N60200.AR.001527
NAS CECIL FIELD, FL
5090.3a

CONFIRMATORY SAMPLING REPORT FOR BUILDING 72 TANK 72 BASE REALIGNMENT AND CLOSURE UNDERGROUND STORAGE TANK AND ABOVEGROUND STORAGE TANK GREY SITES REVISION 1 NAS CECIL FIELD FL

11/1/1998

HARDING LAWSON ASSOCIATES

CONFIRMATORY SAMPLING REPORT

BUILDING 72, TANK 72

BASE REALIGNMENT AND CLOSURE

UNDERGROUND STORAGE TANK AND ABOVEGROUND STORAGE TANK GREY SITES

NAVAL AIR STATION CECIL FIELD JACKSONVILLE, FLORIDA

Unit Identification Code: N60200

Contract No.: N62467-89-D-0317/090

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November 1998

Revision 1.0

CERTIFICATION OF TECHNICAL
DATA CONFORMITY (MAY 1987)

The Contractor, Harding Lawson Associates, hereby certifies that, to the best of its knowledge and belief, the technical data delivered herewith under Contract No. N62467-89-D-0317/090 are complete and accurate and comply with all requirements of this contract.

DATE: November 2, 1998

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(DFAR 252.227-7036)

TABLE OF CONTENTS

Confirmatory Sampling Report
Building 72, Tank 72
Naval Air Station Cecil Field
Jacksonville, Florida

Chapter	Title	Page No.
1.0	INTRODUCTION	1
2.0	FIELD INVESTIGATION	1
3.0	SCREENING AND ANALYTICAL RESULTS	1
4.0	CONCLUSIONS AND RECOMMENDATIONS	1

REFERENCES

APPENDICES

Appendix A: Monitoring Well Installation Detail
Appendix B: Groundwater Analytical Data

LIST OF FIGURES

Confirmatory Sampling Report
Building 72, Tank 72
Naval Air Station Cecil Field
Jacksonville, Florida

Figure	Title	Page No.
1	Tank 72, Crash Fire Station	2
2	Tank 72, Soil Boring Locations	3

LIST OF TABLES

Table	Title	Page No.
1	Soil Screening Results	4

GLOSSARY

ABB-ES	ABB Environmental Services, Inc.
AST	aboveground storage tank
HLA	Harding Lawson Associates

1.0 INTRODUCTION

Harding Lawson Associates (HLA), under contract to the Southern Division, Naval Facilities Engineering Command, has completed the confirmatory sampling for Tank 72 at Naval Air Station Cecil Field in Jacksonville, Florida. This report summarizes the related field operations, results, conclusions, and recommendations of the confirmatory sampling.

Tank 72 was an aboveground storage tank (AST) located adjacent to the northwest corner of Building 72, which is located on the flightline (Figure 1) (ABB Environmental Services, Inc. [ABB-ES], 1994). This building serves as the Crash Fire Station, which has the primary purpose of responding to accidents on the flightline. The AST was installed in 1953 and had a 500-gallon capacity. It was used to store fuel oil for on-site heating (ABB-ES, 1997). The removal date for this AST is unknown.

A Contamination Assessment Plan for the assessment of soil and groundwater at Tank 72 was prepared by HLA (then ABB-ES) in November 1996 (ABB-ES, 1996).

2.0 FIELD INVESTIGATION

The confirmatory sampling of the Tank 72 site was initiated in June 1997 and included the advancement of two soil borings to the water table and the installation and sampling of one monitoring well. Soil samples were collected at depth intervals of 1 foot below land surface and every 2 feet thereafter to the water table and screened for hydrocarbon vapors with an organic vapor analyzer. One monitoring well, CEF-72-1S, was installed at the former AST location to a depth of 15 feet. One groundwater sample was collected on June 17, 1998 and analyzed for the Kerosene Analytical Group parameters. A general site plan indicating the location of the soil borings and monitoring well is presented on Figure 2.

3.0 SCREENING AND ANALYTICAL RESULTS

Excessively contaminated soil was not detected in soil samples collected during the confirmatory sampling. The soil organic vapor analyzer data collected are summarized in Table 1 and presented on Figure 2. No contaminants were detected in the groundwater sample collected from monitoring well CEF-72-1S. The complete analytical data set is presented in Appendix B.

4.0 CONCLUSIONS AND RECOMMENDATIONS

Data obtained during the confirmatory sampling at the Tank 72 site did not indicate the presence of excessively contaminated soil.

No contaminants were detected in the groundwater sample collected from monitoring well CEF-72-1S.

It is recommended that no further action take place at the Tank 72 site.

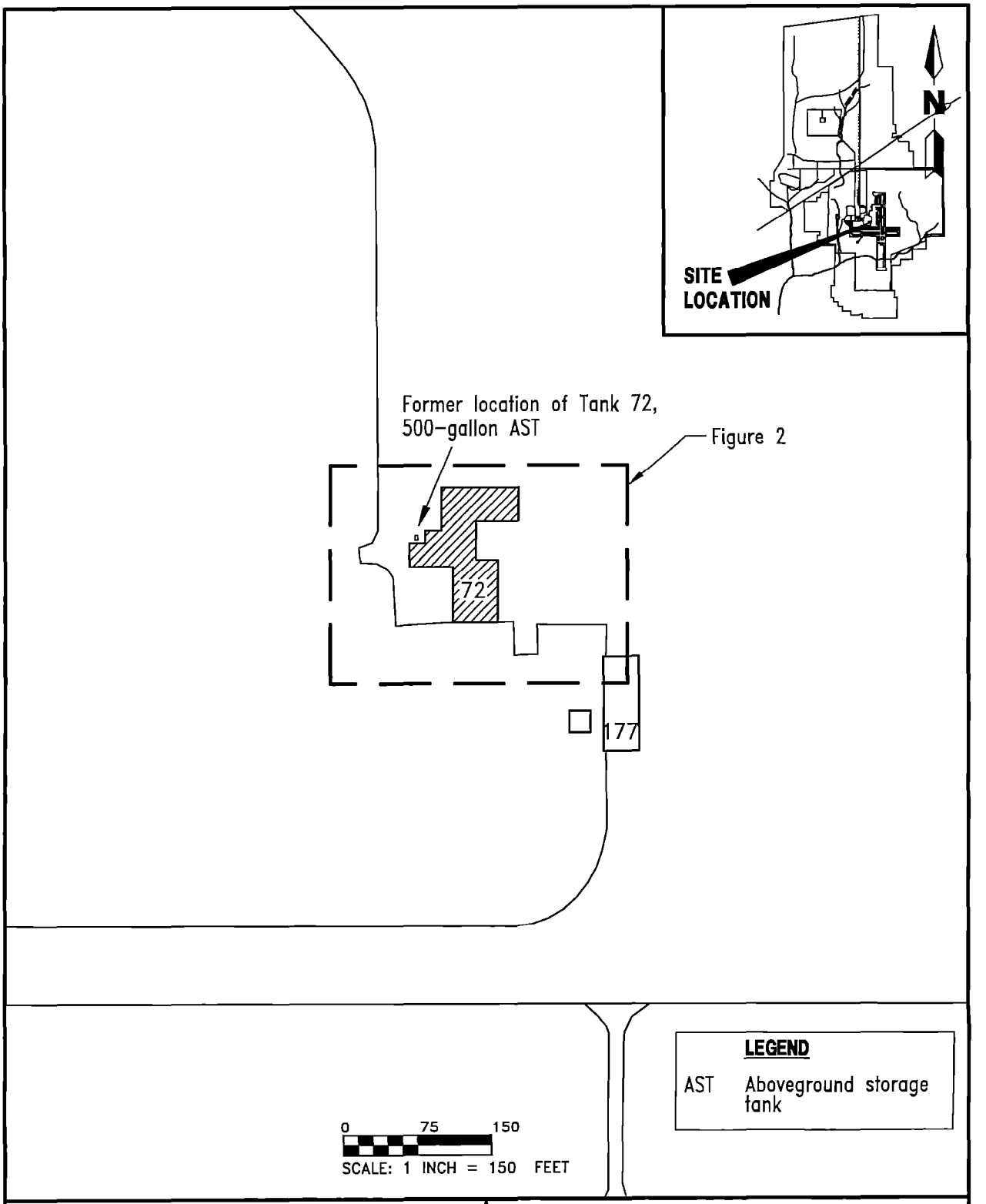

FIGURE 1
TANK 72
CRASH FIRE STATION

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CONFIRMATORY SAMPLING REPORT
BUILDING 72, TANK 72

NAVAL AIR STATION CECIL FIELD
JACKSONVILLE, FLORIDA

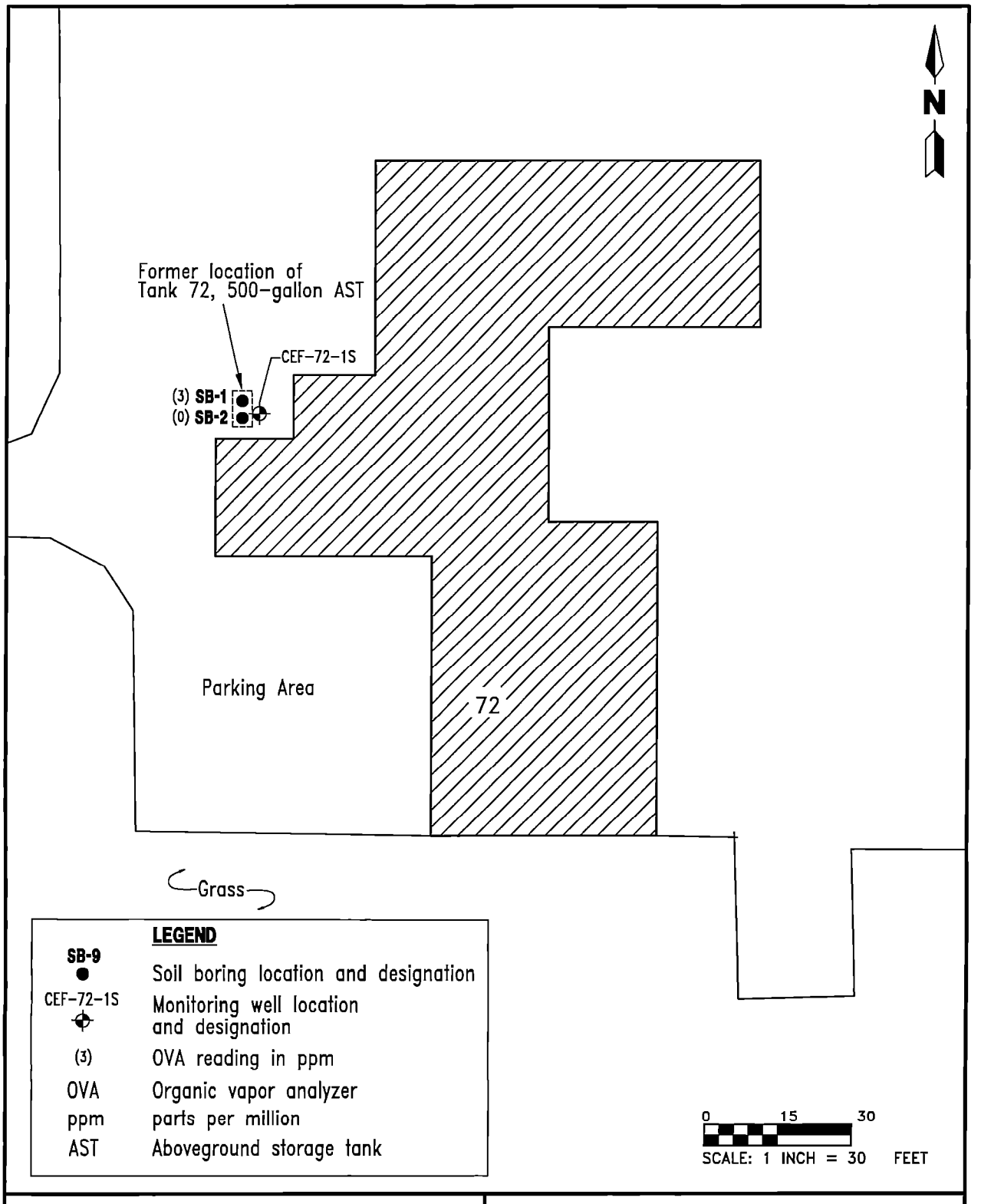

FIGURE 2
TANK 72
SOIL BORING LOCATIONS

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CONFIRMATORY SAMPLING REPORT
BUILDING 72, TANK 72

NAVAL AIR STATION CECIL FIELD
JACKSONVILLE, FLORIDA

Table 1
Soil Screening Results

Confirmatory Sampling Report
Building 72, Tank 72
Naval Air Station Cecil Field
Jacksonville, Florida

Location	OVA Concentration (ppm)			
	Depth (feet bls)	Unfiltered	Filtered	Actual
SB-1	1	0	–	0
	3	0	–	0
	5	3	–	3
	7	0	–	0
SB-2	1	0	–	0
	3	0	–	0
	4.5 (refusal)	0	–	0

Notes: All soil samples were collected on June 4, 1997.
Soil samples were filtered with carbon to determine the methane concentration.

OVA = organic vapor analyzer.
ppm = parts per million.
bls = below land surface.
– = filtered readings were not collected.
refusal = subsurface obstruction encountered.

REFERENCES

ABB-ES. 1994. *Base Realignment and Closure Environmental Baseline Survey Report, Naval Air Station Cecil Field, Jacksonville, Florida*. Prepared for Southern Division, Naval Facilities Engineering Command (SOUTHNAVFACENGCOM), North Charleston, South Carolina (November).

ABB Environmental Services, Inc. (ABB-ES). 1996. *Contamination Assessment Plan, Naval Air Station Cecil Field, Jacksonville, Florida*. Prepared for SOUTHNAVFACENGCOM, North Charleston, South Carolina (November).

ABB-ES. 1997. *Base Realignment and Closure Tank Management Plan, Naval Air Station Cecil Field, Jacksonville, Florida*. Prepared for SOUTHNAVFACENGCOM, North Charleston, South Carolina (January).

APPENDIX A

MONITORING WELL INSTALLATION DETAIL

TITLE: CAS Cecil Field, Bldg. 72, Site Assessment Report	LOG of WELL: CEF-72-1S	BORING NO. CEF-72-1S
CLIENT: SOUTHDIVNAVFACENGCOM		PROJECT NO: 02523.13
CONTRACTOR: Custom Drilling	DATE STARTED: 02-04-98	COMPLTD: 02-04-98
METHOD: HSA	CASE SIZE: 2in.	SCREEN INT.: 5-15 ft.	PROTECTION LEVEL: D
TOC ELEV.: N/A FT.	MONITOR INST.: FID	TOT DPTH: 15.5FT.	DPTH TO ∇ 9.21 FT.
LOGGED BY: J. Tarr	WELL DEVELOPMENT DATE: 02-24-98	SITE: Building 72

DEPTH FT.	LABORATORY SAMPLE ID.	SAMPLE	RECOVERY	HEADSPACE (ppm)	SOIL/ROCK DESCRIPTION AND COMMENTS	LITHOLOGIC SYMBOL	SOIL CLASS	BLOWS/6-IN	WELL DATA
							SM		
1									
2				0	SILTY SAND: gray, fine grain.			posthole	
3									
4				0	SILTY SAND: gray, fine grain.			posthole	
5									
6								*	
								**	
7									
8									
9									∇
10				0	SILTY SAND: brown, fine grain.				
11									
12									
13									
14									
					* no split spoon samples taken				
15					** OVA readings taken from posthole and auger cuttings				
16									

HARDING LAWSON ASSOCIATES

APPENDIX B

GROUNDWATER ANALYTICAL DATA

NAS CECIL FIELD -- UST GREY TANK 72
GROUNDWATER DATA -- REPORT REQ NO. 10060

Lab Sample Number:	A8F1801270			
Site	UST GREY			
Locator	CEF-72-1S			
Collect Date:	17-JUN-98			
	VALUE	QUAL	UNITS	DL
BETX AND DICHLOROBENZENES				
Benzene	1	U	ug/l	1
Ethylbenzene	1	U	ug/l	1
Toluene	1	U	ug/l	1
Xylenes (total)	1	U	ug/l	1
Chlorobenzene	1	U	ug/l	1
1,2-Dichlorobenzene	1	U	ug/l	1
1,3-Dichlorobenzene	1	U	ug/l	1
1,4-Dichlorobenzene	1	U	ug/l	1
PAHs				
Acenaphthene	1	U	ug/l	1
Acenaphthylene	1	U	ug/l	1
Anthracene	1	U	ug/l	1
Benzo (a) anthracene	.1	U	ug/l	.1
Benzo (b) fluoranthene	.1	U	ug/l	.1
Benzo (k) fluoranthene	.05	U	ug/l	.05
Benzo (a) pyrene	.1	U	ug/l	.1
Chrysene	.1	U	ug/l	.1
Dibenzo (a,h) anthracene	.1	U	ug/l	.1
Fluoranthene	.1	U	ug/l	.1
Fluorene	1	U	ug/l	1
Indeno (1,2,3-cd) pyrene	.1	U	ug/l	.1
Benzo (g,h,i) perylene	.1	U	ug/l	.1
Naphthalene	1	U	ug/l	1
Phenanthrene	1	U	ug/l	1
Pyrene	.1	U	ug/l	.1
1-Methylnaphthalene	1	U	ug/l	1
2-Methylnaphthalene	1	U	ug/l	1
FLA PRO				
TPH C8-C40	.5	U	mg/l	.5

U = NOT DETECTED J = ESTIMATED VALUE
UJ = REPORTED QUANTITATION LIMIT IS QUALIFIED AS ESTIMATED
R = RESULT IS REJECTED AND UNUSABLE