94.82
C17MW-07	4/3/98	100.16	5.90	94.26	5.99	0.09	94.34
C17MW-07	4/9/98	100.16	6.02	94.14	6.10	0.08	94.21
C17MW-07	4/17/98	100.16	5.99	94.17	6.11	0.12	94.27
C17MW-07	4/24/98	100.16	5.90	94.26	6.03	0.13	94.37
C17MW-07	5/5/98	100.16	6.50	93.66	6.78	0.28	93.94
C17MW-07	5/15/98	100.16	5.50	94.66	5.72	0.22	94.85
C17MW-07	7/30/98	100.16	10.61	89.55	11.73	1.12	90.50
C17MW-07	8/7/98	100.16	7.80	92.36	8.05	0.25	92.57
C17MW-07	8/13/98	100.16	7.61	92.55	7.72	0.11	92.65
C17MW-07	8/21/98	100.16	7.27	92.89	7.39	0.11	92.98
C17MW-07	9/3/98	100.16	7.76	92.40	7.91	0.15	92.53
C17MW-07	9/10/98	100.16	7.42	92.75	7.50	0.09	92.82
C17MW-07	10/2/98	100.16	8.16	92.00	8.37	0.21	92.17
C17MW-07	10/20/98	100.16	7.88	92.28	7.98	0.10	92.37
C17MW-07	12/3/98	100.16	7.96	92.20	8.04	0.08	92.27
C17MW-07	12/30/98	100.16	8.03	92.13	8.15	0.12	92.23
C17MW-07	1/26/99	100.16	6.65	93.51	6.75	0.10	93.59
C17MW-07	2/10/99	100.16	7.20	92.96	7.37	0.17	93.11
C17MW-07	3/9/99	100.16	6.95	93.21	7.06	0.11	93.31
C17MW-07	3/19/99	100.16	6.46	93.70	6.54	0.08	93.77
C17MW-07	4/20/99	100.16	6.92	93.24	7.03	0.11	93.33
C17MW-07	5/7/99	100.16	7.00	93.16	7.08	0.08	93.22
C17MW-07	6/1/99	100.16	7.61	92.55	7.75	0.14	92.67
C17MW-07	6/9/99	100.16	7.20	92.96	-	0.00	92.96
C17MW-07	6/9/99	100.16	8.39	91.77	8.67	0.28	92.00

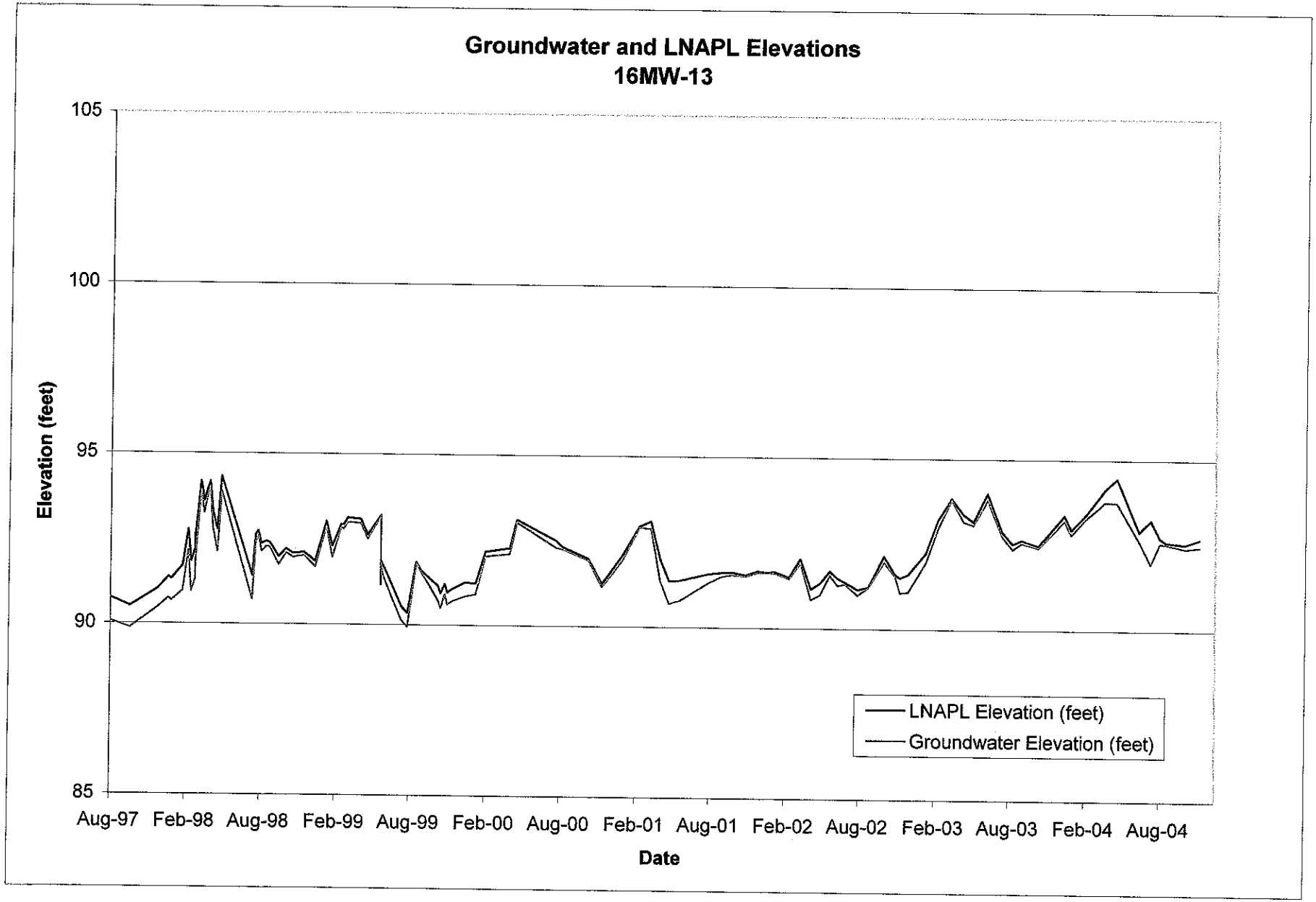
APPENDIX B
NAVAL WEAPONS STATION EARLE
BIOSLURPER UNITS
GROUNDWATER LEVEL AND LNAPL THICKNESS DATA

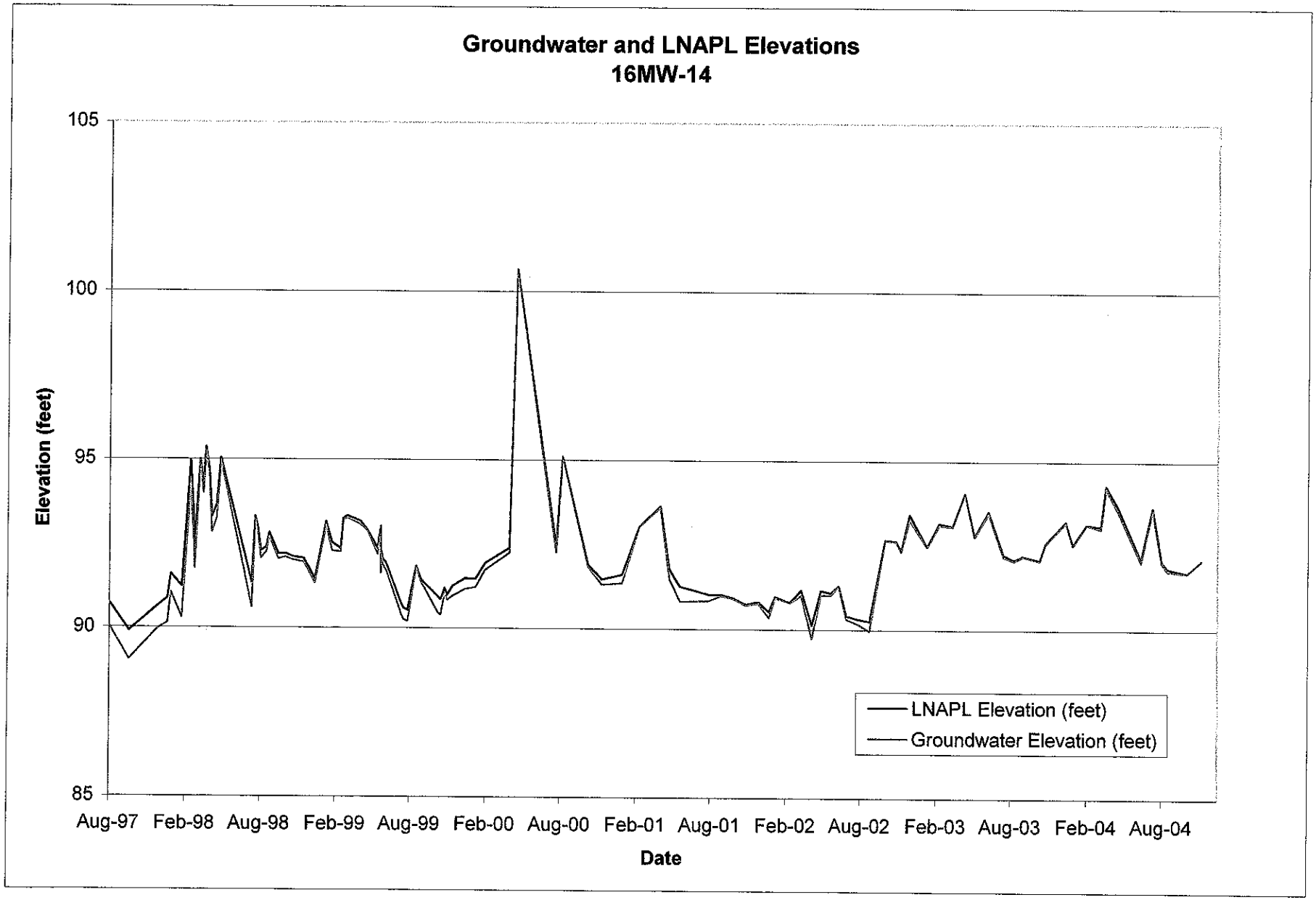
Well ID	Date	Top of Casing (feet)	Depth to Water (feet)	Groundwater Elevation (feet)	Depth to LNAPL (feet)	LNAPL Thickness (feet)	Corrected Elevation (feet)
C17MW-07	6/10/99	100.16	7.93	92.23	8.06	0.13	92.34
C17MW-07	6/14/99	100.16	8.25	91.91	8.47	0.22	92.10
C17MW-07	6/22/99	100.16	8.55	91.61	8.87	0.32	91.88
C17MW-07	7/29/99	100.16	10.40	89.76	11.00	0.60	90.27
C17MW-07	8/3/99	100.16	10.62	89.54	11.25	0.63	90.08
C17MW-07	8/13/99	100.16	10.96	89.20	11.66	0.70	89.80
C17MW-07	9/3/99	100.16	8.37	91.79	8.41	0.04	91.83
C17MW-07	9/15/99	100.16	9.37	90.79	9.66	0.29	90.81
C17MW-07	10/26/99	100.16	11.04	89.12	12.06	1.02	89.99
C17MW-07	11/2/99	100.16	10.99	89.17	11.92	0.93	89.96
C17MW-07	11/18/99	100.16	8.56	91.60	8.73	0.17	91.74
C17MW-07	12/1/99	100.16	8.45	91.71	8.64	0.19	91.87
C17MW-07	12/31/99	100.16	8.30	91.86	8.52	0.22	92.05
C17MW-07	1/26/00	100.16	8.20	91.96	8.32	0.12	92.06
C17MW-07	2/18/00	100.16	7.47	92.69	7.50	0.03	92.72
C17MW-07	4/17/00	100.16	7.38	92.78	7.46	0.08	92.85
C17MW-07	5/4/00	100.16	7.92	92.24	7.98	0.06	92.29
C17MW-07	8/9/00	100.16	7.07	93.09	7.13	0.06	93.14
C17MW-07	8/24/00	100.16	7.50	92.66	7.52	0.02	92.68
C17MW-07	10/26/00	100.16	8.08	92.08	8.14	0.06	92.13
C17MW-07	11/28/00	100.16	8.00	92.16	8.16	0.16	92.29
C17MW-07	1/16/01	100.16	8.10	92.06	8.30	0.20	92.23
C17MW-07	2/27/01	100.16	6.42	93.74	6.43	0.01	93.74
C17MW-07	3/27/01	100.16	6.25	93.91	6.29	0.04	93.95
C17MW-07	4/19/01	100.16	6.44	93.72	6.58	0.14	93.84
C17MW-07	5/11/01	100.16	7.19	92.97	7.34	0.15	93.10
C17MW-07	6/6/01	100.16	7.57	92.59	7.76	0.19	92.75
C17MW-07	8/14/01	100.16	8.96	91.20	9.33	0.37	91.52
C17MW-07	9/14/01	100.16	8.76	91.40	8.94	0.18	91.55
C17MW-07	10/11/01	100.16	8.36	91.80	8.40	0.04	91.83
C17MW-07	11/13/01	100.16	8.91	91.25	9.06	0.15	91.38
C17MW-07	12/13/01	100.16	8.93	91.23	9.14	0.21	91.40
C17MW-07	1/8/02	100.16	9.38	90.78	9.76	0.38	91.11
C17MW-07	1/23/02	100.16	9.70	90.46	10.17	0.47	90.86
C17MW-07	2/28/02	100.16	9.21	90.95	9.47	0.26	91.17
C17MW-07	3/28/02	100.16	8.30	91.86	8.68	0.38	92.18
C17MW-07	4/23/02	100.16	8.70	91.46	8.98	0.28	91.70
C17MW-07	5/15/02	100.16	8.50	91.66	8.84	0.34	91.95
C17MW-07	6/8/02	100.16	8.80	91.36	9.14	0.34	91.65
C17MW-07	6/27/02	100.16	8.80	91.36	9.15	0.35	91.66
C17MW-07	7/16/02	100.16	8.65	91.51	8.68	0.03	91.53
C17MW-07	8/15/02	100.16	9.53	90.63	10.23	0.70	91.23
C17MW-07	9/10/02	100.16	8.10	92.06	8.14	0.04	92.10
C17MW-07	10/18/02	100.16	7.18	92.98	7.22	0.04	93.02
C17MW-07	11/14/02	100.16	7.60	92.56	7.70	0.10	92.65
C17MW-07	11/26/02	100.16	7.12	93.04	7.16	0.04	93.08
C17MW-07	12/16/02	100.16	6.55	93.61	6.58	0.03	93.63
C17MW-07	1/28/03	100.16	7.75	92.41	8.05	0.30	92.67
C17MW-07	2/26/03	100.16	6.33	93.83	6.35	0.02	93.85

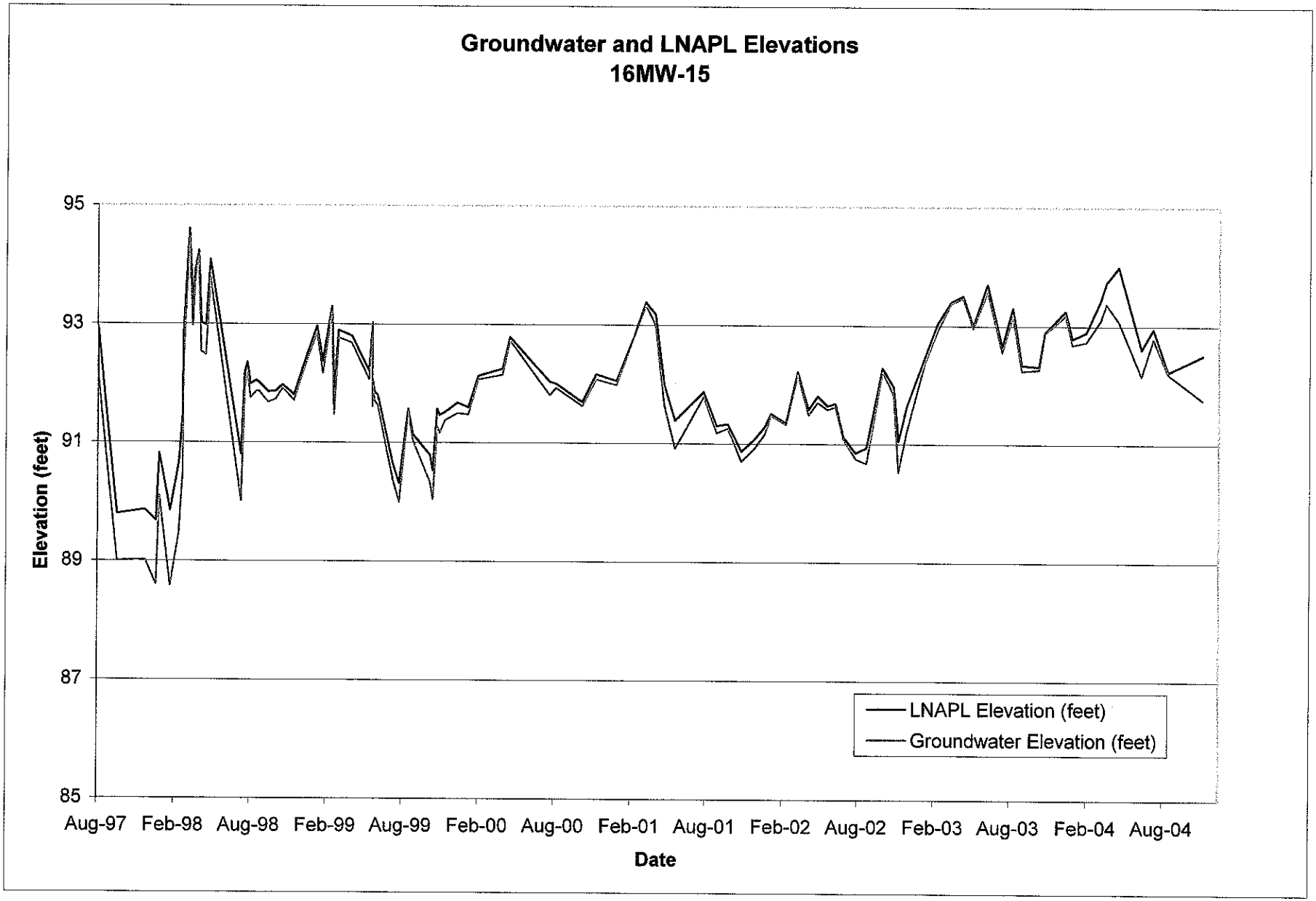
APPENDIX B
NAVAL WEAPONS STATION EARLE
BIOSLURPER UNITS
GROUNDWATER LEVEL AND LNAPL THICKNESS DATA

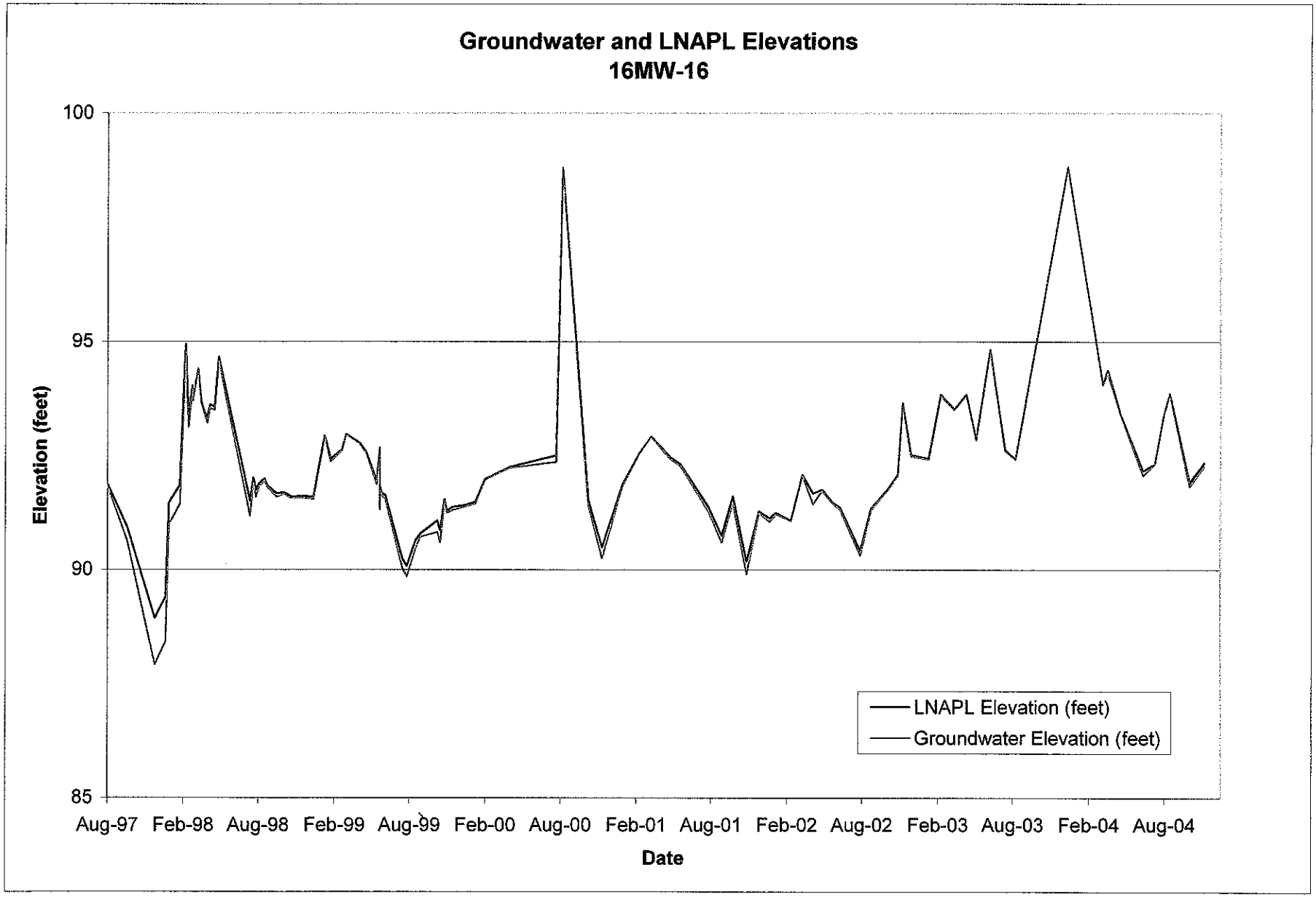
Well ID	Date	Top of Casing (feet)	Depth to Water (feet)	Groundwater Elevation (feet)	Depth to LNAPL (feet)	LNAPL Thickness (feet)	Corrected Elevation (feet)
C17MW-07	3/31/03	100.16	6.03	94.13	6.04	0.01	94.13
C17MW-07	4/29/03	100.16	5.80	94.36	5.81	0.01	94.36
C17MW-07	5/23/03	100.16	6.47	93.69	6.49	0.02	93.70
C17MW-07	6/26/03	100.16	5.20	94.96	5.22	0.02	94.97
C17MW-07	8/1/03	100.16	6.52	93.64	6.54	0.02	93.66
C17MW-07	8/26/03	100.16	6.73	93.43	6.76	0.03	93.45
C17MW-07	9/17/03	100.16	6.71	93.45	6.72	0.01	93.46
C17MW-07	10/28/03	100.16	7.20	92.96	7.23	0.03	92.98
C17MW-07	12/30/03	100.16	5.32	94.84	5.33	0.01	94.85
C17MW-07	2/18/04	100.16	6.03	94.13	6.04	0.01	94.14
C17MW-07	3/24/04	100.16	5.66	94.50	5.61	0.05	94.54
C17MW-07	4/5/04	100.16	5.42	94.74	5.38	0.04	94.77
C17MW-07	5/5/04	100.16	5.12	95.04	-	0.00	95.04
C17MW-07	6/29/04	100.16	7.58	92.58	7.51	0.07	92.64
C17MW-07	7/27/04	100.16	6.95	93.21	6.90	0.05	93.25
C17MW-07	8/18/04	100.16	7.60	92.56	7.40	0.20	92.73
C17MW-07	9/1/04	100.16	7.89	92.27	-	0.00	92.27
C17MW-07	10/19/04	100.16	7.58	92.58	7.50	0.08	92.65
C17MW-07	11/23/04	100.16	7.69	92.47	7.23	0.46	92.86

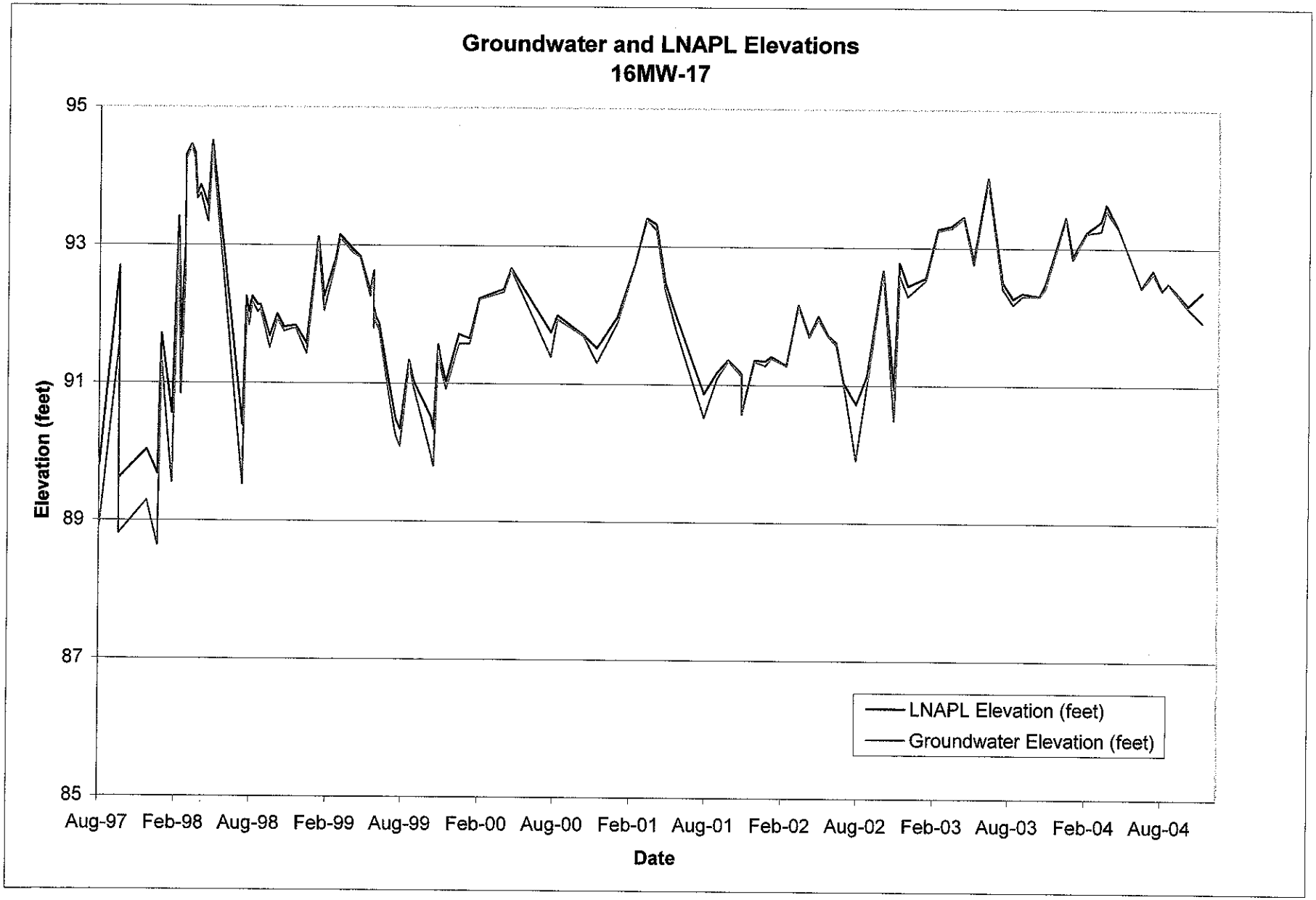

Groundwater and LNAPL Elevations
16MW-04
105
100
95
90
85
Elevation (feet)
Aug-97
Feb-98
Aug-98
Feb-99
Aug-99
Feb-00
Aug-00
Feb-01
Aug-01
Feb-02
Aug-02
Feb-03
Aug-03
Feb-04
Aug-04
Date
LNAPL Elevation (feet)
Groundwater Elevation (feet)

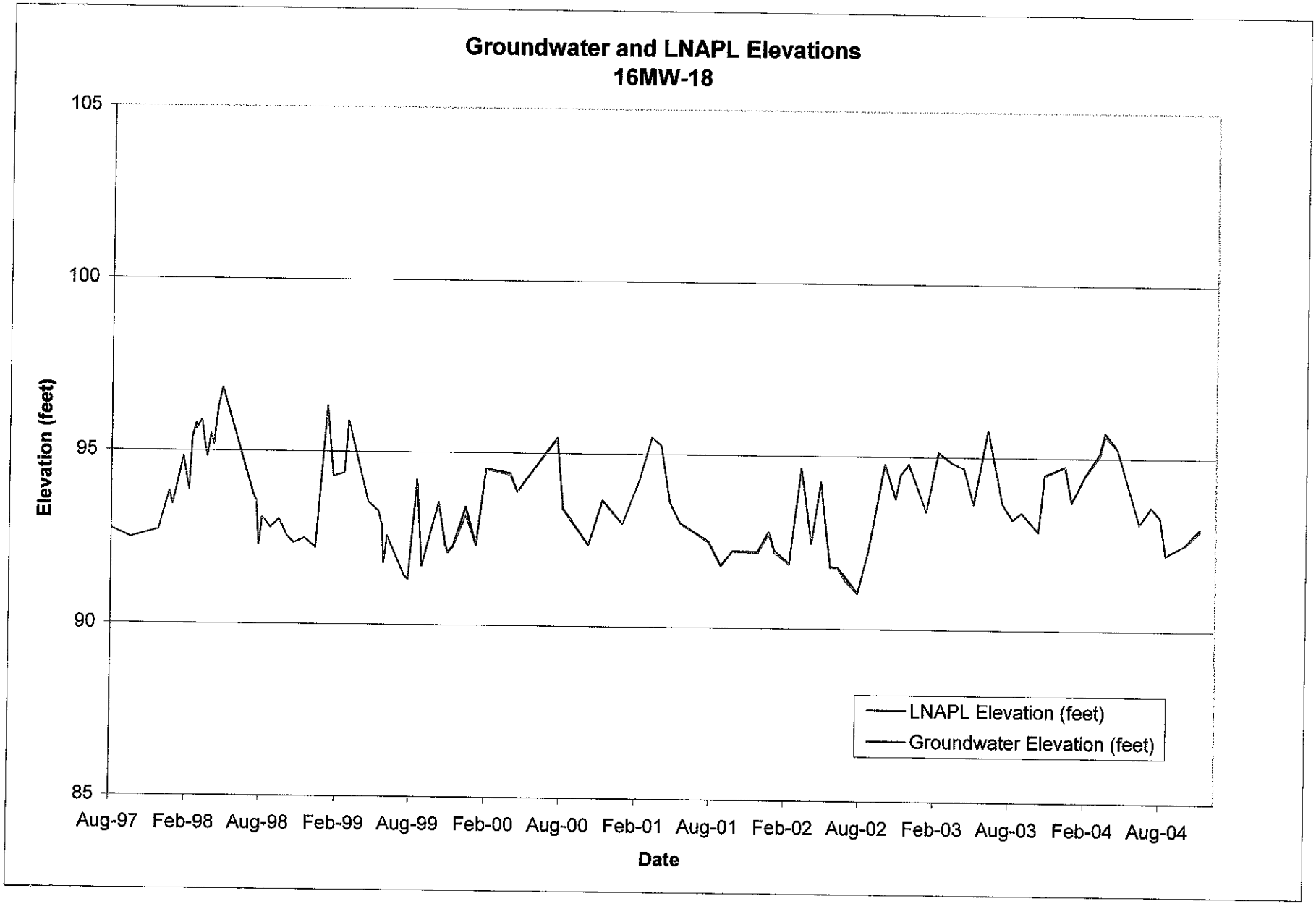

Groundwater and LNAPL Elevations
16MW-13
105
100
95
90
85
Elevation (feet)
Aug-97
Feb-98
Aug-98
Feb-99
Aug-99
Feb-00
Aug-00
Feb-01
Aug-01
Feb-02
Aug-02
Feb-03
Aug-03
Feb-04
Aug-04
Date
LNAPL Elevation (feet)
Groundwater Elevation (feet)

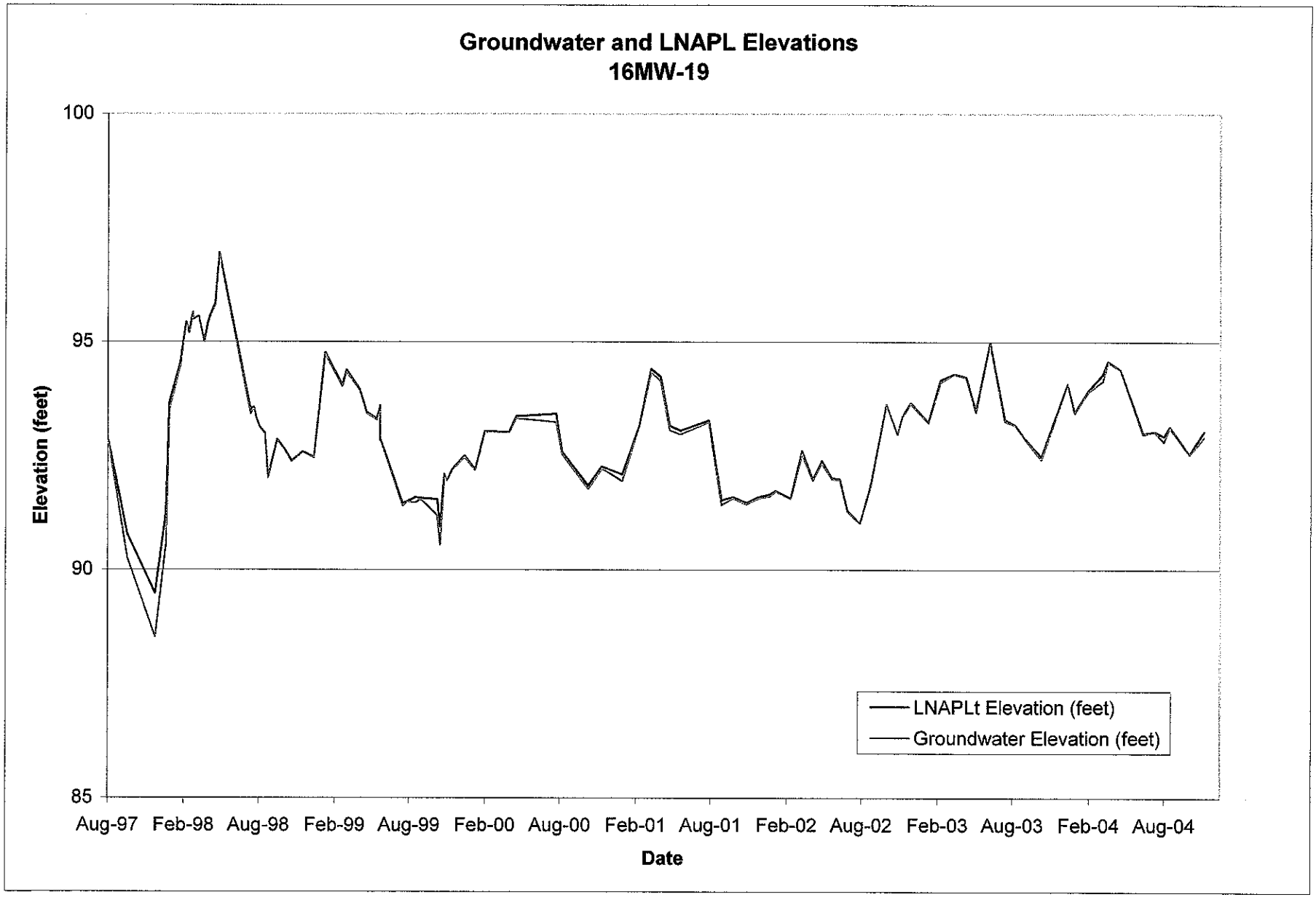

Groundwater and LNAPL Elevations
16MW-14
105
100
95
90
85
Elevation (feet)
Aug-97
Feb-98
Aug-98
Feb-99
Aug-99
Feb-00
Aug-00
Feb-01
Aug-01
Feb-02
Aug-02
Feb-03
Aug-03
Feb-04
Aug-04
Date
LNAPL Elevation (feet)
Groundwater Elevation (feet)

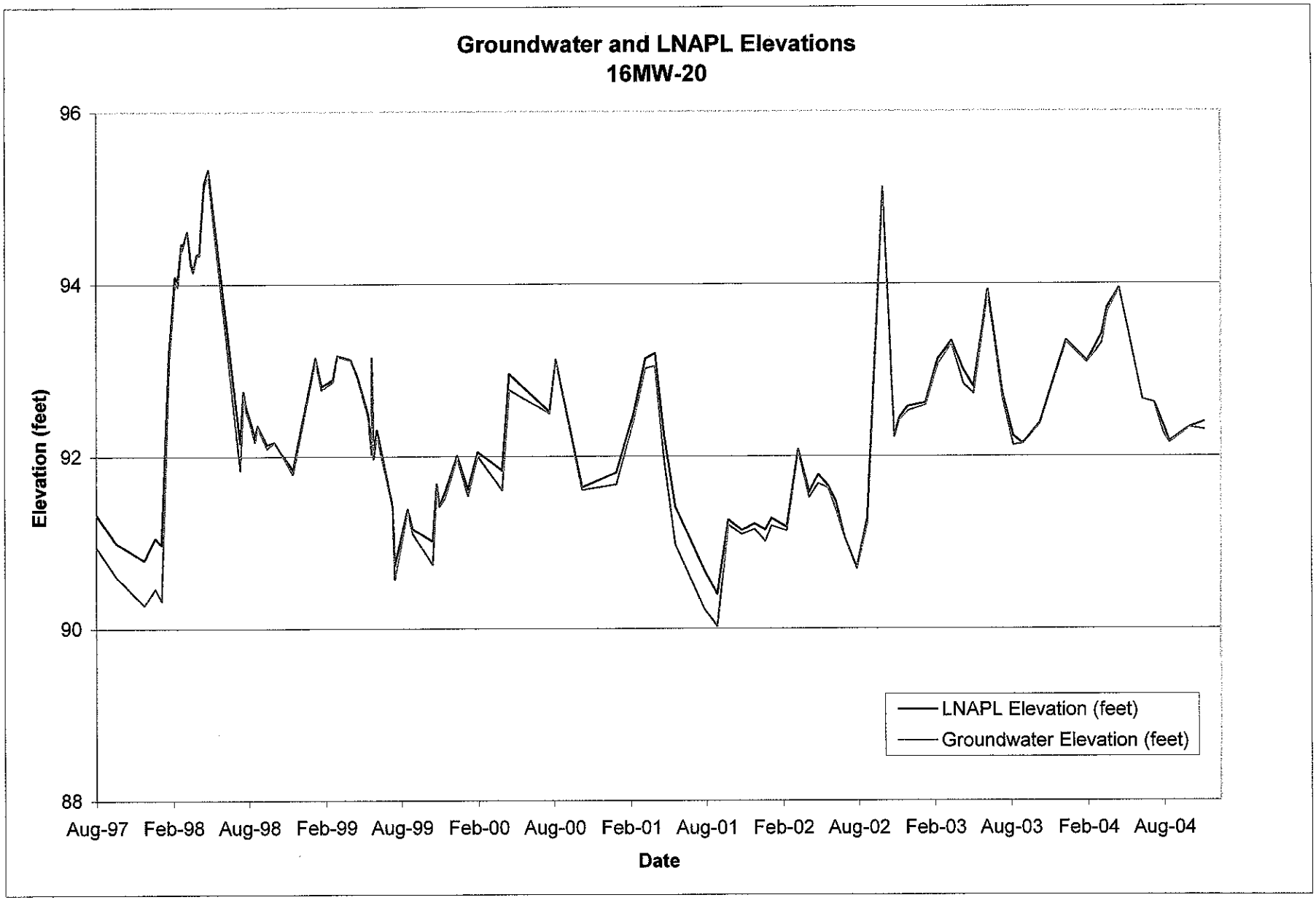

Groundwater and LNAPL Elevations
16MW-15
95
93
91
89
87
85
Elevation (feet)
Aug-97
Feb-98
Aug-98
Feb-99
Aug-99
Feb-00
Aug-00
Feb-01
Aug-01
Feb-02
Aug-02
Feb-03
Aug-03
Feb-04
Aug-04
Date
LNAPL Elevation (feet)
Groundwater Elevation (feet)

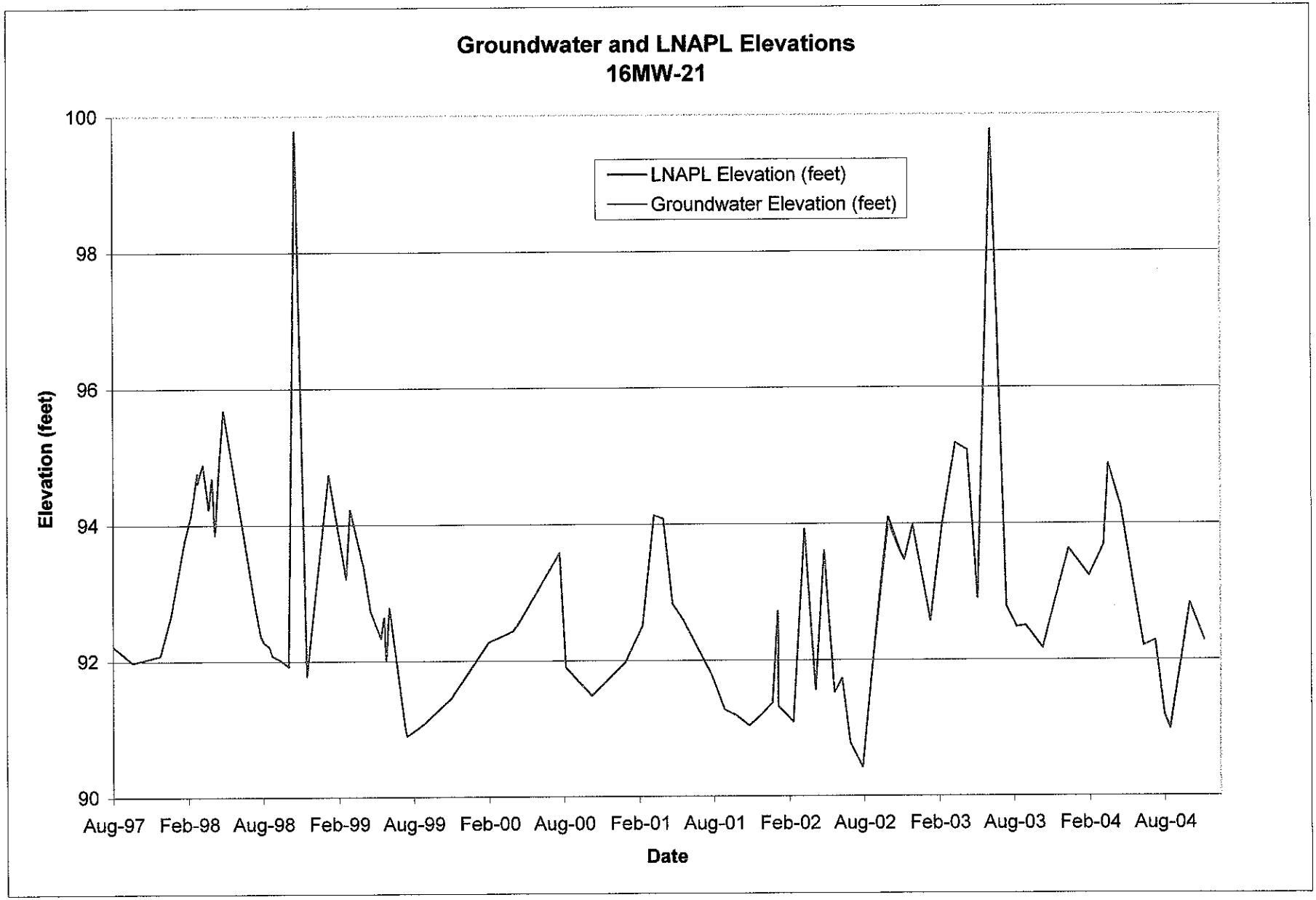

Groundwater and LNAPL Elevations
16MW-16
100
95
90
85
Elevation (feet)
Aug-97
Feb-98
Aug-98
Feb-99
Aug-99
Feb-00
Aug-00
Feb-01
Aug-01
Feb-02
Aug-02
Feb-03
Aug-03
Feb-04
Aug-04
Date
LNAPL Elevation (feet)
Groundwater Elevation (feet)

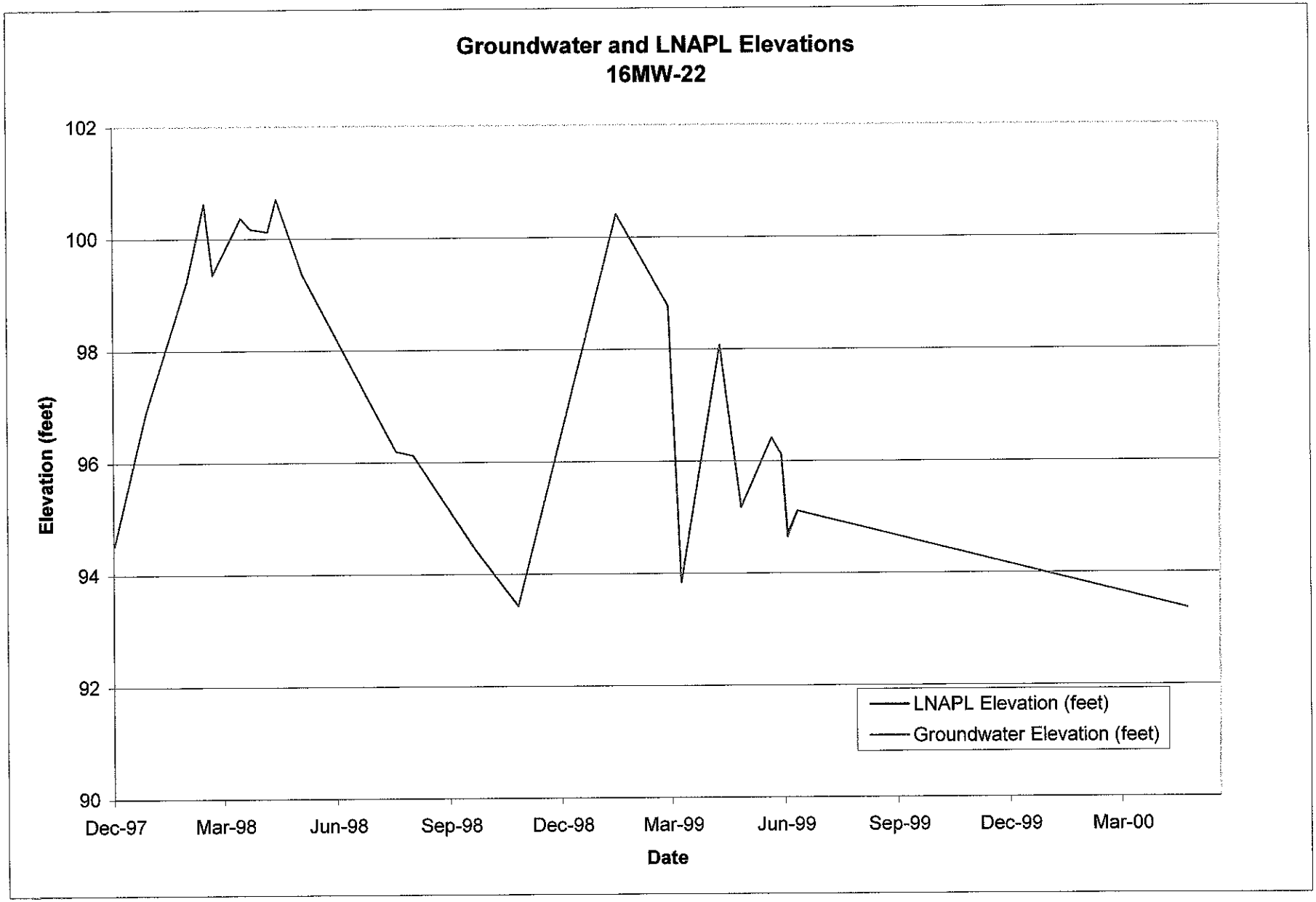

Groundwater and LNAPL Elevations
16MW-17
95
93
91
89
87
85
Elevation (feet)
Aug-97
Feb-98
Aug-98
Feb-99
Aug-99
Feb-00
Aug-00
Feb-01
Aug-01
Feb-02
Aug-02
Feb-03
Aug-03
Feb-04
Aug-04
Date
LNAPL Elevation (feet)
Groundwater Elevation (feet)

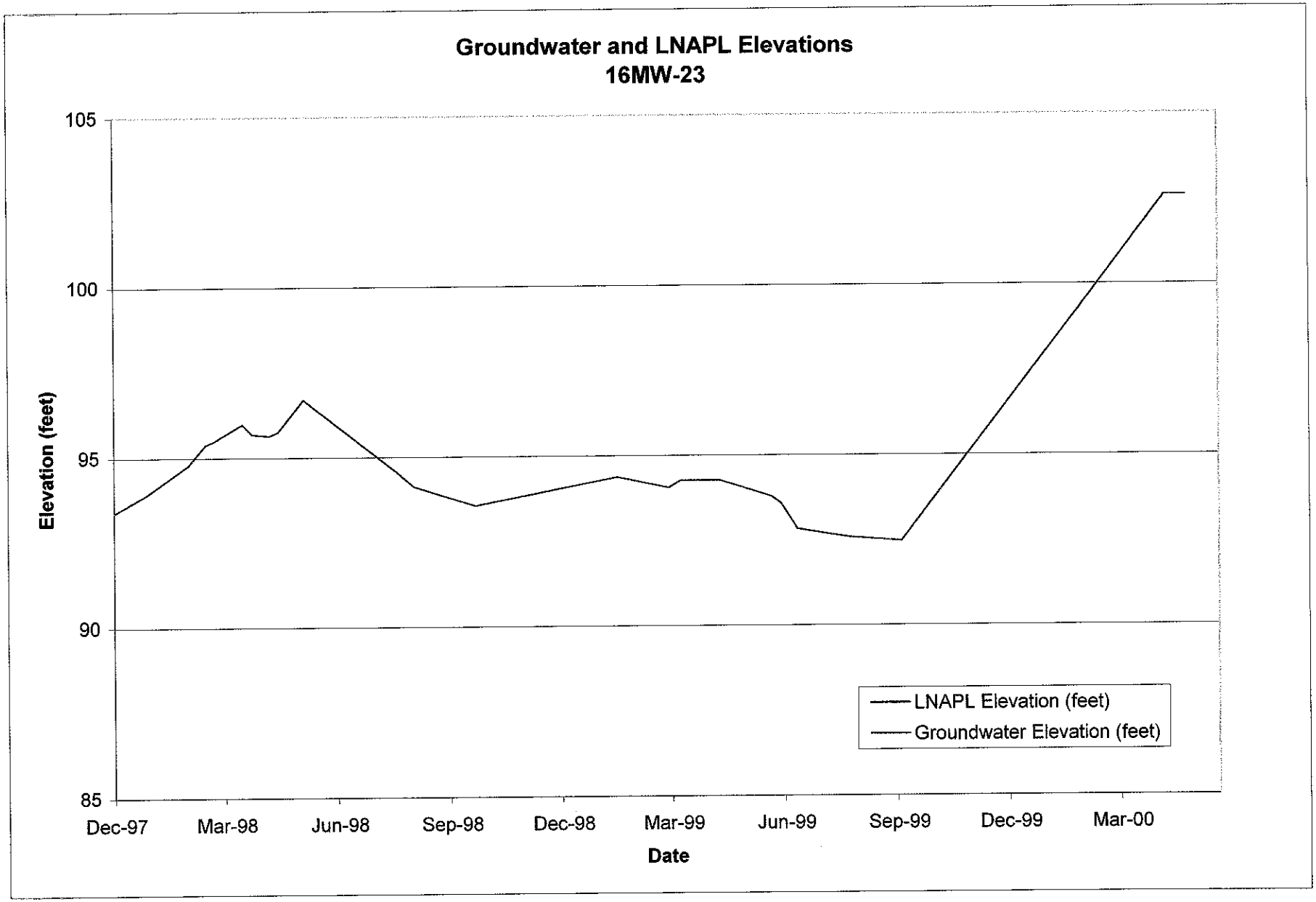

Groundwater and LNAPL Elevations
16MW-18
105
100
95
90
85
Elevation (feet)
Aug-97
Feb-98
Aug-98
Feb-99
Aug-99
Feb-00
Aug-00
Feb-01
Aug-01
Feb-02
Aug-02
Feb-03
Aug-03
Feb-04
Aug-04
Date
LNAPL Elevation (feet)
Groundwater Elevation (feet)

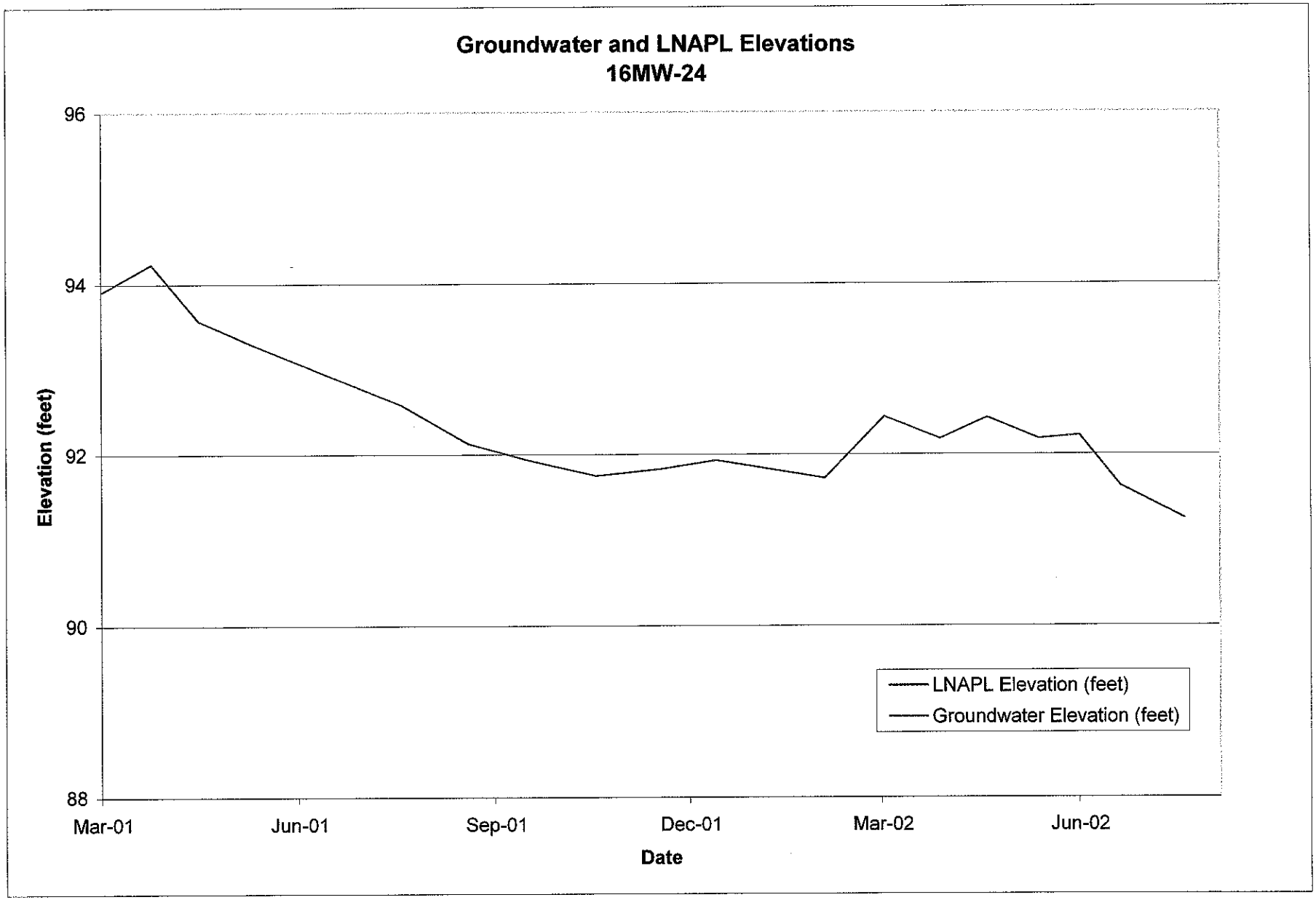

Groundwater and LNAPL Elevations
16MW-19
100
95
90
85
Elevation (feet)
Aug-97
Feb-98
Aug-98
Feb-99
Aug-99
Feb-00
Aug-00
Feb-01
Aug-01
Feb-02
Aug-02
Feb-03
Aug-03
Feb-04
Aug-04
Date
LNAPLt Elevation (feet)
Groundwater Elevation (feet)

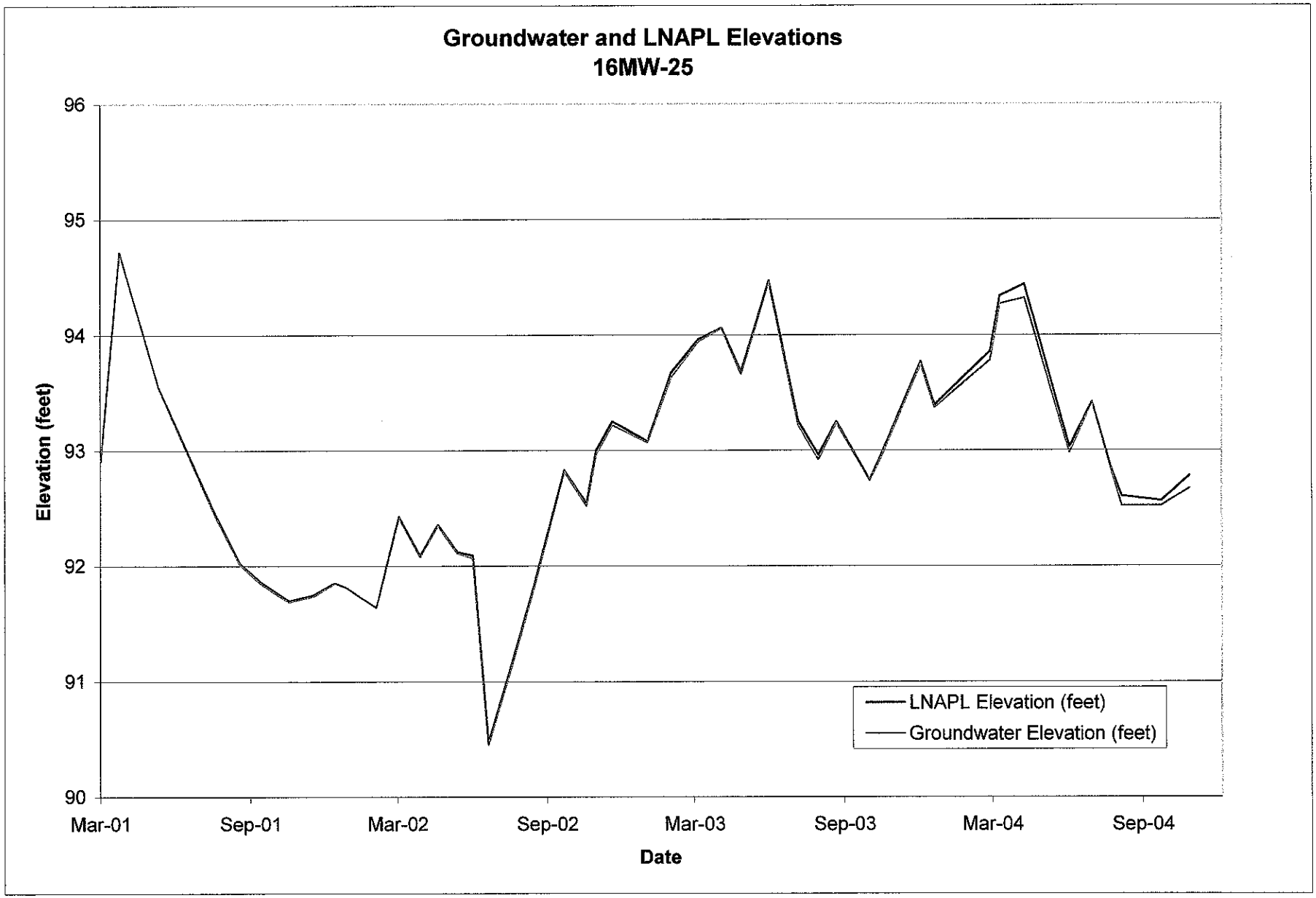

Groundwater and LNAPL Elevations
16MW-20
96
94
92
90
88
Elevation (feet)
Aug-97
Feb-98
Aug-98
Feb-99
Aug-99
Feb-00
Aug-00
Feb-01
Aug-01
Feb-02
Aug-02
Feb-03
Aug-03
Feb-04
Aug-04
Date
LNAPL Elevation (feet)
Groundwater Elevation (feet)

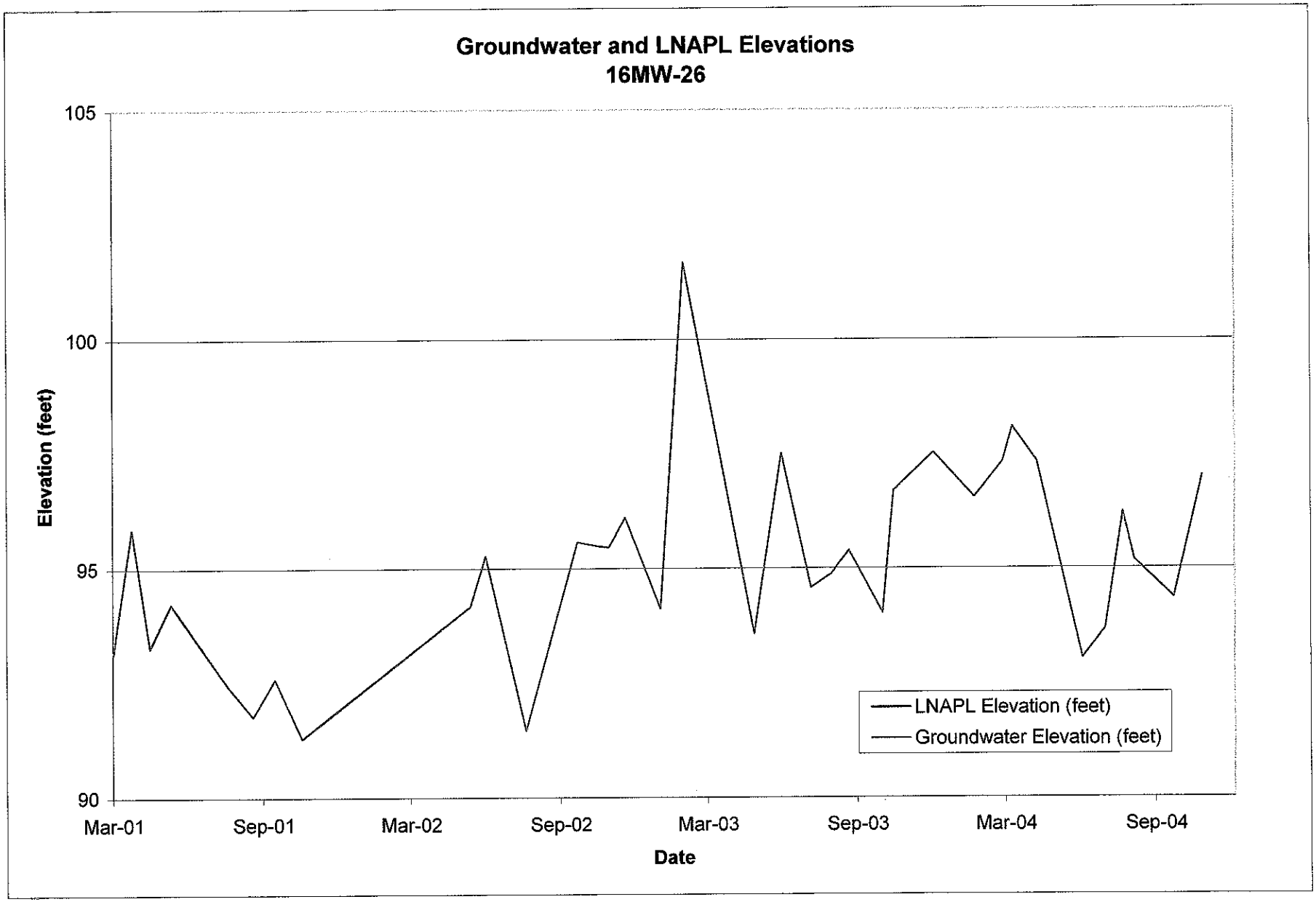

Groundwater and LNAPL Elevations
16MW-21
LNAPL Elevation (feet)
Groundwater Elevation (feet)
Elevation (feet)
100
98
96
94
92
90
Aug-97
Feb-98
Aug-98
Feb-99
Aug-99
Feb-00
Aug-00
Feb-01
Aug-01
Feb-02
Aug-02
Feb-03
Aug-03
Feb-04
Aug-04
Date

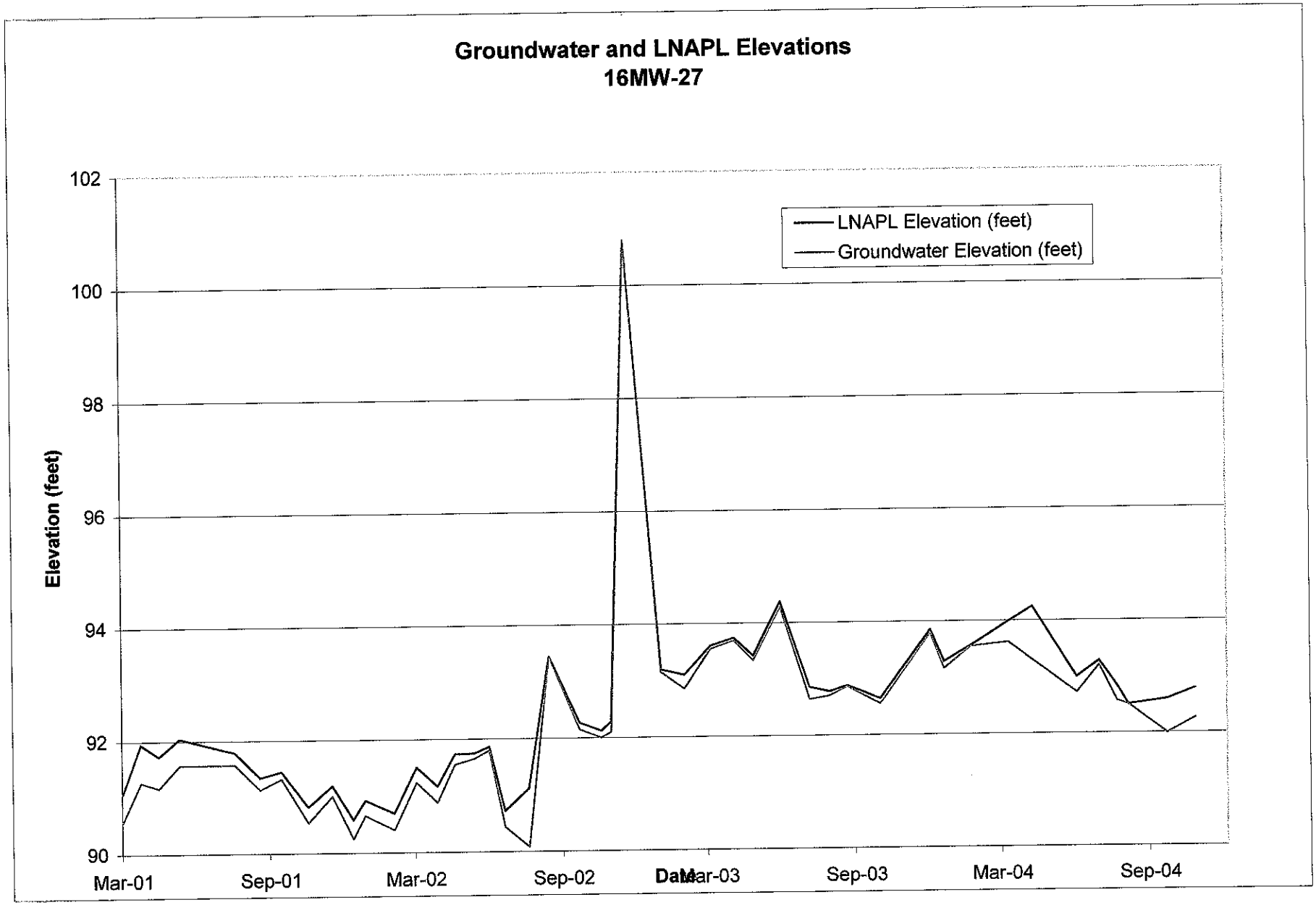

Groundwater and LNAPL Elevations
16MW-22
Elevation (feet)
102
100
98
96
94
92
90
Dec-97
Mar-98
Jun-98
Sep-98
Dec-98
Mar-99
Jun-99
Sep-99
Dec-99
Mar-00
Date
LNAPL Elevation (feet)
Groundwater Elevation (feet)

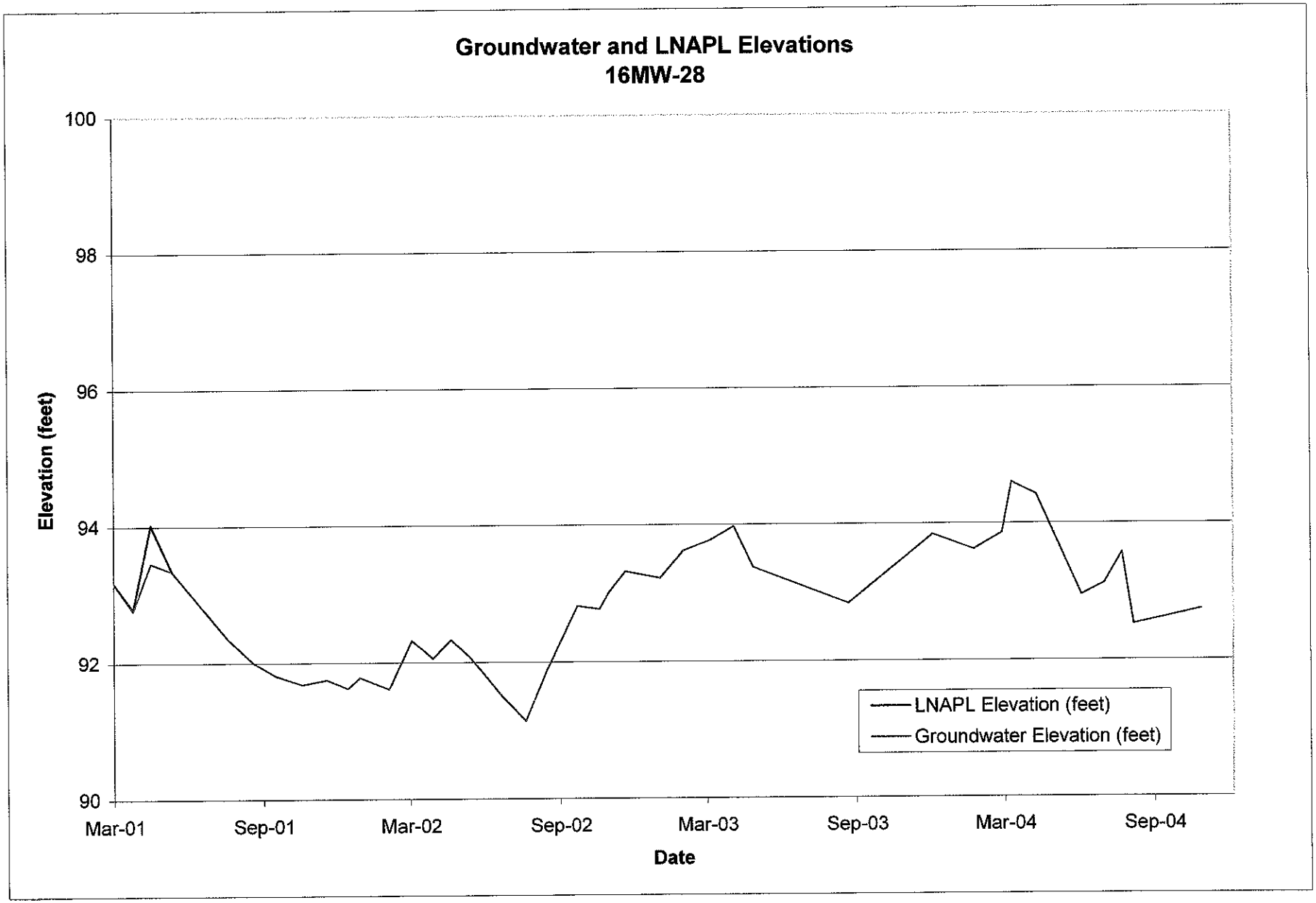

Groundwater and LNAPL Elevations
16MW-23
105
100
95
90
85
Elevation (feet)
Dec-97
Mar-98
Jun-98
Sep-98
Dec-98
Mar-99
Jun-99
Sep-99
Dec-99
Mar-00
Date
LNAPL Elevation (feet)
Groundwater Elevation (feet)

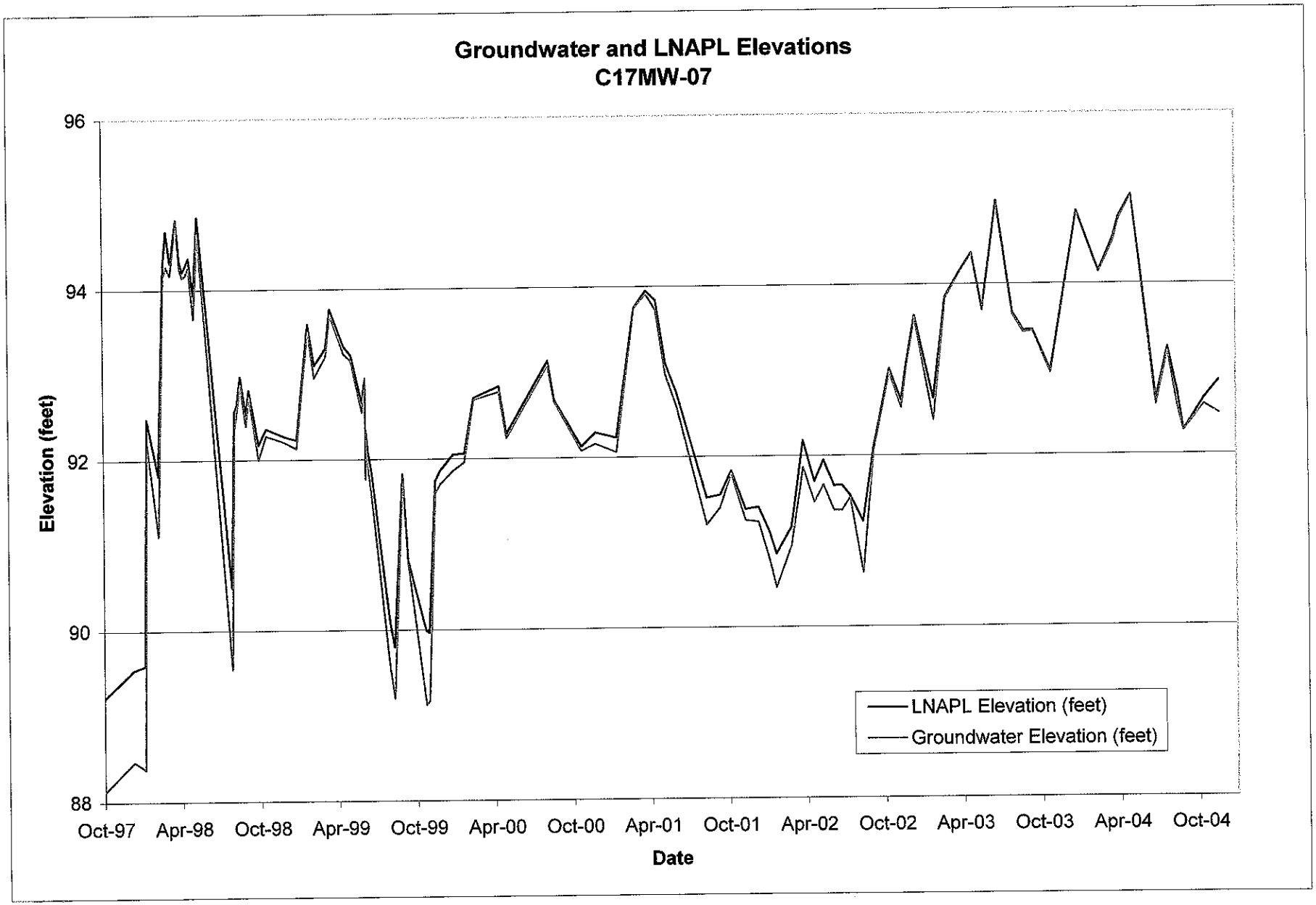

Groundwater and LNAPL Elevations
16MW-24
96
94
92
90
88
Elevation (feet)
Mar-01
Jun-01
Sep-01
Dec-01
Mar-02
Jun-02
Date
LNAPL Elevation (feet)
Groundwater Elevation (feet)


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


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


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
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
Date
LNAPL Elevation (feet)
Groundwater Elevation (feet)


Groundwater and LNAPL Elevations
C17MW-07
96
94
92
90
88
Elevation (feet)
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
Date
LNAPL Elevation (feet)
Groundwater Elevation (feet)

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

APPENDIX C

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

Bioslurper Unit #1

SAMPLE NO. BS #1 Final Effluent **Sample Date:** September - Not Operated **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:		**0.00**	**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 RAC Contract No. N62472-03-D-0802
Naval Weapons Station-Earle: Bioslurper Unit No. 2
Analytical Results of Air Samples

Bioslurper Unit #2

SAMPLE NO. BS #2 Final Effluent Sample Date: 10/12/2004* 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	93.0	0.000	0.00E+00	
Bromomethane	94.9	384.6	60.0	93.0	0.000	0.00E+00	
Vinyl Chloride	62.5	384.6	60.0	93.0	0.000	0.00E+00	
Chloroethane	64.5	384.6	60.0	93.0	0.000	0.00E+00	
Freon 11	137.4	384.6	60.0	93.0	0.000	0.00E+00	
1,1-Dichloroethene	96.9	384.6	60.0	93.0	0.000	0.00E+00	
Freon 113	170.9	384.6	60.0	93.0	0.000	0.00E+00	
Methylene Chloride	84.9	384.6	60.0	93.0	0.000	0.00E+00	
1,1-Dichloroethane	99.0	384.6	60.0	93.0	0.000	0.00E+00	
trans-1,2-Dichloroethene	96.9	384.6	60.0	93.0	0.000	0.00E+00	
cis-1,2-Dichloroethene	96.9	384.6	60.0	93.0	0.000	0.00E+00	
Chloroform	119.4	384.6	60.0	93.0	0.000	0.00E+00	
1,1,1-Trichloroethane	133.4	384.6	60.0	93.0	0.000	0.00E+00	
Carbon Tetrachloride	153.8	384.6	60.0	93.0	0.000	0.00E+00	
Benzene	78.1	384.6	60.0	93.0	0.360	**4.08E-04**	**1.00E-02**
1,2-Dichloroethane	99.0	384.6	60.0	93.0	0.000	0.00E+00	
Trichloroethene	131.4	384.6	60.0	93.0	0.000	0.00E+00	
1,2-Dichloropropane	113.0	384.6	60.0	93.0	0.000	0.00E+00	
trans-1,3-Dichloropropene	111.0	384.6	60.0	93.0	0.000	0.00E+00	
Toluene	92.0	384.6	60.0	93.0	0.000	0.00E+00	
cis-1,3-Dichloropropene	111.0	384.6	60.0	93.0	0.000	0.00E+00	
1,1,2-Trichloroethane	133.4	384.6	60.0	93.0	0.000	0.00E+00	
Tetrachloroethene	165.8	384.6	60.0	93.0	0.000	0.00E+00	
Ethylene Dibromide	187.9	384.6	60.0	93.0	0.000	0.00E+00	
Chlorobenzene	112.6	384.6	60.0	93.0	0.000	0.00E+00	
Ethylbenzene	106.2	384.6	60.0	93.0	3.100	4.78E-03	
m,p-Xylenes	106.2	384.6	60.0	93.0	6.000	9.24E-03	
o-Xylene	106.2	384.6	60.0	93.0	0.950	1.46E-03	
Styrene	104.2	384.6	60.0	93.0	0.000	0.00E+00	
1,1,2,2-Tetrachlorethane	167.9	384.6	60.0	93.0	0.000	0.00E+00	
1,3,5-Trimethylbenzene	120.2	384.6	60.0	93.0	1.100	1.92E-03	
1,2,4-Trimethylbenzene	120.2	384.6	60.0	93.0	4.600	8.02E-03	
1,3-Dichlorobenzene	147.0	384.6	60.0	93.0	0.000	0.00E+00	
1,4-Dichlorobenzene	147.0	384.6	60.0	93.0	0.000	0.00E+00	
Chlorotoluene	126.6	384.6	60.0	93.0	0.000	0.00E+00	
1,2-Dichlorobenzene	147.0	384.6	60.0	93.0	0.000	0.00E+00	
Acetone	58.1	384.6	60.0	93.0	0.000	0.00E+00	
2-Butanone	72.1	384.6	60.0	93.0	0.000	0.00E+00	
4-methyl-2-pentanone	100.2	384.6	60.0	93.0	0.000	0.00E+00	
2-Hexanone	100.2	384.6	60.0	93.0	0.000	0.00E+00	
			Total Emissions:		**16.11**	**2.58E-02**	**5.00E-02**

* An air sample was inadvertently not collected during September. Therefore, two air samples were collected during October. The 12 October 2004 sample data is presented for September calculations.

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 RAC Contract No. N62472-03-D-0802
Naval Weapons Station-Earle: Bioslurper Unit No. 1
Analytical Results of Air Samples

Bioslurper Unit #1

SAMPLE NO. BS #1 Final Effluent Sample Date: October - Not Operated 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:		**0.00**	**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 RAC Contract No. N62472-03-D-0802
Naval Weapons Station-Earle: Bioslurper Unit No. 2
Analytical Results of Air Samples

Bioslurper Unit #2

SAMPLE NO. BS #2 Final Effluent Sample Date: 10/26/2004 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	93.0	0.000	0.00E+00	
Bromomethane	94.9	384.6	60.0	93.0	0.000	0.00E+00	
Vinyl Chloride	62.5	384.6	60.0	93.0	0.120	1.09E-04	
Chloroethane	64.5	384.6	60.0	93.0	0.000	0.00E+00	
Freon 11	137.4	384.6	60.0	93.0	0.086	1.71E-04	
1,1-Dichloroethene	96.9	384.6	60.0	93.0	0.000	0.00E+00	
Freon 113	170.9	384.6	60.0	93.0	0.000	0.00E+00	
Methylene Chloride	84.9	384.6	60.0	93.0	0.000	0.00E+00	
1,1-Dichloroethane	99.0	384.6	60.0	93.0	0.000	0.00E+00	
trans-1,2-Dichloroethene	96.9	384.6	60.0	93.0	0.000	0.00E+00	
cis-1,2-Dichloroethene	96.9	384.6	60.0	93.0	0.000	0.00E+00	
Chloroform	119.4	384.6	60.0	93.0	0.000	0.00E+00	
1,1,1-Trichloroethane	133.4	384.6	60.0	93.0	0.000	0.00E+00	
Carbon Tetrachloride	153.8	384.6	60.0	93.0	0.000	0.00E+00	
Benzene	78.1	384.6	60.0	93.0	0.240	2.72E-04	1.00E-02
1,2-Dichloroethane	99.0	384.6	60.0	93.0	0.000	0.00E+00	
Trichloroethene	131.4	384.6	60.0	93.0	0.000	0.00E+00	
1,2-Dichloropropane	113.0	384.6	60.0	93.0	0.000	0.00E+00	
trans-1,3-Dichloropropene	111.0	384.6	60.0	93.0	0.000	0.00E+00	
Toluene	92.0	384.6	60.0	93.0	0.027	3.60E-05	
cis-1,3-Dichloropropene	111.0	384.6	60.0	93.0	0.000	0.00E+00	
1,1,2-Trichloroethane	133.4	384.6	60.0	93.0	0.000	0.00E+00	
Tetrachloroethene	165.8	384.6	60.0	93.0	0.042	1.01E-04	
Ethylene Dibromide	187.9	384.6	60.0	93.0	0.000	0.00E+00	
Chlorobenzene	112.6	384.6	60.0	93.0	0.000	0.00E+00	
Ethylbenzene	106.2	384.6	60.0	93.0	0.720	1.11E-03	
m,p-Xylenes	106.2	384.6	60.0	93.0	1.700	2.62E-03	
o-Xylene	106.2	384.6	60.0	93.0	0.180	2.77E-04	
Styrene	104.2	384.6	60.0	93.0	0.000	0.00E+00	
1,1,2,2-Tetrachlorethane	167.9	384.6	60.0	93.0	0.000	0.00E+00	
1,3,5-Trimethylbenzene	120.2	384.6	60.0	93.0	0.850	1.46E-03	
1,2,4-Trimethylbenzene	120.2	384.6	60.0	93.0	3.300	5.75E-03	
1,3-Dichlorobenzene	147.0	384.6	60.0	93.0	0.000	0.00E+00	
1,4-Dichlorobenzene	147.0	384.6	60.0	93.0	0.000	0.00E+00	
Chlorotoluene	126.6	384.6	60.0	93.0	0.000	0.00E+00	
1,2-Dichlorobenzene	147.0	384.6	60.0	93.0	0.000	0.00E+00	
Acetone	58.1	384.6	60.0	93.0	0.000	0.00E+00	
2-Butanone	72.1	384.6	60.0	93.0	0.000	0.00E+00	
4-methyl-2-pentanone	100.2	384.6	60.0	93.0	0.000	0.00E+00	
2-Hexanone	100.2	384.6	60.0	93.0	0.000	0.00E+00	
			Total Emissions:		7.27	1.19E-02	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 RAC Contract No. N62472-03-D-0802
Naval Weapons Station-Earle: Bioslurper Unit No. 1
Analytical Results of Air Samples

Bioslurper Unit #1

SAMPLE NO. BS #1 Final Effluent Sample Date: November - Not Operated 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:		**0.00**	**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 RAC Contract No. N62472-03-D-0802
Naval Weapons Station-Earle: Bioslurper Unit No. 2
Analytical Results of Air Samples

Bioslurper Unit #2

SAMPLE NO. BS #2 Final Effluent Sample Date: 11/2004* 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	74.0	0.000	0.00E+00	
Bromomethane	94.9	384.6	60.0	74.0	0.000	0.00E+00	
Vinyl Chloride	62.5	384.6	60.0	74.0	0.120	8.66E-05	
Chloroethane	64.5	384.6	60.0	74.0	0.000	0.00E+00	
Freon 11	137.4	384.6	60.0	74.0	0.086	1.36E-04	
1,1-Dichloroethene	96.9	384.6	60.0	74.0	0.000	0.00E+00	
Freon 113	170.9	384.6	60.0	74.0	0.000	0.00E+00	
Methylene Chloride	84.9	384.6	60.0	74.0	0.000	0.00E+00	
1,1-Dichloroethane	99.0	384.6	60.0	74.0	0.000	0.00E+00	
trans-1,2-Dichloroethene	96.9	384.6	60.0	74.0	0.000	0.00E+00	
cis-1,2-Dichloroethene	96.9	384.6	60.0	74.0	0.000	0.00E+00	
Chloroform	119.4	384.6	60.0	74.0	0.000	0.00E+00	
1,1,1-Trichloroethane	133.4	384.6	60.0	74.0	0.000	0.00E+00	
Carbon Tetrachloride	153.8	384.6	60.0	74.0	0.000	0.00E+00	
Benzene	78.1	384.6	60.0	74.0	0.240	**2.16E-04**	**1.00E-02**
1,2-Dichloroethane	99.0	384.6	60.0	74.0	0.000	0.00E+00	
Trichloroethene	131.4	384.6	60.0	74.0	0.000	0.00E+00	
1,2-Dichloropropane	113.0	384.6	60.0	74.0	0.000	0.00E+00	
trans-1,3-Dichloropropene	111.0	384.6	60.0	74.0	0.000	0.00E+00	
Toluene	92.0	384.6	60.0	74.0	0.027	2.87E-05	
cis-1,3-Dichloropropene	111.0	384.6	60.0	74.0	0.000	0.00E+00	
1,1,2-Trichloroethane	133.4	384.6	60.0	74.0	0.000	0.00E+00	
Tetrachloroethene	165.8	384.6	60.0	74.0	0.042	8.04E-05	
Ethylene Dibromide	187.9	384.6	60.0	74.0	0.000	0.00E+00	
Chlorobenzene	112.6	384.6	60.0	74.0	0.000	0.00E+00	
Ethylbenzene	106.2	384.6	60.0	74.0	0.720	8.83E-04	
m,p-Xylenes	106.2	384.6	60.0	74.0	1.700	2.08E-03	
o-Xylene	106.2	384.6	60.0	74.0	0.180	2.21E-04	
Styrene	104.2	384.6	60.0	74.0	0.000	0.00E+00	
1,1,2,2-Tetrachlorethane	167.9	384.6	60.0	74.0	0.000	0.00E+00	
1,3,5-Trimethylbenzene	120.2	384.6	60.0	74.0	0.850	1.18E-03	
1,2,4-Trimethylbenzene	120.2	384.6	60.0	74.0	3.300	4.58E-03	
1,3-Dichlorobenzene	147.0	384.6	60.0	74.0	0.000	0.00E+00	
1,4-Dichlorobenzene	147.0	384.6	60.0	74.0	0.000	0.00E+00	
Chlorotoluene	126.6	384.6	60.0	74.0	0.000	0.00E+00	
1,2-Dichlorobenzene	147.0	384.6	60.0	74.0	0.000	0.00E+00	
Acetone	58.1	384.6	60.0	74.0	0.000	0.00E+00	
2-Butanone	72.1	384.6	60.0	74.0	0.000	0.00E+00	
4-methyl-2-pentanone	100.2	384.6	60.0	74.0	0.000	0.00E+00	
2-Hexanone	100.2	384.6	60.0	74.0	0.000	0.00E+00	
			Total Emissions:		7.27	9.49E-03	5.00E-02

* Due to a high pressure condition, the system was deactivated on 17 November 2004 prior to collection of the monthly vapor sample. The 26 October 2004 data is presented since no data is available for November 2004.

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

BIOSLURPER UNIT 1		
OPERATED (hours):	0	
AVERAGE FLOW RATE (cfm):	0	
TPH CONCENTRATION (mg/m^3):		
(as per analytical)	**September - Not Operated**	
	0.00	=POUNDS OF TPH

BIOSLURPER UNIT 2		
OPERATED (hours):	106	
AVERAGE FLOW RATE (cfm):	93	
TPH CONCENTRATION (mg/m^3):	1.96	
(as per analytical)	**10/12/2004***	
	0.07	=POUNDS OF TPH

* An air sample was inadvertently not collected during September. Therefore, two air samples were collected during October. The 12 October 2004 sample data is presented for September calculations.

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

BIOSLURPER UNIT 1		
OPERATED (hours):	0	
AVERAGE FLOW RATE (cfm):	0	
TPH CONCENTRATION (mg/m^3):		
(as per analytical)	**October - Not Operated**	
	0.00	=POUNDS OF TPH

BIOSLURPER UNIT 2		
OPERATED (hours):	152	
AVERAGE FLOW RATE (cfm):	93	
TPH CONCENTRATION (mg/m^3):	1.12	
(as per analytical)	**10/26/2004**	
	0.06	=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

BIOSLURPER UNIT 1		
OPERATED (hours):	0	
AVERAGE FLOW RATE (cfm):	0	
TPH CONCENTRATION (mg/m^3):		
(as per analytical)	**November - Not Operated**	
	0.00	=POUNDS OF TPH

BIOSLURPER UNIT 2		
OPERATED (hours):	67	
AVERAGE FLOW RATE (cfm):	74	
TPH CONCENTRATION (mg/m^3):	1.12	
(as per analytical)	**11/2004***	
	0.02	=POUNDS OF TPH

* Due to a high pressure condition, the system was deactivated on 17 November 2004 prior to collection of the monthly vapor sample. The 26 October 2004 data is presented since no data is available for November 2004.

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

Contact Person: Rich Hivens
Company: ECOR Solutions Email:
Address: 5 Brandywine Pkwy City: W. Chester State: PA Zip: 19380
Phone: 610 431 8731 Fax: 610 431-2852
Collected by: (Signature) Len

Project Info:
P.O. #:
Project #: 110 100.00
Project Name: MWS EARIE RJ

Turn Around Time:
☐ Normal
☒ Rush 7 Days specify

Lab Use Only
Pressurized by: MW
Date: 10/6/04
Pressurization Gas: N_2 He

Lab I.D.	Field Sample I.D. (Location)	Date	Time	Analyses Requested	Canister Pressure/Vacuum Initial	Final	Receipt	Final (psi)
01A	BS #2 Final Eff	10-12-04	10:	TO3 & TO14			0"Hg	9.5

Relinquished by: (signature) Date/Time	Received by: (signature) Date/Time
10-13-04 1:PM	10/13/04 [illegible]
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	Custody Seals Intact?	Work Order #
	UPS	FIN45355871	–	good	Yes No None	0410329

Form 1289 rev.1C

AIR TOXICS LTD.

SAMPLE NAME: BS #2 Final Eff

ID#: 0410329B-01A

MODIFIED EPA METHOD TO-3 GC/FID

File Name:	6101812	Date of Collection:	10/12/04
Dil. Factor:	44.7	Date of Analysis:	10/18/04 04:32 PM

Compound	Rpt. Limit (ppmv)	Rpt. Limit (uG/L)	Amount (ppmv)	Amount (uG/L)
TPH (C5+ Hydrocarbons) ref. to Gasoline	1.1	4.6	490	2000

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Fluorobenzene (FID)	124	75-150

AIR TOXICS LTD.

SAMPLE NAME: BS #2 Final Eff

ID#: 0410329A-01A

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

File Name:	d102017	Date of Collection: 10/12/04
Dil. Factor:	268	Date of Analysis: 10/20/04 10:27 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	130	Not Detected	660	Not Detected
Freon 114	130	Not Detected	940	Not Detected
Chloromethane	540	Not Detected	1100	Not Detected
Vinyl Chloride	130	Not Detected	340	Not Detected
1,3-Butadiene	130	Not Detected	300	Not Detected
Bromomethane	130	Not Detected	520	Not Detected
Chloroethane	130	Not Detected	350	Not Detected
Freon 11	130	Not Detected	750	Not Detected
Ethanol	540	Not Detected	1000	Not Detected
Freon 113	130	Not Detected	1000	Not Detected
1,1-Dichloroethene	130	Not Detected	530	Not Detected
Acetone	540	Not Detected	1300	Not Detected
2-Propanol	540	Not Detected	1300	Not Detected
Carbon Disulfide	130	Not Detected	420	Not Detected
3-Chloropropene	540	Not Detected	1700	Not Detected
Methylene Chloride	130	Not Detected	460	Not Detected
Methyl tert-butyl ether	130	Not Detected	480	Not Detected
trans-1,2-Dichloroethene	130	Not Detected	530	Not Detected
Hexane	130	1800	470	6200
Vinyl Acetate	540	Not Detected	1900	Not Detected
1,1-Dichloroethane	130	Not Detected	540	Not Detected
2-Butanone (Methyl Ethyl Ketone)	130	Not Detected	400	Not Detected
cis-1,2-Dichloroethene	130	Not Detected	530	Not Detected
Tetrahydrofuran	130	Not Detected	400	Not Detected
Chloroform	130	Not Detected	650	Not Detected
1,1,1-Trichloroethane	130	Not Detected	730	Not Detected
Cyclohexane	130	2500	460	8700
Carbon Tetrachloride	130	Not Detected	840	Not Detected
2,2,4-Trimethylpentane	130	590	620	2800
Benzene	130	360	430	1100
1,2-Dichloroethane	130	Not Detected	540	Not Detected
Heptane	130	2500	550	10000
Trichloroethene	130	Not Detected	720	Not Detected
1,2-Dichloropropane	130	Not Detected	620	Not Detected
1,4-Dioxane	540	Not Detected	1900	Not Detected
Bromodichloromethane	130	Not Detected	900	Not Detected
cis-1,3-Dichloropropene	130	Not Detected	610	Not Detected
4-Methyl-2-pentanone	130	Not Detected	550	Not Detected
Toluene	130	Not Detected	500	Not Detected
trans-1,3-Dichloropropene	130	Not Detected	610	Not Detected
1,1,2-Trichloroethane	130	Not Detected	730	Not Detected
Tetrachloroethene	130	Not Detected	910	Not Detected

AIR TOXICS LTD.

SAMPLE NAME: BS #2 Final Eff

ID#: 0410329A-01A

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

File Name:	d102017	Date of Collection:	10/12/04
Dil. Factor:	268	Date of Analysis:	10/20/04 10:27 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
2-Hexanone	540	Not Detected	2200	Not Detected
Dibromochloromethane	130	Not Detected	1100	Not Detected
1,2-Dibromoethane (EDB)	130	Not Detected	1000	Not Detected
Chlorobenzene	130	Not Detected	620	Not Detected
Ethyl Benzene	130	3100	580	14000
m,p-Xylene	130	6000	580	26000
o-Xylene	130	950	580	4100
Styrene	130	Not Detected	570	Not Detected
Bromoform	130	Not Detected	1400	Not Detected
Cumene	130	930	660	4600
1,1,2,2-Tetrachloroethane	130	Not Detected	920	Not Detected
Propylbenzene	130	1300	660	6400
4-Ethyltoluene	130	3400	660	17000
1,3,5-Trimethylbenzene	130	1100	660	5400
1,2,4-Trimethylbenzene	130	4600	660	23000
1,3-Dichlorobenzene	130	Not Detected	800	Not Detected
1,4-Dichlorobenzene	130	Not Detected	800	Not Detected
alpha-Chlorotoluene	130	Not Detected	690	Not Detected
1,2-Dichlorobenzene	130	Not Detected	800	Not Detected
1,2,4-Trichlorobenzene	540	Not Detected	4000	Not Detected
Hexachlorobutadiene	540	Not Detected	5700	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	109	70-130
Toluene-d8	99	70-130
4-Bromofluorobenzene	102	70-130

AIR TOXICS LTD.
AN ENVIRONMENTAL ANALYTICAL LABORATORY

Sample Transportation 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

CHAIN-OF-CUSTODY RECORD

Contact Person: Rich Evan
Company: Ecor Solutions Email:
Address: 508 Brandywine Pkwy City: West Chester State: PA Zip: 19380
Phone: 610 431 8731 Fax: 610 431 2952
Collected by: (Signature) Jean Modla / Keith Pebler

Project Info:
P.O. #:
Project #: N100.100
Project Name: NWS Earle Biosurgen Colts Neck, NJ

Turn Around Time:
☐ Normal
☒ Rush 7 days (specify)

Lab Use Only:
Pressurized by: BS
Date: 10/28/04
Pressurization Gas: (N) He

Lab I.D.	Field Sample I.D. (Location)	Date	Time	Analyses Requested	Canister Pressure/Vacuum Initial	Final	Receipt	Final (psig)
01A	BS #2 Effluent	10-26-04	1150am	T03 + T014			0.0"Hg	5.0 psi

Relinquished by: (signature)	Date/Time	Received by: (signature)	Date/Time
Jean Modla	10-28-04 1100 AM	Laura Thomas	10/28/04 at 1030
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	Custody Seals Intact?	Work Order #
	UPS	1Z426816 0749	—	Good	Yes No None	0410593A

Form 1256 rev.10

AIR TOXICS LTD.

SAMPLE NAME: BS #2 Effluent

ID#: 0410593B-01A

MODIFIED EPA METHOD TO-3 GC/FID

File Name:	6110217	Date of Collection:	10/26/04
Dil. Factor:	38.3	Date of Analysis:	11/2/04 05:56 PM

Compound	Rpt. Limit (ppmv)	Rpt. Limit (uG/L)	Amount (ppmv)	Amount (uG/L)
TPH (C5+ Hydrocarbons) ref. to Gasoline	0.96	3.9	280	1200

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Fluorobenzene (FID)	109	75-150

AIR TOXICS LTD.

SAMPLE NAME: BS #2 Effluent

ID#: 0410593A-01A

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

File Name:	b103106	Date of Collection:	10/26/04
Dil. Factor:	26.9	Date of Analysis:	10/31/04 11:05 AM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)
Freon 12	13	Not Detected
Freon 114	13	Not Detected
Chloromethane	54	Not Detected
Vinyl Chloride	13	120
1,3-Butadiene	13	Not Detected
Bromomethane	13	Not Detected
Chloroethane	13	Not Detected
Freon 11	13	86
Ethanol	54	Not Detected
Freon 113	13	Not Detected
1,1-Dichloroethene	13	Not Detected
Acetone	54	Not Detected
2-Propanol	54	97
Carbon Disulfide	13	Not Detected
3-Chloropropene	54	Not Detected
Methylene Chloride	13	Not Detected
Methyl tert-butyl ether	13	Not Detected
trans-1,2-Dichloroethene	13	Not Detected
Hexane	13	260
1,1-Dichloroethane	13	Not Detected
2-Butanone (Methyl Ethyl Ketone)	13	Not Detected
cis-1,2-Dichloroethene	13	Not Detected
Tetrahydrofuran	13	Not Detected
Chloroform	13	Not Detected
1,1,1-Trichloroethane	13	Not Detected
Cyclohexane	13	290
Carbon Tetrachloride	13	Not Detected
2,2,4-Trimethylpentane	13	120
Benzene	13	240
1,2-Dichloroethane	13	Not Detected
Heptane	13	330
Trichloroethene	13	Not Detected
1,2-Dichloropropane	13	Not Detected
1,4-Dioxane	54	Not Detected
Bromodichloromethane	13	Not Detected
cis-1,3-Dichloropropene	13	Not Detected
4-Methyl-2-pentanone	13	Not Detected
Toluene	13	27
trans-1,3-Dichloropropene	13	Not Detected
1,1,2-Trichloroethane	13	Not Detected
Tetrachloroethene	13	42
2-Hexanone	54	Not Detected

AIR TOXICS LTD.

SAMPLE NAME: BS #2 Effluent

ID#: 0410593A-01A

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

File Name:	b103106	Date of Collection:	10/26/04
Dil. Factor:	26.8	Date of Analysis:	10/31/04 11:05 AM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)
Dibromochloromethane	13	Not Detected
1,2-Dibromoethane (EDB)	13	Not Detected
Chlorobenzene	13	Not Detected
Ethyl Benzene	13	720
m,p-Xylene	13	1700
o-Xylene	13	180
Styrene	13	Not Detected
Bromoform	13	Not Detected
Cumene	13	320
1,1,2,2-Tetrachloroethane	13	Not Detected
Propylbenzene	13	580
4-Ethyltoluene	13	2100
1,3,5-Trimethylbenzene	13	840
1,2,4-Trimethylbenzene	13	3300
1,3-Dichlorobenzene	13	Not Detected
1,4-Dichlorobenzene	13	Not Detected
alpha-Chlorotoluene	13	Not Detected
1,2-Dichlorobenzene	13	Not Detected
1,2,4-Trichlorobenzene	54	Not Detected
Hexachlorobutadiene	54	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	100	70-130
Toluene-d8	99	70-130
4-Bromofluorobenzene	101	70-130

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

BIOSLURPER UNIT 1

TPH INFLUENT* (mg/L):		
TPH EFFLUENT* (mg/L):		
GALLONS GROUNDWATER TREATED:		
* as per analytical average if more than one sample	**September - Not Operated**	
	0.00	=POUNDS OF TPH

BIOSLURPER UNIT 2

TPH INFLUENT* (mg/L):	3.2	
TPH EFFLUENT* (mg/L):	0	
GALLONS GROUNDWATER TREATED:	26708	
* as per analytical average if more than one sample	**10/12/2004**	
	0.71	=POUNDS OF TPH

Note: 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.

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

BIOSLURPER UNIT 1		
TPH INFLUENT* (mg/L):		
TPH EFFLUENT* (mg/L):		
GALLONS GROUNDWATER TREATED:		
* as per analytical average if more than one sample	**October - Not Operated**	
	0.00	=POUNDS OF TPH

BIOSLURPER UNIT 2		
TPH INFLUENT* (mg/L):	143	
TPH EFFLUENT* (mg/L):	0	
GALLONS GROUNDWATER TREATED:	36885	
* as per analytical average if more than one sample	**10/26/2004***	
	44.02	=POUNDS OF TPH

Note: 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. Additionally, ECOR assumed that the midfluent and effluent samples were mistakenly reversed on 26 October 2004.

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

BIOSLURPER UNIT 1		
TPH INFLUENT* (mg/L):		
TPH EFFLUENT* (mg/L):		
GALLONS GROUNDWATER TREATED:		
* as per analytical average if more than one sample	**November - Not Operated**	
	0.00	=POUNDS OF TPH

BIOSLURPER UNIT 2		
TPH INFLUENT* (mg/L):	76.9	
TPH EFFLUENT* (mg/L):	0	
GALLONS GROUNDWATER TREATED:	19126	
* as per analytical average if more than one sample	**11/10/2004**	
	12.28	=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)

K613

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): Bart Brophy	Samplers Name (Printed): Bart Brophy	Site/Project Identification: Earle Mainside, Bio-Slurper #1
Company: ECOR Solutions	P.O. #	State (Location of site): NJ: ☑ NY: ☐ Other:
		Regulatory Program:
Address: 508 Brandywine PKWY	Analysis Turnaround Time: Standard ☐	
City: West Chester, State: PA	Rush Charges Authorized For: 2 Week ☐	
Phone: 610-431-8731 Fax: 610-431-2852	1 Week ☐ Other ☑ 48hr.	

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

LAB USE ONLY
Project No:
Job No: K613

Sample Identification	Date	Time	Matrix	No. of Cont.	TPH											Sample Numbers
Bio-Slurper #1 Final EFFluent	9-9-04	17:35	WW	1	X											562169

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

Soil:
Water:

Special Instructions _____ Water Metals Filtered (Yes/No)? _____

Relinquished by	Company	Date / Time	Received by	Company
1) Bart Brophy	ECOR Solutions	9-10-04 10800	1) [signature]	STL
2) [signature]	STL	9-10-04 1200	2) [signature]	STL EDISON
3)			3)	
4)			4)	

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

STL-6003

STL Edison

4

Site: Earle Mainside

Lab Job No: K613

Date Received: 09/10/2004
Matrix: WATER

Date Sampled: 09/09/04
QA Batch: 7709

Total Petroleum Hydrocarbons (418.1)

STL Edison Sample #	Client ID	Date Extracted	Date Analyzed	Dilution Factor	Analytical Result Units: mg/l
562169	BS_1-Final_Eff	09/13/04	09/14/04	1.0	ND

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

M517

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 Evens	Samplers Name (Printed): [illegible]	Site/Project Identification: NWS Earle Colt Neck
Company: ECOR Solutions	P.O. #: NJ 10.100	State (Location of site): NJ: ☐ NY: ☐ Other:
Address: 508 Brandywine Pkw	Analysis Turnaround Time: Standard ☑	Regulatory Program:
City: W. Chester State: PA	Rush Charges Authorized For: 2 Week ☐ 1 Week ☐ Other ☐	
Phone: 610.431.3554 Fax:		

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

LAB USE ONLY
Project No:
Job No: M517

Sample Identification	Date	Time	Matrix	No. of. Cont.	TPH 418.1	Sample Numbers
BS #2 Final Eff	10/12/04	9:15	W	1	1	572212
BS #2 GAC Eff	|	|	|	1	1	572213
BS #2 INF	|	|	|	1	1	572214

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

Soil:
Water:

Special Instructions

Water Metals Filtered (Yes/No)?

Relinquished by	Company	Date / Time	Received by	Company
1) [signature]	ECOR	10 Dec, 2:30	1) [signature]	STC
2)		|	2)	
3)		|	3)	
4)		|	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: M517

Date Received: 10/12/2004
Matrix: WATER

Date Sampled: 10/12/04
QA Batch: 7769

Total Petroleum Hydrocarbons (418.1)

STL Edison Sample #	Client ID	Date Extracted	Date Analyzed	Dilution Factor	Analytical Result Units: mg/l
572212	BS-2_Final_Eff	10/14/04	10/15/04	1.0	ND
572213	BS-2_Gac_Eff	10/14/04	10/15/04	1.0	ND
572214	BS-2_Inf	10/14/04	10/15/04	1.0	3.2

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

N375

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	Samplers Name (Printed) Keith Pebler	Site/Project Identification NWS Earl Coltsneck
Company ECOR Solutions Inc.	P.O. # NO 100.100	State (Location of site): NJ: ☑ NY: ☐ Other:
Address 508 Brandwine Parkway	Analysis Turnaround Time: Standard ☑	Regulatory Program:
City Westchester State P.A. 19380	Rush Charges Authorized For: 2 Week ☐ 1 Week ☐ Other ☐	LAB USE ONLY Project No:
Phone (610) 431-8731 Fax (610) 431-2852		Job No: N375

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

Sample Identification	Date	Time	Matrix	No. of Cont.	PHC	Sample Numbers
BS#2 Finail Eff	10/26/08	1200	AQ	1	1,2	577592
BS#2 GAC Eff	10/26/08	1210		1	1,2	593
BS#2 TNF	10/26/08	1200		1	1,2	594

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

Soil: ☐ Water: ✓

Special Instructions _____ Water Metals Filtered (Yes/No)? _____

Relinquished by	Company	Date / Time	Received by	Company
1) Keith Pebler	ECOR Solution	10/26/08 1530	1) [signature]	STL
2)			2)	
3)			3)	
4)			4)	

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

STL-6003

STL Edison

4

Site: NWS Earl Coltsneck

Lab Job No: N375

Date Received: 10/26/2004
Matrix: WATER

Date Sampled: 10/26/04
QA Batch: 7786

Total Petroleum Hydrocarbons (418.1)

STL Edison Sample #	Client ID	Date Extracted	Date Analyzed	Dilution Factor	Analytical Result Units: mg/l
577592	BS-2_Final_Eff	10/27/04	10/27/04	1.0	11.7
577593	BS-2_Gac_Eff	10/27/04	10/27/04	1.0	ND
577594	BS-2_Inf	10/27/04	10/27/04	12.5	143

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

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 Evens	Samplers Name (Printed): VM - KP	Site/Project Identification: NWS Earle colts Neck
Company: ECOR Solutions	P.O. #: N0 100. 100	State (Location of site): NJ: ☐ NY: ☐ Other:
Address: 508 Brandywine Pkw	Analysis Turnaround Time: Standard ☐	Regulatory Program:
City: West Chester State: PA 19380	Rush Charges Authorized For: 2 Week ☐	LAB USE ONLY Project No:
Phone: 610-431-8731 Fax: 610 431-2852	1 Week ☐ Other ☒ 48	Job No: 0382

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

Sample Identification	Date	Time	Matrix	No. of Cont.	TPH 418-1	Sample Numbers
BS#2 Final Eff	11-10-04	14.00	W		2	583210
BS#2 GAC Eff	11-10-04	1405	W		2	583211
BS#3 Inf	11-10-04	1410	W		2	583212

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

Soil:
Water:

Special Instructions _____ Water Metals Filtered (Yes/No)? _____

Relinquished by	Company	Date / Time	Received by	Company
1) Keith Pebler	ECOR Solution	11/10/04 16:00	1) PM	STL
2)			2)	
3)			3)	
4)			4)	

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

STL-6003

Site: NWS Earle ColtsNeck

Lab Job No: 0382

Date Received: 11/10/2004
Matrix: WATER

Date Sampled: 11/10/04
QA Batch: 7811

Total Petroleum Hydrocarbons (418.1)

STL Edison Sample #	Client ID	Date Extracted	Date Analyzed	Dilution Factor	Analytical Result Units: mg/l
583210	BS-2_Final-Eff	11/11/04	11/12/04	1.0	ND
583211	BS-2_GAC-Eff	11/11/04	11/12/04	1.0	ND
583212	BS-2_Inf	11/11/04	11/12/04	12.5	76.9

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