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THIRD QUARTER, YEAR 2005
QUARTERLY GROUNDWATER MONITORING REPORT
UNDERGROUND STORAGE TANK SITE 17
NAVAL AIR STATION PENSACOLA
PENSACOLA, FLORIDA

Contract No. N62467-03-G-0110
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CERTIFICATION

PROFESSIONAL GEOLOGIST LICENSED IN THE STATE OF FLORIDA

This is to certify that the geological and hydrogeological features of the ***Third Quarter, Year 2005, Quarterly Groundwater Monitoring Report, Underground Storage Tank Site 17, Naval Air Station Pensacola, Florida*** has been prepared and examined by the undersigned.

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State of Florida Professional Geologist No. PG2289
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1.0 INTRODUCTION

Aerostar Environmental Services, Inc. (AEROSTAR) has prepared the Third Quarter, Year 2005, Quarterly Groundwater Monitoring Report for Underground Storage Tank (UST) Site 17, Naval Air Station (NAS) Pensacola, Florida, hereafter referred to as the site. The Third Quarter, Year 2005, quarterly monitoring event is the tenth monitoring event at the site. This report was prepared for the United States Navy Southern Division, Naval Facilities Engineering Command under Contract Task Order (CTO) 007 for one year of quarterly groundwater monitoring. This report summarizes the first quarter of groundwater sampling under Basic Order Agreement (BOA) Contract No. N62467-03-G-0110. A Site Location Map is presented as **Figure 1**.

1.1 Site Description and History

Naval Air Station (NAS) Pensacola is located in Escambia County, approximately five miles west of the Pensacola city limits. The approximate 5,000-acre installation was constructed in the 1800s. Prior to construction, the facility was undeveloped and sparsely vegetated. Land use at NAS Pensacola consists of various military housing, training, and support facilities, as well as large industrial complexes for major repairs and refurbishment of aircraft frames and engines.

UST Site 17 is located southwest of the intersection of North Avenue and East Avenue, in the southeast corner of the facility. The site is located approximately 500 feet west of Pensacola Bay and is approximately 200 by 200 feet in size. The majority of the site is grass-covered with asphalt parking areas along the eastern and southern borders. NAS Pensacola Building 804 is located to the southwest of the site. The site was originally identified in 1985 when a leak in a marine diesel fuel pipeline was discovered. In July 1986, a pump and treat groundwater remediation system was installed and operated until February 1989. An equipment storage area, surrounded by a privacy fence is located near the center of the site, and previously housed the equipment used for the active pump and treat remediation system. A Site Plan is presented as **Figure 2**.

2.0 BACKGROUND

On March 4, 1997, The Florida Department of Environmental Protection (FDEP) issued a Monitoring Only Plan (MOP) Approval Order for UST Site 17. In accordance with the Approval Order, quarterly groundwater monitoring began in September 1997. On March 10, 1998, the FDEP issued a new MOP Approval Order which cancelled the initial MOP Approval Order (March 4, 1997), and required the installation of an additional monitoring well (MW-12). The revised MOP Approval Order designated three monitoring wells (MW-2, MW-7, and MW-11) as contaminated wells, three monitoring wells (MW-1, MW-3, and MW-12) as perimeter wells, and also established contaminants of concern (COC), testing frequency, and site-specific action levels. Although the new MOP Approval Order required the additional monitoring well be designated MW-12, it was actually designated MW-9. Subsequently, all monitoring events include data for MW-9 as opposed to MW-12. A total of nine quarters of groundwater monitoring were completed at the site to date.

Data generated from the quarterly groundwater monitoring events indicated that for eight consecutive quarterly monitoring events the designated COCs had not exceeded the FDEP Groundwater Cleanup Target Levels (GCTLs); however, the detected concentrations of COC and non-COC analytes had exceeded the GCTLs. Based on these results it was concluded that Natural Attenuation alone was not effective in reducing site contaminant concentrations. Therefore, Tetra Tech NUS, Inc. of Pittsburgh, Pennsylvania, recommended the implementation of a treatability study for Oxygen Reduction Compound (ORC)® to enhance natural attenuation at UST Site 17.

Tetra Tech NUS, Inc. completed a Treatability Study Evaluation Report (TSER) in October 2004. After ORC® injection, PAH groundwater concentrations initially increased and then decreased to below the GCTLs in the source area (MW-7 and MW-11). The post-injection analytical results indicated that the original plume where the injections had occurred was mitigated, but that groundwater exceedances remained outside of the ORC® injection area. The Natural Attenuation parameters indicated that moderately reducing to slightly oxidizing conditions were occurring across the site.

The Third Quarter, Year 2005, quarterly monitoring event is the tenth monitoring event at the site. This report was prepared under BOA Contract No. N62467-03-G-0110 CTO 007 for one year of quarterly groundwater monitoring.

3.0 SITE ASSESSMENT ACTIVITIES

This section describes the field tasks completed in August 2005. Field tasks were to include measuring the depth to groundwater and collecting groundwater samples from eight (8) monitor wells. The following sections detail the scope of work for the assessment activities conducted at the site.

3.1 Groundwater Elevation Measurements

AEROSTAR mobilized to the site on August 16, 2005 to collect depth-to-water (DTW) measurements from groundwater monitor wells MW-1, MW-2, MW-3, MW-4, MW-5, MW-7, MW-9, and MW-11. Prior to gauging the depths-to-water, the well caps were removed and the water levels were allowed to stabilize for at least 15 minutes. The depths-to-water were measured to the nearest 0.01' using an electronic water level indicator and recorded on a field sample collection log. Monitor wells MW-2, MW-4, and MW-11 were not located during the August 2005 event due to extensive construction activities occurring south of the site. The estimated direction of groundwater flow is discussed in Section 4.1.

3.2 Groundwater Sample Collection

AEROSTAR collected groundwater samples on August 16, 2005 from monitor wells MW-1, MW-3, MW-5, MW-7, and MW-9 to evaluate groundwater quality. The groundwater samples were collected utilizing a variable speed peristaltic pump. Field quality control samples consisting of equipment blanks were collected during each sampling event. The groundwater samples were transferred into the appropriate laboratory supplied sample containers, placed on ice and delivered, under chain-of-custody, to a Navy approved laboratory for analyses per Environmental Protection Agency (EPA) Method 8310 for Polynuclear Aromatic Hydrocarbons (PAHs). Severn Trent Laboratory, Inc. (STL) of Pensacola, Florida, was utilized during this monitoring event.

The FDEP groundwater sampling logs are included in **Appendix A**. The results of the groundwater laboratory analyses are detailed in Section 4.2, and included in **Appendix B**.

4.0 RESULTS OF THE SITE ASSESSMENT

4.1 Groundwater Flow Direction

DTW measurements were collected from five (5) monitor wells on August 16, 2005. DTW and total depth of each monitor well were recorded and are presented in **Table 1.** Top of casing elevations for each well were subtracted from the corresponding DTW measurement to derive groundwater elevations from which to create a groundwater contour map. The inferred groundwater flow direction was estimated to be towards the southeast. **Figure 3** illustrates the approximate groundwater flow direction for the August 2005 quarterly monitoring event.

4.2 Groundwater Laboratory Analysis

Groundwater samples collected from MW-1, MW-3, MW-5, MW-7, and MW-9 were submitted to STL for PAH analysis per EPA Method 8310. PAH concentrations were either below laboratory detection limits or below their respective GCTL in monitor wells MW-3, MW-5, and MW-9. Benzo(a)anthracene was detected in MW-1 and MW-7 at concentrations of 0.170 µg/L and 0.083 µg/L, respectively, which is above the GCTL of 0.050 µg/L according to Chapter 62-777, Florida Administrative Code (F.A.C.) . Dibenz(a,h)anthracene was detected in MW-7 at a concentration of 0.170 µg/L, which is above the GCTL of 0.005 µg/L.

Concentrations of fluoranthene, fluorene, 1-methylnaphthalene, 2-methylnaphthalene, and naphthalene were detected in MW-3; however all detected concentrations were below their respective GCTLs (Ch. 62-777, F.A.C.).

Concentrations of benzo(k)fluoranthene, chrysene, acenaphthylene, fluoranthene, benzo (a) pyrene, fluorene, 1-methylnaphthalene, 2-methylnaphthalene, naphthalene, phenathrene, and pyrene were detected in MW-7; however all detected concentrations were below their respective GCTLs (Ch. 62-777, F.A.C.).

The results of the groundwater laboratory analysis are summarized in **Table 2**. COC concentrations from the August 2005 sampling event are illustrated in **Figure 4**. The laboratory analytical results with appropriate chain-of-custody records are included in **Appendix B**.

5.0 SUMMARY AND RECOMMENDATIONS

AEROSTAR conducted site assessment activities during August 2005 at UST Site 17. Based on the findings of the investigation, AEROSTAR presents the following conclusions:

- The inferred groundwater flow direction at UST Site 17 is to the southeast. This flow direction is consistent with previously reported groundwater flow data.
- PAH concentrations were either below laboratory detection limits or below their respective GCTL in monitor wells MW-3, MW-5, and MW-9.
- With the exception of dibenz(a,h)anthracene, all PAH concentrations were below their respective GCTL in MW-1.
- With the exception of dibenz(a,h)anthracene and benzo(a)anthracene, all PAH concentrations were below their respective GCTL in MW-7.

AEROSTAR recommends continuing quarterly groundwater sampling in accordance with CTO 007 to monitor COC concentrations that are above the applicable GCTLs.

TABLES

TABLE 1

GROUNDWATER ELEVATION SURVEY DATA

Well ID	Depth of Well (ft-BTOC)	Screened Interval (ft - BGS)	TOC Elevation (ft – AMSL)	Survey Date	Depth To Product (ft - BTOC)	Depth To Water (ft - BTOC)	Groundwater Elevation (ft –AMSL)
MW-1	14.81	NA	9.80	6/27/00		NA	NA
				11/04/00		NA	NA
				2/16/01		NA	NA
				5/24/01		NA	NA
				3/11/02		NA	NA
				6/17/02		NA	NA
				9/19/02		NA	NA
				1/08/03		NA	NA
				6/24/03		NA	NA
				9/23/03		3.44	6.36
				12/8/03		4.24	5.56
				3/8/04		4.00	5.80
				6/09/04		4.19	5.61
				8/16/05		3.95	5.85
MW-2	15.45	NA	9.82	6/27/00		NA	NA
				11/04/00		NA	NA
				2/16/01		NA	NA
				5/24/01		NA	NA
				3/11/02		NA	NA
				6/17/02		NA	NA
				9/19/02		NA	NA
				1/08/03		NA	NA
				6/24/03		NA	NA
				9/23/03		3.52	6.30
				12/8/03		4.32	5.50
				3/8/04		4.20	5.62
				6/09/04		4.22	5.60
				8/16/05		CNL	CNL
MW-3	14.41	NA	9.60	6/27/00		NA	NA
				11/04/00		NA	NA
				2/16/01		NA	NA
				5/24/01		NA	NA
				3/11/02		NA	NA
				6/17/02		NA	NA
				9/19/02		NA	NA
				1/08/03		NA	NA
				6/24/03		NA	NA
				9/23/03		3.27	6.33
				12/8/03		4.11	5.49
				3/8/04		3.95	5.65
				6/09/04		4.00	5.60
				8/16/05		3.84	5.76

TABLE 1

GROUNDWATER ELEVATION SURVEY DATA

Well ID	Depth of Well (ft-BTOC)	Screened Interval (ft - BGS)	TOC Elevation (ft – AMSL)	Survey Date	Depth To Product (ft - BTOC)	Depth To Water (ft - BTOC)	Groundwater Elevation (ft –AMSL)
MW-4	15.00	NA	10.00	6/27/00		NA	NA
				11/04/00		NA	NA
				2/16/01		NA	NA
				5/24/01		NA	NA
				3/11/02		NA	NA
				6/17/02		NA	NA
				9/19/02		NA	NA
				1/08/03		NA	NA
				6/24/03		NA	NA
				9/23/03		3.80	6.20
				12/8/03		4.61	5.39
				3/8/04		4.45	5.55
				6/09/04		4.52	5.48
				8/16/05		CNL	CNL
MW-5	15.22	NA	9.42	6/27/00		NA	NA
				11/04/00		NA	NA
				2/16/01		NA	NA
				5/24/01		NA	NA
				3/11/02		NA	NA
				6/17/02		NA	NA
				9/19/02		NA	NA
				1/08/03		NA	NA
				6/24/03		NA	NA
				9/23/03		3.09	6.33
				12/8/03		3.97	5.45
				3/8/04		3.81	5.61
				6/09/04		3.92	5.50
				8/16/05		3.70	5.72
MW-6	13.90	NA	9.36	6/27/00		NA	NA
				11/04/00		NA	NA
				2/16/01		NA	NA
				5/24/01		NA	NA
				3/11/02		NA	NA
				6/17/02		NA	NA
				9/19/02		NA	NA
				1/08/03		NA	NA
				6/24/03		NA	NA
				9/23/03		2.96	6.40
				12/8/03		3.85	5.51
				3/8/04		3.60	5.76
				6/09/04		3.64	5.72
				8/16/05		NS	NS

(continued)

TABLE 1

GROUNDWATER ELEVATION SURVEY DATA
(Continued)

Well ID	Depth of Well (ft-BTOC)	Screened Interval (ft - BGS)	TOC Elevation (ft – AMSL)	Survey Date	Depth To Product (ft - BTOC)	Depth To Water (ft - BTOC)	Groundwater Elevation (ft –AMSL)
MW-7	14.55	NA	9.86	6/27/00		NA	NA
				11/04/00		NA	NA
				2/16/01		NA	NA
				5/24/01		NA	NA
				3/11/02		NA	NA
				6/17/02		NA	NA
				9/19/02		NA	NA
				1/08/03		NA	NA
				6/24/03		NA	NA
				9/23/03		3.65	6.21
				12/8/03		4.40	5.46
				3/8/04		4.35	5.51
				6/09/04		4.26	5.60
				8/16/05		4.20	5.66
MW-9	15.67	NA	9.58	6/27/00		NA	NA
				11/04/00		NA	NA
				2/16/01		NA	NA
				5/24/01		NA	NA
				3/11/02		NA	NA
				6/17/02		NA	NA
				9/19/02		NA	NA
				1/08/03		NA	NA
				6/24/03		NA	NA
				9/23/03		3.44	6.14
				12/8/03		4.33	5.25
				3/8/04		4.20	5.38
				6/09/04		4.20	5.38
				8/16/05		4.00	5.58
MW-10	15.13	NA	8.97	6/27/00		NA	NA
				11/04/00		NA	NA
				2/16/01		NA	NA
				5/24/01		NA	NA
				3/11/02		NA	NA
				6/17/02		NA	NA
				9/19/02		NA	NA
				1/08/03		NA	NA
				6/24/03		NA	NA
				9/23/03		2.70	6.27
				12/8/03		3.67	5.30
				3/8/04		3.60	5.37
				6/09/04		3.48	5.49
				8/16/05		NS	NS

TABLE 1

GROUNDWATER ELEVATION SURVEY DATA
(Continued)

Well ID	Depth of Well (ft-BTOC)	Screened Interval (ft - BGS)	TOC Elevation (ft – AMSL)	Survey Date	Depth To Product (ft - BTOC)	Depth To Water (ft - BTOC)	Groundwater Elevation (ft –AMSL)
MW-11	12.60	NA	10.11	6/27/00		NA	NA
				11/04/00		NA	NA
				2/16/01		NA	NA
				5/24/01		NA	NA
				3/11/02		NA	NA
				6/17/02		NA	NA
				9/19/02		NA	NA
				1/08/03		NA	NA
				6/24/03		NA	NA
				9/23/03		3.93	6.18
				12/8/03		4.78	5.33
				3/8/04		4.65	5.46
				6/09/04		4.71	5.40
				8/16/05		CNL	CNL

(continued)

Notes: BTOC = Below Top of Casing
CNL= Could Not Locate
BGS = Below Ground Surface
AMSL = Above Mean Sea Level based on an estimated site elevation of 25 feet amsl
NE=Not Encountered
NA-No Data Available
NS-Monitor well not measured because that is monitor well is not in the work plan
**Information obtained prior to August 2005 was extracted from the Treatability Study Evaluation Report performed by Tetra Tech NUS of Pittsburgh, Pennsylvania.*

TABLE 2

GROUNDWATER ANALYTICAL SUMMARY

SAMPLE DATA		PAH CONCENTRATIONS (ug/L) PER METHOD 8310																	
Well ID	**Sample Date**	**Acenaphthene**	**Acenaphthylene**	**Anthracene**	**Benzo(a) anthracene**	**Benzo(a) pyrene**	**Benzo(b)fluoranthene**	**Benzo(g,h,i)perlyene**	**Benzo(k)fluoranthene**	**Chrysene**	**Dibenz(a,h)anthracene**	**Fluoranthene**	**Fluorene**	**Indeno(1,2,3-cd)pyrene**	**2-Methylnaphthalene**	**1-Methylnaphthalene**	**Naphthalene**	**Phenanthrene**	**Pyrene**
MW-1	6/27/00	<2.00	<2.00	<2.00	<0.200	<0.200	<0.200	<0.200	<0.200	<2.00	<0.200	<2.00	2.60	<0.200	14.0	13.5	23.6	<2.00	<2.00
	11/04/00	<4.00	<4.00	<2.00	<0.200	<0.200	<0.200	<0.200	<0.200	<2.00	<0.200	<2.00	1.10 J	<0.200	<2.00	<2.00	<2.00	<2.00	<2.00
	2/16/01	<4.40	<4.40	<2.20	<0.220	<0.220	<0.220	<0.220	<0.220	<2.20	<0.220	<2.20	<2.20	<0.220	<2.20	<2.20	<2.20	<2.20	<2.20
	5/24/01	<16.0	<16.0	<8.00	<0.800	<0.800	<0.800	<0.800	<0.800	<8.00	<0.800	<8.00	<8.00	<0.800	<8.00	<8.00	<8.00	<8.00	<8.00
	3/11/02	0.570	<0.100	0.100 J	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	0.920	<0.100	<0.100	<0.100	<0.100	1.20	0.130
	6/17/02	1.10	<0.110	0.240	<0.110	<0.110	<0.110	<0.110	<0.110	<0.110	<0.110	<0.110	1.00	<0.110	0.130	0.200	<0.110	1.10	0.210
	9/19/02	1.19	<0.100	<0.100	<0.110	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	1.15	<0.100	0.150	0.270	<0.100	1.06	0.210
	1/08/03	1.10	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	0.860	<0.100	0.110 J	0.210	<0.100	0.920	0.140
	6/24/03	0.600	0.320	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	0.410	<0.200	<0.200	0.170 J	<0.200	0.560	0.160J
	9/23/03	0.910	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	0.900	<0.200	<0.200	<0.200	<0.200	0.650	0.210
	12/8/03	0.660	<0.200	0.120 J	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	0.820	<0.200	<0.200	0.120 J	0.180 J	0.680	0.160 J
	3/8/04	0.410	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	0.440	<0.200	<0.200	<0.200	<0.200	0.600	0.100 J
	6/09/04	0.450	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	0.330	<0.200	<0.200	<0.200	<0.200	<0.200	0.340
	8/16/05	<0.088	<0.120	<0.074	**0.170 I**	<0.089	<0.075	<0.100	<0.093	<0.076	<0.160	<0.082	<0.085	<0.098	<0.089	<0.130	<0.100	0.100 I	<0.069
MW-2	6/27/00	<2.00	<2.00	<2.00	<0.200	<0.200	<0.200	<0.200	<0.200	<2.00	<0.200	<2.00	<2.00	<0.200	<2.00	<2.00	<2.00	<2.00	<2.00
	11/04/00	<4.00	<4.00	<2.00	<0.200	<0.200	<0.200	<0.200	<0.200	<2.00	<0.200	<2.00	<2.00	<0.200	<2.00	<2.00	<2.00	<2.00	<2.00
	2/16/01	<4.40	<4.40	<2.20	<0.220	<0.220	<0.220	<0.220	<0.220	<2.20	<0.220	<2.20	<2.20	<0.220	<2.20	<2.20	<2.20	<2.20	<2.20
	5/24/01	<16.0	<16.0	<8.00	<0.800	<0.800	<0.800	<0.800	<0.800	<8.00	<0.800	<8.00	<8.00	<0.800	<8.00	<8.00	<8.00	<16.0	<8.00
	3/11/02	0.320	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	0.500	<0.100	0.190	0.240	0.350	<0.100	<0.100
	6/17/02	0.570	<0.110	<0.110	<0.110	<0.110	<0.110	<0.110	<0.110	<0.110	<0.110	<0.110	0.730	<0.110	0.200	0.270	0.550	<0.110	0.140
	9/19/02	0.650	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	0.940	<0.100	0.740	0.90	1.18	0.120 J	0.150
	1/08/03	0.460	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	0.550	<0.100	0.160	0.210	1.00	0.100	0.110
	6/24/03	0.340	0.090 J	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	0.420	<0.200	<0.200	<0.200	<0.20	<0.200	0.180 J
	9/23/03	0.350	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	0.560	<0.200	0.340	0.370	1.10	<0.200	0.110 J
	12/8/03	0.320	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	0.490	<0.200	0.150 J	0.210	0.330	<0.200	0.120 J
	3/8/04	0.330	<0.210	<0.210	<0.210	<0.210	<0.210	<0.210	<0.210	<0.210	<0.210	<0.210	0.430	<0.210	0.150 J	0.130 J	0.180 J	<0.210	<0.210
	6/09/04	0.340	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	0.410	<0.200	<0.200	0.180 J	0.280	<0.200	0.180 J
	8/16/05	CNL	CNL	CNL	CNL	CNL	CNL	CNL	CNL	CNL	CNL	CNL	CNL	CNL	CNL	CNL	CNL	CNL	CNL
GCTL		20	210	2100	0.050	*	0.050	210	0.500	4.80	0.005	280	280	0.050	28.0	28.0	14.0	210	210

TABLE 2

GROUNDWATER ANALYTICAL SUMMARY

SAMPLE DATA		PAH CONCENTRATIONS (ug/L) PER METHOD 8310																	
Well ID	**Sample Date**	**Acenaphthene**	**Acenaphthylene**	**Anthracene**	**Benzo(a) anthracene**	**Benzo(a) pyrene**	**Benzo(b)fluoranthene**	**Benzo(g,h,i)perlyene**	**Benzo(k)fluoranthene**	**Chrysene**	**Dibenz(a,h)anthracene**	**Fluoranthene**	**Fluorene**	**Indeno(1,2,3-cd)pyrene**	**2-Methylnaphthalene**	**1-Methylnaphthalene**	**Naphthalene**	**Phenanthrene**	**Pyrene**
MW-3	6/27/00	<2.00	<2.00	<2.00	<0.200	<0.200	<0.200	<0.200	<0.200	<2.00	<0.200	<2.00	<2.00	<0.200	<2.00	2.00	<2.00	<2.00	<2.00
	11/04/00	<4.00	<4.00	<4.00	<0.200	<0.200	<0.200	<0.200	<0.200	<2.00	<0.200	<2.00	<2.00	<0.200	<2.00	<2.00	<2.00	<2.00	<2.00
	2/16/01	<4.40	<4.40	<4.40	<0.220	<0.220	<0.220	<0.220	<0.220	<2.20	<0.220	<2.20	<2.20	<0.220	<2.20	<2.20	<2.20	<2.20	<2.20
	5/24/01	<16.0	<16.0	<16.0	<0.800	<0.800	<0.800	<0.800	<0.800	<8.00	<0.800	<8.00	<8.00	<0.800	<8.00	<8.00	<8.00	<8.00	<8.00
	3/11/02	<0.110	<0.110	<0.110	<0.110	<0.110	<0.110	<0.110	<0.110	<0.110	<0.110	<0.110	<0.110	<0.110	<0.110	<0.110	<0.110	<0.110	<0.110
	6/17/02	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	0.120	0.110	0.160	<0.100	<0.100
	9/19/02	0.230	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	0.360	<0.100	0.610	0.740	0.630	0.160	<0.100
	1/08/03	<0.110	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<10.0	<0.100	<0.100
	6/24/03	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200
	9/23/03	0.180 J	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	0.240	<0.200	0.980	0.730	0.480	<0.200	<0.200
	12/8/03	0.089 J	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	0.140 J	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200
	3/8/04	0.120 J	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	0.100 J	<0.200	0.083 J	<0.200	<0.200	<0.200	<0.200
	6/09/04	0.470	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	0.350	<0.200	**45.0**	**41.0**	**79.0**	<0.200	<0.200
	8/16/05	<0.083	<0.110	<0.070	<0.063	<0.084	<0.071	<0.098	<0.088	<0.072	<0.160	0.210 I	0.280 I	<0.092	0.770 I	0.840 I	0.560 I	<0.077	<0.066
MW-4	6/27/00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	11/04/00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	2/16/01	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	5/24/01	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	3/11/02	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	6/17/02	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	9/19/02	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	1/08/03	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	6/24/03	0.640	0.130 J	0.150 J	0.016 J	<0.200	0.016 J	0.016 J	0.005 J	0.010 J	<0.200	<0.200	0.750	<0.200	2.00	1.60	0.470	0.890	0.120 J
	9/23/03	0.950	<0.780	<0.780	<0.780	<0.780	<0.780	<0.780	<0.780	<0.780	<0.780	<0.780	1.10	<0.780	6.00	6.50	0.800	0.500 J	<0.780
	12/8/03	1.60	<0.380	<0.380	<0.380	<0.380	<0.380	<0.380	<0.380	<0.380	<0.380	<0.380	1.80	<0.380	3.30	3.20	1.50	1.40	<0.380
	3/8/04	0.620	<0.220	<0.220	<0.220	<0.220	<0.220	<0.220	<0.220	<0.220	<0.220	<0.220	0.740	<0.220	0.200 J	1.20	0.790	0.680	<0.220
	6/09/04	1.60	<0.200	0.220	**0.066 J**	<0.200	<0.200	<0.200	<0.200	0.048 J	<0.200	<0.200	2.00	0.044 J	0.980	2.20	1.30	0.740	0.220
	8/16/05	CNL	CNL	CNL	CNL	CNL	CNL	CNL	CNL	CNL	CNL	CNL	CNL	CNL	CNL	CNL	CNL	CNL	CNL
GCTL		20	210	2100	0.050	*	0.050	210	0.500	4.80	0.005	280	280	0.050	28.0	28.0	14.0	210	210

TABLE 2

GROUNDWATER ANALYTICAL SUMMARY

SAMPLE DATA		PAH CONCENTRATIONS (ug/L) PER METHOD 8310																	
Well ID	Sample Date	Acenaphthene	Acenaphthylene	Anthracene	Benzo(a) anthracene	Benzo(a) pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perlyene	Benzo(k)fluoranthene	Chrysene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-cd)pyrene	2-Methylnaphthalene	1-Methylnaphthalene	Naphthalene	Phenanthrene	Pyrene
MW-5	6/27/00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	11/04/00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	2/16/01	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	5/24/01	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	3/11/02	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	6/17/02	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	9/19/02	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	1/08/03	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	6/24/03	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	0.130 J	0.210	0.170 J	<0.200	<0.200
	9/23/03	0.280	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	0.320	<0.200	0.990	0.640	0.260	0.170 J	<0.200
	12/8/03	0.086 J	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	0.120 J	<0.200	0.087 J	0.110 J	0.055 J	<0.200	<0.200
	3/8/04	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	0.110 J	<0.200	<0.200
	6/09/04	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200
	8/16/05	<0.075	<0.098	<0.063	<0.057	<0.076	<0.064	<0.088	<0.079	<0.065	<0.140	<0.070	<0.072	<0.083	<0.076	<0.110	<0.089	<0.069	<0.059
MW-6	6/27/00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	11/04/00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	2/16/01	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	5/24/01	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	3/11/02	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	6/17/02	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	9/19/02	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	1/08/03	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	6/24/03	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	9/23/03	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	12/8/03	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	3/8/04	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	6/09/04	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	8/16/05	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
GCTL		20	210	2100	0.050	*	0.050	210	0.500	4.80	0.005	280	280	0.050	28.0	28.0	14.0	210	210

TABLE 2

GROUNDWATER ANALYTICAL SUMMARY

SAMPLE DATA		PAH CONCENTRATIONS (ug/L) PER METHOD 8310																	
Well ID	**Sample Date**	**Acenaphthene**	**Acenaphthylene**	**Anthracene**	**Benzo(a) anthracene**	**Benzo(a) pyrene**	**Benzo(b)fluoranthene**	**Benzo(g,h,i)perlyene**	**Benzo(k)fluoranthene**	**Chrysene**	**Dibenz(a,h)anthracene**	**Fluoranthene**	**Fluorene**	**Indeno(1,2,3-cd)pyrene**	**2-Methylnaphthalene**	**1-Methylnaphthalene**	**Naphthalene**	**Phenanthrene**	**Pyrene**
MW-7	6/27/00	<2.00	<2.00	<2.00	<0.200	<0.200	<0.200	<0.200	<0.200	<2.00	<0.200	<2.00	3.30	<0.200	14.0	14.9	12.3	<2.00	<2.00
	11/04/00	<4.00	<4.00	<4.00	<0.200	<0.200	<0.200	<0.200	<0.200	<2.00	<0.200	<2.00	4.00	<0.200	26.8	25.6	11.7	<2.00	<2.00
	2/16/01	<22.0	<22.0	<2.20	<0.220	<0.220	<0.220	<0.220	<0.220	<2.20	<0.220	<2.20	12.6	<0.220	**122**	**97.8**	13.1	<2.20	<2.20
	5/24/01	<16.0	<16.0	<8.00	<0.800	<0.800	<0.800	<0.800	<0.800	<8.00	<0.800	<8.00	9.90	<0.800	**90.3**	**85.1**	68.9	<16.0	<8.00
	3/11/02	2.30	<0.100	0.300	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	4.70	<0.100	**37.0**	**32.0**	6.80	1.60	0.160
	6/17/02	1.60	<0.100	0.360	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	3.40	<0.100	10.0	12.0	5.60	1.60	0.120
	9/19/02	1.66	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	2.04	<0.100	16.8	14.3	12.9	1.47	0.210
	1/08/03	3.80	<0.100	0.530	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	5.30	<0.100	**78.0**	**65.0**	**19.0**	3.10	0.190
	6/24/03	1.90 J	<3.90	<3.90	<3.90	<3.90	<3.90	<3.90	<3.90	<3.90	<3.90	<3.90	<3.90	<3.90	18.0	20.0	<3.90	3.00 J	<3.90
	9/23/03	<9.50	<9.50	<9.50	<9.50	<9.50	<9.50	<9.50	<9.50	<9.50	<9.50	<9.50	7.10 J	<9.50	**82.0**	**72.0**	12.0	<9.50	<9.50
	12/8/03	2.70 J	<3.80	<3.80	<3.80	<3.80	<3.80	<3.80	<3.80	<3.80	<3.80	<3.80	4.60	<3.80	**42.0**	**33.0**	8.20	2.60 J	<3.80
	3/8/04	0.230	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	0.240	<0.200	2.20	13.0	1.90	0.100 J	<0.200
	6/09/04	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	0.140 J	<0.200	0.680	0.680	<0.200	<0.200	<0.200
	8/16/05	<0.091	7.60	<0.076	**0.083 I**	0.210 I	<0.078	<0.110	0.096	0.079	<0.170	0.510 I	3.00	<0.100	9.70	23.0	1.70	1.50	0.580 I
MW-8	6/27/00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	11/04/00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	2/16/01	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	5/24/01	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	3/11/02	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	6/17/02	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	9/19/02	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	1/08/03	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	6/24/03	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	9/23/03	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	12/8/03	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	3/8/04	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	6/09/04	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	8/16/05	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
GCTL		20	210	2100	0.050	*	0.050	210	0.500	4.80	0.005	280	280	0.050	28.0	28.0	14.0	210	210

TABLE 2

GROUNDWATER ANALYTICAL SUMMARY

SAMPLE DATA		PAH CONCENTRATIONS (ug/L) PER METHOD 8310																	
Well ID	Sample Date	Acenaphthene	Acenaphthylene	Anthracene	Benzo(a) anthracene	Benzo(a) pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perlyene	Benzo(k)fluoranthene	Chrysene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-cd)pyrene	2-Methylnaphthalene	1-Methylnaphthalene	Naphthalene	Phenanthrene	Pyrene
MW-9	6/27/00	<2.00	<2.00	<2.00	<0.200	<0.200	<0.200	<0.200	<0.200	<2.00	<0.200	<2.00	2.60	<0.200	4.10	9.80	15.0	<2.00	<2.00
	11/04/00	<4.00	<4.00	<2.00	<0.200	<0.200	<0.200	<0.200	<0.200	<2.00	<0.200	<2.00	<2.00	<0.200	<2.00	2.20	<2.00	<2.00	<2.00
	2/16/01	<4.40	<4.40	<2.20	<0.220	<0.220	<0.220	<0.220	<0.220	<2.20	<0.220	<2.20	1.50 J	<0.220	6.20	11.5	15.5	<2.20	<2.20
	5/24/01	<4.40	<4.40	<2.20	<0.220	<0.220	<0.220	<0.220	<0.220	<2.20	<0.220	<2.20	1.90 J	<0.220	8.50	16.5	2.70	<2.20	<2.20
	3/11/02	0.400	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	0.500	<0.100	1.00	1.40	1.00	<0.100	<0.100
	6/17/02	0.880	<0.110	<0.110	<0.110	<0.110	<0.110	<0.110	<0.110	<0.110	<0.110	<0.110	0.660	<0.110	7.70	8.40	4.80	0.280	<0.110
	9/19/02	0.830	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	1.00	<0.100	3.13	3.60	<0.100	0.210	<0.100
	1/08/03	1.50	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	1.40	<0.100	6.60	8.70	11.0	0.380	<0.100
	6/24/03	0.670 J	<0.820	<0.820	<0.820	<0.820	<0.820	<0.820	<0.820	<0.820	<0.820	<0.820	0.770 J	<0.820	6.90	7.00	1.60	<0.082	<0.820
	9/23/03	0.650 J	<0.760	<0.760	<0.760	<0.760	<0.760	<0.760	<0.760	<0.760	<0.760	<0.760	0.830	<0.760	5.50	6.30	4.10	0.340 J	<0.760
	12/8/03	1.00 J	<1.90	<1.90	<1.90	<1.90	<1.90	<1.90	<1.90	<1.90	<1.90	<1.90	1.20 J	<1.90	21.0	19.0	1.00 J	<1.90	<1.90
	3/8/04	0.860	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	0.920	<0.200	20.0	21.0	5.40	0.250	<0.200
	6/09/04	1.250	<0.200	0.056 J	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	1.00	<0.200	17.0	21.0	4.00	0.100 J	<0.200
	8/16/05	0.860 I	<0.110	<0.070	<0.063	<0.084	<0.071	<0.098	<0.088	<0.072	<0.160	<0.078	<0.080	<0.092	<0.084	<0.120	<0.099	<0.077	<0.066
MW-10	6/27/00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	11/04/00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	2/16/01	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	5/24/01	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	3/11/02	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	6/17/02	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	9/19/02	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	1/08/03	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	6/24/03	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	9/23/03	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	12/8/03	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	3/8/04	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	6/09/04	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	8/16/05	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
GCTL		20	210	2100	0.050	*	0.050	210	0.500	4.80	0.005	280	280	0.050	28.0	28.0	14.0	210	210

(continued)

TABLE 2

GROUNDWATER ANALYTICAL SUMMARY

SAMPLE DATA		PAH CONCENTRATIONS (ug/L) PER METHOD 8310																	
Well ID	**Sample Date**	**Acenaphthene**	**Acenaphthylene**	**Anthracene**	**Benzo(a) anthracene**	**Benzo(a) pyrene**	**Benzo(b)fluoranthene**	**Benzo(g,h,i)perlyene**	**Benzo(k)fluoranthene**	**Chrysene**	**Dibenz(a,h)anthracene**	**Fluoranthene**	**Fluorene**	**Indeno(1,2,3-cd)pyrene**	**2-Methylnaphthalene**	**1-Methylnaphthalene**	**Naphthalene**	**Phenanthrene**	**Pyrene**
MW-11	6/27/00	<2.00	<2.00	<2.00	<0.200	<0.200	<0.200	<0.200	<0.200	<2.00	<0.200	<2.00	<2.00	<0.200	<2.00	<2.00	<2.00	<2.00	<2.00
	11/04/00	<4.00	<4.00	<2.00	<0.200	<0.200	<0.200	<0.200	<0.200	<2.00	<0.200	<2.00	2.20	<0.200	8.00	10.8	18.8	<2.00	<2.00
	2/16/01	<4.40	<4.40	<2.20	<0.220	<0.220	<0.220	<0.220	<0.220	<2.20	<0.220	<2.20	2.20	<0.220	14.9	18.8	30.3	<2.20	<2.20
	5/24/01	<8.00	<8.00	<4.00	<0.400	<0.400	<0.400	<0.400	<0.400	<4.00	<0.400	<4.00	3.80 J	<0.400	23.9	31.6	39.0	<4.00	<4.00
	3/11/02	2.10	<0.100	0.270	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	3.10	<0.100	15.0	13.0	18.0	1.60	0.140
	6/17/02	2.10	<0.110	0.630	<0.110	<0.110	<0.110	<0.110	<0.110	<0.110	<0.110	<0.110	3.10	<0.110	26.0	22.0	29.0	2.40	0.130
	9/19/02	3.11	<0.100	0.490	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	4.16	<0.100	19.5	19.0	26.1	2.82	0.180
	1/08/03	2.00	<0.100	0.280	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	2.00	<0.100	18.0	24.0	52.0	1.80	<0.100
	6/24/03	1.90	<0.990	<0.990	<0.990	<0.990	<0.990	<0.990	<0.990	<0.990	<0.990	<0.990	0.790 J	<0.990	2.70	13.0	12.0	<0.990	<0.990
	9/23/03	<3.80	<3.80	<3.80	<3.80	<3.80	<3.80	<3.80	<3.80	<3.80	<3.80	<3.80	<3.80	<3.80	18.0	18.0	22.0	<3.80	<3.80
	12/8/03	2.50	<1.90	<1.90	<1.90	<1.90	<1.90	<1.90	<1.90	<1.90	<1.90	<1.90	2.50	<1.90	25.0	26.0	23.0	0.870 J	<1.90
	3/8/04	2.50	<0.220	0.170 J	<0.220	<0.220	<0.220	<0.220	<0.220	<0.220	<0.220	<0.220	3.70	<0.220	74.0	67.0	2.40	1.00	0.120 J
	6/09/04	1.70	<0.200	0.130 J	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	1.90	<0.200	16.0	16.0	16.0	0.660	<0.200
	8/16/05	CNL	CNL	CNL	CNL	CNL	CNL	CNL	CNL	CNL	CNL	CNL	CNL	CNL	CNL	CNL	CNL	CNL	CNL
GCTL		20	210	2100	0.050	*	0.050	210	0.500	4.80	0.005	280	280	0.050	28.0	28.0	14.0	210	210

(Continued)

Notes: All concentrations in parts per billion (µg/L)
GCTL- set Groundwater Cleanup Target Level, Chapter 62-777, F.A.C.
***BOLD** type indicates concentration exceeds GCTL*
--No Data Available
I-The reported value is between the laboratory method detection limits and the laboratory practical quantitation limit
J-Estimated concentration
NS-Monitor wells were not sampled because the monitor wells were not included in the work plan
CNL-Can not locate monitor well
**Information reported prior to August 2005 was extracted from the Treatability Study Evaluation Report performed by Tetra Tech NUS of Pittsburgh, Pennsylvania.*

FIGURES

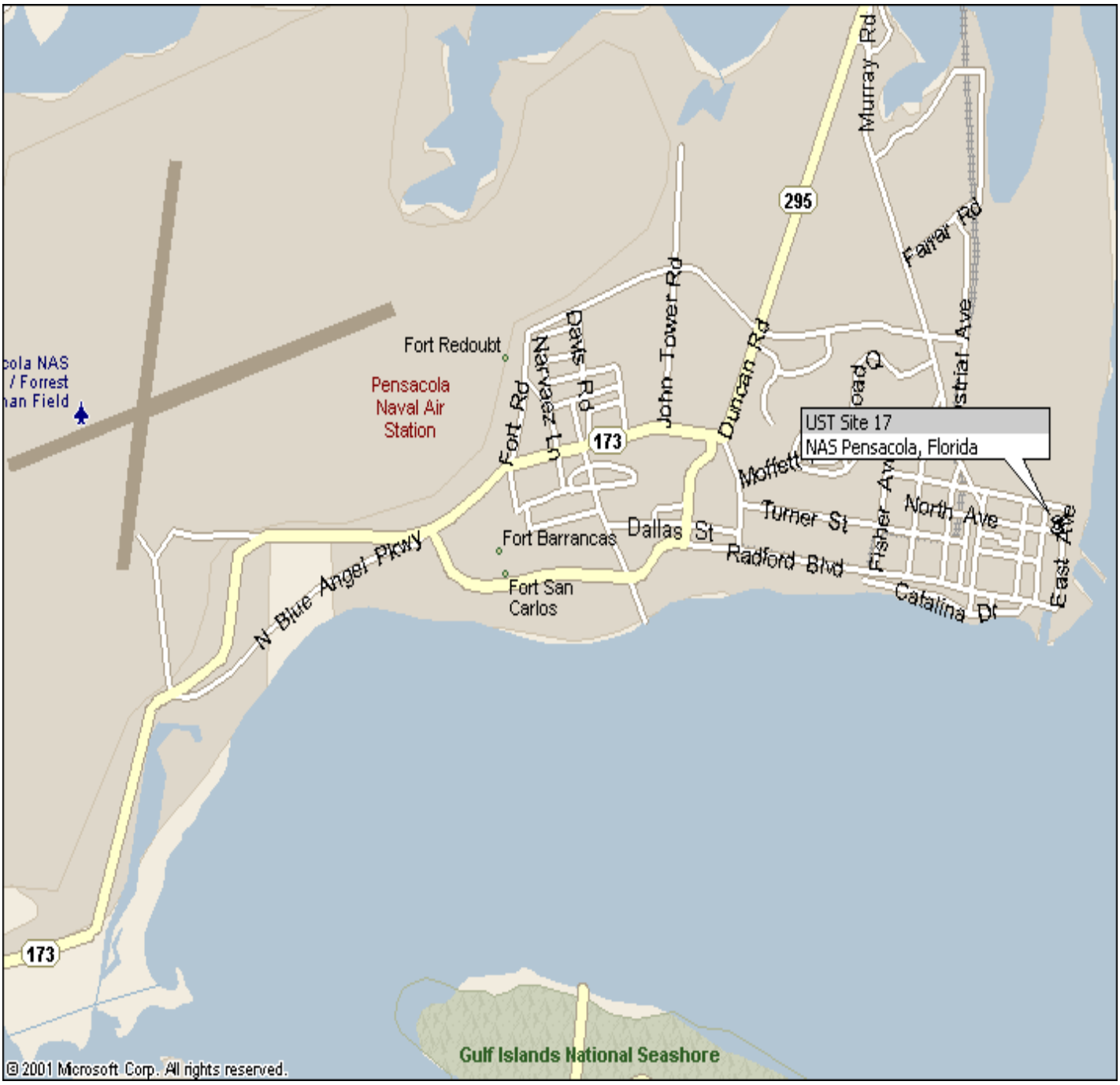
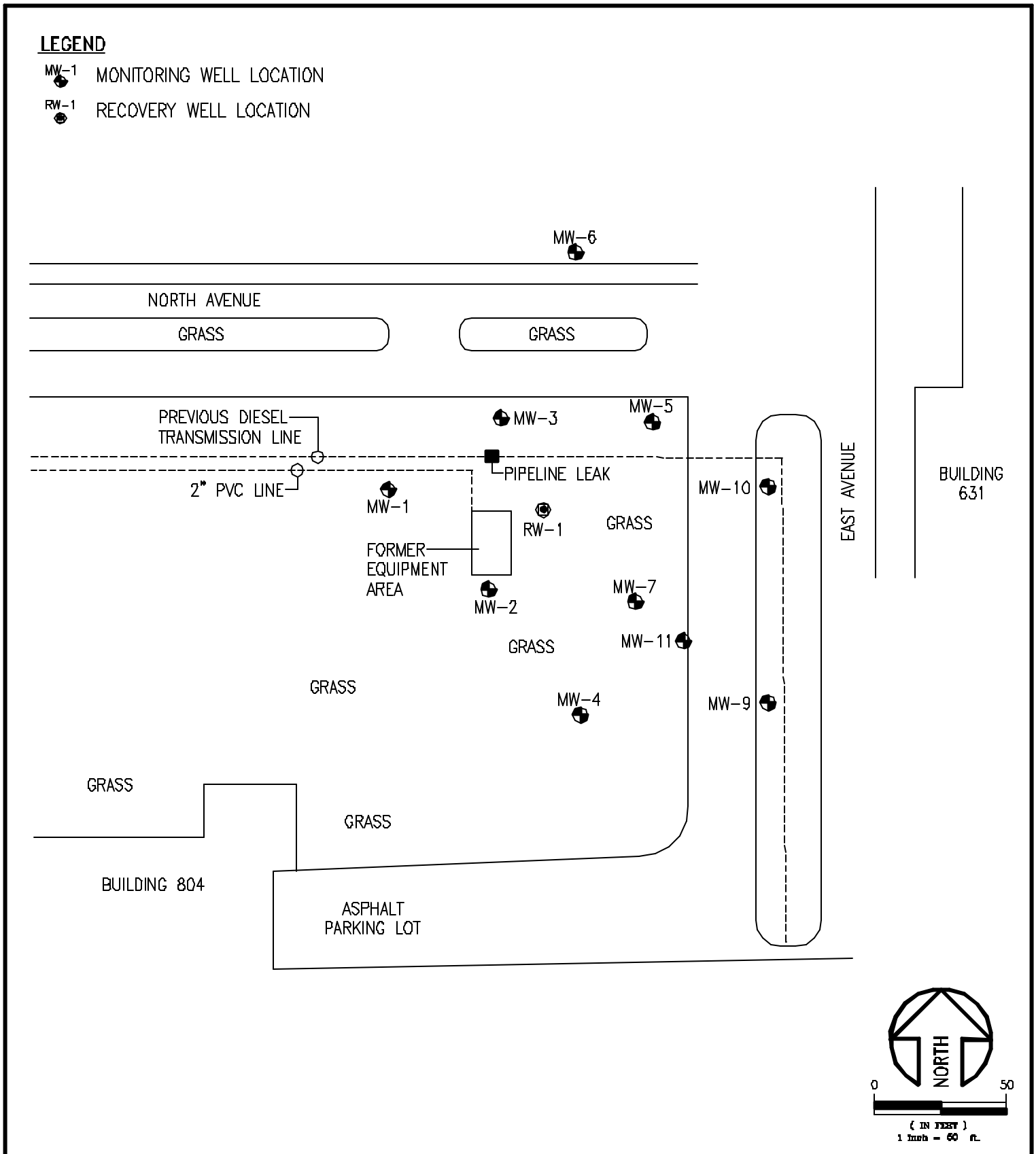


FIGURE 1 STREET SITE LOCATION MAP

AEROSTAR ENVIRONMENTAL SERVICES, INC.	UNDERGROUND STORAGE TANK SITE 17 NAVAL AIR STATION PENSACOLA PENSACOLA, ESCAMBIA COUNTY FLORIDA	DRAWN BY: EAW REFERENCE: MAP OF PENSACOLA, FLORIDA PREPARED BY: THE MICROSOFT CORP.



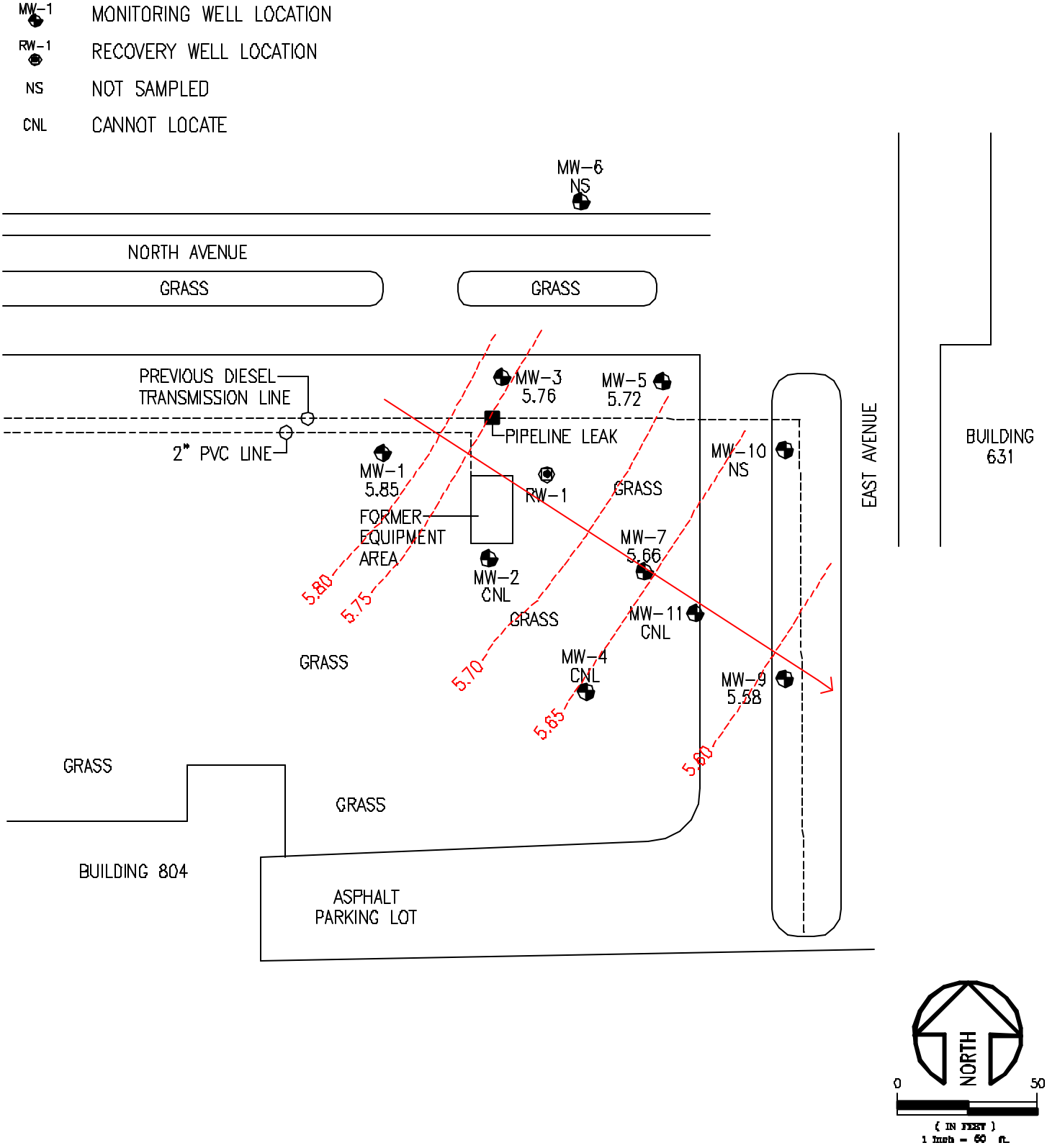
JOB #: 0405-211-24

FIGURE 2 – SITE MAP

AEROSTAR ENVIRONMENTAL SERVICES, INC.

UST SITE 17
TREATABILITY STUDY EVALUATION REPORT
NAS PENSACOLA
PENSACOLA, FLORIDA

SCALE: 1" = 50'-0"
DATE: SEPTEMBER 29, 2005
DRAWN BY: AD



JOB #: 0405-211-24

FIGURE 3 - GROUNDWATER ELEVATION AND FLOW DIRECTION MAP (AUGUST 16, 2005)

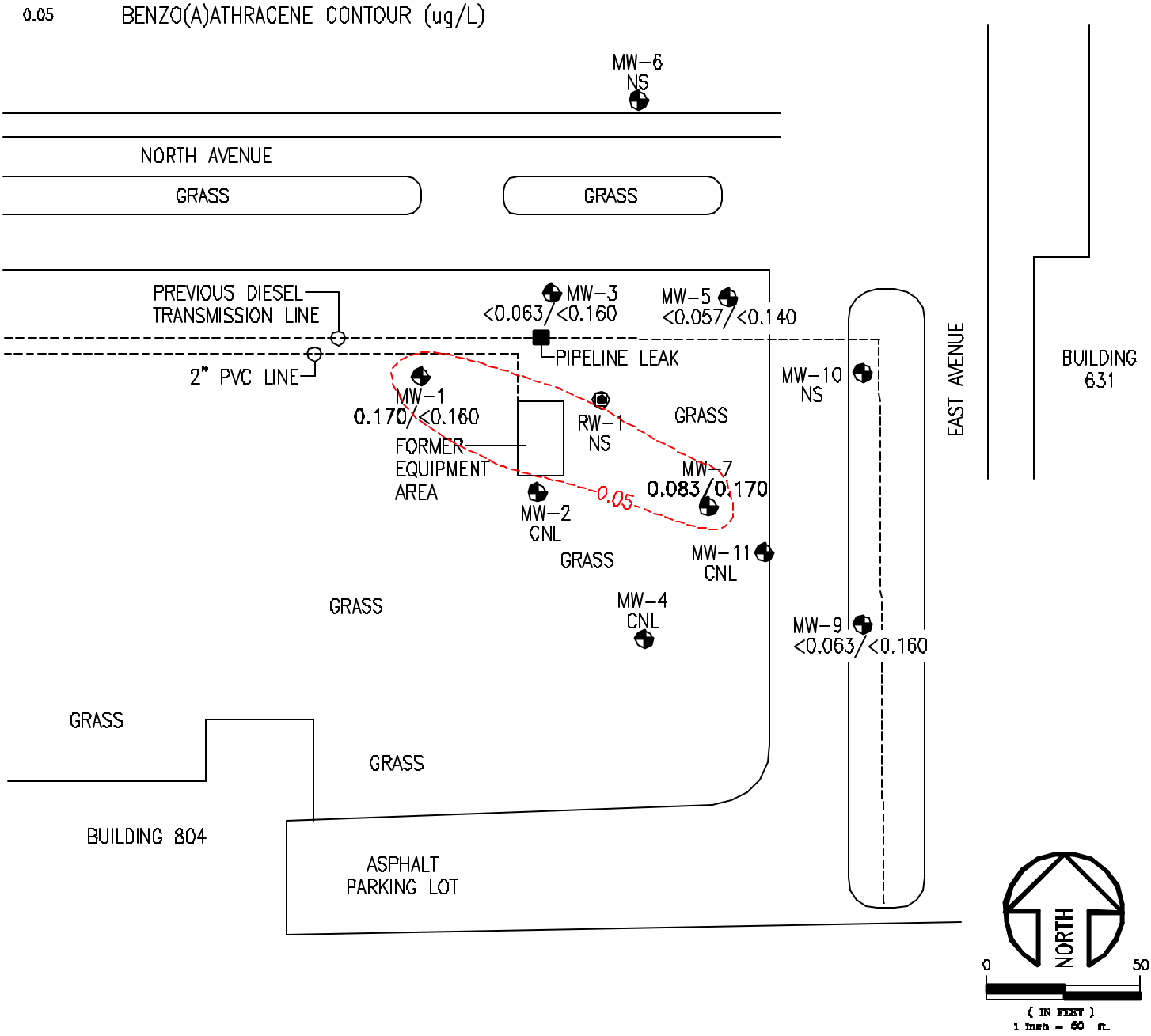
AEROSTAR ENVIRONMENTAL SERVICES, INC.

UST SITE 17
TREATABILITY STUDY EVALUATION REPORT
NAS PENSACOLA
PENSACOLA, FLORIDA

SCALE: 1" = 50'-0"
DATE: SEPTEMBER 29, 2005
DRAWN BY: AD

LEGEND

MW-1	MONITORING WELL LOCATION
RW-1	RECOVERY WELL LOCATION
NS	NOT SAMPLED
CNL	CANNOT LOCATE
0.170/<0.160	BENZO(A)ANTHRACENE/DIBENZ(A,H)ANTHRACENE IN ug/L (BOLD CONCENTRATIONS EXCEED GCTL)
0.05	BENZO(A)ATHRACENE CONTOUR (ug/L)



JOB #: 0405-211-24

FIGURE 4 - PAH CONCENTRATIONS IN GROUNDWATER MAP (AUGUST 16, 2005)

AEROSTAR ENVIRONMENTAL SERVICES, INC.

UST SITE 17
TREATABILITY STUDY EVALUATION REPORT
NAS PENSACOLA
PENSACOLA, FLORIDA

SCALE: 1" = 50'-0"
DATE: SEPTEMBER 29, 2005
DRAWN BY: AD

APPENDIX A

State of Florida, Department of Environmental Protection
GROUNDWATER SAMPLING LOG

SITE NAME: NAS Pensacola	SITE LOCATION: UST Site 17	
WELL NO: MW-1	SAMPLE ID: MW-1	DATE: 8/16/05

PURGING DATA

WELL DIAMETER (in): 2	TOTAL WELL DEPTH (ft): 14.81	STATIC DEPTH TO WATER (ft): 3.95	WELL CAPACITY (gal/ft): 0.16

1 WELL VOLUME (gal) = (TOTAL WELL DEPTH – DEPTH TO WATER) X WELL CAPACITY =

= (14.81 – 3.95) X 0.16 = 1.70

PURGE METHOD: Peristaltic Pump	PURGE INITIATED AT: 1150	PURGE ENDED AT: 1229	TOTAL VOL. PURGED (gal): 5.8

TIME	VOLUME PURGED (gal)	CUMUL. VOLUME PURGED (gal)	PURGE RATE (gpm)	DEPTH TO WATER (ft)	pH	TEMP. (°C)	COND. (µmhos)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTUs)	COLOR	ODOR
1200	1.7	1.7	0.10	4.00	6.62	26.4	735	2.10	8.82	Clear/yllw	None
1216	1.7	3.4	0.10	4.00	6.52	26.8	612	0.80	8.80	Clear	None
1224	1.4	4.8	0.10	4.00	6.51	26.9	624	0.70	11.4	Clear	None
1229	1.0	5.8	0.10	4.00	6.50	27.0	625	1.00	12.4	Clear	None

WELL CAPACITY (Gallons per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88

SAMPLING DATA

SAMPLED BY (PRINT) / Emilie Wien AFFILIATION: AEROSTAR	SAMPLER(S) SIGNATURE(S)	
SAMPLING METHOD(S): Peristaltic Pump	SAMPLING INITIATED AT: 1230	SAMPLING ENDED AT: 1232
FIELD DECONTAMINATION: Y N	FIELD-FILTERED: Y N	DUPLICATE: Y N

SAMPLE CONTAINER SPECIFICATION			SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD
NO.	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOLUME ADDED IN FIELD (mL)	FINAL pH	
1		1 L			-	PAH

REMARKS:

MATERIAL CODES: AG = AMBER GLASS; CG = CLEAR GLASS; PE = POLYETHYLENE; O = OTHER (SPECIFY)

State of Florida, Department of Environmental Protection
GROUNDWATER SAMPLING LOG

SITE NAME: NAS Pensacola	SITE LOCATION: UST Site 17	
WELL NO: MW-3	SAMPLE ID: MW-3	DATE: 8/16/05

PURGING DATA

WELL DIAMETER (in): 2	TOTAL WELL DEPTH (ft): 14.41	STATIC DEPTH TO WATER (ft): 3.84	WELL CAPACITY (gal/ft): 0.16

1 WELL VOLUME (gal) = (TOTAL WELL DEPTH – DEPTH TO WATER) X WELL CAPACITY =

= (14.41 – 3.84) X 0.16 = 1.68

PURGE METHOD: Peristaltic Pump	PURGE INITIATED AT: 1238	PURGE ENDED AT: 1305	TOTAL VOL. PURGED (gal): 4.68

TIME	VOLUME PURGED (gal)	CUMUL. VOLUME PURGED (gal)	PURGE RATE (gpm)	DEPTH TO WATER (ft)	pH	TEMP. (°C)	COND. (µmhos)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTUs)	COLOR	ODOR
1246	1.68	1.68	0.10	3.90	6.47	27.3	554	1.40	14.0	Amber/Clear	None
1253	1.0	2.68	0.10	3.90	6.39	27.5	528	1.90	9.39	Clear	None
1259	1.0	3.68	0.10	3.90	6.37	27.5	522	1.40	10.1	Clear	None
1305	1.0	4.68	0.10	3.90	6.35	27.6	521	1.10	13.7	Clear	None

WELL CAPACITY (Gallons per Foot): 0.75” = 0.02; 1” = 0.04; 1.25” = 0.06; 2” = 0.16; 3” = 0.37; 4” = 0.65; 5” = 1.02; 6” = 1.47; 12” = 5.88

SAMPLING DATA

SAMPLED BY (PRINT) / Emilie Wien AFFILIATION: AEROSTAR	SAMPLER(S) SIGNATURE(S)	
SAMPLING METHOD(S): Peristaltic Pump	SAMPLING INITIATED AT: 1305	SAMPLING ENDED AT: 1307
FIELD DECONTAMINATION: Y N	FIELD-FILTERED: Y N	DUPLICATE: Y N

SAMPLE CONTAINER SPECIFICATION			SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD
NO.	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOLUME ADDED IN FIELD (mL)	FINAL pH	
1		1 L			-	PAH

REMARKS:

MATERIAL CODES: AG = AMBER GLASS; CG = CLEAR GLASS; PE = POLYETHYLENE; O = OTHER (SPECIFY)

State of Florida, Department of Environmental Protection
GROUNDWATER SAMPLING LOG

SITE NAME: NAS Pensacola	SITE LOCATION: UST Site 17	
WELL NO: MW-5	SAMPLE ID: MW-5	DATE: 8/16/05

PURGING DATA

WELL DIAMETER (in): 2	TOTAL WELL DEPTH (ft): 15.22	STATIC DEPTH TO WATER (ft): 3.70	WELL CAPACITY (gal/ft): 0.16

1 WELL VOLUME (gal) = (TOTAL WELL DEPTH – DEPTH TO WATER) X WELL CAPACITY =

= (15.22 – 3.70) X 0.16 = 1.8

PURGE METHOD: Peristaltic Pump	PURGE INITIATED AT: 1308	PURGE ENDED AT: 1325	TOTAL VOL. PURGED (gal): 4.8

TIME	VOLUME PURGED (gal)	CUMUL. VOLUME PURGED (gal)	PURGE RATE (gpm)	DEPTH TO WATER (ft)	pH	TEMP. (°C)	COND. (µmhos)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTUs)	COLOR	ODOR
1315	1.8	1.8	0.12	3.70	6.25	26.4	1328	3.2	3.20	Clear	None
1319	1.0	2.8	0.12	3.70	6.31	26.4	1480	1.9	2.52	Clear	None
1321	1.0	3.8	0.12	3.70	6.35	26.6	1415	1.9	1.62	Clear	None
1325	1.0	4.8	0.12	3.70	6.36	26.8	1401	1.9	1.62	Clear	None

WELL CAPACITY (Gallons per Foot): 0.75” = 0.02; 1” = 0.04; 1.25” = 0.06; 2” = 0.16; 3” = 0.37; 4” = 0.65; 5” = 1.02; 6” = 1.47; 12” = 5.88

SAMPLING DATA

SAMPLED BY (PRINT) / Emilie Wien AFFILIATION: AEROSTAR	SAMPLER(S) SIGNATURE(S)	
SAMPLING METHOD(S): Peristaltic Pump	SAMPLING INITIATED AT: 1325	SAMPLING ENDED AT: 1327
FIELD DECONTAMINATION: Y N	FIELD-FILTERED: Y N	DUPLICATE: Y N

SAMPLE CONTAINER SPECIFICATION			SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD
NO.	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOLUME ADDED IN FIELD (L)	FINAL pH	
1		1 L		1 L	-	PAH

REMARKS:

MATERIAL CODES: AG = AMBER GLASS; CG = CLEAR GLASS; PE = POLYETHYLENE; O = OTHER (SPECIFY)

State of Florida, Department of Environmental Protection
GROUNDWATER SAMPLING LOG

SITE NAME: NAS Pensacola	SITE LOCATION: UST Site 17	
WELL NO: MW-7	SAMPLE ID: MW-7	DATE: 8/16/05

PURGING DATA

WELL DIAMETER (in): 2	TOTAL WELL DEPTH (ft): 14.55	STATIC DEPTH TO WATER (ft): 4.20	WELL CAPACITY (gal/ft): 0.16

1 WELL VOLUME (gal) = (TOTAL WELL DEPTH – DEPTH TO WATER) X WELL CAPACITY =

= (14.55 – 4.20) X 0.16 = 1.53

PURGE METHOD: Peristaltic Pump	PURGE INITIATED AT: 1328	PURGE ENDED AT: 1352	TOTAL VOL. PURGED (gal): 4.5

TIME	VOLUME PURGED (gal)	CUMUL. VOLUME PURGED (gal)	PURGE RATE (gpm)	DEPTH TO WATER (ft)	pH	TEMP. (°C)	COND. (µmhos)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTUs)	COLOR	ODOR
1338	1.5	1.5	0.12	4.15	6.71	26.2	766	3.7	29.9	Clear	None
1343	1.0	2.5	0.12	4.15	6.70	26.6	744	1.3	16.2	Clear	None
1347	1.0	3.5	0.12	4.15	6.71	26.7	742	1.4	13.3	Clear	None
1352	1.0	4.5	0.12	4.15	6.71	26.6	739	1.1	9.43	Clear	None

WELL CAPACITY (Gallons per Foot): 0.75” = 0.02; 1” = 0.04; 1.25” = 0.06; 2” = 0.16; 3” = 0.37; 4” = 0.65; 5” = 1.02; 6” = 1.47; 12” = 5.88

SAMPLING DATA

SAMPLED BY (PRINT) / Emilie Wien AFFILIATION: AEROSTAR	SAMPLER(S) SIGNATURE(S)	
SAMPLING METHOD(S): Peristaltic Pump	SAMPLING INITIATED AT: 1353	SAMPLING ENDED AT: 1354
FIELD DECONTAMINATION: Y N	FIELD-FILTERED: Y N	DUPLICATE: Y N

SAMPLE CONTAINER SPECIFICATION			SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD
NO.	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOLUME ADDED IN FIELD (L)	FINAL pH	
1	-	1 L	-	1 L	-	PAH

REMARKS:

*No well cap; TOC is broken

MATERIAL CODES: AG = AMBER GLASS; CG = CLEAR GLASS; PE = POLYETHYLENE; O = OTHER (SPECIFY)

State of Florida, Department of Environmental Protection
GROUNDWATER SAMPLING LOG

SITE NAME: NAS Pensacola	SITE LOCATION: UST Site 17	
WELL NO: MW-9	SAMPLE ID: MW-9	DATE: 8/16/05

PURGING DATA

WELL DIAMETER (in): 2	TOTAL WELL DEPTH (ft): 15.67	STATIC DEPTH TO WATER (ft): 4.00	WELL CAPACITY (gal/ft): 0.16

1 WELL VOLUME (gal) = (TOTAL WELL DEPTH – DEPTH TO WATER) X WELL CAPACITY =

= (15.67 – 4.0) X 0.16 = 1.8

PURGE METHOD: Peristaltic Pump	PURGE INITIATED AT: 1355	PURGE ENDED AT: 1418	TOTAL VOL. PURGED (gal): 3.8

TIME	VOLUME PURGED (gal)	CUMUL. VOLUME PURGED (gal)	PURGE RATE (gpm)	DEPTH TO WATER (ft)	pH	TEMP. (°C)	COND. (µmhos)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTUs)	COLOR	ODOR
1400	1.8	1.8	0.12	4.00	6.60	27.0	537	1.6	3.17	Clear	None
1408	1.0	2.8	0.12	4.00	6.61	27.2	564	1.2	2.19	Clear	None
1418	1.0	3.8	0.12	4.00	6.62	27.2	567	1.0	1.87	Clear	None

WELL CAPACITY (Gallons per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88

SAMPLING DATA

SAMPLED BY (PRINT) / Emilie Wien AFFILIATION: AEROSTAR	SAMPLER(S) SIGNATURE(S)	
SAMPLING METHOD(S): Peristaltic Pump	SAMPLING INITIATED AT: 1420	SAMPLING ENDED AT: 1422
FIELD DECONTAMINATION: Y N	FIELD-FILTERED: Y N	DUPLICATE: Y N

SAMPLE CONTAINER SPECIFICATION			SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD
NO.	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOLUME ADDED IN FIELD (L)	FINAL pH	
1	-	1 L	-	1 L	-	PAH

REMARKS:

MATERIAL CODES: AG = AMBER GLASS; CG = CLEAR GLASS; PE = POLYETHYLENE; O = OTHER (SPECIFY)

APPENDIX B

ANALYTICAL REPORT

Job Number: 400-4663-1

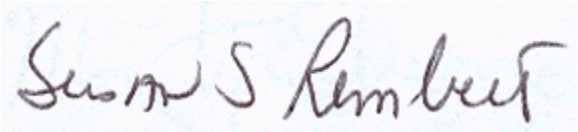
SDG Number: UST-17 NAS PENSACOLA

Job Description: 0405-21124

For:

Aerostar Environmental Services, Inc.
803 Government Street
Mobile, AL 36602

Attention: Mr. Adam Davis



Susan Rembert

Project Manager II

srembert@stl-inc.com

08/24/2005

cc: Mr. Carl D Williams

The test results in this report meet all NELAP requirements for accredited parameters. Any exceptions to NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced except in full with written approval from the laboratory.

SAMPLE SUMMARY

Client: Aerostar Environmental Services, Inc.

Job Number: 400-4663-1
Sdg Number: UST-17 NAS PENSACOLA

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
400-4663-1	MW-1	Water	08/16/2005 1230	08/17/2005 1500
400-4663-2	MW-3	Water	08/16/2005 1305	08/17/2005 1500
400-4663-3	MW-5	Water	08/16/2005 1325	08/17/2005 1500
400-4663-4	MW-7	Water	08/16/2005 1353	08/17/2005 1500
400-4663-5	MW-9	Water	08/16/2005 1420	08/17/2005 1500

Analytical Data

Client: Aerostar Environmental Services, Inc.

Job Number: 400-4663-1
Sdg Number: UST-17 NAS PENSACOLA

Client Sample ID: MW-1

Lab Sample ID: 400-4663-1
Client Matrix: Water

Date Sampled: 08/16/2005 1230
Date Received: 08/17/2005 1500

8310 Polynuclear Aromatic Hydrocarbons

Method: 8310
Preparation: 3520C
Dilution: 1.0
Date Analyzed: 08/19/2005 1718
Date Prepared: 08/18/2005 0710

Analysis Batch: 400-11613
Prep Batch: 400-11239

Instrument ID: HPLC/UV/FLUOR
Lab File ID: N/A
Initial Weight/Volume: 850 mL
Final Weight/Volume: 1.0 mL
Injection Volume:

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Acenaphthene	0.088	U	0.088	1.2
Acenaphthylene	0.12	U	0.12	1.2
Anthracene	0.074	U	0.074	1.2
Benzo[a]anthracene	0.17	I	0.067	0.24
Benzo[a]pyrene	0.089	U	0.089	0.24
Benzo[b]fluoranthene	0.075	U	0.075	0.24
Benzo[g,h,i]perylene	0.10	U	0.10	1.2
Benzo[k]fluoranthene	0.093	U	0.093	0.59
Chrysene	0.076	U	0.076	1.2
Dibenz(a,h)anthracene	0.16	U	0.16	0.24
Fluoranthene	0.082	U	0.082	1.2
Fluorene	0.085	U	0.085	1.2
Indeno[1,2,3-cd]pyrene	0.098	U	0.098	0.24
2-Methylnaphthalene	0.089	U	0.089	1.2
1-Methylnaphthalene	0.13	U	0.13	1.2
Naphthalene	0.10	U	0.10	1.2
Phenanthrene	0.10	I	0.081	1.2
Pyrene	0.069	U	0.069	1.2

Surrogate	%Rec	Acceptance Limits
2-Chloroanthracene	83	28 - 138

Analytical Data

Client: Aerostar Environmental Services, Inc.

Job Number: 400-4663-1
Sdg Number: UST-17 NAS PENSACOLA

Client Sample ID: MW-3

Lab Sample ID: 400-4663-2
Client Matrix: Water

Date Sampled: 08/16/2005 1305
Date Received: 08/17/2005 1500

8310 Polynuclear Aromatic Hydrocarbons

Method: 8310
Preparation: 3520C
Dilution: 1.0
Date Analyzed: 08/19/2005 1752
Date Prepared: 08/18/2005 0710

Analysis Batch: 400-11613
Prep Batch: 400-11239

Instrument ID: HPLC/UV/FLUOR
Lab File ID: N/A
Initial Weight/Volume: 900 mL
Final Weight/Volume: 1.0 mL
Injection Volume:

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Acenaphthene	0.083	U	0.083	1.1
Acenaphthylene	0.11	U	0.11	1.1
Anthracene	0.070	U	0.070	1.1
Benzo[a]anthracene	0.063	U	0.063	0.22
Benzo[a]pyrene	0.084	U	0.084	0.22
Benzo[b]fluoranthene	0.071	U	0.071	0.22
Benzo[g,h,i]perylene	0.098	U	0.098	1.1
Benzo[k]fluoranthene	0.088	U	0.088	0.56
Chrysene	0.072	U	0.072	1.1
Dibenz(a,h)anthracene	0.16	U	0.16	0.22
Fluoranthene	0.21	I	0.078	1.1
Fluorene	0.28	I	0.080	1.1
Indeno[1,2,3-cd]pyrene	0.092	U	0.092	0.22
2-Methylnaphthalene	0.77	I	0.084	1.1
1-Methylnaphthalene	0.84	I	0.12	1.1
Naphthalene	0.56	I	0.099	1.1
Phenanthrene	0.077	U	0.077	1.1
Pyrene	0.066	U	0.066	1.1

Surrogate	%Rec	Acceptance Limits
2-Chloroanthracene	90	28 - 138

Analytical Data

Client: Aerostar Environmental Services, Inc.

Job Number: 400-4663-1
Sdg Number: UST-17 NAS PENSACOLA

Client Sample ID: MW-5

Lab Sample ID: 400-4663-3
Client Matrix: Water

Date Sampled: 08/16/2005 1325
Date Received: 08/17/2005 1500

8310 Polynuclear Aromatic Hydrocarbons

Method: 8310
Preparation: 3520C
Dilution: 1.0
Date Analyzed: 08/19/2005 1826
Date Prepared: 08/18/2005 0710

Analysis Batch: 400-11613
Prep Batch: 400-11239

Instrument ID: HPLC/UV/FLUOR
Lab File ID: N/A
Initial Weight/Volume: 1000 mL
Final Weight/Volume: 1.0 mL
Injection Volume:

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Acenaphthene	0.075	U	0.075	1.0
Acenaphthylene	0.098	U	0.098	1.0
Anthracene	0.063	U	0.063	1.0
Benzo[a]anthracene	0.057	U	0.057	0.20
Benzo[a]pyrene	0.076	U	0.076	0.20
Benzo[b]fluoranthene	0.064	U	0.064	0.20
Benzo[g,h,i]perylene	0.088	U	0.088	1.0
Benzo[k]fluoranthene	0.079	U	0.079	0.50
Chrysene	0.065	U	0.065	1.0
Dibenz(a,h)anthracene	0.14	U	0.14	0.20
Fluoranthene	0.070	U	0.070	1.0
Fluorene	0.072	U	0.072	1.0
Indeno[1,2,3-cd]pyrene	0.083	U	0.083	0.20
2-Methylnaphthalene	0.076	U	0.076	1.0
1-Methylnaphthalene	0.11	U	0.11	1.0
Naphthalene	0.089	U	0.089	1.0
Phenanthrene	0.069	U	0.069	1.0
Pyrene	0.059	U	0.059	1.0

Surrogate	%Rec	Acceptance Limits
2-Chloroanthracene	74	28 - 138

Analytical Data

Client: Aerostar Environmental Services, Inc.

Job Number: 400-4663-1
Sdg Number: UST-17 NAS PENSACOLA

Client Sample ID: MW-7

Lab Sample ID: 400-4663-4
Client Matrix: Water

Date Sampled: 08/16/2005 1353
Date Received: 08/17/2005 1500

8310 Polynuclear Aromatic Hydrocarbons

Method: 8310
Preparation: 3520C
Dilution: 1.0
Date Analyzed: 08/19/2005 1900
Date Prepared: 08/18/2005 0710

Analysis Batch: 400-11613
Prep Batch: 400-11239

Instrument ID: HPLC/UV/FLUOR
Lab File ID: N/A
Initial Weight/Volume: 825 mL
Final Weight/Volume: 1.0 mL
Injection Volume:

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Acenaphthene	0.091	U	0.091	1.2
Acenaphthylene	7.6		0.12	1.2
Anthracene	0.076	U	0.076	1.2
Benzo[a]anthracene	0.083	I	0.069	0.24
Benzo[a]pyrene	0.21	I	0.092	0.24
Benzo[b]fluoranthene	0.078	U	0.078	0.24
Benzo[g,h,i]perylene	0.11	U	0.11	1.2
Benzo[k]fluoranthene	0.096	U	0.096	0.61
Chrysene	0.079	U	0.079	1.2
Dibenz(a,h)anthracene	0.17	U	0.17	0.24
Fluoranthene	0.51	I	0.085	1.2
Fluorene	3.0		0.087	1.2
Indeno[1,2,3-cd]pyrene	0.10	U	0.10	0.24
2-Methylnaphthalene	9.7		0.092	1.2
1-Methylnaphthalene	23		0.13	1.2
Naphthalene	1.7		0.11	1.2
Phenanthrene	1.5		0.084	1.2
Pyrene	0.58	I	0.072	1.2

Surrogate	%Rec	Acceptance Limits
2-Chloroanthracene	79	28 - 138

Analytical Data

Client: Aerostar Environmental Services, Inc.

Job Number: 400-4663-1
Sdg Number: UST-17 NAS PENSACOLA

Client Sample ID: MW-9

Lab Sample ID: 400-4663-5
Client Matrix: Water

Date Sampled: 08/16/2005 1420
Date Received: 08/17/2005 1500

8310 Polynuclear Aromatic Hydrocarbons

Method: 8310
Preparation: 3520C
Dilution: 1.0
Date Analyzed: 08/19/2005 1934
Date Prepared: 08/18/2005 0710

Analysis Batch: 400-11613
Prep Batch: 400-11239

Instrument ID: HPLC/UV/FLUOR
Lab File ID: N/A
Initial Weight/Volume: 900 mL
Final Weight/Volume: 1.0 mL
Injection Volume:

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Acenaphthene	0.86	I	0.083	1.1
Acenaphthylene	0.11	U	0.11	1.1
Anthracene	0.070	U	0.070	1.1
Benzo[a]anthracene	0.063	U	0.063	0.22
Benzo[a]pyrene	0.084	U	0.084	0.22
Benzo[b]fluoranthene	0.071	U	0.071	0.22
Benzo[g,h,i]perylene	0.098	U	0.098	1.1
Benzo[k]fluoranthene	0.088	U	0.088	0.56
Chrysene	0.072	U	0.072	1.1
Dibenz(a,h)anthracene	0.16	U	0.16	0.22
Fluoranthene	0.078	U	0.078	1.1
Fluorene	0.080	U	0.080	1.1
Indeno[1,2,3-cd]pyrene	0.092	U	0.092	0.22
2-Methylnaphthalene	0.084	U	0.084	1.1
1-Methylnaphthalene	0.12	U	0.12	1.1
Naphthalene	0.099	U	0.099	1.1
Phenanthrene	0.077	U	0.077	1.1
Pyrene	0.066	U	0.066	1.1

Surrogate	%Rec	Acceptance Limits
2-Chloroanthracene	81	28 - 138

DATA REPORTING QUALIFIERS

Client: Aerostar Environmental Services, Inc.

Job Number: 400-4663-1
Sdg Number: UST-17 NAS PENSACOLA

Lab Section	Qualifier	Description
HPLC		
	I	The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
	U	Indicates that the compound was analyzed for but not detected.

Chain of Custody Record

Lab Report No.: 4004163

Company: AEROSTAR

Address: 803 Gout. St., Ste. A
Mobile, AL

Gulf Coast LabNet, Inc.
An Environmental Lab Services Co.

Phone: (251) 625-1331
Fax: (251) 625-1299

Modified from DEP Form #: 62-770.900(2)

Page 1 of 1

FDEP Facility No.:

Project Name: UST-17

Location: NAS-PENSACOLA

Project No.: 0405-21124

Attn: Adam Davis ~~Emilie Wien~~

Phone:

Fax:

Sampled by [Print Name]/Affiliation: Emilie Wien

Sampler Signature:

Item No.	Field ID No.	Sampled Date	Sampled Time	Grab or Comp.	Matrix Codes	No. Cont.	PAH 8310								Remarks	Lab. No.
							H								←Preservative	
															←Analysis	
															REQUESTED DUE DATE	
	MW-1	8/16/05	1250		GW	1	X									
	MW-3		1305			1	X									
	MW-5		1325			1	X									
	MW-7		1353			1	X									
	MW-9		1420			1	X									

Shipment Method

Out: / / Via:

Returned: / / Via:

Additional Comments

5 ←Total Number of Containers

Item #	Relinquished by / Affiliation	Date	Time	Accepted by / Affiliation	Date	Time
	EMPTY CONTAINERS	8-16-05	0800		8/16/05	0800
	AES	8/16/05	1540	GCL	8-16-05	1540
	GCL	8/17/05	1000	GCL	8/17/05	1000
		8/17/05	1500	STL/FL	8/17/05	1500

Cooler No.(s) / Temperature(s) (°C): 0.1°C

Sampling Kit No.: 4343

Equipment ID No.:

MATRIX CODES: A = Air GW = Groundwater SE = Sediment SO = Soil SW = Surface Water W = Water (Blanks) O = Other (specify)

PRESERVATIVE CODES: H = Hydrochloric acid + ice I = Ice only N = Nitric acid + ice S = Sulfuric acid + ice O = Other (specify)

LOGIN SAMPLE RECEIPT CHECK LIST

Client: Aerostar Environmental Services, Inc.

Job Number: 400-4663-1
Sdg Number: UST-17 NAS PENSACOLA

Login Number: 4663

Check List Description: Standard Sample Receipt Checklist

Question	Answer	Failure Reason
Radioactivity is at or below background levels?	NA	
The cooler's custody seal is present and intact?	Yes	
The cooler or samples do not appear to have been compromised or tampered with?	Yes	
Samples were received on Ice?	Yes	
Containers are not broken or leaking?	Yes	
There are no samples present with short holding-time parameters?	Yes	
Quick TAT was not requested?	No	3 DAY TAT REQUESTED
COC is present?	Yes	
COC is filled out in ink and legible?	Yes	
COC is filled out completely?	Yes	
COC includes all required signatures?	Yes	
Sample containers have legible labels?	Yes	
COC matches up to all samples in the cooler?	Yes	
Sample ID's on containers match exactly the sample ID's on COC?	Yes	
Appropriate sample containers are used?	Yes	
Sample collection date/times are provided?	Yes	
Samples are received within Holding Time?	Yes	
Cooler Temperature is acceptable: <6 degC, with no frozen samples?	Yes	0.1 DEGREES C
Cooler Temperature is recorded?	Yes	
Sample bottles are completely filled?	Yes	
There is sufficient volume for all the requested analyses?	Yes	
Appropriate sample preservatives were used?	Yes	
Aqueous inorganic sample pHs are acceptable?	NA	
Aqueous semi-volatile organics sample pHs are acceptable?	NA	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter?	NA	
MS/MSD was not requested and not extra volume was sent?	NA	
Samples do not require splitting or compositing?	NA	
Multiphase samples are not present?	NA	
Trip Blank was not provided/required?	NA	
A sample discrepancy report is not needed?	NA	

All questions are phrased so that "Yes" responses are in compliance, and "No" responses are not compliant and require a failure reason.

STL PENSACOLA
Certifications, Memberships & Affiliations

Alabama *Department of Environmental Management, Laboratory ID No. 40150 (Drinking Water by Reciprocity with FL)*

Arizona *Department of Health Services, Lab ID No. AZ0589 (Hazardous Waste & Wastewater)*

Arkansas *Department of Pollution Control and Ecology, (88-0689) (Environmental)*

California *Department of Health Services,* ***ELAP*** *Laboratory ID No. 2510 (Hazardous Waste and Wastewater)*

Connecticut *Department of Health Services, Connecticut Lab Approval No. PH-0697 (D W, H W and Wastewater)*

Florida *DOH,* ***NELAP*** *Laboratory ID No. E81010 (Drinking Water, Hazardous Waste and Wastewater)*

Florida *DEP/DOH CompQAP # 980156*

Illinois *Environmental Laboratory Accreditation Program (ELAP),* ***NELAP*** *Laboratory ID No. 200041 (Wastewater and Hazardous Waste)*

Iowa *Department of Natural Resources, Laboratory ID No. 367 (Wastewater, UST, Solid Waste, & Contaminated Sites)*

Kansas *Department of Health & Environment,* ***NELAP*** *Laboratory ID No. E10253 (Wastewater and Hazardous Waste)*

Kentucky *NR&EPC, Laboratory ID No. 90043 (Drinking Water)*

Kentucky *Petroleum Storage Tank Env Assurance Fund, Laboratory ID No. 0053 (UST)*

Louisiana *DEQ, LELAP,* ***NELAP*** *Laboratory ID No. 02075, Agency Interest ID 30748. Environmental*

Maryland *DH&MH Laboratory ID No. 233 (Drinking Water by Reciprocity with Florida)*

Massachusetts *DEP, Laboratory ID No. M-FL094 (Wastewater)*

Michigan *Bureau of E&OccH, Laboratory ID No.9912 (Drinking Water by Reciprocity with Florida)*

New Hampshire *DES ELAP,* ***NELAP*** *Laboratory ID No. 250502 (Drinking Water & Wastewater)*

New Jersey *DEP&E,* ***NELAP*** *Laboratory ID No. FL006 (Wastewater and Hazardous Waster)*

North Carolina *DENR, Laboratory ID No. 314 (Hazardous Waste and Wastewater)*

North Dakota *DH&Consol Labs, Laboratory ID No. R-108 Wastewater and Hazardous Waste by Reciprocity with Arizona)*

Oklahoma *Department of Environmental Quality, Laboratory ID No. 9810 (Hazardous Waste and Wastewater)*

Pennsylvania *Department of Environmental Resources,* ***NELAP*** *Laboratory ID No. 68-467 (Drinking Water & Wastewater)*

South Carolina *DH&EC, Laboratory ID No. 96026 (Wastewater & Solids/Hazardous Waste by Reciprocity with FL)*

Tennessee *Department of Health & Environment, Laboratory ID No. 02907 (Drinking Water)*

Virginia *Department of General Services, Laboratory ID No. 00008 (Drinking Water by Reciprocity with FL)*

West Virginia *DOE, Office of Water Resources, Laboratory ID No. 136 (Haz Waste and Wastewater)*

EPA ICR *(Information Collection Rule) Approved Laboratory, Laboratory ID No. ICRFL031*

STL Pensacola also has a foreign soil permit to accept soils from locations other than the continental United States. Permit No. S-37599

certlist\condcert.lst revised 06/28/05