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SECOND CONTAMINATION ASSESSMENT REPORT ADDENDUM SITE 2662W NAS
PENSACOLA FL
12/1/1996
ABB ENVIRONMENTAL SERVICES, INC

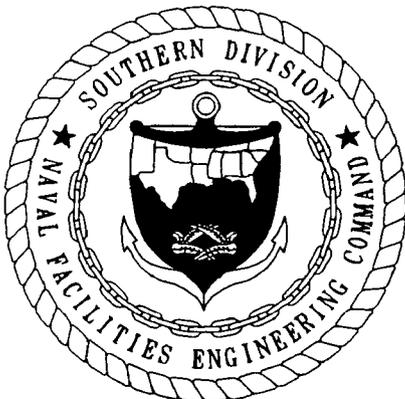


**SECOND CONTAMINATION ASSESSMENT REPORT
ADDENDUM, SITE 2662W**

**NADEP, NAVAL AIR STATION PENSACOLA
PENSACOLA, FLORIDA**

**UNIT IDENTIFICATION CODE: N00204
CONTRACT NO.: N62467-89-D-0317/008**

DECEMBER 1996



**SOUTHERN DIVISION
NAVAL FACILITIES ENGINEERING COMMAND
NORTH CHARLESTON, SOUTH CAROLINA
29419-9010**

SECOND CONTAMINATION ASSESSMENT REPORT ADDENDUM

SITE 2662W

**NAVAL AVIATION DEPOT, NAVAL AIR STATION PENSACOLA
PENSACOLA, FLORIDA**

Unit Identification Code: N00204

Contract No.: N62467-89-D-0317/008

Prepared by:

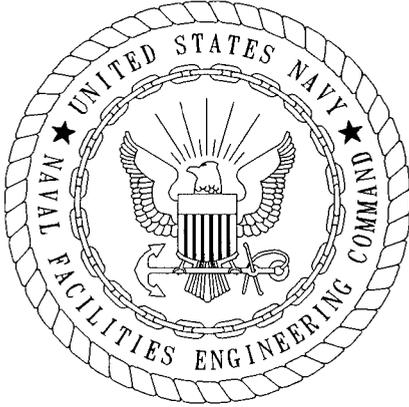
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Prepared for:

**Department of the Navy, Southern Division
Naval Facilities Engineering Command
2155 Eagle Drive
North Charleston, South Carolina 29418**

Byas Glover, Code 18410, Engineer-in-Charge

December 1996



CERTIFICATION OF TECHNICAL
DATA CONFORMITY (MAY 1987)

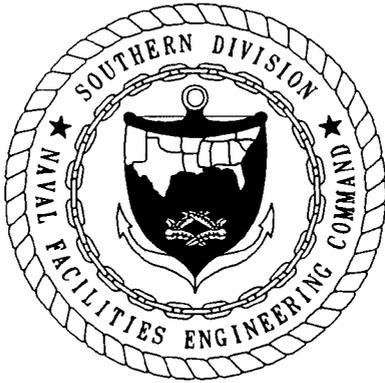
The Contractor, ABB Environmental Services, Inc., hereby certifies that, to the best of its knowledge and belief, the technical data delivered herewith under Contract No. N62467-89-D-0317/008 are complete and accurate and comply with all requirements of this contract.

DATE: December 9, 1996

NAME AND TITLE OF CERTIFYING OFFICIAL: Kathleen Hodak
Task Order Manager

NAME AND TITLE OF CERTIFYING OFFICIAL: Michael J. Williams, P.G.
Project Technical Lead

(DFAR 252.227-7036)



FOREWORD

To meet its mission objectives, the U.S. Navy performs a variety of operations, some requiring the use, handling, storage, or disposal of hazardous materials. Through accidental spills and leaks and conventional methods of past disposal, hazardous materials may have entered the environment in ways unacceptable by today's standards. With growing knowledge of the long-term effects of hazardous materials on the environment, the Department of Defense (DOD) initiated various programs to investigate and remediate conditions related to suspected past releases of hazardous materials at their facilities.

One of these programs is the Comprehensive Long-Term Environmental Action, Navy (CLEAN) Underground Storage Tank (UST) program. This program complies with Subtitle I of the Resource Conservation and Recovery Act and the Hazardous and Solid Waste Amendments of 1984. In addition, the UST program complies with all appropriate State and local storage tank regulations as they pertain to each naval facility.

The UST program includes the following activities:

- registration and management of Navy and Marine Corps storage tank systems,
- contamination assessment planning,
- site field investigations,
- preparation of contamination assessment reports,
- remedial (corrective) action planning,
- implementation of the remedial action plans, and
- tank and pipeline closures.

The Southern Division, Naval Facilities Engineering Command (SOUTHNAVFACENGCOM) manages the UST program and the U.S. Environmental Protection Agency and the Florida Department of Environmental Protection (formerly Florida Department of Environmental Regulation) oversee the Navy UST program at Naval Aviation Depot (NADEP) Pensacola.

Questions regarding the UST program at NADEP Pensacola should be addressed to Mr. Byas Glover, SOUTHNAVFACENGCOM, Code 18410, at (803) 743-0651.

EXECUTIVE SUMMARY

ABB Environmental Services, Inc. (ABB-ES), conducted a contamination assessment at Site 2662W from January 1992 through March 1994. An area of excessively contaminated soil was assessed northwest of Building 2662. Significant benzene and total recoverable petroleum hydrocarbons (TRPH) concentrations were detected in groundwater samples collected from monitoring wells in the area. ABB-ES recommended remediation of excessively contaminated soil and groundwater in the vicinity of Building 2662 (ABB-ES, 1994). FDEP agreed with the recommendation and requested confirmatory groundwater sampling in the vicinity of Building 2662 during soil remediation. Soil removal and remediation was initiated by Bechtel Environmental, Inc., as an interim remedial action (IRA) in October 1994. At the same time, the Navy was planning to construct a new training school at Chevalier Field as part of the Base Realignment and Closure initiative. Construction began in December 1994.

ABB-ES performed a supplemental field investigation at Site 2662W in conjunction with the IRA. The supplemental field investigation included soil screening with an organic vapor analyzer (OVA) around the perimeter of the excavation, installing temporary monitoring wells inside and outside the perimeter of the excavation, and groundwater sampling of the temporary and existing permanent monitoring wells. All contaminated soil in the vicinity of Site 2662W with OVA readings greater than 50 parts per million (ppm) was removed. In total, approximately 4,700 cubic yards of soil were removed from the excavation. Results of the supplemental field investigation are reported in the Contamination Assessment Report Addendum (ABB-ES, 1995). ABB-ES recommended quarterly groundwater sampling at the site as part of a monitoring only plan (MOP). Implementation of the MOP was not possible, however, until construction activities at the site were completed.

ABB-ES returned to the site in September 1996, installed 17 monitoring wells to replace those destroyed during construction, and collected groundwater samples from the wells (see Executive Summary figure).

A summary of the findings and conclusions of the additional field investigation are presented below.

- No free product was observed in any of the site monitoring wells.
- There are no potable wells within a 0.25-mile radius of the site. Potable wells at the facility are upgradient and produce from water bearing zones significantly deeper than the zone at Site 2662W (ABB-ES, 1994).
- Total benzene, toluene, ethylbenzene, and xylenes and TRPH concentrations were less than the State guidance concentrations of 50 parts per billion (ppb) and 5 ppm, respectively.
- Lead concentrations in the unfiltered groundwater samples exceeded the State drinking water standard of 15 ppb. However, based on the findings of previous investigations, the high lead concentrations are suspected to be the result of suspended sediment in the groundwater.

Based on the findings and interpretations of the additional field investigation, ABB-ES recommends No Further Action for Site 2662W at Naval Aviation Depot, Pensacola.

Executive Summary Figure

11 x 17

ACKNOWLEDGMENTS

In preparing this report, the Underground Storage Tank Section of the Comprehensive Long-Term Environmental Action, Navy Group at ABB Environmental Services, Inc., commends the support, assistance, and cooperation provided by the personnel at Naval Aviation Depot, Naval Air Station, Pensacola, Florida, and Southern Division, Naval Facilities Engineering Command.

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Naval Aviation Depot, Naval Air Station Pensacola
Pensacola, Florida

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- Appendix C: Groundwater Sample Analytical Data

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Pensacola, Florida

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GLOSSARY

ABB-ES	ABB Environmental Services, Inc.
bls	below land surface
BTEX	benzene, toluene, ethylbenzene, and xylene
CA	contamination assessment
CAR	Contamination Assessment Report
FAC	Florida Administrative Code
FDEP	Florida Department of Environmental Protection
ID	inside diameter
IRA	Initial Remedial Action
MTBE	methyl tert-butyl ether
NADEP	Naval Aviation Depot
NAS	Naval Air Station
NTU	Nephelometric Turbidity Units
OVA	organic vapor analyzer
ppb	parts per billion
ppm	parts per million
PVC	polyvinyl chloride
SOUTHNAV- FACENGC	Southern Division, Naval Facilities Engineering Command
TRPH	total recoverable petroleum hydrocarbons
USEPA	U.S. Environmental Protection Agency
UST	underground storage tank
VOA	volatile organic aromatics

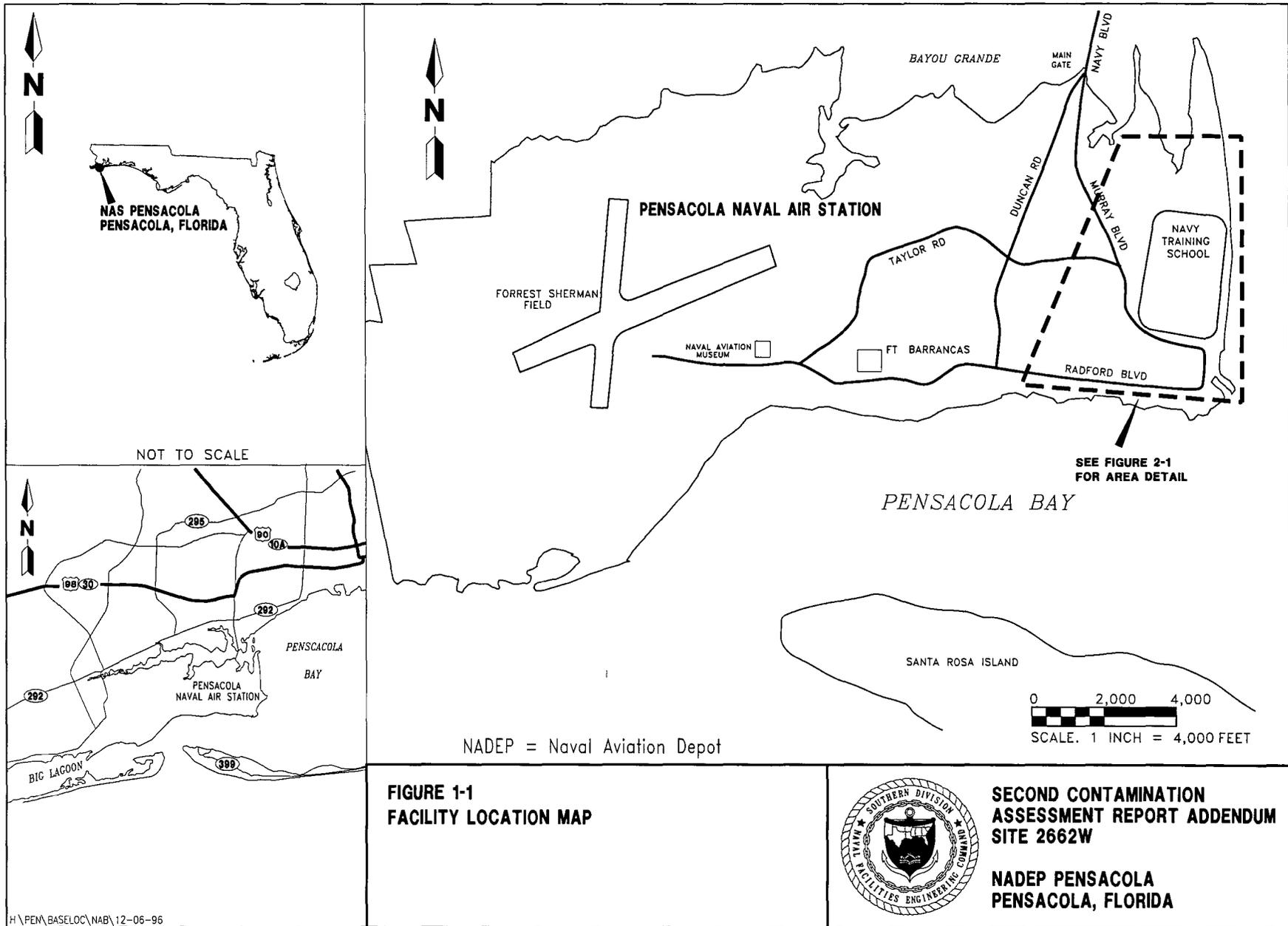
1.0 INTRODUCTION

In 1987, the Naval Air Rework Facility in Pensacola, Florida, was renamed the Naval Aviation Depot (NADEP). NADEP Pensacola, Florida, formerly the operations and repair department of the Naval Air Station (NAS) Pensacola, is now a tenant command located on NAS facilities within the Pensacola Naval Base Complex. The Pensacola Naval Base Complex is located on the western edge of Pensacola Bay on State Road 295 (Navy Boulevard; Figure 1-1). NADEP Pensacola occupies approximately 130 acres at NAS Pensacola. The mission of NADEP Pensacola is to maintain and operate facilities for, and perform a complete range of depot-level rework operations on designated weapons systems, accessories, and equipment; manufacture parts and assemblies, as required; provide engineering services in hardware design; furnish technical services on aircraft maintenance and logistic problems; and perform other levels of aircraft maintenance.

Petroleum underground storage tanks (USTs) at various NADEP locations were removed during a UST removal program implemented by the U.S. Navy in 1989 and 1990. In many cases, the old USTs were replaced with new USTs. NAS personnel reported that the UST contents were restricted to petroleum products ranging from waste oil, diesel fuel, unleaded gasoline, and PD-680 (a petroleum distillate solvent similar to mineral spirits). The reported capacity of the USTs varied from 500 to 3,000 gallons. Soil samples were collected from each UST excavation and analyzed for total recoverable petroleum hydrocarbons (TRPH). Based on TRPH concentrations, 18 sites were found to be noncompliant with Florida Department of Environmental Protection (FDEP; formerly Florida Department of Environmental Regulation) standards, as defined in Chapter 62-770, Florida Administrative Code (FAC).

ABB Environmental Services, Inc. (ABB-ES), was contracted by Southern Division, Naval Facilities Engineering Command (SOUTHNAVFACENGCOCM) to perform a contamination assessment (CA) and submit a Contamination Assessment Report (CAR) for each of the 18 petroleum-contaminated sites at NADEP.

The CA at Site 2662W was conducted from January 1992 through March 1994. A CAR was submitted to FDEP in April 1994. SOUTHNAVFACENGCOCM received comments to the CAR in June 1994 in which FDEP requested a supplemental field investigation be performed at the site in conjunction with initial remedial action (IRA) to remove free product and excessively contaminated soil. At the same time, the Navy was planning to construct a new training school at Chevalier Field as part of the Base Realignment and Closure initiative. Construction began in December 1994. ABB-ES conducted a supplemental field investigation from November 1994 through February 1995 to address the CAR comments. A CAR Addendum was submitted to FDEP in May 1995. The CAR Addendum included a recommendation to implement a monitoring only plan following completion of construction activities at the site. ABB-ES returned to the site in September 1996, installed new monitoring wells to replace those destroyed during construction, and collected groundwater samples from the wells. This Second CAR Addendum presents the findings and conclusions of the additional field investigation.



2.0 SITE BACKGROUND

2.1 SITE DESCRIPTION. Site 2662W is the former location of a 1,000-gallon UST located on the west side of the former location of Building 2662, which was in the southeast part of Chevalier Field (Figure 2-1). Before construction of the naval training school, Chevalier Field was used as a helicopter maintenance and testing facility. According to facility personnel, the UST west of Building 2662 was used to store water-contaminated jet propellant-5 jet fuel and used oil. Other potential sources of contamination at the site are discussed in the Site 2662W CAR (ABB-ES, 1994).

2.2 SITE HISTORY. The Site 2662W UST was installed in 1983 and removed during the tank removal program conducted in 1989 and 1990. One composite soil sample was collected from the UST excavation and analyzed for TRPH. The reported TRPH concentration of 2,100 parts per million (ppm) exceeded the State target level of 10 ppm for uncontaminated soil as defined in Chapter 62-775, FAC. Further site investigation pursuant to Chapter 62-775, FAC, was, therefore, warranted. Excavated soil was reportedly returned to the excavation after UST removal. No reports or tank closure forms were completed for the tank removal.

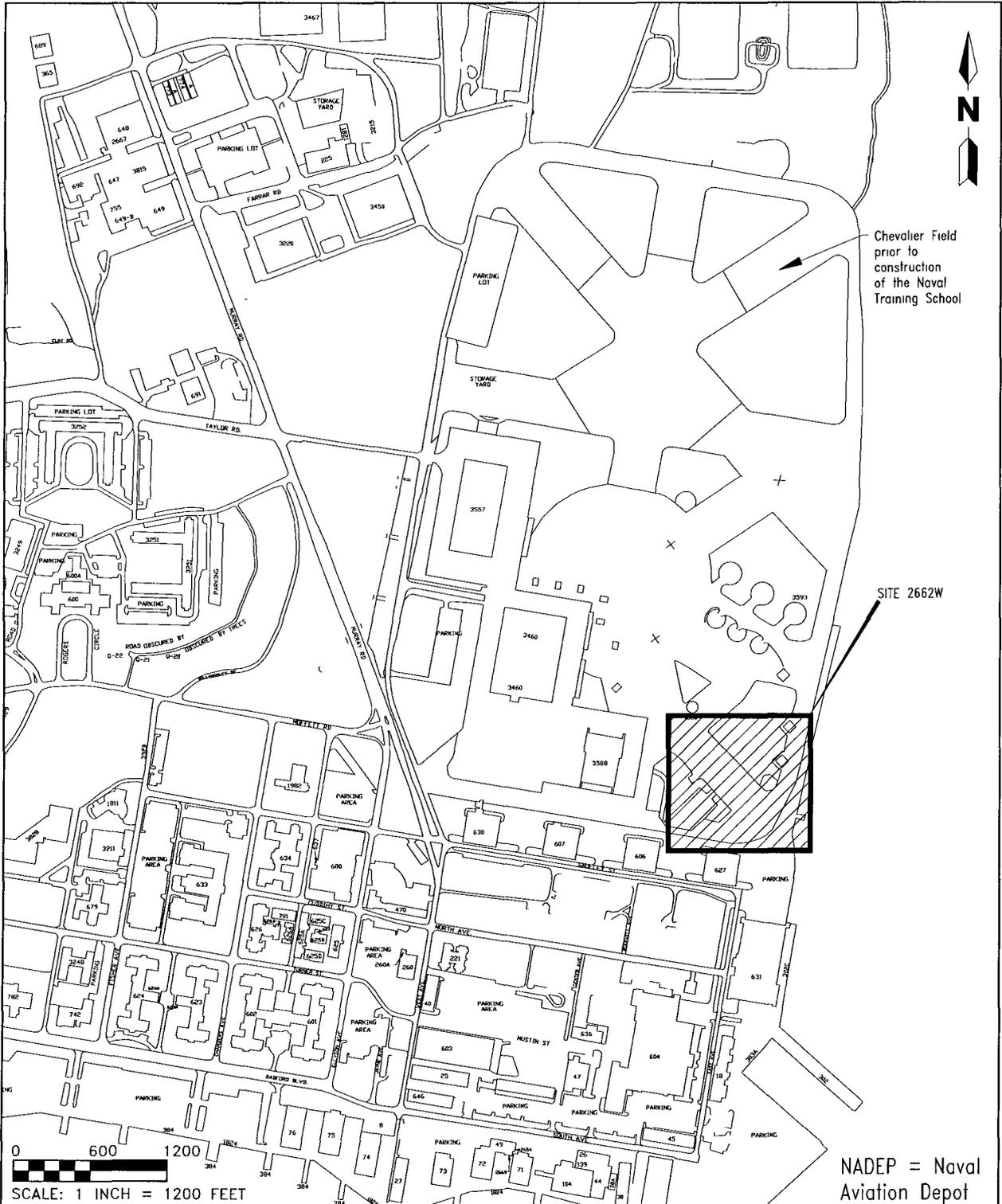
ABB-ES conducted a CA at Site 2662W from January 1992 through March 1994 and the CAR was submitted to FDEP in April 1994. ABB-ES recommended remediation to clean up excessively contaminated soil and groundwater in the vicinity of Building 2662 (ABB-ES, 1994). FDEP agreed with the recommendations but required additional CA at the site during soil remediation or removal.

An IRA for soil remediation was initiated by Bechtel Environmental, Inc., in October 1994. All contaminated soil in the vicinity of Site 2662W with organic vapor analyzer (OVA) readings greater than 50 ppm was removed and replaced with clean fill material (see Figure 2-2). In total, approximately 4,700 cubic yards of soil was removed from the excavation. Eighteen temporary monitoring wells were installed inside and outside the perimeter of the excavation. Groundwater samples were collected from all site monitoring wells and analyzed by a U.S. Environmental Protection Agency (USEPA)-approved laboratory. After receiving the analytical results, the wells were grout abandoned.

Results and conclusions of the supplemental field investigation can be found in the CAR Addendum (ABB-ES, 1995). Included in the CAR Addendum was a recommendation that ABB-ES return to the site after construction activities were completed on the naval training school. Copies of FDEP's comments to the CAR and CAR Addendum are attached in Appendix A, Florida Department of Environmental Protection Correspondence.

2.3 SCOPE. The scope of services performed as part of the September 1996 field investigation included the following:

- installing seventeen monitoring wells to a depth of 13 feet below land surface (bls);
- collecting groundwater samples from each monitoring well at the site;



**2-1
SITE LOCATION MAP**

NADEP = NAVAL AVIATION DEPOT PENSACOLA

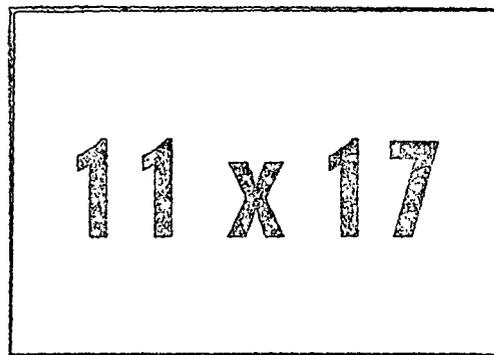


**SECOND CONTAMINATION
ASSESSMENT REPORT ADDENDUM
SITE 2662W**

**NADEP PENSACOLA
PENSACOLA, FLORIDA**

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Figure 2-2 Areal Extent of Soil Remediation



- shipping the groundwater samples to a USEPA-approved laboratory to be analyzed for volatile organic aromatics (VOA) and methyl tert-butyl ether (MTBE) by USEPA Method 602, for TRPH by USEPA Method 418.1, for lead by USEPA Method 239.2, and for cadmium by USEPA Method 200.7; and
- collecting water-level data to assess the groundwater flow direction at the site.

3.0 SUPPLEMENTAL GROUNDWATER ASSESSMENT RESULTS

3.1 METHODOLOGIES AND EQUIPMENT. All methodologies and equipment used during the supplemental assessment were in conformance with the ABB-ES, FDEP-approved, Comprehensive Quality Assurance Plan and are described in the Site 2662W CAR (ABB-ES, 1994).

3.1.1 Monitoring Well Construction Seventeen monitoring wells (designated MW-1 through MW-17) were installed at the site to replace the 18 temporary wells and 7 permanent wells destroyed during construction activities at the site. New monitoring well locations are shown on Figure 3-1. Monitoring well locations relative to previous site features are shown on Figure 3-2.

The monitoring wells were installed to a depth of 13 feet bls. Borings for each monitoring well were advanced with a truck-mounted drill rig using rotary drilling techniques with 4.25-inch inside diameter (ID) hollow-stem augers. Each monitoring well was constructed of 2-inch ID, Schedule 40, polyvinyl chloride (PVC) casing with flush-threaded joints and 10 feet of 0.010-inch machine-slotted screen. PVC well casing extends from the top of the screen to land surface. A 20/30 grade silica sand filter pack was placed in the annular space to approximately 1 foot above the top of the screened interval. A 6-inch-thick bentonite seal was placed on top of the filter pack. The remaining annular space was grouted to surface with a neat cement grout. A protective traffic-bearing vault was installed to complete the well. Monitoring wells are equipped with a locking well cap and a padlock.

3.1.2 Groundwater Sampling and Analyses Groundwater samples were collected from monitoring wells MW-1 through MW-17 on September 27 and September 28, 1996. Before sampling, each monitoring well was purged using a low-flow purging technique. Five well volumes were removed from each well. Samples were collected through Teflon™ and silicon tubing. The samples were placed into appropriate containers, properly preserved, placed on ice, and shipped to National Environmental Testing, Inc., Bedford, Massachusetts, a USEPA-approved analytical laboratory. Each sample was analyzed for VOA and MTBE by USEPA Method 602, for TRPH by USEPA Method 418.1, for lead by USEPA Method 239.2, and for cadmium by USEPA Method 200.7. The samples were not analyzed for ethylene dibromide, polynuclear aromatic hydrocarbons, or total metals because previous concentrations were less than State regulatory standards.

Turbidity measurements were performed in the analytical laboratory. Lead samples with turbidity measurements greater than 5 nephelometric turbidity units (NTU) were filtered and reanalyzed.

3.2 GROUNDWATER ELEVATION AND FLOW DIRECTION. Depth to groundwater was measured in monitoring wells MW-1 through MW-17 prior to sampling on September 26, 1996 (see Table 3-1). Depth to groundwater was measured relative to the top of each well casing, referenced to an arbitrary benchmark, and a water table contour map was constructed using this information (Figure 3-3). The groundwater at Site 2662W has been consistently flowing southeast as indicated by previous data (ABB-ES, 1994).

Figure 3-1 Monitoring Well Location Map

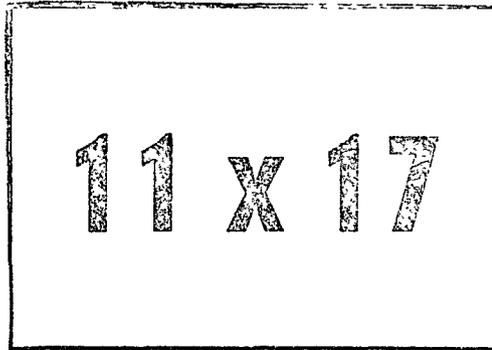
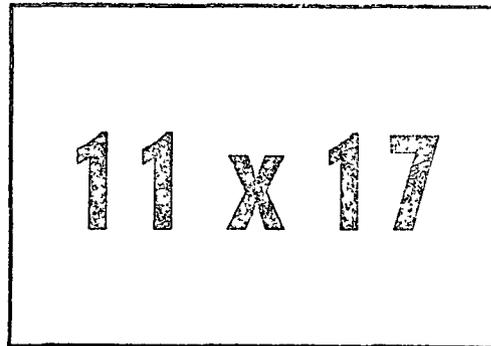


Figure 3-2 Monitoring Well Locations Relative to Previous Site Features



**Table 3-1
Top-of-Casing and Groundwater Elevations,
February 1, 1995**

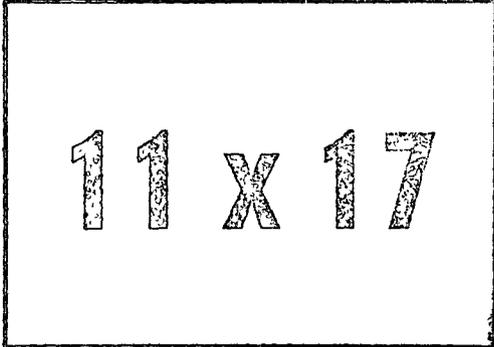
Second Contamination Assessment Report Addendum Site 2662W
Naval Aviation Depot, Naval Air Station Pensacola
Pensacola, Florida

Well Number	Total Depth (feet bls)	Screened Interval (feet bls)	Top-of-Casing Elevation ¹	Depth to Water (feet)	Water Table Elevation ¹
MW-1	13 01	3 to 13	100.00	4 43	95.57
MW-2	13.00	3 to 13	99.83	4.11	95 72
MW-3	13 12	3 to 13	100 59	4 77	95.82
MW-4	13 04	3 to 13	99 76	3.87	95.89
MW-5	13.16	3 to 13	100.49	4 52	95 97
MW-6	13 05	3 to 13	100.00	3 91	96 09
MW-7	13.46	3 to 13	100.10	3 60	96.50
MW-8	13 09	3 to 13	101 79	4.62	97 17
MW-9	13 10	3 to 13	100 84	3.36	97 48
MW-10	13 12	3 to 13	101 38	4.26	97 12
MW-11	13.12	3 to 13	101.31	4.38	96.93
MW-12	13.13	3 to 13	100.97	3.79	97.18
MW-13	13.14	3 to 13	100 95	4.24	96 71
MW-14	13.38	3 to 13	101.51	4.99	96.52
MW-15	13.14	3 to 13	100.56	4.49	96.07
MW-16	13.19	3 to 13	99.78	3.68	96 10
MW-17	13 19	3 to 13	100.85	5 05	95.80

¹Elevations referenced to an arbitrary benchmark

Note. bls = below land surface.

Figure 3-3 Water Table Contour Map, September 26, 1996



3.3 POTABLE WELL SURVEY. A potable well survey was conducted during the initial assessment to identify potable water sources within 0.25 mile of Site 2662W. Two potable supply wells (designated as Well No. 1 and Well No 2 on Figure 3-4) exist at NAS Pensacola (Wilkins and others, 1985). The NAS Pensacola water supply system is used in conjunction with the Corry Field water supply system, which is located approximately 2 miles north of NAS Pensacola. According to NADEP personnel, these wells are not currently used for potable water supplies at NAS Pensacola, but are available as reserve potable water supplies should the need arise.

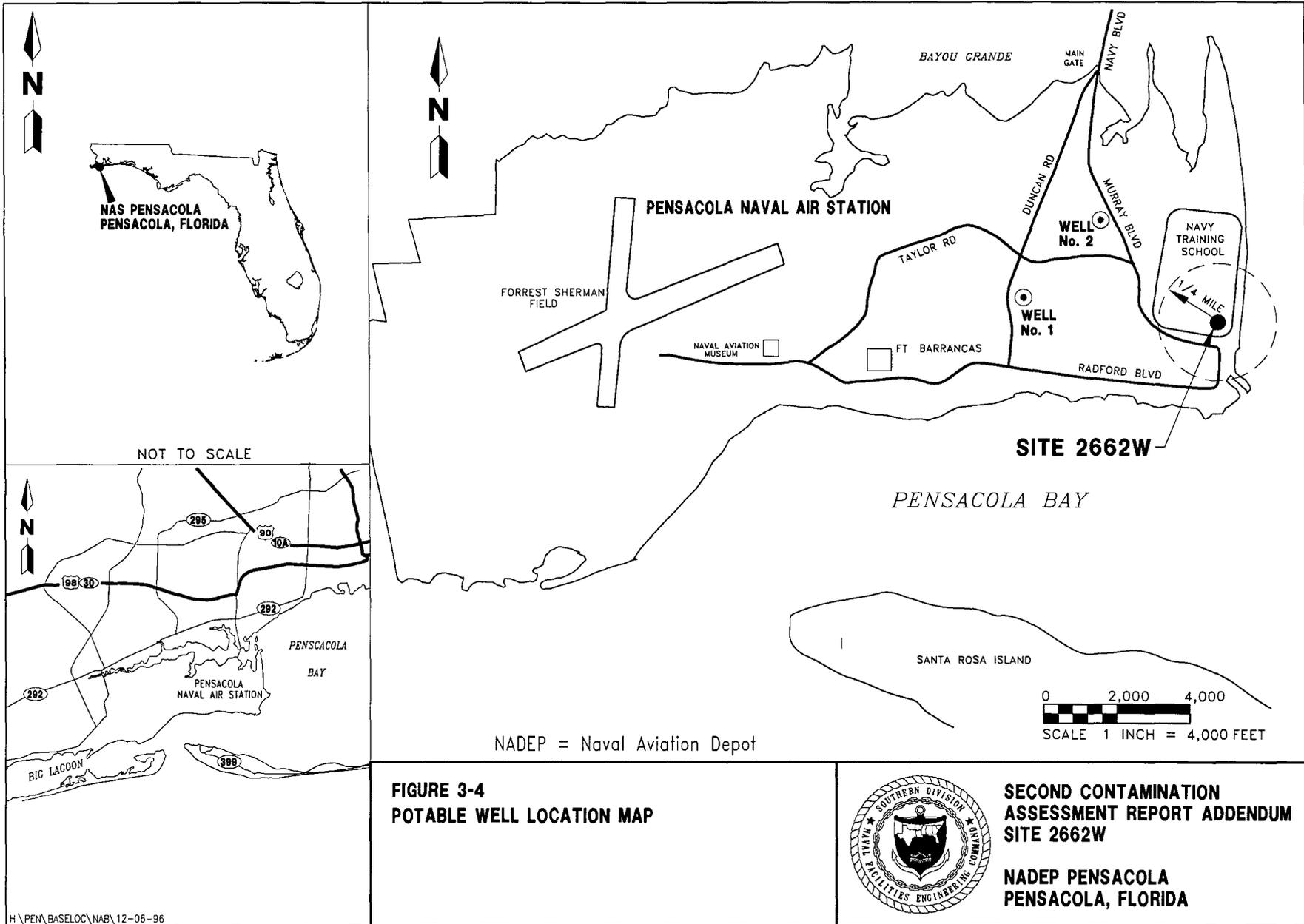
Both wells at NAS Pensacola are screened in the main producing zone of the sand-and-gravel aquifer at depths ranging from 105 feet to 160 feet bls. Both wells are to the west and northwest, and located outside of a 0.25-mile radius of the site. This fact, in addition to the southeastern groundwater flow direction, indicates that contamination of potable water sources from activities at Site 2662W is not likely.

3.4 GROUNDWATER ASSESSMENT RESULTS. Groundwater analytical laboratory results for the samples collected September 27 and September 28, 1996, are presented in Appendix C, Groundwater Sample Analytical Data, and are summarized in Table 3-2.

The greatest total benzene, toluene, ethylbenzene, and xylenes (BTEX) concentration (the sum of benzene, toluene, ethylbenzene, and xylenes), 22 parts per billion (ppb), detected in the groundwater sample from monitoring well MW-15, is less than the State regulatory standard of 50 ppb required for a No Further Action determination. Concentrations of individual BTEX constituents were less than the minimum regulatory standards listed in Table 3-2 in all samples collected at the site. TRPH concentrations in all samples were less than the laboratory detection limit of 2 ppm. Total BTEX and TRPH concentrations have decreased significantly since the site was sampled in February 1995 following the IRA.

Lead Concentrations Lead was detected in the samples collected from monitoring wells MW-1, MW-2, MW-3, MW-6, MW-10, MW-11, and MW-13 through MW-17, at concentrations ranging from 4 ppb to 230 ppb (Figure 3-5). Lead concentrations exceeding the State drinking water standard of 15 ppb were detected in samples from 10 monitoring wells at the site. The highest lead concentration, 230 ppb, was detected in the unfiltered sample from monitoring well MW-2. The lead concentration in the filtered sample, however, was only 22 ppb. The lead concentration in the unfiltered sample from source area monitoring well MW-15, installed at the former gasoline UST location, was only 20 ppb.

Analyses of soil used to backfill the excavation at Site 2662 revealed that approximately one-third of the thermally treated soil exceeded the 108 ppm total lead limit specified in Chapter 62-775.410, FAC. The soil did not, however, exceed the 400 ppm guidance concentration for residential land use quoted by FDEP (ABB-ES, 1995). Because of the fact that 1) backfilled soil at the site is known to have a high lead concentration and 2) lead concentrations in groundwater samples previously collected from wells in the vicinity of the former gasoline UST were less than 15 ppb (ABB-ES, 1994), it is suspected that high lead concentrations detected in the most recent groundwater samples were the result of suspended sediment in the groundwater. In addition, fill material at the site



**Table 3-2
Groundwater Analytical Data
September 1996**

Second Contamination Assessment Report Addendum Site 2662W
Naval Aviation Depot, Naval Air Station Pensacola
Pensacola, Florida

Compound	Regulatory Standard or Guidance Concentration	MW-1	MW-2	MW-3	MW-4	MW-5	MW-6	MW-7
Benzene	¹ 50	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Ethylbenzene	² 700	2	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Toluene	² 1,000	2	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Xylene	10,000	1	1	<1.0	<1.0	<1.0	<1.0	<1.0
Total BTEX	¹ 50	5	1	<4.0	<4.0	<4.0	<4.0	<4.0
Lead (total)	² 15	31	230	220	<2.0	<2.0	64	<2.0
Lead (dissolved)	² 15	24	22	110	NA	NA	15	NA

See notes at end of table.

**Table 3-2 (Continued)
Groundwater Analytical Data
September 1996**

Second Contamination Assessment Report Addendum Site 2662W
Naval Aviation Depot, Naval Air Station Pensacola
Pensacola, Florida

Compound	Regulatory Standard or Guidance Concentration	MW-8	MW-9	MW-10	MW-11	MW-12	MW-13	MW-13 Dup
Benzene	¹ 50	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1
Ethylbenzene	² 700	<1.0	<1.0	<1.0	1	<1.0	<1.0	<1.0
Toluene	² 1,000	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Xylene	10,000	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Total BTEX	¹ 50	<4.0	<4.0	<4.0	1	<4.0	<4.0	1
Lead (total)	² 15	<2.0	<2.0	47	20	<2.0	24	23
Lead (dissolved)	² 15	NA	NA	8.6	<2.0	NA	NA	NA

See notes at end of table.

Table 3-2 (Continued)
Groundwater Analytical Data
September 1996

Second Contamination Assessment Report Addendum Site 2662W
 Naval Aviation Depot, Naval Air Station Pensacola
 Pensacola, Florida

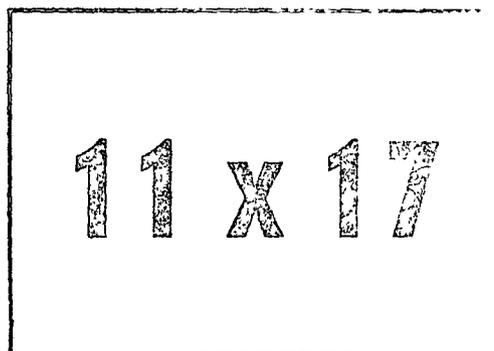
Compound	Regulatory Standard or Guidance Concentration	MW-14	MW-14 Dup	MW-15	MW-16	MW-17
Benzene	¹ 50	<1.0	<1.0	4	<1.0	<1.0
Ethylbenzene	² 700	<1.0	<1.0	15	<1.0	<1.0
Toluene	² 1,000	2	2	<1.0	<1.0	<1.0
Xylene	10,000	2	2	3	<1.0	2
Total BTEX	¹ 50	4	4	22	<4.0	2
Lead (total)	² 15	23	29	20	54	4.2
Lead (dissolved)	² 15	NA	NA	NA	NA	NA

¹ Florida Department of Environmental Regulation, 1990 guidance concentration for perimeter monitoring wells.
² Chapter 62-550, Florida Administrative Code.
³ Represents concentrations of total xylenes.

Notes: All concentrations are in parts per billion.

< = less than.
 BTEX = the sum of benzene, toluene, ethylbenzene, and total xylenes.
 NA = not analyzed.
 Dup = duplicate.

Figure 3-5 Distribution of Lead Concentrations in Groundwater Samples,
September 1996



contained a significant amount of clay. Field experience has shown that some clay sediment will pass through 0.45-micron metals filters. The samples with the highest lead concentrations, from monitoring wells MW-2 (230 ppb) and MW-3 (220 ppb), also had high turbidity measurements (greater than 5 NTU).

4.0 SUMMARY, FINDINGS, CONCLUSIONS, AND RECOMMENDATIONS

4.1 SUMMARY. Based upon results of the previous investigation and additional field investigation, the following is a summary of the conditions observed at Site 2662W.

4.2 FINDINGS AND CONCLUSIONS.

- All contaminated soil in the vicinity of Site 2662W with OVA readings greater than 50 ppm was removed in 1995 as an IRA. In total, approximately 4,700 cubic yards of soil were removed from the excavation.
- Groundwater beneath the site was encountered at depths of approximately 2 feet to 4 feet bls and is classified as G-II.
- The groundwater flow direction at the site is toward the southeast.
- There are no potable wells within a 0.25-mile radius of the site. Potable wells at the facility are upgradient and produce from water-bearing zones significantly deeper than the zone at Site 2662W (ABB-ES, 1994).
- No free product was detected in any of the site monitoring wells.
- Total BTEX and TRPH concentrations were less than the State guidance concentrations of 50 ppb and 5 ppm, respectively.
- Lead concentrations in the unfiltered groundwater samples exceeded the State drinking water standard of 15 ppb. However, based on the findings of previous investigations, the high lead concentrations are suspected to be the result of suspended sediment in the groundwater.

4.3 RECOMMENDATIONS. Based on the findings and interpretations of the additional field investigation, ABB-ES recommends No Further Action for Site 2662W at NADEP Pensacola.

5.0 PROFESSIONAL REVIEW CERTIFICATION

This CAR Addendum was prepared under the direct supervision of a professional geologist registered in the state of Florida. The work and professional opinions rendered in this report were conducted or developed in accordance with commonly accepted procedures consistent with applicable standards of practice. This assessment is based on the geologic investigation and associated information detailed in the text and appended to this report referenced in public literature. Recommendations are based upon interpretations of the applicable regulatory requirements, guidelines, and relevant issues discussed with regulatory personnel during the site assessment. If conditions that differ from those described are determined to exist, the undersigned geologist should be notified to evaluate the effects of any additional information on this assessment or the recommendations made in this report. This report meets the criteria set forth in Chapter 492 of the Florida Statutes with regard to good professional practices as applied to Chapter 62-770, FAC. This CAR Addendum was developed for Site 2662W at NADEP, NAS Pensacola, Florida, and should not construed to apply to any other site.



Michael J. Williams
Professional Geologist
P.G. No. 344

12/11/96

Date

REFERENCES

- ABB Environmental Services, Inc. (ABB-ES), 1994, Contamination Assessment Report, Site 2662W, Naval Aviation Depot (NADEP), Naval Air Station (NAS), Pensacola, Florida: prepared for Southern Division, Naval Facilities Engineering Command (SOUTHNAVFACENGCOM), North Charleston, South Carolina.
- ABB-ES, 1995, Contamination Assessment Report Addendum, Site 2662W, NADEP, NAS, Pensacola, Florida: prepared for SOUTHNAVFACENGCOM, Charleston, South Carolina.
- Florida Department of Environmental Protection, 1990, No Further Action and Monitoring Only Guidelines for Petroleum Contaminated Sites, 6 p., October.
- NADEP, Pensacola, Florida 1992, Telephone Directory: 32 p.
- U.S. Geological Survey, 1970, Fort Barrancas Quadrangle: 7.5-minute topographic series.
- Wilkins, K.T., J.R. Wagner, and T.W. Allen, 1985, Hydrogeologic data from the sand-and-gravel aquifer in southern Escambia County, Florida: Northwest Florida Water Management District Technical File Report 85-2, 153 p.

APPENDIX A

**FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
CORRESPONDENCE**

107-75 27

rec'd 11/17/95

Department of
Environmental Protection

Lawton Chiles
Governor

Twin Towers Building
2600 Blair Stone Road
Tallahassee, Florida 32399-2400

Virginia B. Wetherell
Secretary

November 9, 1995

Mr. Byas Glover
Code 18410
Southern Division
Naval Facilities Engineering Command
2155 Eagle Drive
P.O. Box 190010
North Charleston, South Carolina 29419-9010

RE: Response to FDEP Comments and Monitoring Only Plan
Recommendation Submittal for Contamination Report Addendum
for Site 2662W, Naval Aviation Depot (NADEP), NAS Pensacola
Contract No. N62467-89-D-0317/008

Dear Mr. Glover:

I have completed the technical review of ABB Environmental's response dated October 27, 1995 (received October 30, 1995) to my comments on the above Contamination Assessment Report Addendum for Site 2662W. Based upon my review, I cannot approve a Monitoring Only Plan (MOP) at this time, nor should the area of temporary well TW-11 be addressed as a separate site. However, I have the following recommendations.

Once construction is near completion in the area of the site, the following permanent monitoring wells should be installed (see attachment):

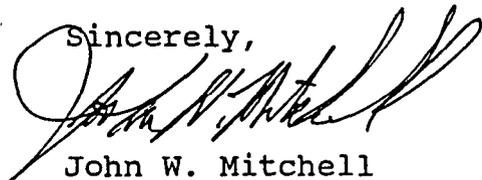
1. one well hydrologically upgradient (northwest),
2. two wells within the area of contamination; one which is in the area of highest contamination,
3. two perimeter wells side gradient (one on each side of the contaminated area),
4. one well downgradient (southeast) of the contaminated area,
5. one well in the former location of temporary well TW-11,
6. one well just upgradient (northwest) of former TW-11, and
7. one well downgradient (southeast) of TW-11.

These wells should be sampled and the analytical data submitted as a CAR Addendum. After these results, a determination will be made on what further action needs to be taken (i.e., no further action; MOP; etc.). Even though additional wells may be needed, a MOP may still be appropriate depending on the degree and extent of groundwater contamination.

Mr. Byas Glover
November 9, 1995
Page two

If I can be of any further assistance with this matter,
please contact me at (904) 921-9989.

Sincerely,



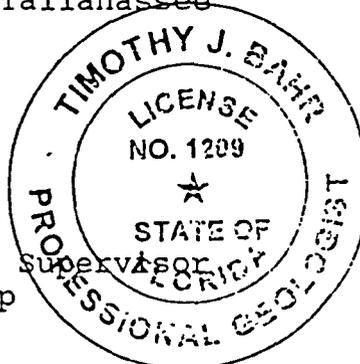
John W. Mitchell
Remedial Project Manager

cc: Bill Hill, Navy SouthDiv
Ron Joyner, NAS Pensacola
Dean Spencer, NAS Pensacola
Jay Bassett, USEPA Region IV
Tom Moody, FDEP Northwest District
Mark Diblin, ABB Tallahassee

Reviewed by:



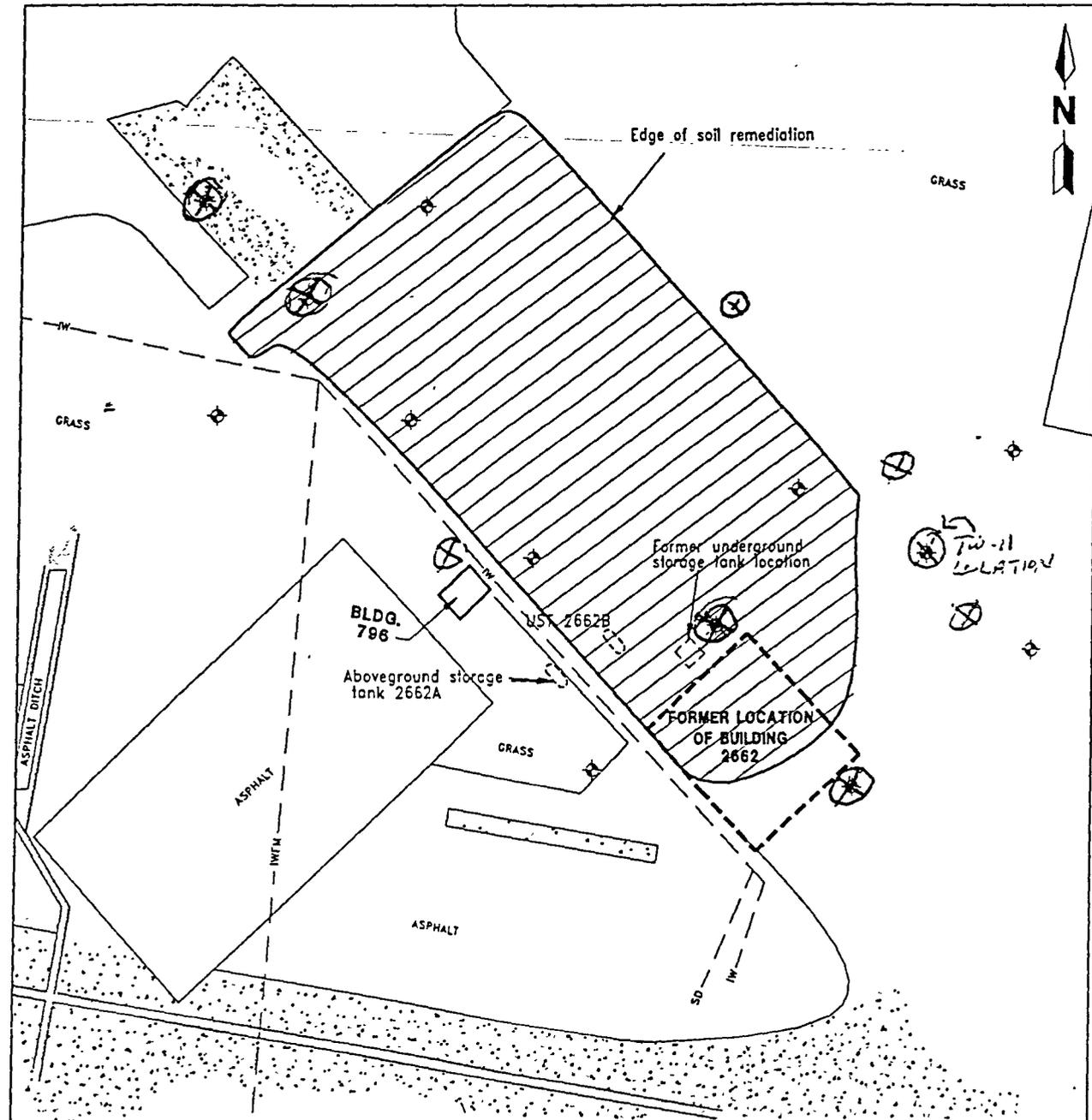
Timothy J. Bahr, P.G.
Professional Geologist Supervisor
Bureau of Waste Cleanup



11/9/95
Date

JJC  ESN ESN

⊗ → RECOMMENDED WELL LOCATIONS



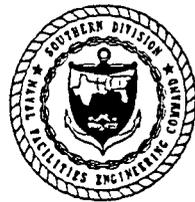
⊗ TW-11 LOCATION

LEGEND

	Area of soil remediation		Proposed monitoring well location
	Edge of asphalt pavement		UST Underground storage tank
	Concrete		
	Industrial waste force main		
	Storm drain		
	Industrial waste line		

0 50 100
 SCALE: 1 INCH = 100 FEET

**FIGURE 4-1
 PROPOSED MONITORING WELL
 LOCATION MAP**



MONITORING ONLY PLAN
 SITE 2662W
 NADEP PENSACOLA
 PENSACOLA, FLORIDA



October 27, 1995

Document No. 7527.106

Mr. Eric Nuzie
Federal Facilities Coordinator
Bureau of Waste Cleanup
Florida Department of Environmental Protection
2600 Blair Stone Road
Tallahassee, Florida 32399

SUBJECT: Response to FDEP Comments dated September 21, 1995 and Submittal of the Monitoring Only Plan Recommendation for the Contamination Assessment Report Addendum for Site 2662W
Naval Aviation Depot (NADEP)
Naval Air Station, Pensacola, Florida.
Contract No. N62467-89-D-0317, CTO No. 008.

Dear Mr. Nuzie:

Pursuant to our phone conversation with John Mitchell on October 19, 1995, ABB-ES is submitting this response to the Site 2662W CAR Addendum comments dated September 21, 1995. The following is our current approach to the monitoring only plan (MOP) after speaking with the construction personnel at NAS Pensacola.

At the present time the area we need to access is covered by a huge concrete rubble pile and a crushed concrete rubble pile. The concrete is stored in one pile while waiting to be crushed and the crushed pile is stored nearby for reuse in road building and other construction work. Construction is scheduled for completion by November 6, 1996. I spoke with Frosty White (Environmental Coordinator) of George Hyman Construction who provided me with this information. She was reasonably sure that access to the Site 2662W area would not be available for about six months. I informed her that I would periodically check back with her to assess the progress of the project and to reassess when we may be able to work in the Site 2662W area.

The soonest we might gain access is May 1996 and there is no guarantee that we will be able to access the area before November 6, 1996 (the scheduled completion date). As with construction projects, the possibility exist that delays could extend the scheduled finish date. With these items in mind ABB-ES recommends that the start of the MOP be delayed until the completion of construction. This recommendation is consistent with the Contamination Assessment Report (CAR).

Several questions remain: 1) can the CAR Addendum be approved "as-is" with the MOP recommendation? 2) If we considered the area near temporary well TW-11 as an additional source area could the CAR for Site 2662W be approved? If so, the area surrounding well TW-11 would be assessed as a new site.

ABB Environmental Services Inc.



Berkeley Building
2590 Executive Center Circle East
Tallahassee, Florida 32301

Telephone (904) 656-1293
Fax (904) 877-0742



Subject: Response to FDEP Comments, Sept. 21, for Site 2662W CAR Addendum
Page 2

In the past the Navy has requested that ABB-ES submit the MOP as a separate document from the CAR. Because of this request the number of wells and sampling parameters, in addition to their location, was not provided in the CAR Addendum dated May 1995. As an attachment to this document (Attachment A) we have provided the "MOP Implementation". This attachment provides the number of proposed wells, their locations, and the parameters for laboratory analysis. This attachment can be converted into a more formal MOP document if needed.

Earlier in 1995 ABB-ES abandoned all temporary wells and permanent wells that were still accessible by filling them with grout. Several wells along the northwestern and northern boundaries of the site were buried under concrete rubble and were inaccessible. Of the 25 wells listed in the CAR Addendum dated May 1995, 13 wells were believed to be destroyed. The remaining 12 wells were abandoned.

Please call me or otherwise correspond at your earliest convenience with your thoughts on our recommendations. Both Jim or I can be reached at (904)-656-1293.

Sincerely,

ABB ENVIRONMENTAL SERVICES, INC.

Mark Diblin, P.G.
Senior Task Order Manager

Jim Williams, P.G.
Technical Director

cc: Jim Williams, P.G., ABB-ES
Byas Glover, EIC, SouthDiv
Dean Spencer, NADEP
John Mitchell, RPM, FDEP
File

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Subject: Response to FDEP Comments, Sept. 21, for Site 2662W CAR Addendum
Page 5

SOUTHNAVFACENGCOM and two copies of the report will be submitted to the Public Works Department at NADEP Pensacola. Each quarterly report will include:

- 1) a brief review of site background information and site conditions;
- 2) a site location map showing the locations of the new monitoring wells;
- 3) a groundwater contamination map illustrating laboratory analytical results;
- 4) a table showing top-of-casing elevations, depth to groundwater, and groundwater elevations for the new monitoring wells; and
- 5) a groundwater flow direction map using groundwater elevations from the new monitoring wells.

The quarterly reports will include a summary of all previous groundwater analytical data for the site.

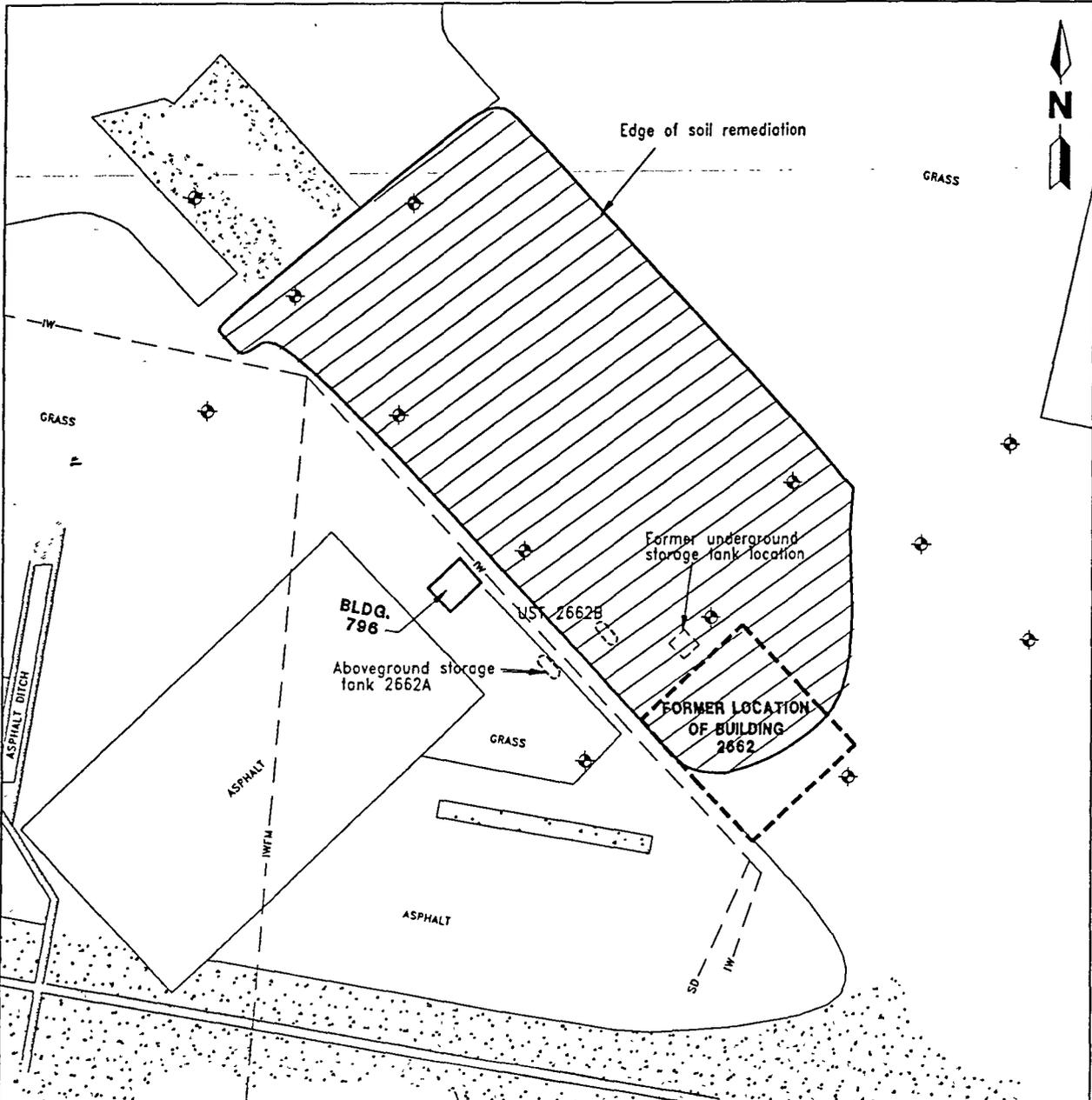
If, at the end of the monitoring period, total BTEX and TRPH concentrations are not less than the State target levels of 50 ppb and 5 ppm, respectively, then additional monitoring, supplemental assessment, and/or remediation may be required.



MONITORING ONLY PLAN (MOP) IMPLEMENTATION

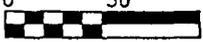
The MOP will require the following actions.

- The installation of thirteen monitoring wells in the vicinity of former permanent and temporary monitoring wells MW-2, MW-15, MW-51, TW-3, TW-4, TW-9, TW-10, TW-11, TW-12, TW-13, TW-16, TW-17, and TW-18 to replace those wells destroyed during site construction activities or abandoned (see Figure 4-1). The wells will be constructed of 2-inch inside diameter schedule 40 polyvinyl chloride (PVC) casing with flush-threaded joints and 10 feet of 0.010-inch machine-slotted screen.
- Quarterly groundwater sampling of the new monitoring wells will occur for a period of 1 year. Groundwater samples will be collected in accordance with an FDEP-approved Quality Assurance Plan (QAP). Samples will be shipped to an FDEP-approved analytical laboratory. All groundwater samples collected will be analyzed by U. S. Environmental Protection Agency (USEPA) methods: 602 for BTEX, 418.1 for TRPH, 239.2 for lead, and 200.7 for chromium. If chromium and lead concentrations are shown to be near or below method detection limits in the first quarter sample analytical results, then subsequent samples will not be analyzed for chromium and lead.
- Depth to groundwater from the top of the casing will be measured in each new monitoring well on a quarterly basis. Depth to groundwater will be measured using an electronic water-level indicator and an engineering tape with divisions in increments of 0.01 foot. Groundwater level elevations will be calculated by subtracting the measured depth to groundwater from the elevation at the top of the well casing. Top of casing (TOC) elevations will be measured by ABB-ES personnel conducting a TOC elevation survey using a level and rod. A groundwater flow direction map will be prepared using groundwater elevation data.
- Quarterly analytical results will be submitted in a written report to FDEP within 60 days of sample collection. In addition, three copies of the report will be submitted to



LEGEND

	Area of soil remediation		Proposed monitoring well location
	Edge of asphalt pavement		UST Underground storage tank
	Concrete		
	Industrial waste force main		
	Storm drain		
	Industrial waste line		

0 50 100

 SCALE: 1 INCH = 100 FEET

**FIGURE 4-1
 PROPOSED MONITORING WELL
 LOCATION MAP**



MONITORING ONLY PLAN

**SITE 2662W
 NADEP PENSACOLA
 PENSACOLA, FLORIDA**

Department of Environmental Protection

Lawton Chiles
Governor

Twin Towers Building
2600 Blair Stone Road
Tallahassee, Florida 32399-2400

Virginia B. Wetherell
Secretary

September 21, 1995

Mr. Byas Glover
Code 18410
Southern Division
Naval Facilities Engineering Command
2155 Eagle Drive
P.O. Box 190010
North Charleston, South Carolina 29419-9010

RE: Contamination Assessment Report Addendum, Site 2662W, Naval
Aviation Depot (NADEP), NAS Pensacola
Contract No. N62467-89-D-0317/008

Dear Mr. Glover:

I have completed the technical review of the Contamination Assessment Report (CAR) Addendum and Monitoring Only Proposal (MOP) dated May 1995 (received May 31, 1995), submitted for this site (2662W). Based upon my review and comments, I cannot formally approve a MOP at this time.

A BTEX concentration of 149 ppb exceeded the state requirement of 50 ppb (Chapter 62-770, F.A.C.) in one perimeter well (TW-11). Although this was the only exceedence of MOP criteria, previous investigations did not have any exceedences in the perimeter wells. This may be a localized situation. Also, since permanent monitoring wells cannot be installed until construction is completed at the NADEP in 1997, an adequate monitoring plan cannot be completed.

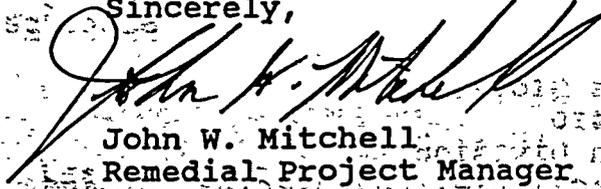
During the interim (until construction is completed in the site area), we recommend continued monitoring of an existing upgradient well and downgradient well (e.g. MW-24 and MW-6, respectively).

Additional sampling and analysis should also be performed in the area of the former temporary well TW-11 to confirm whether the BTEX contamination is localized, is from another undefined source, or is an anomaly.

Byas Glover
September 21, 1995
Page two

If I can be of any further assistance with this matter,
please contact me at (904) 921-9989.

Sincerely,



John W. Mitchell
Remedial Project Manager

cc: Bill Hill, Navy SouthDiv
Ron Joyner, NAS Pensacola
Jay Bassett, USEPA Region IV
Tom Moody, FDEP Northwest District
~~Mano D. [redacted] ABB Tallahassee~~

TJB B JJC JJC ESN ESN

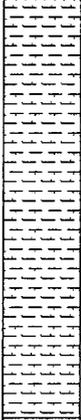
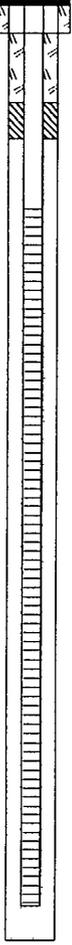
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To: RDURHAM, PWAGNER, SCALHOUN, JKOCH, JKAISER, JWILLIAM, KBUSEN, WMYERS,
KHARTNET, CMANOS, TALLEN
Subject: Successful Completion of the CAR for Site 2662W, NADEP, Pens

----- Message Contents -----

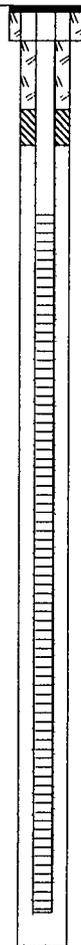
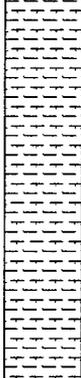
I would like to take a minute to thank the entire project team for the preparation of the CAR for Site 2662W at the NADEP, Pensacola Facility. The CAR was delivered to the Navy and the FDEP 2 days early. Thanks for all the hard work and long hours to exceed the clients expectations. We will continue with the RAP from this point.

APPENDIX B
MONITORING WELL INSTALLATION LOGS

TITLE: NADEP Pensacola		LOG of WELL: MW-1	BORING NO. N/A
CLIENT: SOUTHNAVFACENCOM		PROJECT NO. 7527-45	
CONTRACTOR: Groundwater Protection Inc.		DATE STARTED: 9/24/96	COMPLTD: 9/24/96
METHOD: 4.25" ID HSA	CASE SIZE: 2 inches	SCREEN INT.: 3-13'	PROTECTION LEVEL: D
TOC ELEV.: 100.00 FEET	MONITOR INST.: OVA	TOT DPTH. 13 FEET.	DPTH TO ∇ 4.43 FEET
LOGGED BY: P Wagner	WELL DEVELOPMENT DATE: 9/24/96		SITE: 2662W

DEPTH FT	LABORATORY SAMPLE ID	RECOVERY	HEADSPACE (ppm)	SOIL/ROCK DESCRIPTION AND COMMENTS	LITHOLOGIC SYMBOL	SOIL CLASS	BLOWS/6-IN	WELL DATA
0				FILL MATERIAL Clayey sand				
5						SP		
10				SAND. Reddish brown, fine-grained, sub-rounded, well sorted, damp to wet.				
15								
20								

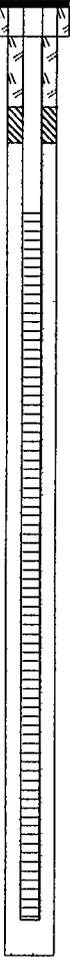
TITLE: NADEP Pensacola		LOG of WELL: MW-2	BORING NO. N/A
CLIENT: SOUTHNAVFACENCOM		PROJECT NO: 7527-45	
CONTRACTOR: Groundwater Protection Inc.		DATE STARTED: 9/24/96	COMPLTD: 9/24/96
METHOD: 4.25" ID HSA	CASE SIZE: 2 inches	SCREEN INT.: 3-13'	PROTECTION LEVEL: D
TOC ELEV.: 99.83 FEET.	MONITOR INST.: OVA	TOT DPTH: 13 FEET.	DPTH TO ∇ 4.11 FEET.
LOGGED BY: P Wagner	WELL DEVELOPMENT DATE: 9/24/96		SITE: 2862W

DEPTH FT	LABORATORY SAMPLE ID	RECOVERY	HEADSPACE (ppm)	SOIL/ROCK DESCRIPTION AND COMMENTS	LITHOLOGIC SYMBOL	SOIL CLASS	BLOWS/6-IN	WELL DATA
0				ASPHALT				
0 - 5				FILL MATERIAL Clayey sand.				
5 - 15				SAND Grayish brown, fine-grained, sub-angular, well sorted, damp to wet		SP		
15 - 20								

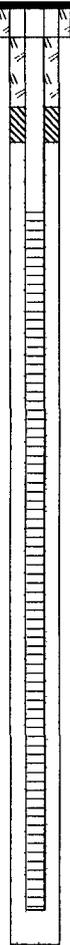
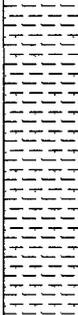
TITLE: NADEP Pensacola		LOG of WELL: MW-3	BORING NO. N/A
CLIENT: SOUTHNAVFACENGCOM		PROJECT NO: 7527-45	
CONTRACTOR: Groundwater Protection Inc		DATE STARTED: 9/24/96	COMPLTD: 9/24/96
METHOD: 4.25" ID HSA	CASE SIZE: 2 inches	SCREEN INT.: 3-13'	PROTECTION LEVEL: D
TOC ELEV.: 100 59 FEET	MONITOR INST.: OVA	TOT DPTH: 13 FEET.	DPTH TO ∇ 4 77 FEET.
LOGGED BY: P Wagner	WELL DEVELOPMENT DATE: 9/24/96		SITE: 2662W

DEPTH FT	LABORATORY SAMPLE ID	RECOVERY	HEADSPACE (ppm)	SOIL/ROCK DESCRIPTION AND COMMENTS	LITHOLOGIC SYMBOL	SOIL CLASS	BLOWS/6-IN	WELL DATA
0				FILL MATERIAL Clayey sand.	[Hatched pattern]			[Well diagram]
5						SP		
10				SAND Grayish brown, fine-grained, sub-angular, well sorted, damp to wet.				
15								
20								

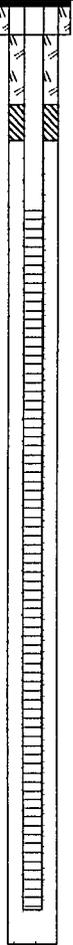
TITLE: NADEP Pensacola		LOG of WELL: MW-4	BORING NO: N/A
CLIENT: SOUTHNAVFACENGCOM		PROJECT NO: 7527-45	
CONTRACTOR: Groundwater Protection Inc		DATE STARTED: 9/24/96	COMPLTD: 9/24/96
METHOD: 4 25" ID HSA	CASE SIZE: 2 inches	SCREEN INT.: 3-13'	PROTECTION LEVEL: D
TOC ELEV.: 99.76 FEET	MONITOR INST.: OVA	TOT DPTH: 13 FEET	DPTH TO ∇ 3.87 FEET
LOGGED BY: P Wagner	WELL DEVELOPMENT DATE: 9/24/96		SITE: 2662W

DEPTH FT	LABORATORY SAMPLE ID	RECOVERY	HEADSPACE (ppm)	SOIL/ROCK DESCRIPTION AND COMMENTS	LITHOLOGIC SYMBOL	SOIL CLASS	BLOWS/6-IN	WELL DATA
				ASPHALT				
				FILL MATERIAL Clayey sand.				
5				SAND Grayish brown, fine-grained, sub-angular, well sorted, damp to wet		SP		
10				SAND. As above, yellowish brown				
15								
20								

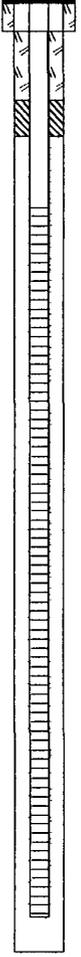
TITLE: NADEP Pensacola		LOG of WELL: MW-5	BORING NO. N/A
CLIENT: SOUTHNAVFACENGCOM		PROJECT NO: 7527-45	
CONTRACTOR: Groundwater Protection Inc		DATE STARTED: 9/24/96	COMPLTD: 9/24/96
METHOD: 4 25" ID HSA	CASE SIZE: 2 inches	SCREEN INT.: 3-13'	PROTECTION LEVEL: D
TOC ELEV.: 100.50 FEET.	MONITOR INST.: OVA	TOT DPTH: 13 FEET.	DPTH TO ∇ 4 52 FEET
LOGGED BY: P Wagner	WELL DEVELOPMENT DATE: 9/24/96		SITE. 2662W

DEPTH FT	LABORATORY SAMPLE ID	RECOVERY	HEADSPACE (ppm)	SOIL/ROCK DESCRIPTION AND COMMENTS	LITHOLOGIC SYMBOL	SOIL CLASS	BLOWS/6-IN	WELL DATA
				ASPHALT				
				FILL MATERIAL. Clayey sand.				
5				SAND Reddish orange, fine-grained, sub-rounded, well sorted, damp to wet		SP		
10				SAND. As above, yellowish brown				
15								
20								

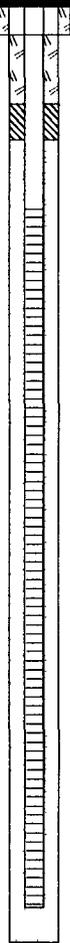
TITLE: NADEP Pensacola		LOG of WELL. MW-6	BORING NO. N/A
CLIENT: SOUTHNAVFACENGCOM		PROJECT NO: 7527-45	
CONTRACTOR: Groundwater Protection Inc		DATE STARTED: 9/24/96	COMPLTD: 9/24/96
METHOD: 4 25" ID HSA	CASE SIZE: 2 inches	SCREEN INT.: 3-13'	PROTECTION LEVEL: D
TOC ELEV.: 100 00 FEET.	MONITOR INST.: OVA	TOT DPTH: 13 FEET.	DPTH TO ∇ 3 91 FEET
LOGGED BY: P. Wagner	WELL DEVELOPMENT DATE: 9/25/96		SITE: 2662W

DEPTH FT	LABORATORY SAMPLE ID	RECOVERY	HEADSPACE (ppm)	SOIL/ROCK DESCRIPTION AND COMMENTS	LITHOLOGIC SYMBOL	SOIL CLASS	BLOWS/6-IN	WELL DATA
				FILL MATERIAL. Clayey sand.				
				FILL MATERIAL. Gravel and cobble size construction debris				
5				FILL MATERIAL. Clayey sand.		SP		
10				SAND Dark gray to grayish brown, fine-grained, sub-rounded, well sorted, wet.				
15								
20								

TITLE: NADEP Pensacola		LOG of WELL: MW-7	BORING NO. N/A
CLIENT: SOUTHNAVFACENCOM		PROJECT NO. 7527-45	
CONTRACTOR: Groundwater Protection Inc.		DATE STARTED: 9/24/96	COMPLTD: 9/24/96
METHOD: 4.25" ID HSA	CASE SIZE: 2 inches	SCREEN INT.: 3-13'	PROTECTION LEVEL: D
TOC ELEV.: 100.10 FEET.	MONITOR INST.: OVA	TOT DPTH: 13 FEET	DPTH TO ∇ 3.60 FEET
LOGGED BY: P. Wagner	WELL DEVELOPMENT DATE: 9/25/96		SITE: 2662W

DEPTH FT	LABORATORY SAMPLE ID	RECOVERY	HEADSPACE (ppm)	SOIL/ROCK DESCRIPTION AND COMMENTS	LITHOLOGIC SYMBOL	SOIL CLASS	BLOWS/6-IN	WELL DATA
				FILL MATERIAL. Clayey sand.				
				FILL MATERIAL Gravel to cobble size construction debris, visqueen, domestic trash.		SP		
5				SAND. Very dark gray, silty to fine-grained, sub-rounded, moderately sorted, wet.				
10				SAND. Grayish brown to yellowish brown, fine-grained, sub-rounded, well sorted, trace silt, wet				
15								
20								

TITLE: NADEP Pensacola		LOG of WELL: MW-8	BORING NO. N/A
CLIENT: SOUTHNAVFACENGCOM		PROJECT NO: 7527-45	
CONTRACTOR: Groundwater Protection Inc		DATE STARTED: 9/24/96	COMPLTD: 9/24/96
METHOD: 4 25" ID HSA	CASE SIZE: 2 inches	SCREEN INT.. 3-13'	PROTECTION LEVEL. D
TOC ELEV.: 101.79 FEET.	MONITOR INST.: OVA	TOT DPTH: 13 FEET	DPTH TO ∇ 4 62 FEET
LOGGED BY: P. Wagner	WELL DEVELOPMENT DATE: 9/25/96		SITE: 2662W

DEPTH FT	LABORATORY SAMPLE ID	RECOVERY	HEADSPACE (ppm)	SOIL/ROCK DESCRIPTION AND COMMENTS	LITHOLOGIC SYMBOL	SOIL CLASS	BLOWS/6-IN	WELL DATA
5				FILL MATERIAL. Clayey sand				
				SAND Very dark gray to grayish brown, fine-grained, sub-rounded, well sorted, some silt, wet.		SP		
10				SAND Grayish brown to yellowish brown, fine-grained, sub-rounded, well sorted, trace silt, wet				
15								
20								

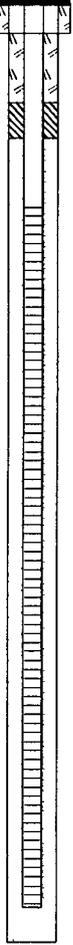
TITLE: NADEP Pensacola		LOG of WELL: MW-9	BORING NO. N/A
CLIENT: SOUTHNAVFACENGCOM		PROJECT NO. 7527-45	
CONTRACTOR: Groundwater Protection Inc		DATE STARTED: 9/24/96	COMPLTD: 9/24/96
METHOD: 4.25" ID HSA	CASE SIZE: 2 inches	SCREEN INT.: 3-13'	PROTECTION LEVEL: D
TOC ELEV.: 100.84 FEET	MONITOR INST.: OVA	TOT DPTH: 13 FEET	DPTH TO ∇ 3.36 FEET.
LOGGED BY: P. Wagner	WELL DEVELOPMENT DATE: 9/25/96		SITE: 2662W

DEPTH FT	LABORATORY SAMPLE ID	RECOVERY	HEADSPACE (ppm)	SOIL/ROCK DESCRIPTION AND COMMENTS	LITHOLOGIC SYMBOL	SOIL CLASS	BLOWS/6-IN	WELL DATA
				FILL MATERIAL Clayey sand.				
5				FILL MATERIAL. Gravel to cobble size construction debris.				
				FILL MATERIAL Clayey sand		SP		
10				SAND. Grayish brown, fine-grained, sub-rounded, well sorted, trace silt, wet				
15								
20								

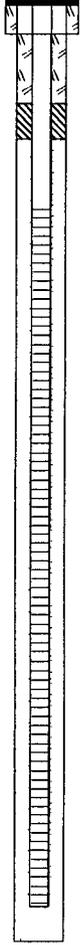
TITLE: NADEP Pensacola		LOG of WELL: MW-10	BORING NO. N/A
CLIENT: SOUTHNAVFACENGCOM		PROJECT NO. 7527-45	
CONTRACTOR: Groundwater Protection Inc		DATE STARTED: 9/25/96	COMPLTD: 9/25/96
METHOD: 4.25" ID HSA	CASE SIZE: 2 inches	SCREEN INT.: 3-13'	PROTECTION LEVEL: D
TOC ELEV.: 101.38 FEET	MONITOR INST.: OVA	TOT DPTH: 13 FEET.	DPTH TO ∇ 4.26 FEET
LOGGED BY: P. Wagner	WELL DEVELOPMENT DATE: 9/25/96		SITE: 2662W

DEPTH FT	LABORATORY SAMPLE ID	RECOVERY	HEADSPACE (ppm)	SOIL/ROCK DESCRIPTION AND COMMENTS	LITHOLOGIC SYMBOL	SOIL CLASS	BLOWS/6-IN	WELL DATA
0				FILL MATERIAL Clayey sand	[Hatched pattern]			[Well diagram]
5				FILL MATERIAL Gravel to cobble size construction debris	[Pattern with circles]			
				FILL MATERIAL Clayey sand	[Hatched pattern]			
10				SAND Gray to grayish brown, fine-grained, sub-rounded, well sorted, trace silt, wet		SP		
15								
20								

TITLE: NADEP Pensacola		LOG of WELL: MW-11	BORING NO. N/A
CLIENT: SOUTHNAVFACENGCOM		PROJECT NO: 7527-45	
CONTRACTOR: Groundwater Protection Inc		DATE STARTED: 9/25/96	COMPLTD: 9/25/96
METHOD: 4 25" ID HSA	CASE SIZE: 2 inches	SCREEN INT.: 3-13'	PROTECTION LEVEL: D
TOC ELEV.: 10131 FEET	MONITOR INST.: OVA	TOT DPTH: 13 FEET	DPTH TO ∇ 4.38 FEET
LOGGED BY: P. Wagner	WELL DEVELOPMENT DATE: 9/25/96		SITE: 2662W

DEPTH FT	LABORATORY SAMPLE ID	RECOVERY	HEADSPACE (ppm)	SOIL/ROCK DESCRIPTION AND COMMENTS	LITHOLOGIC SYMBOL	SOIL CLASS	BLOWS/6-IN	WELL DATA
				FILL MATERIAL Clayey sand				
5				FILL MATERIAL Gravel to cobble size construction debris		SP		
10				SAND. Very dark gray, fine-grained, sub-rounded, well sorted, some silt, petroleum odor, wet.				
15				SAND. Grayish brown, fine-grained, sub-rounded, well sorted, trace silt, wet				
20								

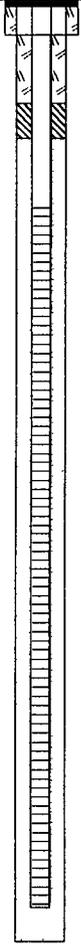
TITLE: NADEP Pensacola		LOG of WELL: MW-12	BORING NO. N/A
CLIENT: SOUTHNAVFACENCOM		PROJECT NO: 7527-45	
CONTRACTOR: Groundwater Protection Inc		DATE STARTED: 9/25/96	COMPLTD. 9/25/96
METHOD: 4 25" ID HSA	CASE SIZE: 2 inches	SCREEN INT.: 3-13'	PROTECTION LEVEL: D
TOC ELEV.. 100 97 FEET	MONITOR INST.: OVA	TOT DPTH: 13 FEET	DPTH TO ∇ 3 79 FEET
LOGGED BY: P. Wagner	WELL DEVELOPMENT DATE. 9/25/96		SITE: 2662W

DEPTH FT	LABORATORY SAMPLE ID	RECOVERY	HEADSPACE (ppm)	SOIL/ROCK DESCRIPTION AND COMMENTS	LITHOLOGIC SYMBOL	SOIL CLASS	BLOWS/6-IN	WELL DATA
				FILL MATERIAL Clayey sand				
5				FILL MATERIAL. Gravel to cobble size construction debris		SP		
10				SAND. Dark gray to light gray, fine-grained, sub-rounded, well sorted, trace silt, wet				
15								
20								

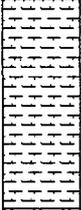
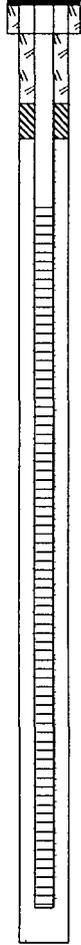
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CLIENT: SOUTHNAVFACENGCOM		PROJECT NO: 7527-45	
CONTRACTOR: Groundwater Protection Inc		DATE STARTED: 9/25/96	COMPLTD: 9/25/96
METHOD: 4 25" ID HSA	CASE SIZE: 2 inches	SCREEN INT.: 3-13'	PROTECTION LEVEL: D
TOC ELEV.: 100.95 FEET.	MONITOR INST.. OVA	TOT DPTH: 13 FEET.	DPTH TO ∇ 4.24 FEET
LOGGED BY: P Wagner	WELL DEVELOPMENT DATE: 9/25/96		SITE: 2662W

DEPTH FT	LABORATORY SAMPLE ID	RECOVERY	HEADSPACE (ppm)	SOIL/ROCK DESCRIPTION AND COMMENTS	LITHOLOGIC SYMBOL	SOIL CLASS	BLOWS/6-IN	WELL DATA
				FILL MATERIAL. Clayey sand				
				FILL MATERIAL Concrete rubble, gravel to cobble size		SP		
5				SAND. Dark gray, fine-grained, well sorted, some silt, wet				
				FILL MATERIAL Concrete scrap		SP		
10				SAND. Grayish brown, fine-grained, sub-rounded, well sorted, trace silt, wet				
15								
20								

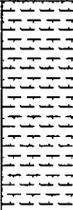
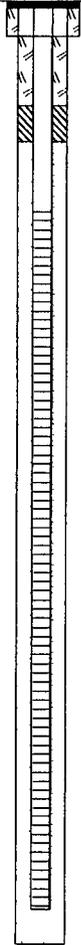
TITLE: NADEP Pensacola		LOG of WELL: MW-14	BORING NO. N/A
CLIENT: SOUTHNAVFACENGCOM		PROJECT NO: 7527-45	
CONTRACTOR: Groundwater Protection Inc		DATE STARTED: 9/25/96	COMPLTD: 9/25/96
METHOD: 4.25" ID HSA	CASE SIZE: 2 inches	SCREEN INT.: 3-13'	PROTECTION LEVEL: D
TOC ELEV.: 10151 FEET	MONITOR INST.: OVA	TOT DPTH: 13 FEET.	DPTH TO ∇ 4.99 FEET
LOGGED BY: P. Wagner	WELL DEVELOPMENT DATE: 9/25/96		SITE: 2662W

DEPTH FT	LABORATORY SAMPLE ID	RECOVERY	HEADSPACE (ppm)	SOIL/ROCK DESCRIPTION AND COMMENTS	LITHOLOGIC SYMBOL	SOIL CLASS	BLOWS/6-IN	WELL DATA
				FILL MATERIAL Clayey sand				
5				FILL MATERIAL. Concrete debris, gravel to cobble size		SP		
10				SAND Dark gray to brown, fine-grained, sub-rounded, well sorted, trace silt, wet				
15								
20								

TITLE: NADEP Pensacola		LOG of WELL: MW-15	BORING NO. N/A
CLIENT: SOUTHNAVFACENGCOM		PROJECT NO. 7527-45	
CONTRACTOR: Groundwater Protection Inc		DATE STARTED: 9/25/96	COMPLTD: 9/25/96
METHOD: 4 25" ID HSA	CASE SIZE: 2 inches	SCREEN INT.: 3-13'	PROTECTION LEVEL: D
TOC ELEV.: 100 56 FEET	MONITOR INST.: OVA	TOT DPTH: 13 FEET	DPTH TO ∇ 4.49 FEET
LOGGED BY: P. Wagner	WELL DEVELOPMENT DATE: 9/26/96		SITE: 2662W

DEPTH FT	LABORATORY SAMPLE ID	RECOVERY	HEADSPACE (ppm)	SOIL/ROCK DESCRIPTION AND COMMENTS	LITHOLOGIC SYMBOL	SOIL CLASS	BLOWS/6-IN	WELL DATA
0				FILL MATERIAL Clayey sand				
5				FILL MATERIAL Concrete debris, gravel to cobble size.				
5				SAND. Reddish orange, fine-grained, sub-rounded, well sorted, trace silt, wet.		SP		
10				SAND Reddish brown to dark gray, fine-grained, sub-rounded, well sorted, trace silt, wet.				
15								
20								

TITLE: NADEP Pensacola		LOG of WELL: MW-16	BORING NO. N/A
CLIENT: SOUTHNAVFACENGCOM		PROJECT NO. 7527-45	
CONTRACTOR: Groundwater Protection Inc.		DATE STARTED: 9/25/96	COMPLTD: 9/25/96
METHOD: 4 25" ID HSA	CASE SIZE: 2 inches	SCREEN INT.: 3-13'	PROTECTION LEVEL: D
TOC ELEV.: 99.78 FEET	MONITOR INST.: OVA	TOT DPTH. 13 FEET.	DPTH TO ∇ 3 68 FEET
LOGGED BY: P. Wagner	WELL DEVELOPMENT DATE: 9/26/96		SITE. 2662W

DEPTH FT	LABORATORY SAMPLE ID	RECOVERY	HEADSPACE (ppm)	SOIL/ROCK DESCRIPTION AND COMMENTS	LITHOLOGIC SYMBOL	SOIL CLASS	BLOWS/6-IN	WELL DATA
				FILL MATERIAL. Clayey sand				
5				FILL MATERIAL Concrete debris, gravel to cobble size		SP		
10				SAND Light gray, fine-grained, sub-rounded, well sorted, wet.				
15								
20								

TITLE: NADEP Pensacola		LOG of WELL: MW-17	BORING NO. N/A
CLIENT: SOUTHNAVFACENGCOM		PROJECT NO: 7527-45	
CONTRACTOR: Groundwater Protection Inc		DATE STARTED: 9/25/96	COMPLTD: 9/25/96
METHOD: 4 25" ID HSA	CASE SIZE: 2 inches	SCREEN INT.: 3-13'	PROTECTION LEVEL: D
TOC ELEV.: 100 85 FEET	MONITOR INST.: OVA	TOT DPTH: 13 FEET.	DPTH TO ∇ 5 05 FEET.
LOGGED BY: P Wagner	WELL DEVELOPMENT DATE: 9/26/96		SITE: 2662W

DEPTH FT	LABORATORY SAMPLE ID	RECOVERY	HEADSPACE (ppm)	SOIL/ROCK DESCRIPTION AND COMMENTS	LITHOLOGIC SYMBOL	SOIL CLASS	BLOWS/6-IN	WELL DATA
0 - 5				FILL MATERIAL Clayey sand	[Hatched pattern]			[Well diagram]
5 - 10				SAND Dark gray to reddish brown, fine-grained, sub-rounded, well sorted, some silt, wet		SP		[Well diagram]
10 - 15								[Well diagram]
15 - 20								[Well diagram]

APPENDIX C

GROUNDWATER SAMPLE ANALYTICAL DATA

ANALYTICAL REPORT

Report To: Yamila Samad
ABB Environmental, Inc./FL
2590 Executive Center East
Tallahassee, FL 32301

Project: Work Release #936-MO
Job: Project #07527.45

10/09/1996

NET Job Number: 96.03159

National Environmental Testing, Inc.

Cambridge Division
12 Oak Park
Bedford, MA 01730

Massachusetts Certification Number
M MA023

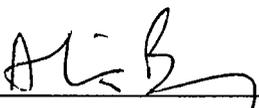
NET Cambridge Division

ANALYTICAL REPORT

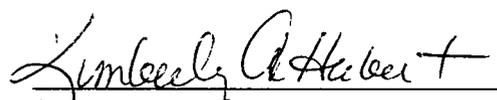
Report To: Yamila Samad ABB Environmental, Inc./FL 2590 Executive Center East Tallahassee, FL 32301	Reported By: National Environmental Testing NET Atlantic, Incorporated Cambridge Division 12 Oak Park Bedford, MA 01730
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Report Date: 10/09/1996 Collected By: ABB NET Job Number: 96.03159
Project: Work Release #936-MO Shipped Via: FedEx Client P.O. No: WR#936-MO
Job Description: Project #07527.45 Airbill No: NET Client No: 10500

This report has been approved and certified for release by the following staff. Please feel free to call the NET Project Manager at 617-275-3535 with any questions or comments.



Antonia Benney
NET Project Manager



Report prepared by
NET Reports Group

Analytical data for the following samples are included in this data report.

SAMPLE ID	NET ID	DATE TAKEN	TIME TAKEN	DATE REC'D	MATRIX
15G00101 (DISS)	154896	09/27/1996	08:50	09/28/1996	GROUND WATER
15G00201 (DISS)	154897	09/27/1996	08:50	09/28/1996	GROUND WATER
15G00301 (DISS)	154898	09/27/1996	10:05	09/28/1996	GROUND WATER
15G00601 (DISS)	154899	09/27/1996	09:55	09/28/1996	GROUND WATER
15G01101 (DISS)	154900	09/27/1996	14:00	09/28/1996	GROUND WATER
15G01001 (DISS)	154901	09/27/1996	14:00	09/28/1996	GROUND WATER

Note: Where a compound or analyte is not detected, the result is reported as less than (<) the laboratory reporting limit.

NET Cambridge Division

ANALYTICAL REPORT

Report Date: 10/09/1996

Report To: ABB Environmental, Inc./FL

NET Job No: 96.03159

Project: Work Release #936-MO

Date Rec'd: 09/28/1996

Sample ID	NET ID	Result	Units	Run Batch	Analysis Date	Analyst
Aqueous Digestion EPA200 AQ EPA 200 mod						
15G00101 (DISS)	154896	10/02/1996	date		10/02/1996	kaa
15G00201 (DISS)	154897	10/02/1996	date		10/02/1996	kaa
15G00301 (DISS)	154898	10/02/1996	date		10/02/1996	kaa
15G00601 (DISS)	154899	10/02/1996	date		10/02/1996	kaa
15G01101 (DISS)	154900	10/02/1996	date		10/02/1996	kaa
15G01001 (DISS)	154901	10/02/1996	date		10/02/1996	kaa
Aqueous Digestion GFAA EPA AQ EPA 200 mod						
15G00101 (DISS)	154896	10/02/1996			10/02/1996	kaa
15G00201 (DISS)	154897	10/02/1996			10/02/1996	kaa
15G00301 (DISS)	154898	10/02/1996			10/02/1996	kaa
15G00601 (DISS)	154899	10/02/1996			10/02/1996	kaa
15G01101 (DISS)	154900	10/02/1996			10/02/1996	kaa
15G01001 (DISS)	154901	10/02/1996			10/02/1996	kaa
Filtration, 0.45 um-LAB AQ EPA						
15G00101 (DISS)	154896	10/01/1996	date		10/02/1996	drm
15G00201 (DISS)	154897	10/01/1996	date		10/02/1996	drm
15G00301 (DISS)	154898	10/01/1996	date		10/02/1996	drm
15G00601 (DISS)	154899	10/01/1996	date		10/02/1996	drm
15G01101 (DISS)	154900	10/01/1996	date		10/02/1996	drm
15G01001 (DISS)	154901	10/01/1996	date		10/02/1996	drm
Cadmium (Cd) 200 ICP AQ EPA 200 ICP, 200.7mod						
15G00101 (DISS)	154896	<0.0050	mg/L	849	10/03/1996	jem
15G00201 (DISS)	154897	<0.0050	mg/L	849	10/03/1996	jem
15G00301 (DISS)	154898	<0.0050	mg/L	849	10/03/1996	jem
15G00601 (DISS)	154899	<0.0050	mg/L	849	10/03/1996	jem
15G01101 (DISS)	154900	<0.0050	mg/L	849	10/03/1996	jem
15G01001 (DISS)	154901	<0.0050	mg/L	849	10/03/1996	jem

NET Cambridge Division

ANALYTICAL REPORT

Report Date: 10/09/1996

Report To: ABB Environmental, Inc./FL

NET Job No: 96.03159

Project: Work Release #936-MO

Date Rec'd: 09/28/1996

Sample ID	NET ID	Result	Units	Run Batch	Analysis Date	Analyst
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Lead (Pb) 200 GFAA AQ EPA 200 furnace, 200

15G00101 (DISS)	154896	0.024	mg/L	307	10/04/1996	mwt
15G00201 (DISS)	154897	0.022	mg/L	307	10/04/1996	mwt
15G00301 (DISS)	154898	0.11	mg/L	307	10/04/1996	mwt
15G00601 (DISS)	154899	0.015	mg/L	307	10/04/1996	mwt
15G01101 (DISS)	154900	<0.0020	mg/L	307	10/04/1996	mwt
15G01001 (DISS)	154901	0.0086	mg/L	307	10/04/1996	mwt

QC SUMMARY FOR INORGANICS REPORT: DUPLICATES

HEALTH, SAFETY AND ENVIRONMENT DIVISION
 Date of report: 10/09/96

Work ID:
 500/ Batch 9603159
 Page: 1

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Duplicate	3150-154857 (Aqueous)	3158-154863 (Aqueous)
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	Sample	Duplicate	MFC	Sample	Duplicate	%RPD
--	--------	-----------	-----	--------	-----------	------

Element						
Cu	0.0050	0.0050	mg/L	0.0050	0.0050	mg/L
Fe	0.15	0.049	mg/L	0.031	0.032	mg/L

QC SUMMARY FOR INORGANICS REPORT: PRE-DIGESTION SPIKES

WATER CONTROL DIVISION
 Date of report: 10/09/96

Work ID:
 SDC/ Batch 9603159
 Page: 2

=====

Spike 3150-154957 (Aqueous)

	Sample	Spike	Added	%Recovery
<u>Element</u>				
Pb	0.0050 mg/L	0.045	0.050	90 %
Pb	0.15 mg/L	0.09	0.500	68 %

=====

Spike 3158-134083 (Aqueous)

	Sample	Spike	Added	%Recovery
<u>Element</u>				
Pb	0.0050 mg/L	0.047	0.050	94 %
Pb	0.031 mg/L	0.094	0.020	115 %

=====

GC SUMMARY FOR INORGANICS REPORT: DIGESTION BLANKS

NEI-CHEMISTRY DIVISION
Date of report: 10/09/96

Work ID:
SDG/ batch: 9602169
Page 3

Blank: 66a70W
Found: ug/L

Element

Co : 0.0050
Pb : 0.0015

QC SUMMARY FOR INORGANICS REPORT: LAB CONTROL STANDARDS

NEI-CHEMISTRIE DIVISION
 Date of report: 10/09/96

Work ID:
 CDC/ Batch 9603159
 Page 4

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=====
Standard          ULDS 6667CW (Liquid)          LUSHCL 6667CW (Liquid)
      True Found   Units   % R      True Found   Units   % R
-----
Element
Co 1              :      1.00   0.89   ug/L   89   |
Cr 1              :      1.0    0.87   ug/L   87   |
=====
    
```

```

=====
Standard          LUSHNO3 6667CW (Liquid)
      True Found   Units   % R
-----
Element
Co 1              :
Cr 1              :      0.025  0.015  ug/L   90   |
=====
    
```

ANALYTICAL REPORT

Report To: Yamila Samad
ABB Environmental, Inc./FL
2590 Executive Center East
Tallahassee, FL 32301

Project: Work Release #936-MO
Job: Project #07527.34

10/16/1996

NET Job Number: 96.03171

National Environmental Testing, Inc.

Cambridge Division
12 Oak Park
Bedford, MA 01730

Massachusetts Certification Number
M MA023

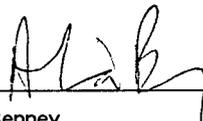
NET Cambridge Division

ANALYTICAL REPORT

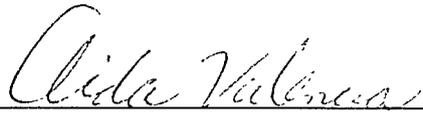
Report To: Yamila Samad ABB Environmental, Inc./FL 2590 Executive Center East Tallahassee, FL 32301	Reported By: National Environmental Testing NET Atlantic, Incorporated Cambridge Division 12 Oak Park Bedford, MA 01730
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Report Date: 10/16/1996 Collected By: ABB NET Job Number: 96.03171
Project: Work Release #936-MO Shipped Via: FedEx Client P.O. No: WR#936-MO
Job Description: Project #07527.34 Airbill No: # 9385126306 NET Client No: 10500

This report has been approved and certified for release by the following staff. Please feel free to call the NET Project Manager at 617-275-3535 with any questions or comments.



Antonia Benney
NET Project Manager



Report prepared by
NET Reports Group

Analytical data for the following samples are included in this data report.

SAMPLE ID	NET ID	DATE TAKEN	TIME TAKEN	DATE REC'D	MATRIX
15G00401	154928	09/28/1996	08:00	10/01/1996	GROUND WATER
15G00501	154929	09/28/1996	08:00	10/01/1996	GROUND WATER
15G00801	154930	09/28/1996	12:10	10/01/1996	GROUND WATER
15G00901	154931	09/28/1996	13:10	10/01/1996	GROUND WATER
15G00701	154932	09/28/1996	12:10	10/01/1996	GROUND WATER
15G01201	154933	09/28/1996	13:10	10/01/1996	GROUND WATER
15G01601	154934	09/28/1996	14:05	10/01/1996	GROUND WATER
TRIP BLANK	154935	09/28/1996		10/01/1996	BLANK

Note: Where a compound or analyte is not detected, the result is reported as less than (<) the laboratory reporting limit.

NET Cambridge Division

ANALYTICAL REPORT

Report Date: 10/16/1996

Report To: ABB Environmental, Inc./FL

NET Job No: 96.03171

Project: Work Release #936-MO

Date Rec'd: 10/01/1996

Sample ID	NET ID	Result	Units	Run Batch	Analysis Date	Analyst
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Aqueous Digestion EPA200 AQ EPA 200 mod

15G00401	154928	10/09/1996	date		10/09/1996	kaa
15G00501	154929	10/09/1996	date		10/09/1996	kaa
15G00801	154930	10/09/1996	date		10/09/1996	kaa
15G00901	154931	10/09/1996	date		10/09/1996	kaa
15G00701	154932	10/09/1996	date		10/09/1996	kaa
15G01201	154933	10/09/1996	date		10/09/1996	kaa
15G01601	154934	10/09/1996	date		10/09/1996	kaa

Aqueous Digestion GFAA EPA AQ EPA 200 mod

15G00401	154928	10/09/1996			10/09/1996	kaa
15G00501	154929	10/09/1996			10/09/1996	kaa
15G00801	154930	10/09/1996			10/09/1996	kaa
15G00901	154931	10/09/1996			10/09/1996	kaa
15G00701	154932	10/09/1996			10/09/1996	kaa
15G01201	154933	10/09/1996			10/09/1996	kaa
15G01601	154934	10/09/1996			10/09/1996	kaa

Cadmium (Cd) 200 ICP AQ EPA 200 ICP, 200.7mod

15G00401	154928	<0.0050	mg/L	857	10/10/1996	jem
15G00501	154929	<0.0050	mg/L	857	10/10/1996	jem
15G00801	154930	<0.0050	mg/L	857	10/10/1996	jem
15G00901	154931	<0.0050	mg/L	857	10/10/1996	jem
15G00701	154932	<0.0050	mg/L	857	10/10/1996	jem
15G01201	154933	<0.0050	mg/L	857	10/10/1996	jem
15G01601	154934	<0.0050	mg/L	857	10/10/1996	jem

ANALYTICAL REPORT

Report Date: 10/16/1996

Report To: ABB Environmental, Inc./FL

NET Job No: 96.03171

Project: Work Release #936-MO

Date Rec'd: 10/01/1996

Sample ID	NET ID	Result	Units	Run Batch	Analysis Date	Analyst
Lead (Pb)						
200 GFAA AQ EPA 200 furnace, 200						
15G00401	154928	<0.0020	mg/L	311	10/11/1996	mwt
15G00501	154929	<0.0020	mg/L	311	10/11/1996	mwt
15G00801	154930	<0.0020	mg/L	311	10/11/1996	mwt
15G00901	154931	<0.0020	mg/L	311	10/11/1996	mwt
15G00701	154932	<0.0020	mg/L	311	10/11/1996	mwt
15G01201	154933	<0.0020	mg/L	311	10/11/1996	mwt
15G01601	154934	0.0054	mg/L	311	10/11/1996	mwt
EX Petroleum Hydro., TPH						
AQ EPA 418.1						
15G00401	154928	10/07/1996	date		10/07/1996	nrp
15G00501	154929	10/07/1996	date		10/07/1996	nrp
15G00801	154930	10/07/1996	date		10/07/1996	nrp
15G00901	154931	10/07/1996	date		10/07/1996	nrp
15G00701	154932	10/07/1996	date		10/07/1996	nrp
15G01201	154933	10/07/1996	date		10/07/1996	nrp
15G01601	154934	10/07/1996	date		10/07/1996	nrp
Petroleum Hydrocarbons, TPH AQ						
EPA 418.1						
15G00401	154928	<2	mg/L	471	10/14/1996	ljs
15G00501	154929	<2	mg/L	471	10/14/1996	ljs
15G00801	154930	<2	mg/L	471	10/14/1996	ljs
15G00901	154931	<2	mg/L	471	10/14/1996	ljs
15G00701	154932	<2	mg/L	471	10/14/1996	ljs
15G01201	154933	<2	mg/L	471	10/14/1996	ljs
15G01601	154934	<2	mg/L	471	10/14/1996	ljs

ANALYTICAL REPORT

Report Date: 10/16/1996

Report To: ABB Environmental, Inc./FL

NET Job No: 96.03171

Project: Work Release #936-MO

Date Rec'd: 10/01/1996

Sample ID: 15G00401

NET Sample No: 154928

Parameter	Result	Units	Analysis Date	Prep Batch	Run Batch	Analyst
Volatiles, 602, Extended	AQ					
Benzene	<1.0	ug/L	10/04/1996		724	dry
Chlorobenzene	<1.0	ug/L				
1,2-Dichlorobenzene	<1.0	ug/L				
1,3-Dichlorobenzene	<1.0	ug/L				
1,4-Dichlorobenzene	<1.0	ug/L				
Ethylbenzene	<1.0	ug/L				
Methyl-t-butyl Ether (MTBE)	<1.0	ug/L				
Toluene	<1.0	ug/L				
m-Xylene	<1.0	ug/L				
o-Xylene	<1.0	ug/L				
p-Xylene	<1.0	ug/L				

NET Cambridge Division

ANALYTICAL REPORT

Report Date: 10/16/1996

Report To: ABB Environmental, Inc./FL

NET Job No: 96.03171

Project: Work Release #936-MO

Date Rec'd: 10/01/1996

Sample ID: 15G00501

NET Sample No: 154929

Parameter	Result	Units	Analysis Date	Prep Batch	Run Batch	Analyst
Volatiles, 602, Extended	AQ					
Benzene	<1.0	ug/L	10/03/1996		723	dry
Chlorobenzene	<1.0	ug/L				
1,2-Dichlorobenzene	<1.0	ug/L				
1,3-Dichlorobenzene	<1.0	ug/L				
1,4-Dichlorobenzene	<1.0	ug/L				
Ethylbenzene	<1.0	ug/L				
Methyl-t-butyl Ether (MTBE)	<1.0	ug/L				
Toluene	<1.0	ug/L				
m-Xylene	<1.0	ug/L				
o-Xylene	<1.0	ug/L				
p-Xylene	<1.0	ug/L				

NET Cambridge Division

ANALYTICAL REPORT

Report Date: 10/16/1996

Report To: ABB Environmental, Inc./FL

NET Job No: 96.03171

Project: Work Release #936-MO

Date Rec'd: 10/01/1996

Sample ID: 15G00801

NET Sample No: 154930

Parameter	Result	Units	Analysis Date	Prep Batch	Run Batch	Analyst
Volatiles, 602, Extended	AQ					
Benzene	<1.0	ug/L	10/04/1996		724	dry
Chlorobenzene	<1.0	ug/L				
1,2-Dichlorobenzene	<1.0	ug/L				
1,3-Dichlorobenzene	<1.0	ug/L				
1,4-Dichlorobenzene	<1.0	ug/L				
Ethylbenzene	<1.0	ug/L				
Methyl-t-butyl Ether (MTBE)	<1.0	ug/L				
Toluene	<1.0	ug/L				
m-Xylene	<1.0	ug/L				
o-Xylene	<1.0	ug/L				
p-Xylene	<1.0	ug/L				

NET Cambridge Division

ANALYTICAL REPORT

Report Date: 10/16/1996

Report To: ABB Environmental, Inc./FL

NET Job No: 96.03171

Project: Work Release #936-MO

Date Rec'd: 10/01/1996

Sample ID: 15G00901

NET Sample No: 154931

Parameter	Result	Units	Analysis Date	Prep Batch	Run Batch	Analyst
Volatiles, 602, Extended	AQ					
Benzene	<1.0	ug/L	10/03/1996		723	dry
Chlorobenzene	<1.0	ug/L				
1,2-Dichlorobenzene	<1.0	ug/L				
1,3-Dichlorobenzene	<1.0	ug/L				
1,4-Dichlorobenzene	<1.0	ug/L				
Ethylbenzene	<1.0	ug/L				
Methyl-t-butyl Ether (MTBE)	<1.0	ug/L				
Toluene	<1.0	ug/L				
m-Xylene	<1.0	ug/L				
o-Xylene	<1.0	ug/L				
p-Xylene	<1.0	ug/L				

NET Cambridge Division

ANALYTICAL REPORT

Report Date: 10/16/1996

Report To: ABB Environmental, Inc./FL

NET Job No: 96.03171

Project: Work Release #936-MO

Date Rec'd: 10/01/1996

Sample ID: 15G00701

NET Sample No: 154932

Parameter	Result	Units	Analysis Date	Prep Batch	Run Batch	Analyst
Volatiles, 602, Extended	AQ					
Benzene	<1.0	ug/L	10/03/1996		723	dry
Chlorobenzene	<1.0	ug/L				
1,2-Dichlorobenzene	<1.0	ug/L				
1,3-Dichlorobenzene	<1.0	ug/L				
1,4-Dichlorobenzene	<1.0	ug/L				
Ethylbenzene	<1.0	ug/L				
Methyl-t-butyl Ether (MTBE)	<1.0	ug/L				
Toluene	<1.0	ug/L				
m-Xylene	<1.0	ug/L				
o-Xylene	<1.0	ug/L				
p-Xylene	<1.0	ug/L				

NET Cambridge Division

ANALYTICAL REPORT

Report Date: 10/16/1996

Report To: ABB Environmental, Inc./FL

NET Job No: 96.03171

Project: Work Release #936-MO

Date Rec'd: 10/01/1996

Sample ID: 15G01201

NET Sample No: 154933

Parameter	Result	Units	Analysis Date	Prep Batch	Run Batch	Analyst
Volatiles, 602, Extended	AQ					
Benzene	<1.0	ug/L	10/03/1996		723	dry
Chlorobenzene	<1.0	ug/L				
1,2-Dichlorobenzene	<1.0	ug/L				
1,3-Dichlorobenzene	<1.0	ug/L				
1,4-Dichlorobenzene	<1.0	ug/L				
Ethylbenzene	<1.0	ug/L				
Methyl-t-butyl Ether (MTBE)	<1.0	ug/L				
Toluene	<1.0	ug/L				
m-Xylene	<1.0	ug/L				
o-Xylene	<1.0	ug/L				
p-Xylene	<1.0	ug/L				

NET Cambridge Division

ANALYTICAL REPORT

Report Date: 10/16/1996

Report To: ABB Environmental, Inc./FL

NET Job No: 96.03171

Project: Work Release #936-M0

Date Rec'd: 10/01/1996

Sample ID: 15G01601

NET Sample No: 154934

Parameter	Result	Units	Analysis Date	Prep Batch	Run Batch	Analyst
Volatiles, 602, Extended	AQ					
Benzene	<1.0	ug/L	10/04/1996		723	dry
Chlorobenzene	<1.0	ug/L				
1,2-Dichlorobenzene	<1.0	ug/L				
1,3-Dichlorobenzene	<1.0	ug/L				
1,4-Dichlorobenzene	<1.0	ug/L				
Ethylbenzene	<1.0	ug/L				
Methyl-t-butyl Ether (MTBE)	<1.0	ug/L				
Toluene	<1.0	ug/L				
m-Xylene	<1.0	ug/L				
o-Xylene	<1.0	ug/L				
p-Xylene	<1.0	ug/L				

NET Cambridge Division

ANALYTICAL REPORT

Report Date: 10/16/1996

Report To: ABB Environmental, Inc./FL

NET Job No: 96.03171

Project: Work Release #936-MO

Date Rec'd: 10/01/1996

Sample ID: TRIP BLANK

NET Sample No: 154935

Parameter	Result	Units	Analysis Date	Prep Batch	Run Batch	Analyst
Volatiles, 602, Extended	AQ					
Benzene	<1.0	ug/L	10/04/1996		723	dry
Chlorobenzene	<1.0	ug/L				
1,2-Dichlorobenzene	<1.0	ug/L				
1,3-Dichlorobenzene	<1.0	ug/L				
1,4-Dichlorobenzene	<1.0	ug/L				
Ethylbenzene	<1.0	ug/L				
Methyl-t-butyl Ether (MTBE)	<1.0	ug/L				
Toluene	<1.0	ug/L				
m-Xylene	<1.0	ug/L				
o-Xylene	<1.0	ug/L				
p-Xylene	<1.0	ug/L				

GC PRIMARY IONS - INORGANICS REPORT, DUPLICATES

GC PRIMARY IONS - INORGANICS REPORT
 Date: 01/10/2007

Work ID:
 SIMS - 01/10/07: 5003171
 Page: 4

Sample Name	Sample ID	Sample Description	Sample Type	Sample Location	Sample Date
...
...

Sample Name	Duplicate	LRP	Sample	Duplicate	LRP
...
...

WC SUMMARY FOR INORGANICS REPORT PRE-DIGESTION SPIKES

LABORATORY DIVISION

Date of report 10/15/91

Work ID:

SDG/ Batch: 9-03171

Page 2

SP45-104951 (aqueous)

	Sample	Spike	Added	Recovery
As	0.0000 mg/L	0.044	0.050	88
Pb	0.015 mg/L	0.04	0.060	83

SP45-105705 (aqueous)

	Sample	Spike	Added	Recovery
As	0.0000 mg/L	0.040	0.050	85
Pb	0.013 mg/L	0.050	0.060	80

QC SUMMARY FOR INORGANICS REPORT: DIGESTION BLANKS

QC - ORIGINAL DIVISION
Date of Report: 10/11/96

Work ID.
SDG/ Batch: 9403171
Page 2

Blank as 7500
Found: mg/L

1.00
0.050
0.050

GC SUMMARY FOR INORGANICS REPORT: LAB CONTROL STANDARDS

ANALYTICAL DIVISION
 File # of report 10718700

Work ID.
 SDG/ Batch 9603171
 Page 4

Standard	True	Found	Units	% R	True	Found	Units	% R
LC5HCL (66750W Liquid)								
LC5HNO3 (66750W Liquid)								
1.0011								
0.5	1.00	0.95	mg/L	95				
1.5	1.0	0.97	mg/L	97	0.020	0.020	mg/L	100

NET Cambridge Division

QUALITY CONTROL DATA

Client: ABB Environmental, Inc./FL

NET Job No: 96.03171

Project: Work Release #936-M0

Report Date: 10/16/1996

Surrogate Standard Percent Recovery

Abbreviated Surrogate Standard Names:

SS1 SS2 SS3 SS4 SS5 SS6 SS7 SS8 SS9 SS10 SS11 SS12
 Bromofl

Sample ID	NET ID	Matrix	Percent Recovery												
			SS1	SS2	SS3	SS4	SS5	SS6	SS7	SS8	SS9	SS10	SS11	SS12	
15G00401	154928	GROUND WATER	95												
15G00501	154929	GROUND WATER	92												
15G00801	154930	GROUND WATER	97												
15G00901	154931	GROUND WATER	100												
15G00701	154932	GROUND WATER	99												
15G01201	154933	GROUND WATER	101												
15G01601	154934	GROUND WATER	91												
TRIP BLANK	154935	BLANK	113												

Notes:

NR - This surrogate standard is Not Required. Other versions of this test method may use this surrogate standard.
 Dil - This surrogate standard was diluted to below detectable levels due to concentrations of analytes in this sample.

Complete Surrogate Standard Names Listed by Analysis:

Pesticide Surrogate Standards:

Decachl = Decachlorobiphenyl Dibutyl = Dibutylchloroendate Tetrach = Tetrachloro-m-xylene

Volatile Surrogate Standards:

Bromofl = Bromofluorobenzene 1,2-Dichl = 1,2-Dichloroethane-d4 Toluene = Toluene-d8

Drinking Water Method 524 1,2-Dichl = 1,2-Dichlorobenzene-d4

Semivolatle Surrogate Standards:

2-Fluor (1st) = 2-Fluorobiphenyl Phenol- = Phenol-d6 2,4,6-T = 2,4,6-Tribromophenol
 2-Fluor (2nd) = 2-Fluorophenol Nitrobe = Nitrobenzene-d5 p-Terph = p-Terphenyl

Herbicides Surrogate Standard:

2,4-Dic = 2,4-Dichlorophenyl acetic acid

Petroleum Hydrocarbon Fingerprint Surrogate Standard:

2-Fluor = 2-Fluorobiphenyl para-Te = para-Terphenyl

NET Cambridge Division
QUALITY CONTROL DATA

Report To: ABB Environmental, Inc./FL

NET Job No: 96.03171

Project: Work Release #936-MO

Report Date : 10/16/1996

Method Blank Analysis Data

Test Name	Result	Units	Prep Batch	Run Batch	Run Date	Analyst Initials
Petroleum Hydrocarbons, TPH AQ	<2	mg/L	459	471	10/14/1996	ljs
Volatiles, 602, Extended AQ						
Bromofluorobenzene	103	% recov.		723	10/03/1996	dry
Benzene	<1.0	ug/L		723	10/03/1996	dry
Chlorobenzene	<1.0	ug/L		723	10/03/1996	dry
1,2-Dichlorobenzene	<1.0	ug/L		723	10/03/1996	dry
1,3-Dichlorobenzene	<1.0	ug/L		723	10/03/1996	dry
1,4-Dichlorobenzene	<1.0	ug/L		723	10/03/1996	dry
Ethylbenzene	<1.0	ug/L		723	10/03/1996	dry
Methyl-t-butyl Ether (MTBE)	<1.0	ug/L		723	10/03/1996	dry
Toluene	<1.0	ug/L		723	10/03/1996	dry
m-Xylene	<1.0	ug/L		723	10/03/1996	dry
o-Xylene	<1.0	ug/L		723	10/03/1996	dry
p-Xylene	<1.0	ug/L		723	10/03/1996	dry

NET Cambridge Division
QUALITY CONTROL DATA

Report To: ABB Environmental, Inc./FL

NET Job No: 96.03171

Project: Work Release #936-MO

Report Date : 10/16/1996

Method Blank Analysis Data

Test Name	Result	Units	Prep Batch	Run Batch	Run Date	Analyst Initials
Volatiles, 602, Extended AQ						
Bromofluorobenzene	106	% recov.		724	10/04/1996	dry
Benzene	<1.0	ug/L		724	10/04/1996	dry
Chlorobenzene	<1.0	ug/L		724	10/04/1996	dry
1,2-Dichlorobenzene	<1.0	ug/L		724	10/04/1996	dry
1,3-Dichlorobenzene	<1.0	ug/L		724	10/04/1996	dry
1,4-Dichlorobenzene	<1.0	ug/L		724	10/04/1996	dry
Ethylbenzene	<1.0	ug/L		724	10/04/1996	dry
Methyl-t-butyl Ether (MTBE)	<1.0	ug/L		724	10/04/1996	dry
Toluene	<1.0	ug/L		724	10/04/1996	dry
m-Xylene	<1.0	ug/L		724	10/04/1996	dry
o-Xylene	<1.0	ug/L		724	10/04/1996	dry
p-Xylene	<1.0	ug/L		724	10/04/1996	dry

3A
 WATER VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: NET CAMBRIDGE

Contract:

Lab Code: CAMBRG

Case No.:

SAS No.:

SDG No.: 961004P

Matrix Spike - EPA Sample No.: 154930

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC #	QC. LIMITS REC.
Chlorobenzene	20	0.00	16	80	55-135
1,2-Dichlorobenzene	20	0.00	15	75	37-154
1,4-Dichlorobenzene	20	0.00	16	80	42-143
1,3-Dichlorobenzene	20	0.00	17	85	50-141
MTBE	20	2.5	19	82	50-150
Ethyl Benzene	20	0.00	18	90	32-160
M + P Xylenes	40	0.00	31	78	0-200
O Xylene	20	0.00	15	75	0-200
Benzene	20	0.00	18	90	39-150
Toluene	20	0.00	18	90	46-148

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 0 outside limits

Spike Recovery: 0 out of 10 outside limits

COMMENTS:

Data File: /chem/hp5890a.i/961004p.b/004f0101.d
 Report Date: 04-Oct-1996 14:49

NET Cambridge

RECOVERY REPORT

Client Name: Client SDG: 961004p
 Sample Matrix: LIQUID Fraction: VOA
 Lab Smp Id: 154930MS Client Smp ID: 154930MS
 Level: LOW Operator: DRY
 Data Type: GC DATA SampleType: MS
 SpikeList File: 602MS.spk Quant Type: ESTD
 Method File: /chem/hp5890a.i/961004p.b/602.m
 Misc Info:

SPIKE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
1 MTBE	20	19	96.54	50-150
2 Benzene	20	18	87.81	39-150
3 Toluene	20	18	87.92	46-148
4 Chlorobenzene	20	16	81.08	55-135
5 Ethyl Benzene	20	18	88.22	32-160
6 M + P Xylenes	40	31	76.75	0-200
7 O Xylene	20	15	75.17	0-200
9 1,3-Dichlorobenzen	20	17	84.37	50-141
10 1,4-Dichlorobenzen	20	16	78.94	42-143
11 1,2-Dichlorobenzen	20	15	74.14	37-154

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
\$ 8 Bromofluorobenzene	30	30	100.94	75-125

Data File: /chem/hp5890a.i/961004p.b/004f0101.d

Date : 04-OCT-1996 12:01

Client ID: 154930MS

Instrument: hp5890a.i

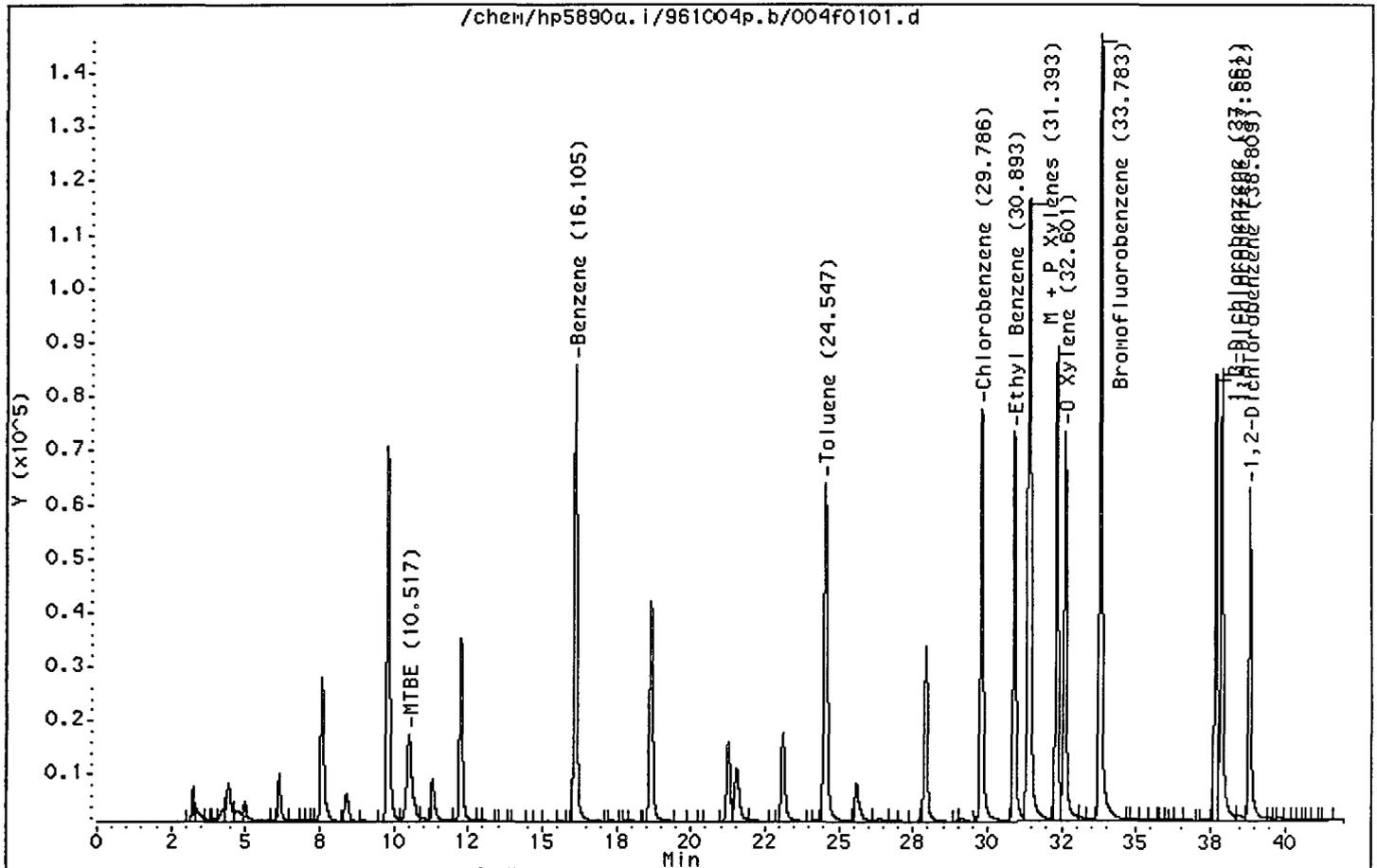
Sample Info: 154930MS

Purge Volume: 5.0

Operator: DRY

Column phase: RTX-1

Column diameter: 0.53



Data File: /chem/hp5890a.i/961004p.b/004f0101.d
 Report Date: 04-Oct-1996 14:49

NET Cambridge

VOLATILE REPORT 602

Data file : /chem/hp5890a.i/961004p.b/004f0101.d
 Lab Smp Id: 154930MS Client Smp ID: 154930MS
 Inj Date : 04-OCT-1996 12:01
 Operator : DRY Inst ID: hp5890a.i
 Smp Info : 154930MS
 Misc Info :
 Comment :
 Method : /chem/hp5890a.i/961004p.b/602.m
 Meth Date : 04-Oct-1996 09:09 doug Quant Type: ESTD
 Cal Date : 02-SEP-1996 18:07 Cal File: 006f0101.d
 Als bottle: 1 QC Sample: MS
 Dil Factor: 1.000
 Integrator: HP Genie Compound Sublist: all.sub
 Target Version: 3.12
 Concentration Formula: Uf * 5/Vo

Name	Value	Description
Uf	1.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN (ug/L)	FINAL (ug/L)
1 MTBE	10.517	10.520	-0.003	1053316	19	19
2 Benzene	16.105	16.107	-0.002	2878710	18	18
3 Toluene	24.547	24.629	-0.082	2648845	18	18
4 Chlorobenzene	29.786	29.857	-0.071	2613572	16	16
5 Ethyl Benzene	30.893	30.963	-0.070	2349774	18	18
6 M + P Xylenes	31.393	31.463	-0.070	5056867	31	31
7 o Xylene	32.601	32.669	-0.068	2403771	15	15
\$ 8 Bromofluorobenzene	33.783	33.851	-0.068	4635252	30	30 (A)
9 1,3-Dichlorobenzene	37.661	37.728	-0.067	2267199	17	17
10 1,4-Dichlorobenzene	37.862	37.928	-0.066	2640951	16	16
11 1,2-Dichlorobenzene	38.809	38.875	-0.066	1906767	15	15

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

Interlaboratory Chain of Custody

QUANTERRA, INCORPORATED
BRECKENRIDGE PKWY, STE H
TAMPA, FL 33610
PHONE (813) 621-0784 FAX (813) 623-6021



96.03171

76490

CLIENT CODE _____
QUOTE / SAR NUMBER _____
Chain-of Custody Record

PROJ. NO		PROJECT NAME/LOCATION				NO. OF CONTAINERS	PARAMETER				REMARKS
7527.34		NADEP Site 2662W					BTEX	TRPH/418.1	Pb, Cd		
STA NO	DATE	TIME	COMP	GRAB	STATION LOCATION						
	9-28	0800		X	15G00401	4	2	1	1	BTEX & TRPH preserved w/ HCL, Metals preserved w/ HNO ₃ .	
		0800			15G00501	4	2	1	1		
		1210			15G00801	4	2	1	1		
1310		1210 PM			15G00901	4	2	1	1		
		1210			15G00701	4	2	1	1		
1310		121 PM		↓	15G01201	4	2	1	1		
		1405		X	15G01601	4	2	1	1		
					Trip Blank ^{AB} ₁₀₋₁	2	2			* Trip Blank Added to Chain	

Relinquished by (Signature) <i>PAJ/AB</i>	Date / Time 9-30-96 1600	Received by (Signature) Fedex #	Relinquished by (Signature) 9385126306	Date / Time 10/1/96 11:30	Received by (Signature) <i>C. Bullock</i>
Relinquished by (Signature)	Date / Time	Received by (Signature)	Relinquished by (Signature)	Date / Time	Received by (Signature)
Relinquished by (Signature)	Date / Time	Received for Laboratory by (Signature) Cooler Temps	Date / Time 5°C	Remarks STANDARD TURNAROUND TIME. Note sampling date.	

ANALYTICAL REPORT

Report To: Yamila Samad
ABB Environmental, Inc./FL
2590 Executive Center East
Tallahassee, FL 32301

Project: Work Release #936-MO
Job: Project #07527.45

10/16/1996

NET Job Number: 96.03158

National Environmental Testing, Inc.

Cambridge Division
12 Oak Park
Bedford, MA 01730

Massachusetts Certification Number
M MA023

NET Cambridge Division

ANALYTICAL REPORT

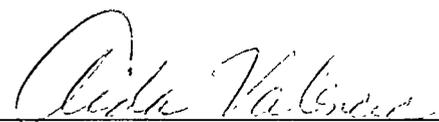
Report To:	Reported By:
Yamila Samad ABB Environmental, Inc./FL 2590 Executive Center East Tallahassee, FL 32301	National Environmental Testing NET Atlantic, Incorporated Cambridge Division 12 Oak Park Bedford, MA 01730

Report Date: 10/16/1996 Collected By: ABB NET Job Number: 96.03158
Project: Work Release #936-MO Shipped Via: FedEx Client P.O. No: WR#936-MO
Job Description: Project #07527.45 Airbill No: NET Client No: 10500

This report has been approved and certified for release by the following staff. Please feel free to call the NET Project Manager at 617-275-3535 with any questions or comments.



Antonia Benney
NET Project Manager



Report prepared by
NET Reports Group

Analytical data for the following samples are included in this data report.

SAMPLE ID	NET ID	DATE TAKEN	TIME TAKEN	DATE REC'D	MATRIX
15G00101	154883	09/27/1996	08:50	09/28/1996	GROUND WATER
15G00201	154884	09/27/1996	08:50	09/28/1996	GROUND WATER
15G00301	154885	09/27/1996	10:05	09/28/1996	GROUND WATER
15G00601	154886	09/27/1996	09:55	09/28/1996	GROUND WATER
15G01701	154887	09/27/1996	11:40	09/28/1996	GROUND WATER
15G01501	154888	09/27/1996	11:40	09/28/1996	GROUND WATER
15G01101	154889	09/27/1996	14:00	09/28/1996	GROUND WATER
15G01001	154890	09/27/1996	14:00	09/28/1996	GROUND WATER
15G01301	154891	09/27/1996	15:10	09/28/1996	GROUND WATER
15G01301D	154892	09/27/1996	15:10	09/28/1996	GROUND WATER
15G01401	154893	09/27/1996	15:25	09/28/1996	GROUND WATER
15G01401D	154894	09/27/1996	15:25	09/28/1996	GROUND WATER

Note: Where a compound or analyte is not detected, the result is reported as less than (<) the laboratory reporting limit.

NET Cambridge Division

ANALYTICAL REPORT

Report Date: 10/16/1996

Report To: ABB Environmental, Inc./FL

NET Job No: 96.03158

Project: Work Release #936-MO

Date Rec'd: 09/28/1996

Sample ID	NET ID	Result	Units	Run Batch	Analysis Date	Analyst
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Aqueous Digestion EPA200 AQ EPA 200 mod

15G00101	154883	10/02/1996	date		10/02/1996	kaa
15G00201	154884	10/02/1996	date		10/02/1996	kaa
15G00301	154885	10/02/1996	date		10/02/1996	kaa
15G00601	154886	10/02/1996	date		10/02/1996	kaa
15G01701	154887	10/02/1996	date		10/02/1996	kaa
15G01501	154888	10/02/1996	date		10/02/1996	kaa
15G01101	154889	10/02/1996	date		10/02/1996	kaa
15G01001	154890	10/02/1996	date		10/02/1996	kaa
15G01301	154891	10/02/1996	date		10/02/1996	kaa
15G01301D	154892	10/02/1996	date		10/02/1996	kaa
15G01401	154893	10/02/1996	date		10/02/1996	kaa
15G01401D	154894	10/02/1996	date		10/02/1996	kaa

Aqueous Digestion GFAA EPA AQ EPA 200 mod

15G00101	154883	10/02/1996			10/02/1996	kaa
15G00201	154884	10/02/1996			10/02/1996	kaa
15G00301	154885	10/02/1996			10/02/1996	kaa
15G00601	154886	10/02/1996			10/02/1996	kaa
15G01701	154887	10/02/1996			10/02/1996	kaa
15G01501	154888	10/02/1996			10/02/1996	kaa
15G01101	154889	10/02/1996			10/02/1996	kaa
15G01001	154890	10/02/1996			10/02/1996	kaa
15G01301	154891	10/02/1996			10/02/1996	kaa
15G01301D	154892	10/02/1996			10/02/1996	kaa
15G01401	154893	10/02/1996			10/02/1996	kaa
15G01401D	154894	10/02/1996			10/02/1996	kaa

ANALYTICAL REPORT

Report Date: 10/16/1996

Report To: ABB Environmental, Inc./FL

NET Job No: 96.03158

Project: Work Release #936-MO

Date Rec'd: 09/28/1996

Sample ID	NET ID	Result	Units	Run Batch	Analysis Date	Analyst

Cadmium (Cd)	200 ICP AQ	EPA 200 ICP, 200.7mod				
15G00101 ✓	154883	<0.0050	mg/L	849	10/03/1996	jem
15G00201	154884	<0.0050	mg/L	849	10/03/1996	jem
15G00301	154885	<0.0050	mg/L	849	10/03/1996	jem
15G00601	154886	<0.0050	mg/L	849	10/03/1996	jem
15G01701	154887	<0.0050	mg/L	849	10/03/1996	jem
15G01501	154888	<0.0050	mg/L	849	10/03/1996	jem
15G01101	154889	<0.0050	mg/L	849	10/03/1996	jem
15G01001	154890	<0.0050	mg/L	849	10/03/1996	jem
15G01301	154891	<0.0050	mg/L	849	10/03/1996	jem
15G01301D	154892	<0.0050	mg/L	849	10/03/1996	jem
15G01401	154893	<0.0050	mg/L	849	10/03/1996	jem
15G01401D	154894	<0.0050	mg/L	849	10/03/1996	jem
Lead (Pb)	200 GFAA AQ	EPA 200 furnace, 200				
15G00101 ✓	154883	0.031	mg/L	307	10/04/1996	mwt
15G00201	154884	0.23	mg/L	307	10/04/1996	mwt
15G00301	154885	0.22	mg/L	307	10/04/1996	mwt
15G00601	154886	0.064	mg/L	307	10/04/1996	mwt
15G01701	154887	0.0042	mg/L	307	10/04/1996	mwt
15G01501	154888	0.020	mg/L	307	10/04/1996	mwt
15G01101	154889	0.020	mg/L	307	10/04/1996	mwt
15G01001	154890	0.047	mg/L	307	10/04/1996	mwt
15G01301	154891	0.024	mg/L	307	10/04/1996	mwt
15G01301D	154892	0.023	mg/L	307	10/04/1996	mwt
15G01401	154893	0.023	mg/L	307	10/04/1996	mwt
15G01401D	154894	0.029	mg/L	307	10/04/1996	mwt

ANALYTICAL REPORT

Report Date: 10/16/1996

Report To: ABB Environmental, Inc./FL

NET Job No: 96.03158

Project: Work Release #936-MO

Date Rec'd: 09/28/1996

Sample ID	NET ID	Result	Units	Run Batch	Analysis Date	Analyst

EX Petroleum Hydro., TPH AQ EPA 418.1						
15G00101	154883	10/03/1996	date		10/03/1996	ask
15G00201	154884	10/03/1996	date		10/03/1996	ask
15G00301	154885	10/03/1996	date		10/03/1996	ask
15G00601	154886	10/03/1996	date		10/03/1996	ask
15G01701	154887	10/03/1996	date		10/03/1996	ask
15G01501	154888	10/03/1996	date		10/03/1996	ask
15G01101	154889	10/03/1996	date		10/03/1996	ask
15G01001	154890	10/03/1996	date		10/03/1996	ask
15G01301	154891	10/03/1996	date		10/03/1996	ask
15G01301D	154892	10/03/1996	date		10/03/1996	ask
15G01401	154893	10/03/1996	date		10/03/1996	ask
15G01401D	154894	10/03/1996	date		10/03/1996	ask
Petroleum Hydrocarbons, TPH AQ EPA 418.1						
15G00101	154883	<2	mg/L	469	10/11/1996	ljs
15G00201	154884	<2	mg/L	469	10/11/1996	ljs
15G00301	154885	<2	mg/L	469	10/11/1996	ljs
15G00601	154886	<2	mg/L	469	10/11/1996	ljs
15G01701	154887	<2	mg/L	469	10/11/1996	ljs
15G01501	154888	<2	mg/L	469	10/11/1996	ljs
15G01101	154889	<2	mg/L	469	10/11/1996	ljs
15G01001	154890	<2	mg/L	469	10/11/1996	ljs
15G01301	154891	<2	mg/L	469	10/11/1996	ljs
15G01301D	154892	<2	mg/L	469	10/11/1996	ljs
15G01401	154893	<2	mg/L	469	10/11/1996	ljs
15G01401D	154894	<2	mg/L	469	10/11/1996	ljs

ANALYTICAL REPORT

Report Date: 10/16/1996

Report To: ABB Environmental, Inc./FL

NET Job No: 96.03158

Project: Work Release #936-MO

Date Rec'd: 09/28/1996

Sample ID: 15G00101

NET Sample No: 154883

Parameter	Result	Units	Analysis Date	Prep Batch	Run Batch	Analyst
Volatiles, 602, Extended	AQ					
Benzene	<1.0	ug/L	10/03/1996		723	dry
Chlorobenzene	<1.0	ug/L				
1,2-Dichlorobenzene	<1.0	ug/L				
1,3-Dichlorobenzene	<1.0	ug/L				
1,4-Dichlorobenzene	<1.0	ug/L				
Ethylbenzene	2	ug/L				
Methyl-t-butyl Ether (MTBE)	<1.0	ug/L				
Toluene	2	ug/L				
m-Xylene	1	COM ug/L				
o-Xylene	<1.0	ug/L				
p-Xylene	<1.0	COM ug/L				

NET Cambridge Division

ANALYTICAL REPORT

Report Date: 10/16/1996

Report To: ABB Environmental, Inc./FL

NET Job No: 96.03158

Project: Work Release #936-MO

Date Rec'd: 09/28/1996

Sample ID: 15G00201

NET Sample No: 154884

Parameter	Result	Units	Analysis Date	Prep Batch	Run Batch	Analyst
Volatiles, 602, Extended	AQ					
Benzene	<1.0	ug/L	10/02/1996		722	dry
Chlorobenzene	<1.0	ug/L				
1,2-Dichlorobenzene	<1.0	ug/L				
1,3-Dichlorobenzene	<1.0	ug/L				
1,4-Dichlorobenzene	<1.0	ug/L				
Ethylbenzene	<1.0	ug/L				
Methyl-t-butyl Ether (MTBE)	<1.0	ug/L				
Toluene	<1.0	ug/L				
m-Xylene	1	COM ug/L				
o-Xylene	<1.0	ug/L				
p-Xylene	<1.0	COM ug/L				

COM-Combination of coeluting isomers, with the total reported as one isomer

NET Cambridge Division

ANALYTICAL REPORT

Report Date: 10/16/1996

Report To: ABB Environmental, Inc./FL

NET Job No: 96.03158

Project: Work Release #936-MO

Date Rec'd: 09/28/1996

Sample ID: 15G00301

NET Sample No: 154885

Parameter	Result	Units	Analysis Date	Prep Batch	Run Batch	Analyst
Volatiles, 602, Extended	AQ					
Benzene	<1.0	ug/L	10/02/1996		722	dry
Chlorobenzene	<1.0	ug/L				
1,2-Dichlorobenzene	<1.0	ug/L				
1,3-Dichlorobenzene	<1.0	ug/L				
1,4-Dichlorobenzene	<1.0	ug/L				
Ethylbenzene	<1.0	ug/L				
Methyl-t-butyl Ether (MTBE)	<1.0	ug/L				
Toluene	<1.0	ug/L				
m-Xylene	<1.0	ug/L				
o-Xylene	<1.0	ug/L				
p-Xylene	<1.0	ug/L				

NET Cambridge Division

ANALYTICAL REPORT

Report Date: 10/16/1996

Report To: ABB Environmental, Inc./FL

NET Job No: 96.03158

Project: Work Release #936-MO

Date Rec'd: 09/28/1996

Sample ID: 15G00601

NET Sample No: 154886

Parameter	Result	Units	Analysis Date	Prep Batch	Run Batch	Analyst
Volatiles, 602, Extended	AQ					
Benzene	<1.0	ug/L	10/02/1996		722	dry
Chlorobenzene	<1.0	ug/L				
1,2-Dichlorobenzene	<1.0	ug/L				
1,3-Dichlorobenzene	<1.0	ug/L				
1,4-Dichlorobenzene	<1.0	ug/L				
Ethylbenzene	<1.0	ug/L				
Methyl-t-butyl Ether (MTBE)	<1.0	ug/L				
Toluene	<1.0	ug/L				
m-Xylene	<1.0	ug/L				
o-Xylene	<1.0	ug/L				
p-Xylene	<1.0	ug/L				

NET Cambridge Division

ANALYTICAL REPORT

Report Date: 10/16/1996

Report To: ABB Environmental, Inc./FL

NET Job No: 96.03158

Project: Work Release #936-M0

Date Rec'd: 09/28/1996

Sample ID: 15G01701

NET Sample No: 154887

Parameter	Result	Units	Analysis Date	Prep Batch	Run Batch	Analyst
Volatiles, 602, Extended	AQ					
Benzene	<1.0	ug/L	10/03/1996		723	dry
Chlorobenzene	<1.0	ug/L				
1,2-Dichlorobenzene	<1.0	ug/L				
1,3-Dichlorobenzene	<1.0	ug/L				
1,4-Dichlorobenzene	<1.0	ug/L				
Ethylbenzene	<1.0	ug/L				
Methyl-t-butyl Ether (MTBE)	<1.0	ug/L				
Toluene	<1.0	ug/L				
m-Xylene	2	COM ug/L				
o-Xylene	<1.0	ug/L				
p-Xylene	<1.0	COM ug/L				

COM-Combination of coeluting isomers, with the total reported as one isomer

NET Cambridge Division

ANALYTICAL REPORT

Report Date: 10/16/1996

Report To: ABB Environmental, Inc./FL

NET Job No: 96.03158

Project: Work Release #936-M0

Date Rec'd: 09/28/1996

Sample ID: 15G01501

NET Sample No: 154888

Parameter	Result	Units	Analysis Date	Prep Batch	Run Batch	Analyst
Volatiles, 602, Extended	AQ					
Benzene	4	ug/L	10/04/1996		724	dry
Chlorobenzene	<1.0	ug/L				
1,2-Dichlorobenzene	<1.0	ug/L				
1,3-Dichlorobenzene	<1.0	ug/L				
1,4-Dichlorobenzene	<1.0	ug/L				
Ethylbenzene	15	ug/L				
Methyl-t-butyl Ether (MTBE)	<1.0	ug/L				
Toluene	<1.0	ug/L				
m-Xylene	3	COM ug/L				
o-Xylene	<1.0	ug/L				
p-Xylene	<1.0	COM ug/L				

COM-Combination of coeluting isomers, with the total reported as one isomer

NET Cambridge Division

ANALYTICAL REPORT

Report Date: 10/16/1996

Report To: ABB Environmental, Inc./FL

NET Job No: 96.03158

Project: Work Release #936-MO

Date Rec'd: 09/28/1996

Sample ID: 15G01101

NET Sample No: 154889

Parameter	Result	Units	Analysis Date	Prep Batch	Run Batch	Analyst
Volatiles, 602, Extended	AQ					
Benzene	<1.0	ug/L	10/03/1996		723	dry
Chlorobenzene	<1.0	ug/L				
1,2-Dichlorobenzene	<1.0	ug/L				
1,3-Dichlorobenzene	<1.0	ug/L				
1,4-Dichlorobenzene	<1.0	ug/L				
Ethylbenzene	1	ug/L				
Methyl-t-butyl Ether (MTBE)	<1.0	ug/L				
Toluene	<1.0	ug/L				
m-Xylene	<1.0	ug/L				
o-Xylene	<1.0	ug/L				
p-Xylene	<1.0	ug/L				

NET Cambridge Division

ANALYTICAL REPORT

Report Date: 10/16/1996

Report To: ABB Environmental, Inc./FL

NET Job No: 96.03158

Project: Work Release #936-MO

Date Rec'd: 09/28/1996

Sample ID: 15G01001

NET Sample No: 154890

Parameter	Result	Units	Analysis Date	Prep Batch	Run Batch	Analyst
Volatiles, 602, Extended	AQ					
Benzene	<1.0	ug/L	10/03/1996		723	dry
Chlorobenzene	<1.0	ug/L				
1,2-Dichlorobenzene	<1.0	ug/L				
1,3-Dichlorobenzene	<1.0	ug/L				
1,4-Dichlorobenzene	<1.0	ug/L				
Ethylbenzene	<1.0	ug/L				
Methyl-t-butyl Ether (MTBE)	<1.0	ug/L				
Toluene	<1.0	ug/L				
m-Xylene	<1.0	ug/L				
o-Xylene	<1.0	ug/L				
p-Xylene	<1.0	ug/L				

NET Cambridge Division

ANALYTICAL REPORT

Report Date: 10/16/1996

Report To: ABB Environmental, Inc./FL

NET Job No: 96.03158

Project: Work Release #936-MO

Date Rec'd: 09/28/1996

Sample ID: 15G01301

NET Sample No: 154891

Parameter	Result	Units	Analysis Date	Prep Batch	Run Batch	Analyst
Volatiles, 602, Extended	AQ					
Benzene	<1.0	ug/L	10/02/1996		722	dry
Chlorobenzene	<1.0	ug/L				
1,2-Dichlorobenzene	<1.0	ug/L				
1,3-Dichlorobenzene	<1.0	ug/L				
1,4-Dichlorobenzene	<1.0	ug/L				
Ethylbenzene	<1.0	ug/L				
Methyl-t-butyl Ether (MTBE)	<1.0	ug/L				
Toluene	<1.0	ug/L				
m-Xylene	<1.0	ug/L				
o-Xylene	<1.0	ug/L				
p-Xylene	<1.0	ug/L				

NET Cambridge Division

ANALYTICAL REPORT

Report Date: 10/16/1996

Report To: ABB Environmental, Inc./FL

NET Job No: 96.03158

Project: Work Release #936-MO

Date Rec'd: 09/28/1996

Sample ID: 15G01301D

NET Sample No: 154892

Parameter	Result	Units	Analysis Date	Prep Batch	Run Batch	Analyst
Volatiles, 602, Extended	AQ					
Benzene	1	ug/L	10/02/1996		722	dry
Chlorobenzene	<1.0	ug/L				
1,2-Dichlorobenzene	<1.0	ug/L				
1,3-Dichlorobenzene	<1.0	ug/L				
1,4-Dichlorobenzene	<1.0	ug/L				
Ethylbenzene	<1.0	ug/L				
Methyl-t-butyl Ether (MTBE)	<1.0	ug/L				
Toluene	<1.0	ug/L				
m-Xylene	<1.0	ug/L				
o-Xylene	<1.0	ug/L				
p-Xylene	<1.0	ug/L				

NET Cambridge Division

ANALYTICAL REPORT

Report Date: 10/16/1996

Report To: ABB Environmental, Inc./FL

NET Job No: 96.03158

Project: Work Release #936-MO

Date Rec'd: 09/28/1996

Sample ID: 15G01401

NET Sample No: 154893

Parameter	Result	Units	Analysis Date	Prep Batch	Run Batch	Analyst
Volatiles, 602, Extended	AQ					
Benzene	<1.0	ug/L	10/03/1996		723	dry
Chlorobenzene	<1.0	ug/L				
1,2-Dichlorobenzene	<1.0	ug/L				
1,3-Dichlorobenzene	<1.0	ug/L				
1,4-Dichlorobenzene	<1.0	ug/L				
Ethylbenzene	<1.0	ug/L				
Methyl-t-butyl Ether (MTBE)	<1.0	ug/L				
Toluene	2	ug/L				
m-Xylene	2	COM ug/L				
o-Xylene	<1.0	ug/L				
p-Xylene	<1.0	COM ug/L				

COM-Combination of coeluting isomers, with the total reported as one isomer

NET Cambridge Division

ANALYTICAL REPORT

Report Date: 10/16/1996

Report To: ABB Environmental, Inc./FL

NET Job No: 96.03158

Project: Work Release #936-MO

Date Rec'd: 09/28/1996

Sample ID: 15G01401D

NET Sample No: 154894

Parameter	Result	Units	Analysis Date	Prep Batch	Run Batch	Analyst
Volatiles, 602, Extended	AQ					
Benzene	<1.0	ug/L	10/03/1996		723	dry
Chlorobenzene	<1.0	ug/L				
1,2-Dichlorobenzene	<1.0	ug/L				
1,3-Dichlorobenzene	<1.0	ug/L				
1,4-Dichlorobenzene	<1.0	ug/L				
Ethylbenzene	<1.0	ug/L				
Methyl-t-butyl Ether (MTBE)	<1.0	ug/L				
Toluene	2	ug/L				
m-Xylene	2	COM ug/L				
o-Xylene	<1.0	ug/L				
p-Xylene	<1.0	COM ug/L				

COM-Combination of coeluting isomers, with the total reported as one isomer

QC SUMMARY - GC - INORGANICS REPORT - DUPLICATE

GC - ANTIMONY DETERMINATION
File # 107-5-76

Work ID
SDG/ Date 9/11/58
Page 1

Deposited 3150-154857 (Aquatics) 3158-154897 (Aquatics)

Sample	Duplicate	LRPD	Sample	Duplicate	LRPD
0.0001					
0.0050	0.0050	mg/L	0.0050	0.0050	mg/L
0.12	0.097	mg/L	0.031	0.030	mg/L

GC SUMMARY FOR 1000 ANALYSIS REPORT. PRE-DIGESTION SPIKING

MLF-CHEMISTRY DIVISION
 Date of report: 10/15/98

Work ID:
 SDG/ Batch 9810150
 Page 2

1000-134857 (aqueous)

	Sample	Spike	Added	Recovery
1000-134857	0.050 ug/L	0.045	0.050	100%
1000-134857	0.15 ug/L	0.09	0.500	68%

1000-134858 (aqueous)

	Sample	Spike	Added	Recovery
1000-134858	0.050 ug/L	0.047	0.050	94%
1000-134858	0.071 ug/L	0.054	0.020	115%

QC SUMMARY FOR THE ORGANICS REPORT DIGEST (0) BLANKS

LABORATORY DIVISION

Work ID

Date of report 10/15/96

SDG/ Batch. 5001155

Page 1

.....

Blank 00070w
Found: mg/L

Element

Co 0.0000

Pb 0.0015

.....

NET Cambridge Division

QUALITY CONTROL DATA

Client: ABB Environmental, Inc./FL

NET Job No: 96.03158

Project: Work Release #936-M0

Report Date: 10/16/1996

Surrogate Standard Percent Recovery

Abbreviated Surrogate Standard Names:

SS1	SS2	SS3	SS4	SS5	SS6	SS7	SS8	SS9	SS10	SS11	SS12
-----	-----	-----	-----	-----	-----	-----	-----	-----	------	------	------

Bromofl

Sample ID	NET ID	Matrix	Percent Recovery									SS10	SS11	SS12
			SS1	SS2	SS3	SS4	SS5	SS6	SS7	SS8	SS9			
15G00101	154883	GROUND WATER	122											
15G00201	154884	GROUND WATER	96											
15G00301	154885	GROUND WATER	90											
15G00601	154886	GROUND WATER	87											
15G01701	154887	GROUND WATER	97											
15G01501	154888	GROUND WATER	98											
15G01101	154889	GROUND WATER	100											
15G01001	154890	GROUND WATER	100											
15G01301	154891	GROUND WATER	93											
15G01301D	154892	GROUND WATER	100											
15G01401	154893	GROUND WATER	105											
15G01401D	154894	GROUND WATER	98											

Notes:

NR - This surrogate standard is Not Required. Other versions of this test method may use this surrogate standard.
 Dil - This surrogate standard was diluted to below detectable levels due to concentrations of analytes in this sample.

Complete Surrogate Standard Names Listed by Analysis:

Pesticide Surrogate Standards:

Decachl = Decachlorobiphenyl	Dibutyl = Dibutylchlorendate	Tetrach = Tetrachloro-m-xylene
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Volatile Surrogate Standards:

Bromofl = Bromofluorobenzene	1,2-Dichl = 1,2-Dichloroethane-d4	Toluene = Toluene-d8
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Drinking Water Method 524 1,2-Dichl = 1,2-Dichlorobenzene-d4

Semivolatile Surrogate Standards:

2-Fluor (1st) = 2-Fluorobiphenyl	Phenol- = Phenol-d6	2,4,6-T = 2,4,6-Tribromophenol
2-Fluor (2nd) = 2-Fluorophenol	Nitrobe = Nitrobenzene-d5	p-Terph = p-Terphenyl

Herbicides Surrogate Standard:

2,4-Dic = 2,4-Dichlorophenyl acetic acid

Petroleum Hydrocarbon Fingerprint Surrogate Standard:

2-Fluor = 2-Fluorobiphenyl	para-Te = para-Terphenyl
----------------------------	--------------------------

NET Cambridge Division
QUALITY CONTROL DATA

Report To: ABB Environmental, Inc./FL

NET Job No: 96.03158

Project: Work Release #936-MO

Report Date : 10/16/1996

Method Blank Analysis Data

Test Name	Result	Units	Prep Batch	Run Batch	Run Date	Analyst Initials
Petroleum Hydrocarbons, TPH AQ	<2	mg/L	457	467	10/08/1996	ask
Volatiles, 602, Extended AQ						
Bromofluorobenzene	89	% recov.		722	10/02/1996	dry
Benzene	<1.0	ug/L		722	10/02/1996	dry
Chlorobenzene	<1.0	ug/L		722	10/02/1996	dry
1,2-Dichlorobenzene	<1.0	ug/L		722	10/02/1996	dry
1,3-Dichlorobenzene	<1.0	ug/L		722	10/02/1996	dry
1,4-Dichlorobenzene	<1.0	ug/L		722	10/02/1996	dry
Ethylbenzene	<1.0	ug/L		722	10/02/1996	dry
Methyl-t-butyl Ether (MTBE)	<1.0	ug/L		722	10/02/1996	dry
Toluene	<1.0	ug/L		722	10/02/1996	dry
m-Xylene	<1.0	ug/L		722	10/02/1996	dry
o-Xylene	<1.0	ug/L		722	10/02/1996	dry
p-Xylene	<1.0	ug/L		722	10/02/1996	dry

NET Cambridge Division
QUALITY CONTROL DATA

Report To: ABB Environmental, Inc./FL

NET Job No: 96.03158

Project: Work Release #936-MO

Report Date : 10/16/1996

Method Blank Analysis Data

Test Name	Result	Units	Prep Batch	Run Batch	Run Date	Analyst Initials
Volatiles, 602, Extended AQ						
Bromofluorobenzene	103	% recov.		723	10/03/1996	dry
Benzene	<1.0	ug/L		723	10/03/1996	dry
Chlorobenzene	<1.0	ug/L		723	10/03/1996	dry
1,2-Dichlorobenzene	<1.0	ug/L		723	10/03/1996	dry
1,3-Dichlorobenzene	<1.0	ug/L		723	10/03/1996	dry
1,4-Dichlorobenzene	<1.0	ug/L		723	10/03/1996	dry
Ethylbenzene	<1.0	ug/L		723	10/03/1996	dry
Methyl-t-butyl Ether (MTBE)	<1.0	ug/L		723	10/03/1996	dry
Toluene	<1.0	ug/L		723	10/03/1996	dry
m-Xylene	<1.0	ug/L		723	10/03/1996	dry
o-Xylene	<1.0	ug/L		723	10/03/1996	dry
p-Xylene	<1.0	ug/L		723	10/03/1996	dry

NET Cambridge Division
QUALITY CONTROL DATA

Report To: ABB Environmental, Inc./FL

NET Job No: 96.03158

Project: Work Release #936-MO

Report Date : 10/16/1996

Method Blank Analysis Data

Test Name	Result	Units	Prep Batch	Run Batch	Run Date	Analyst Initials

Volatiles, 602, Extended AQ						
Bromofluorobenzene	106	% recov.		724	10/04/1996	dry
Benzene	<1.0	ug/L		724	10/04/1996	dry
Chlorobenzene	<1.0	ug/L		724	10/04/1996	dry
1,2-Dichlorobenzene	<1.0	ug/L		724	10/04/1996	dry
1,3-Dichlorobenzene	<1.0	ug/L		724	10/04/1996	dry
1,4-Dichlorobenzene	<1.0	ug/L		724	10/04/1996	dry
Ethylbenzene	<1.0	ug/L		724	10/04/1996	dry
Methyl-t-butyl Ether (MTBE)	<1.0	ug/L		724	10/04/1996	dry
Toluene	<1.0	ug/L		724	10/04/1996	dry
m-Xylene	<1.0	ug/L		724	10/04/1996	dry
o-Xylene	<1.0	ug/L		724	10/04/1996	dry
p-Xylene	<1.0	ug/L		724	10/04/1996	dry

FORM 3
 WATER VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: NET CAMBRIDGE

Contract:

Lab Code: CAMBRG

Case No.:

SAS No.:

SDG No.: 961003P

Matrix Spike - Sample No.: 154928

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC #	QC. LIMITS REC.
Chlorobenzene	20	0.00	16	80	55-135
1,2-Dichlorobenzene	20	0.00	15	75	37-154
1,4-Dichlorobenzene	20	0.00	15	75	42-143
1,3-Dichlorobenzene	20	0.00	16	80	50-141
MTBE	20	0.00	19	95	50-150
Ethyl Benzene	20	0.00	17	85	32-160
M + P Xylenes	40	0.00	29	72	0-200
O Xylene	20	0.00	15	75	0-200
Benzene	20	0.00	17	85	39-150
Toluene	20	0.00	17	85	46-148

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 0 outside limits

Spike Recovery: 0 out of 10 outside limits

COMMENTS:

Data File: /chem/hp5890a.i/961003p.b/011f0101.d
Report Date: 04-Oct-1996 09:18

NET Cambridge

RECOVERY REPORT

Client Name: Client SDG: 961003p
Sample Matrix: LIQUID Fraction: VOA
Lab Smp Id: 154928MS Client Smp ID: 154928MS
Level: LOW Operator: DRY
Data Type: GC DATA SampleType: MS
SpikeList File: 602MS.spk Quant Type: ESTD
Method File: /chem/hp5890a.i/961003p.b/602.m
Misc Info:

SPIKE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
1 MTBE	20	19	94.36	50-150
2 Benzene	20	17	85.06	39-150
3 Toluene	20	17	83.78	46-148
4 Chlorobenzene	20	16	78.77	55-135
5 Ethyl Benzene	20	17	83.28	32-160
6 M + P Xylenes	40	29	73.05	0-200
7 O Xylene	20	15	73.61	0-200
9 1,3-Dichlorobenzen	20	16	80.97	50-141
10 1,4-Dichlorobenzen	20	15	76.50	42-143
11 1,2-Dichlorobenzen	20	15	73.96	37-154

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
\$ 8 Bromofluorobenzene	30	29	97.59	75-125

Data File: /chem/hp5890a.i/961003p.b/011f0101.d

Date : 03-OCT-96 19:27

Client ID: 154928MS

Instrument: hp5890a.1

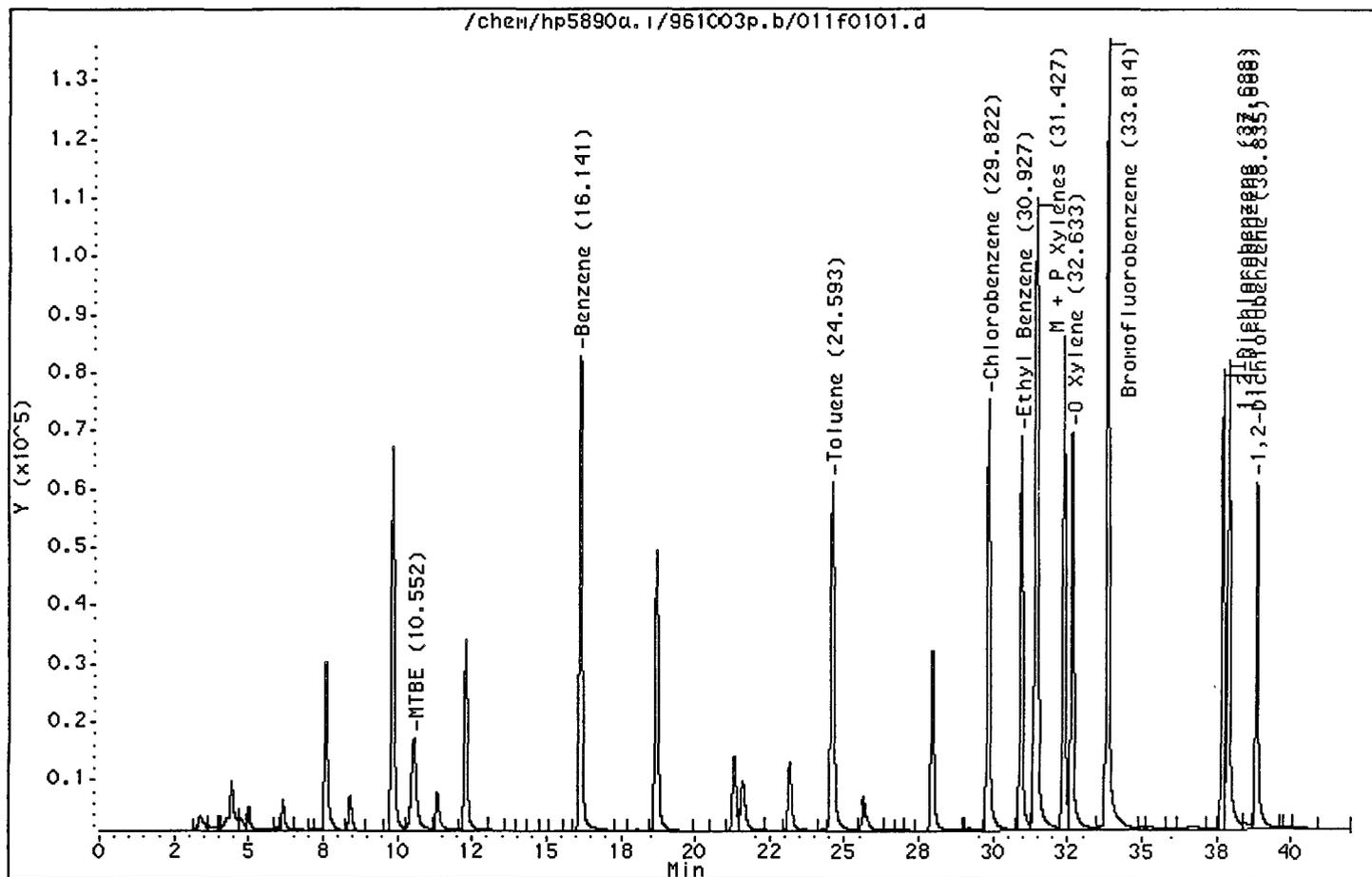
Sample Info: 154928MS

Purge Volume: 5.0

Operator: DRY

Column phase: RTX-1

Column diameter: 0.53



Data File: /chem/hp5890a.i/961003p.b/011f0101.d
 Report Date: 04-Oct-1996 09:18

NET Cambridge

VOLATILE REPORT 602

Data file : /chem/hp5890a.i/961003p.b/011f0101.d
 Lab Smp Id: 154928MS Client Smp ID: 154928MS
 Inj Date : 03-OCT-96 19:27
 Operator : DRY Inst ID: hp5890a.i
 Smp Info : 154928MS
 Misc Info :
 Comment :
 Method : /chem/hp5890a.i/961003p.b/602.m
 Meth Date : 03-Oct-1996 10:03 doug Quant Type: ESTD
 Cal Date : 02-SEP-1996 18:07 Cal File: 006f0101.d
 Als bottle: 1 QC Sample: MS
 Dil Factor: 1.000
 Integrator: HP Genie Compound Sublist: all.sub
 Target Version: 3.12
 Concentration Formula: Uf * 5/Vo

Name	Value	Description
Uf	1.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN (ug/L)	FINAL (ug/L)
1 MTBE	10.552	10.687	-0.135	1033432	19	19 (M)
2 Benzene	16.141	16.338	-0.197	2788731	17	17 (M)
3 Toluene	24.593	24.629	-0.036	2524245	17	17
4 Chlorobenzene	29.822	29.857	-0.035	2539346	16	16
5 Ethyl Benzene	30.927	30.963	-0.036	2218029	17	17
6 M + P Xylenes	31.427	31.463	-0.036	4812475	29	29
7 O Xylene	32.633	32.669	-0.036	2353963	15	15
8 Bromofluorobenzene	33.814	33.851	-0.037	4481595	29	29 (A)
9 1,3-Dichlorobenzene	37.688	37.728	-0.040	2175950	16	16
10 1,4-Dichlorobenzene	37.888	37.928	-0.040	2559360	15	15
11 1,2-Dichlorobenzene	38.835	38.875	-0.040	1902208	15	15

QC Flag Legend

- A - Target compound detected but, quantitated amount exceeded maximum amount.
- M - Compound response manually integrated.

WATER VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: NET CAMBRIDGE

Contract:

Lab Code: CAMBRG

Case No.:

SAS No.:

SDG No.: 961002P

Matrix Spike - EPA Sample No.: 154892

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC #	QC. LIMITS REC.
Chlorobenzene	20	0.00	17	85	55-135
1,2-Dichlorobenzene	20	0.00	15	75	37-154
1,4-Dichlorobenzene	20	0.00	16	80	42-143
1,3-Dichlorobenzene	20	0.00	17	85	50-141
MTBE	20	0.00	17	85	50-150
Ethyl Benzene	20	0.00	18	90	32-160
M + P Xylenes	40	0.00	32	80	0-200
O Xylene	20	0.00	16	80	0-200
Benzene	20	1.3	19	88	39-150
Toluene	20	0.00	18	90	46-148

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 0 outside limits

Spike Recovery: 0 out of 10 outside limits

COMMENTS:

Data File: /chem/hp5890a.i/961002p.b/004f0101.d
Report Date: 03-Oct-1996 10:26

NET Cambridge

RECOVERY REPORT

Client Name: Client SDG: 961002p
Sample Matrix: LIQUID Fraction: VOA
Lab Smp Id: 154892MS Client Smp ID: 154892MS
Level: LOW Operator: DRY
Data Type: GC DATA SampleType: MS
SpikeList File: 602MS.spk Quant Type: ESTD
Method File: /chem/hp5890a.i/961002p.b/602.m
Misc Info:

SPIKE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
1 MTBE	20	17	84.70	50-150
2 Benzene	20	19	94.50	39-150
3 Toluene	20	18	92.02	46-148
4 Chlorobenzene	20	17	83.82	55-135
5 Ethyl Benzene	20	18	90.93	32-160
6 M + P Xylenes	40	32	80.42	0-200
7 O Xylene	20	16	79.11	0-200
9 1,3-Dichlorobenzen	20	17	85.60	50-141
10 1,4-Dichlorobenzen	20	16	81.16	42-143
11 1,2-Dichlorobenzen	20	15	73.81	37-154

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
\$ 8 Bromofluorobenzene	30	30	100.30	75-125

Data File: /chem/hp5890a.i/961002p.b/004f0101.d

Date: 02-OCT-1996 11:14

Client ID: 154892MS

Instrument: hp5890a.i

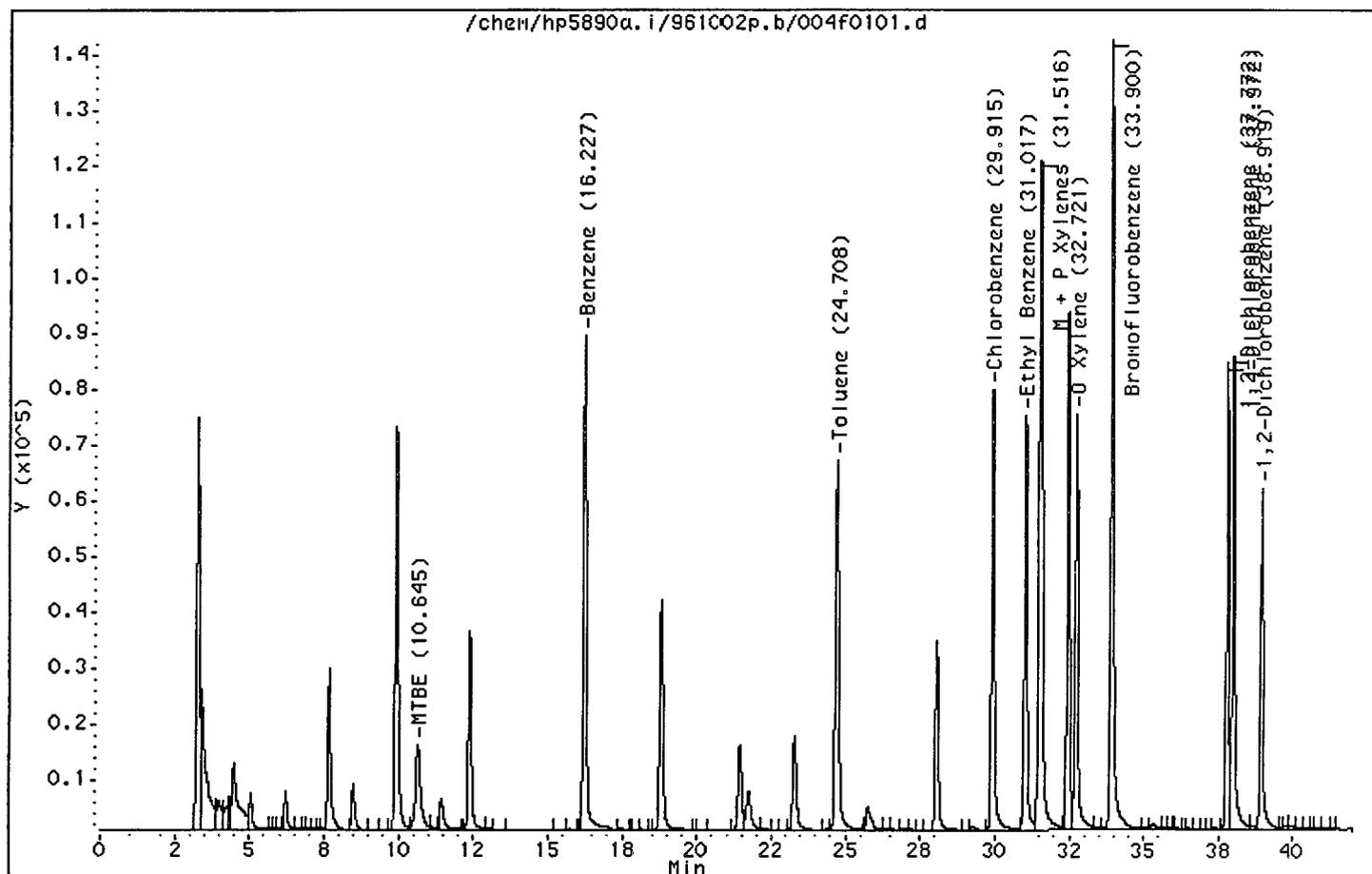
Sample Info: 154892MS

Purge Volume: 5.0

Operator: DRY

Column phase: RTX-1

Column diameter: 0.53



Data File: /chem/hp5890a.i/961002p.b/004f0101.d
 Report Date: 03-Oct-1996 10:26

NET Cambridge

VOLATILE REPORT 602

Data file : /chem/hp5890a.i/961002p.b/004f0101.d
 Lab Smp Id: 154892MS Client Smp ID: 154892MS
 Inj Date : 02-OCT-1996 11:14
 Operator : DRY Inst ID: hp5890a.i
 Smp Info : 154892MS
 Misc Info :
 Comment :
 Method : /chem/hp5890a.i/961002p.b/602.m
 Meth Date : 02-Oct-1996 09:14 doug Quant Type: ESTD
 Cal Date : 02-SEP-1996 18:07 Cal File: 006f0101.d
 Als bottle: 1 QC Sample: MS
 Dil Factor: 1.000
 Integrator: HP Genie Compound Sublist: all.sub
 Target Version: 3.12
 Concentration Formula: Uf * 5/Vo

Name	Value	Description
Uf	1.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN (ug/L)	FINAL (ug/L)
1 MTBE	10.645	10.687	-0.042	944193	17	17
2 Benzene	16.227	16.338	-0.111	3098011	19	19
3 Toluene	24.708	24.629	0.079	2772337	18	18
4 Chlorobenzene	29.915	29.857	0.058	2701911	17	17
5 Ethyl Benzene	31.017	30.963	0.054	2421902	18	18
6 M + P Xylenes	31.516	31.463	0.053	5298571	32	32
7 O Xylene	32.721	32.669	0.052	2529991	16	16
\$ 8 Bromofluorobenzene	33.900	33.851	0.049	4605953	30	30 (A)
9 1,3-Dichlorobenzene	37.772	37.728	0.044	2300191	17	17
10 1,4-Dichlorobenzene	37.972	37.928	0.044	2715197	16	16
11 1,2-Dichlorobenzene	38.919	38.875	0.044	1898451	15	15

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

FORM 3
WATER VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: NET CAMBRIDGE

Contract:

Lab Code: CAMBRG

Case No.:

SAS No.:

SDG No.: 961002P

Matrix Spike - Sample No.: 154891

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC #	QC. LIMITS REC.
Chlorobenzene	20	0.00	16	80	55-135
1,2-Dichlorobenzene	20	0.00	14	70	37-154
1,4-Dichlorobenzene	20	0.00	16	80	42-143
1,3-Dichlorobenzene	20	0.00	16	80	50-141
MTBE	20	0.00	14	70	50-150
Ethyl Benzene	20	0.00	17	85	32-160
M + P Xylenes	40	0.00	30	75	0-200
O Xylene	20	0.00	15	75	0-200
Benzene	20	0.00	18	90	39-150
Toluene	20	0.00	17	85	46-148

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 0 outside limits

Spike Recovery: 0 out of 10 outside limits

COMMENTS:

Data File: /chem/hp5890a.i/961002p.b/014f0101.d
Report Date: 03-Oct-1996 10:26

NET Cambridge

RECOVERY REPORT

Client Name: Client SDG: 961002p
Sample Matrix: LIQUID Fraction: VOA
Lab Smp Id: 154891MS Client Smp ID: 154891MS
Level: LOW Operator: DRY
Data Type: GC DATA SampleType: MS
SpikeList File: 602MS.spk Quant Type: ESTD
Method File: /chem/hp5890a.i/961002p.b/602.m
Misc Info:

SPIKE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
1 MTBE	20	14	70.97	50-150
2 Benzene	20	18	88.09	39-150
3 Toluene	20	17	85.93	46-148
4 Chlorobenzene	20	16	79.77	55-135
5 Ethyl Benzene	20	17	84.21	32-160
6 M + P Xylenes	40	30	74.64	0-200
7 O Xylene	20	15	75.36	0-200
9 1,3-Dichlorobenzen	20	16	81.88	50-141
10 1,4-Dichlorobenzen	20	16	77.73	42-143
11 1,2-Dichlorobenzen	20	14	72.48	37-154

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
\$ 8 Bromofluorobenzene	30	32	108.56	75-125

Data File: /chem/hp5890a.i/961002p.b/014f0101.d

Date : 02-OCT-1996 18:51

Client ID: 154891MS

Instrument: hp5890a.i

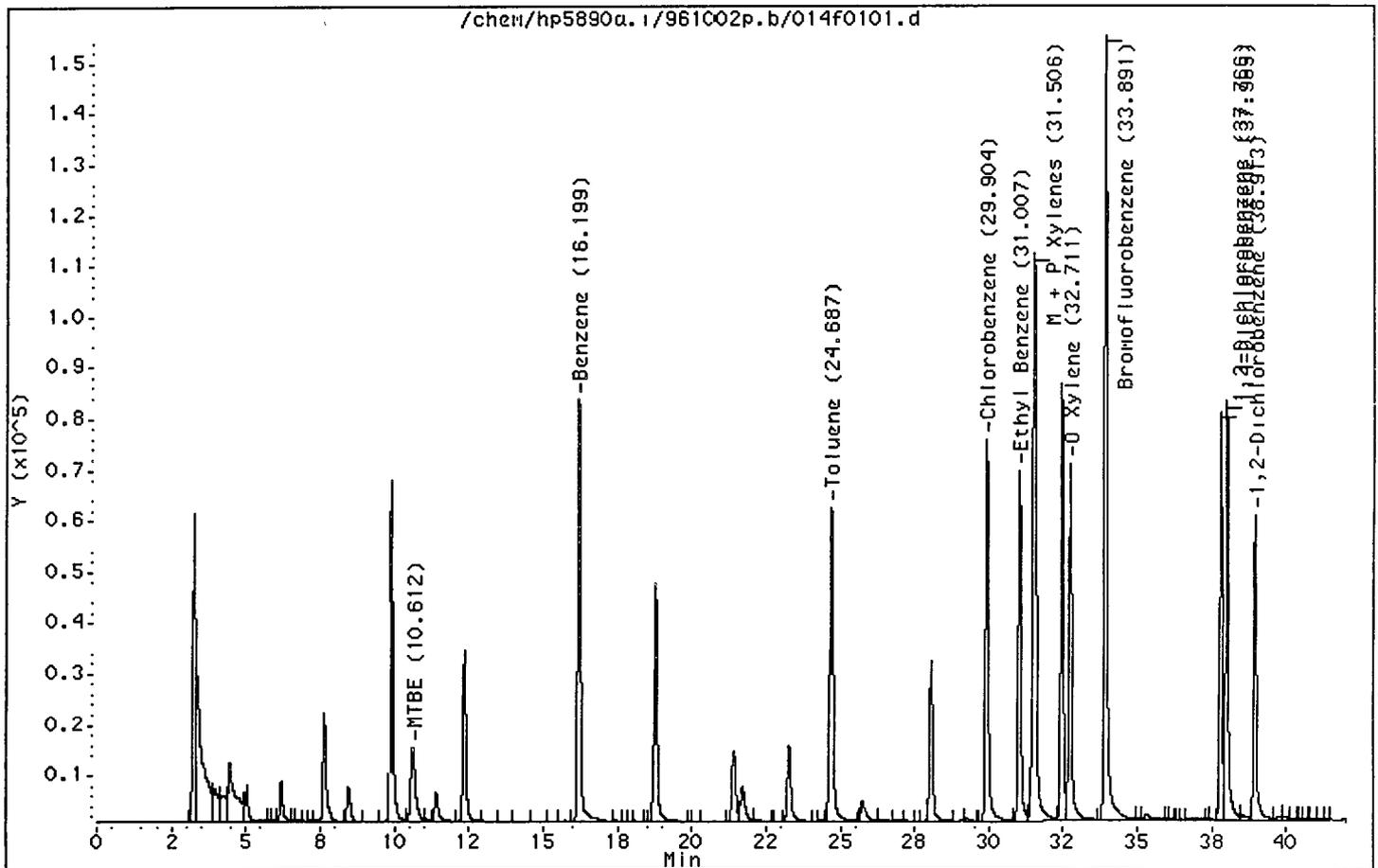
Sample Info: 154891MS

Purge Volume: 5.0

Operator: DRY

Column phase: RTX-1

Column diameter: 0.53



Data File: /chem/hp5890a.i/961002p.b/014f0101.d
 Report Date: 03-Oct-1996 10:26

NET Cambridge

VOLATILE REPORT 602

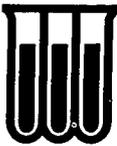
Data file : /chem/hp5890a.i/961002p.b/014f0101.d
 Lab Smp Id: 154891MS Client Smp ID: 154891MS
 Inj Date : 02-OCT-1996 18:51
 Operator : DRY Inst ID: hp5890a.i
 Smp Info : 154891MS
 Misc Info :
 Comment :
 Method : /chem/hp5890a.i/961002p.b/602.m
 Meth Date : 02-Oct-1996 09:14 doug Quant Type: ESTD
 Cal Date : 02-SEP-1996 18:07 Cal File: 006f0101.d
 Als bottle: 1 QC Sample: MS
 Dil Factor: 1.000
 Integrator: HP Genie Compound Sublist: all.sub
 Target Version: 3.12
 Concentration Formula: Uf * 5/Vo

Name	Value	Description
Uf	1.000	ng unit correction factor
Vo	5.000	Sample Volume purged (mL)

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN (ug/L)	FINAL (ug/L)
1 MTBE	10.612	10.687	-0.075	812905	14	14
2 Benzene	16.199	16.338	-0.139	2888032	18	18
3 Toluene	24.687	24.629	0.058	2588826	17	17
4 Chlorobenzene	29.904	29.857	0.047	2571495	16	16
5 Ethyl Benzene	31.007	30.963	0.044	2242894	17	17
6 M + P Xylenes	31.506	31.463	0.043	4917445	30	30
7 O Xylene	32.711	32.669	0.042	2409789	15	15
\$ 8 Bromofluorobenzene	33.891	33.851	0.040	4985187	32	32 (A)
9 1,3-Dichlorobenzene	37.766	37.728	0.038	2200264	16	16
10 1,4-Dichlorobenzene	37.965	37.928	0.037	2600521	16	16
11 1,2-Dichlorobenzene	38.913	38.875	0.038	1864208	14	14

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.



WADSWORTH/ALERT
LABORATORIES
Sampling, testing, mobile labs

5910 Breckenridge Pkwy
Suite H
Tampa, FL 33610

Chain of Custody Record

(813) 621-0784
Fax (813) 623-6021

Record 1 of 2

96.03158 # 5808

Client		Project Name / Location			No Of CON- TAINERS	Parameter										Remarks			
ABB-ES		NADEP SITE 2662LW				96.03159													
Sampler(s)		Project #			Item #	Date	Time	MATRIX	Sample Location	VOC - BTEX	PAH	METALS - Pb, Cd	TRPH - 418.1	EDB	Turbidity				
PWW / MS		7527.34																	
1	9-27-96	0850	H ₂ O	15G00101	4				2		1	1		✓					Metals unpreserved. See NOTES.
2		0850		15G00201	4				2		1	1		✓					" " " "
3		1005		15G00301	4				2		1	1		✓					" " " "
4				15600															PN
5				15600606															PN
6		0955		15G00601	4				2		1	1		✓					Metals unpreserved. See NOTES.
7		1140		15G01701	4				2		1	1							
8		1140		15G01501	4				2		1	1							
9		1400		15G01101	4				2		1	1		✓					Metals unpreserved. See NOTES.
10		1400		15G01001	4				2		1	1		✓					" " " "
11	↓	1510	↓	15G01301	4				2		1	1							

Total Containers **36**

Number of Coolers in Shipment

Bailers **N/A**

Report To: **PAMELA J. WAGNER**

Additional Comments:
Unpreserved METALS samples need to have their turbidity determined. IF < 5 NTU, then preserve and run as usual. IF the sample is > 5 NTU, then split sample. Filter half and run each half separately for Pb and Cd.

Transfer Number	Item Number(s)	Relinquished By / Company	Accepted By / Company	Date	Time
1	1-11	PWW / ABB	Fedex		
2		Fedex	Ci Bul NET	9-28-96	12:00
3					
4					
5					
6					

**Interlaboratory
Chain of Custody**

QUANTERRA, INCORPORATED
BRECKENRIDGE PKWY, STE H
TAMPA, FL 33610
PHONE (813) 621-0784 FAX (813) 623-6021



CLIENT CODE _____

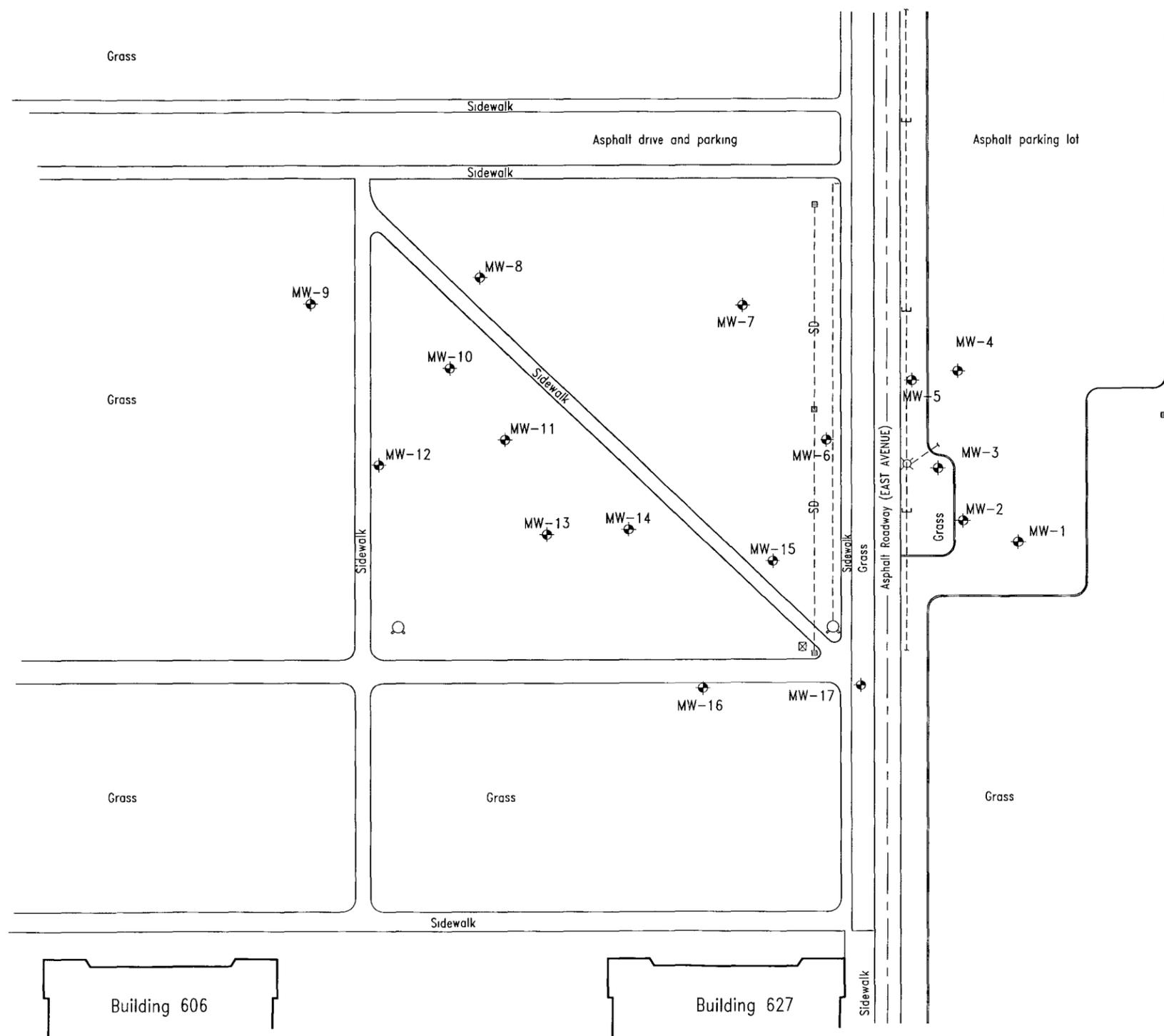
QUOTE / SAR NUMBER _____

2 of 2

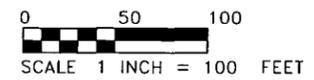
76489

Chain-of Custody Record

PROJ NO		PROJECT NAME/LOCATION					NO. OF CONTAINERS	PARAMETER				REMARKS
STA NO	DATE	TIME	COMP	GRAB	STATION LOCATION	BTEX		TRPH-418.1	Pb, Cd			
SAMPLERS: (Signature) <i>[Signature]</i>												
9-27-96	1510		X	X	15G01301D	4	2	1	1			
	↓ 1525		X	X	15G01401	4	2	1	1			
	↓ 1525		X	X	15G01401D	4	2	1	1			
	—	—	X	X	TRIP BLANK	1	1					
Relinquished by (Signature) <i>[Signature]</i>		Date / Time 9-27-96 1700		Received by (Signature)			Relinquished by (Signature)		Date / Time		Received by (Signature)	
Relinquished by (Signature) <i>[Signature]</i>		Date / Time		Received by (Signature)			Relinquished by (Signature)		Date / Time		Received by (Signature)	
Relinquished by (Signature)		Date / Time		Received for Laboratory by (Signature)			Date / Time		Remarks STANDARD TURNAROUND TIME BTEX & TRPH samples preserved with HCL.			



LEGEND	
	MW-18 Permanent monitoring well location
	E Electric line
	SD Storm drain
	Catch basin
	Fire hydrant
	Transformer
NADEP	Naval Aviation Depot

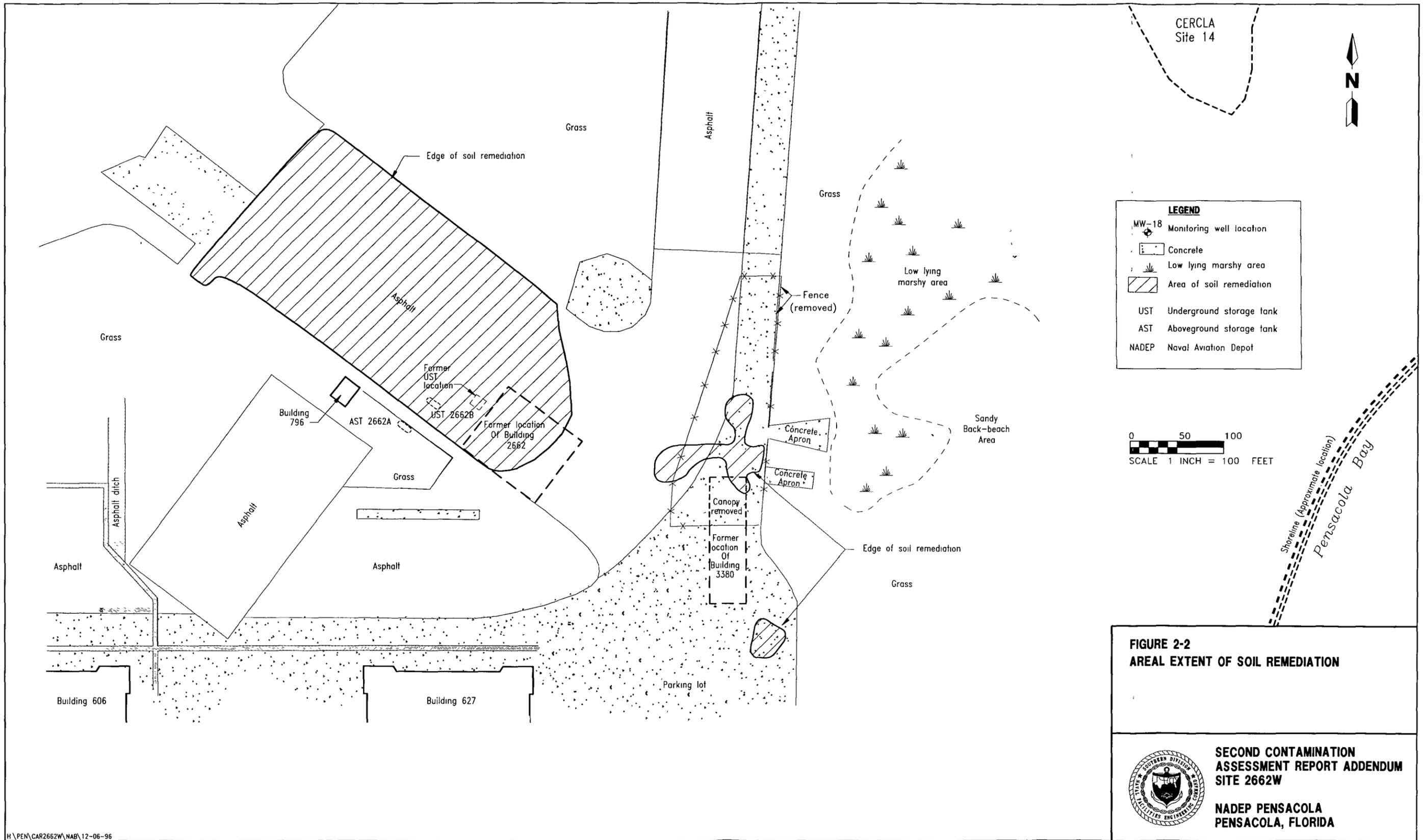


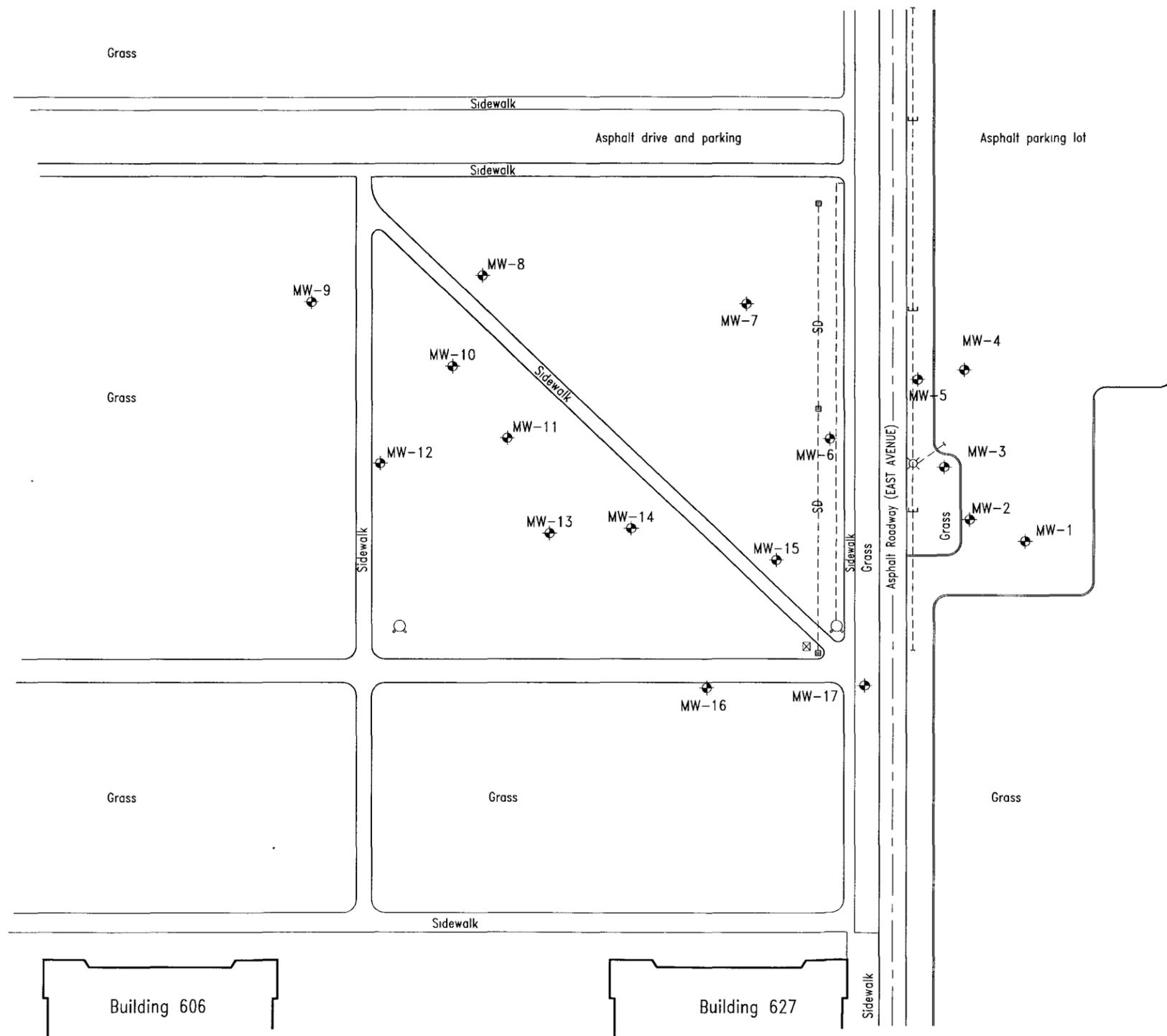
EXECUTIVE SUMMARY FIGURE



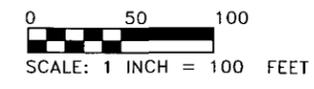
**SECOND CONTAMINATION
ASSESSMENT REPORT ADDENDUM
SITE 2662W**

**NADEP PENSACOLA
PENSACOLA, FLORIDA**





LEGEND	
MW-18	Permanent monitoring well location
— E —	Electric line
— SD —	Storm drain
[Symbol]	Catch basin
[Symbol]	Fire hydrant
[Symbol]	Transformer
NADEP	Naval Aviation Depot

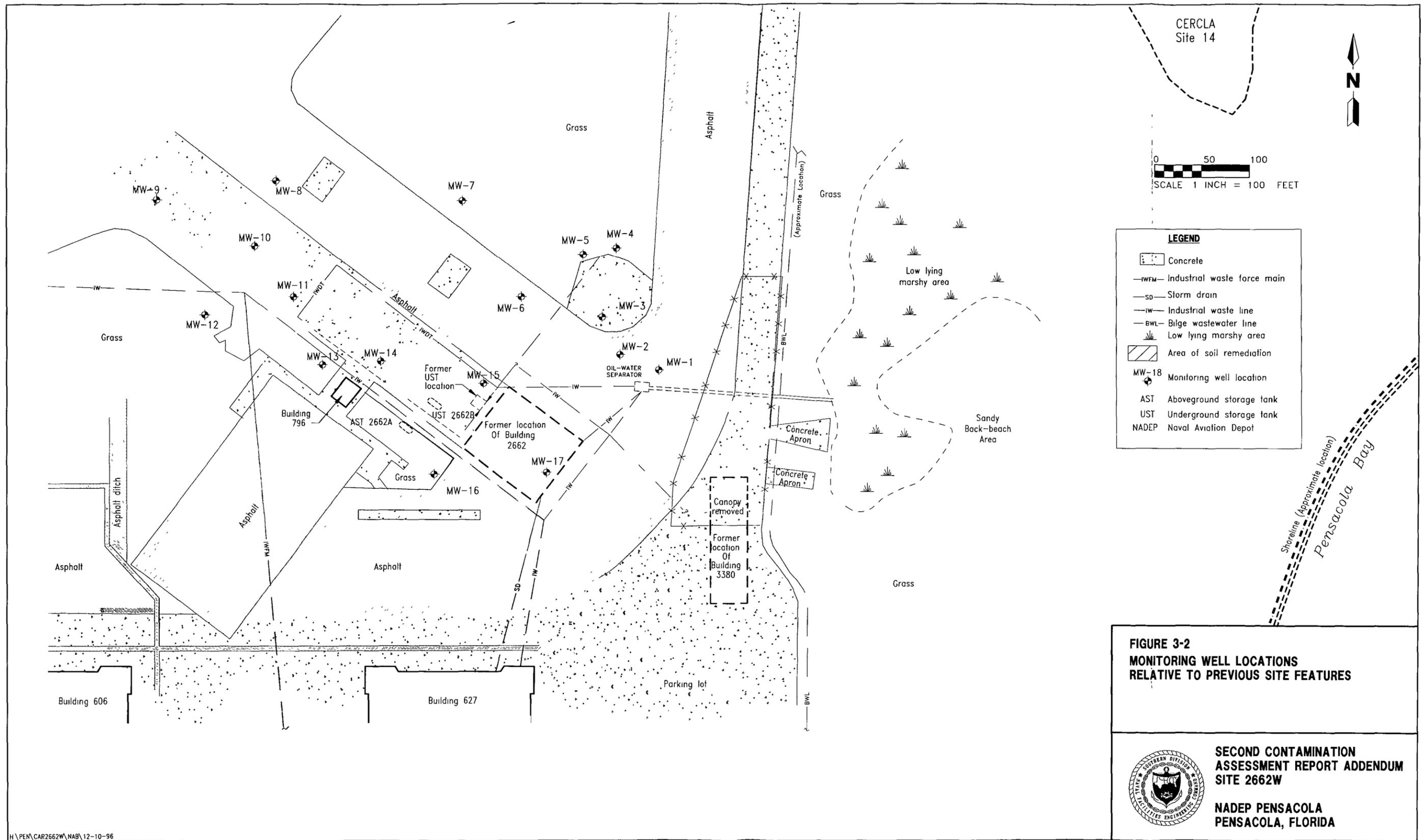


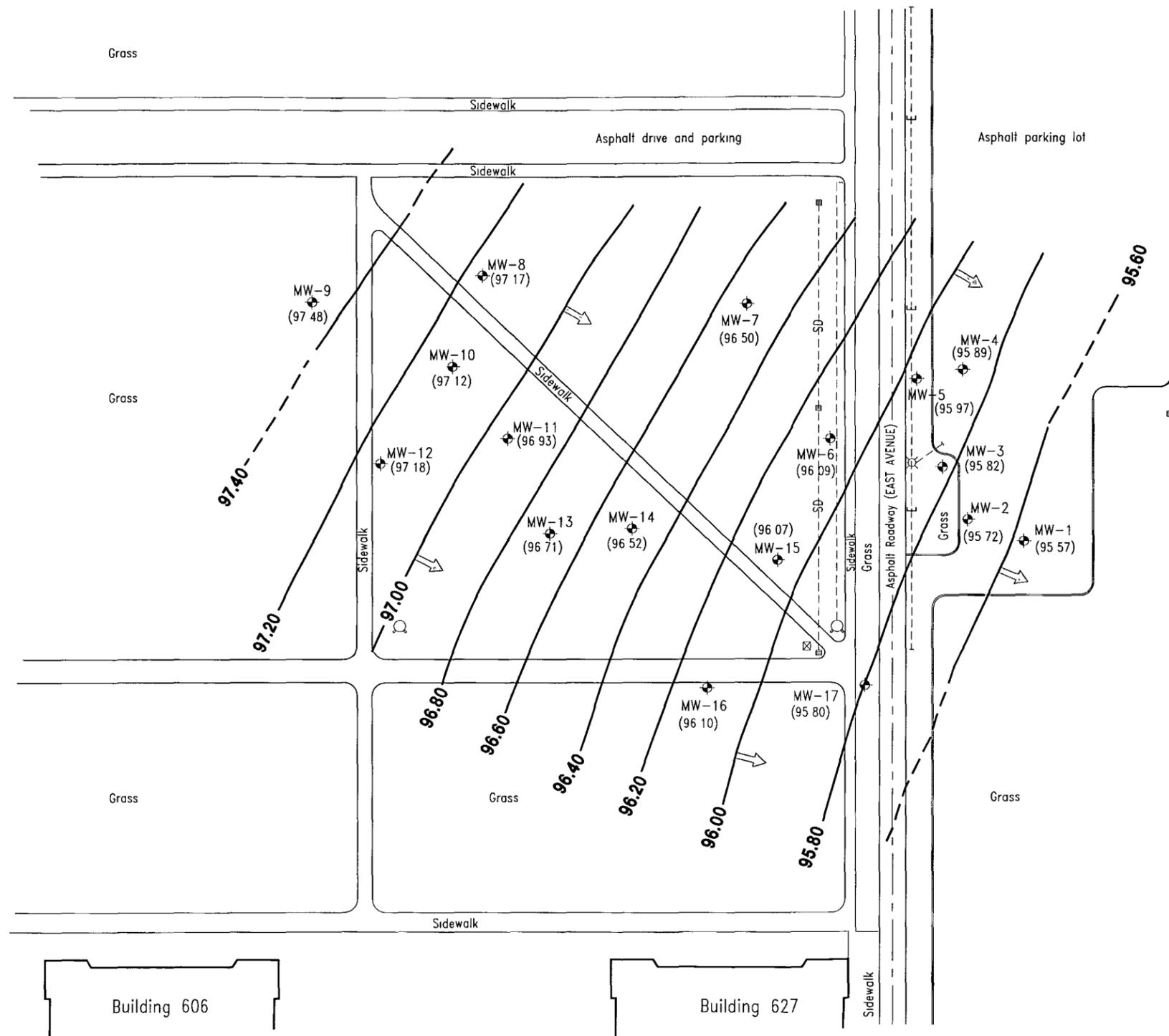
**FIGURE 3-1
MONITORING WELL LOCATION MAP**



**SECOND CONTAMINATION
ASSESSMENT REPORT ADDENDUM
SITE 2662W**

**NADEP PENSACOLA
PENSACOLA, FLORIDA**





LEGEND	
MW-18	Monitoring well location
(96 07)	Piezometric surface in feet
1	Elevations referenced to an arbitrary benchmark
—SD—	Storm drain
—E—	Electric line
—96 20—	Isopiestic line in feet
	Contour interval = 0.20 foot
←	Groundwater flow direction
▤	Catch basin
⊙	Fire hydrant
⊠	Transformer
NADEP	Naval Aviation Depot

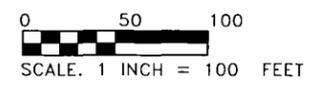
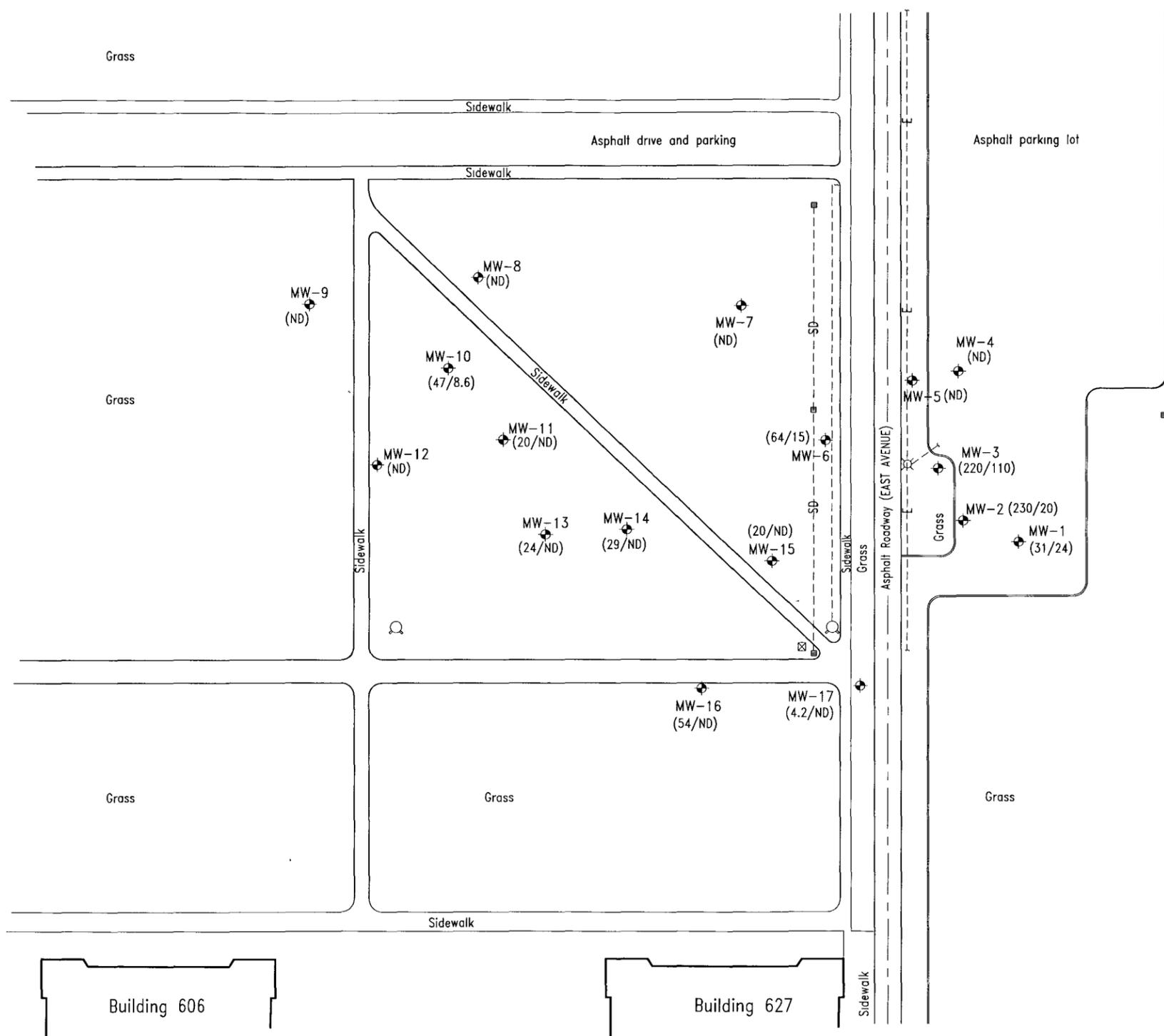


FIGURE 3-3
WATER TABLE CONTOUR MAP,
SEPTEMBER 26, 1996



SECOND CONTAMINATION
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LEGEND

- MW-18 Monitoring well location
- (230/20) Total lead / dissolved lead
- Concentrations in parts per billion (ppb)
- (ND) Not detected
- SD— Storm drain
- E— Electric line
- ☐ Catch basin
- ⊕ Fire hydrant
- ⊗ Transformer
- NADEP Naval Aviation Depot

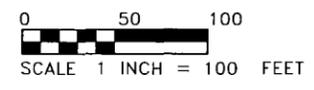


FIGURE 3-5
DISTRIBUTION OF LEAD CONCENTRATIONS
IN GROUNDWATER SAMPLES
SEPTEMBER 1996



SECOND CONTAMINATION
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