N60201.AR.000479
NS MAYPORT
5090.3a

ADDENDUM 5 TO CONTAMINATION ASSESSMENT REPORT FOR BUILDING 1490 SIMA SHOPS NS MAYPORT FL

10/1/1999

U S ARMY CORPS OF ENGINEERS

ADDENDUM 5
TO
CONTAMINATION ASSESSMENT REPORT

MAYPORT NAVAL STATION
BUILDING 1490 - SIMA SHOPS

JACKSONVILLE, FLORIDA

PREPARED FOR

UNITED STATES NAVY
SOUTHERN DIVISION
NAVAL FACILITIES ENGINEERING COMMAND
CHARLESTON, SOUTH CAROLINA

PREPARED BY

U.S. ARMY CORPS OF ENGINEERS
SAVANNAH DISTRICT
SAVANNAH, GEORGIA

OCROBER 1999

BACKGROUND

This addendum to the Contamination Assessment Report (CAR) for Building 1490 (SIMA Shops) at Mayport Naval Station, Mayport, Florida is a result of a request from the Florida Department of Environmental Protection (FDEP) to perform supplemental sampling and analysis of ground-water monitoring wells at the site. Although the results of the previous round of samples taken on March 27 1999 indicated that all parameters analyzed for in monitoring wells on site were below detection limits, the detection limits for seven EPA 8270 analytes and two EPA 8260 analytes were above maximum contaminant levels (MCLs) for those analytes (See CAR Addendum 4).

RESULTS OF SUPPLEMENTAL ASSESSMENT

At FDEP's request, site monitoring wells MAY-1490-2A, MAY-1490-6A and MAY-1490-7 were sampled on October 1 1999 for FL-PRO and EPA methods 8260B (+MTBE), 8310 and RCRA metals (6010 and 7470). A summary of the analytical results is contained in table 2 (attachment 3). Laboratory analytical data sheets are in attachment 4.

SUMMARY OF SUPPLEMENTAL ASSESSMENT

Due to detection limit deficiencies noted on previous sampling events, EPA method 8310 was substituted for method 8270. All detection limits for 8310 analytes were below the required levels with the exception of Dibenzo(a,h)anthracene and Indeno(1,2,3-cd)pyrene, which were only slightly above (0.31 and 0.44 ug/l respectivley) the required detection limit of 0.20 ug/l. The only method 8260B analyte with a detection limit above that required (0.02 ug/l), was 1,2 Dibromoethane (EDB) with a detection limit of 2.0 ug/l.

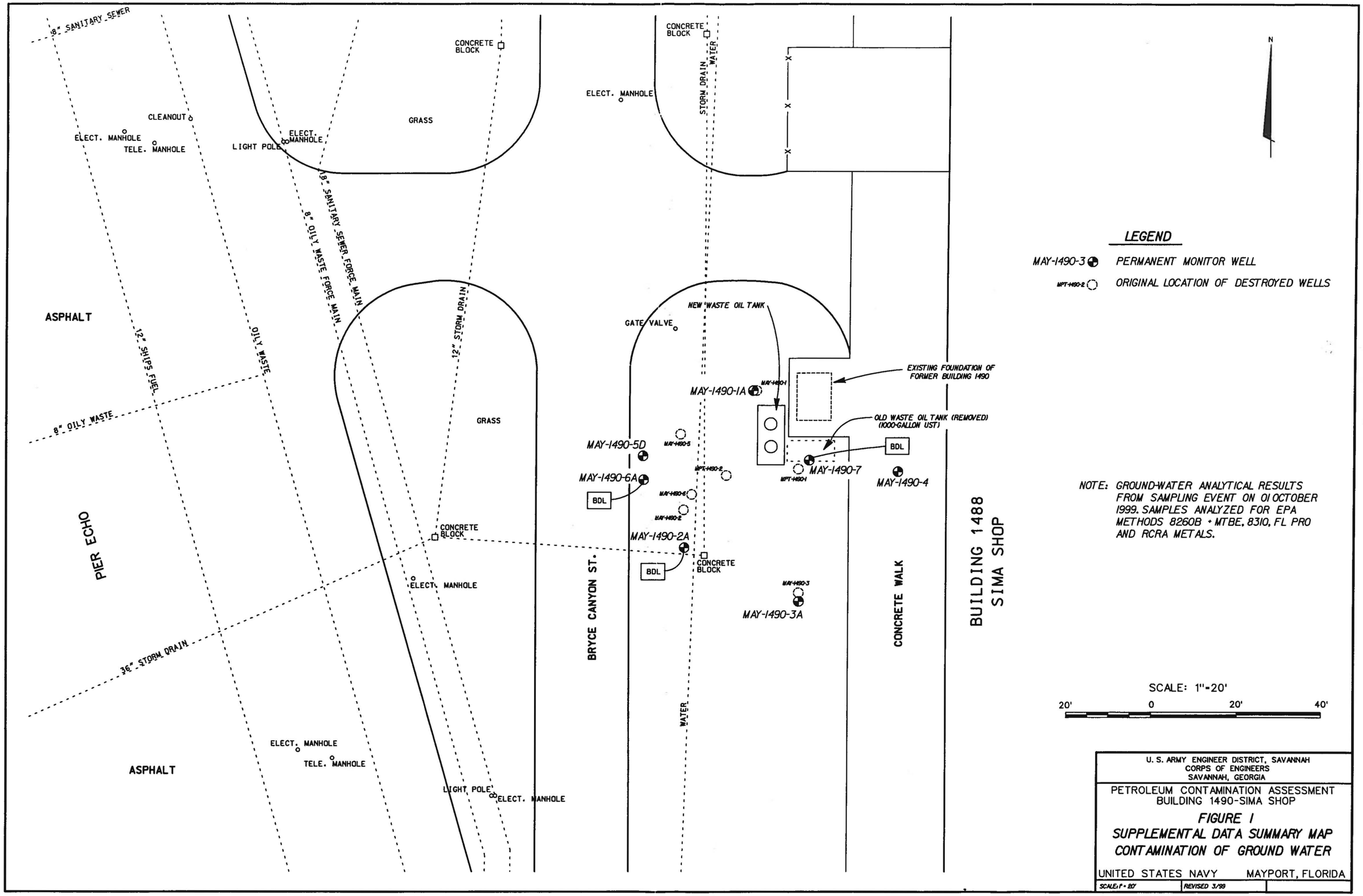
Since these latest analytical results of ground-water samples from the site indicate that little if any ground-water contamination exists at the site, it is recommended that a No Further Action Proposal (NFAP) be made for the site.

LIST OF ATTACHMENTS

- ATTACHMENT 1 - FIGURE 1 - DATA SUMMARY MAP
- ATTACHMENT 2 – TABLE 1 – MONITORING WELL DATA
- ATTACHMENT 3 – TABLE 2 – SUMMARY OF GROUND-WATER ANALYTICAL RESULTS
- ATTACHMENT 4 – LABORATORY ANALYTICAL RESULTS

ATTACHMENT 1

FIGURE 1 - DATA SUMMARY MAP


8" SANITARY SEWER
CONCRETE BLOCK
GRASS
CLEANOUT
ELECT. MANHOLE
TELE. MANHOLE
LIGHT POLE
ELECT. MANHOLE
18" SANITARY SEWER FORCE MAIN
8" OILY WASTE FORCE MAIN
12" STORM DRAIN
ASPHALT
12" SHIPS FUEL
OILY WASTE
8" OILY WASTE
GRASS
PIER ECHO
CONCRETE BLOCK
ELECT. MANHOLE
36" STORM DRAIN
ELECT. MANHOLE
TELE. MANHOLE
ASPHALT
LIGHT POLE
ELECT. MANHOLE
BRYCE CANYON ST.
CONCRETE BLOCK
ELECT. MANHOLE
STORM DRAIN
WATER
NEW WASTE OIL TANK
GATE VALVE
MAY-1490-1A
MAY-1490-1
EXISTING FOUNDATION OF FORMER BUILDING 1490
OLD WASTE OIL TANK (REMOVED) (1000-GALLON UST)
MAY-1490-5D
MAY-1490-5
MAY-1490-6A
BDL
MAY-1490-6
MPT-1490-2
MAY-1490-2
MAY-1490-2A
BDL
CONCRETE BLOCK
WATER
MAY-1490-3
MAY-1490-3A
BDL
MAY-1490-7
MPT-1490-1
MAY-1490-4
CONCRETE WALK
BUILDING 1488
SIMA SHOP
N
LEGEND
MAY-1490-3 PERMANENT MONITOR WELL
MPT-1490-2 ORIGINAL LOCATION OF DESTROYED WELLS
NOTE: GROUND-WATER ANALYTICAL RESULTS FROM SAMPLING EVENT ON 01 OCTOBER 1999. SAMPLES ANALYZED FOR EPA METHODS 8260B + MTBE, 8310, FL PRO AND RCRA METALS.
SCALE: 1"=20'
20' 0 20' 40'
U. S. ARMY ENGINEER DISTRICT, SAVANNAH
CORPS OF ENGINEERS
SAVANNAH, GEORGIA
PETROLEUM CONTAMINATION ASSESSMENT
BUILDING 1490-SIMA SHOP
FIGURE 1
SUPPLEMENTAL DATA SUMMARY MAP
CONTAMINATION OF GROUND WATER
UNITED STATES NAVY MAYPORT, FLORIDA
SCALE: 1" = 20'
REVISED 3/99
D:\MAY1490\SUM999.DGN

ATTACHMENT 2

TABLE 1 – MONITORING WELL DATA

TABLE 1

MONITORING WELL DATA

BUILDING 1490
MAYPORT NAVAL STATION
MAYPORT, FLORIDA

01 October 1999

Well No.	Total Depth of Well BLS (ft.)	Top of Casing to Ground Surface (ft.)	Surveyed Top of Casing Elevation (msl)	Screened Interval BLS (ft.)	Depth to Water from Top of Casing (ft.)	Elevation of Water Table (msl)
MAY-1490-1A	12.62	Flush	8.05	2.0 – 11.5	NR	--
MAY-1490-2A	12.10	"	6.96	1.8 – 11.3	2.04	4.92
MAY-1490-3A	12.31	"	7.49	1.8 – 11.3	NR	--
MAY-1490-4	12.82	"	8.93	3.4 – 12.4	NR	--
MAY-1490-5D	22.55	"	7.14	17.2 – 21.7	NR	--
MAY-1490-6A	12.44	"	7.12	1.9 – 11.4	2.05	5.07
MAY-1490-7	12.50	"	8.81	2.0 – 11.5	3.74	5.07

Notes:
- BLS = Below Land Suurface
- flush = Level with ground surface
- NR= Not recorded

ATTACHMENT 3

TABLE 2 – SUMMARY OF GROUND-WATER ANALYTICAL RESULTS

TABLE 2

SUMMARY OF GROUND-WATER ANALYTICAL RESULTS

BUILDING 1490 - SIMA SHOPS
MAYPORT NAVAL STATION
MAYPORT FLORIDA

01 OCTOBER 1999

PARAMETER	MONITOR WELL NUMBER MAY 1490-2A 9-99	MAY 1490-6A 9-99	MAY 1490-6A 9-99 DUPLICATE	MAY 1490-7 9-99	RINSATE BLANK	TRIP BLANK	MCL OR TARGET CLEANUP LEVEL
FLORIDA PRO (3510C) ug/L							
PETROLEUM RESIDUAL ORGANICS (TRPH)	<204	<208	<206	<208**	<204	NA	5 mg/L
EXTRACTABLE ORGANICS (8310) ug/L							
ACENAPHTHENE	<1.02	<1.03	<1.04	<1.01	<1.03	NA	20 ug/L
ACENAPHTHYLENE	<2.04	<2.06	<2.08	<2.02	<2.06	NA	210 ug/L
ANTHRACENE	<0.67	<0.68	<0.69	<0.67	<0.68	NA	2100 ug/L
BENZO(A)ANTHRACENE	<0.13	<0.13	<0.14	<0.13	<0.13	NA	0.2 ug/L
BENZO(A)PYRENE	<0.10	<0.10	<0.10	<0.10	<0.10	NA	0.2 ug/L
BENZO(B)FLUORANTHENE	<0.18	<0.19	<0.19	<0.19	<0.19	NA	0.2 ug/L
BENZO(G,H,I)PERYLENE	<0.78	<0.78	<0.79	<0.77	<0.78	NA	210 ug/L
BENZO(K)FLUORANTHENE	<0.17	<0.18	<0.18	<0.17	<0.18	NA	0.5 ug/L
CHRYSENE	<0.15	<0.15	<0.16	<0.15	<0.15	NA	5 ug/L
DIBENZO(A,H)ANTHRACENE	<0.31	<0.31	<0.31	<0.30	<0.31	NA	0.2 ug/l
FLUORANTHENE	<0.21	<0.22	<0.22	<0.21	<0.21	NA	280 ug/L
FLUORENE	<0.21	<0.22	<0.22	<0.21	<0.21	NA	280 ug/L
INDENO(1,2,3-CD)PYRENE	<0.44	<0.44	<0.45	<0.43	<0.44	NA	0.2 ug/L
1-METHYLNAPHTHALENE	<2.04	<2.06	<2.08	<2.02	<2.04	NA	
2-METHYLNAPHTHALENE	<2.04	<2.06	<2.08	<2.02	<2.04	NA	
NAPHTHALENE	<1.02	<1.03	<1.04	<1.01	<1.00	NA	20 ug/L
PHENANTHRENE	<0.65	<0.66	<0.67	<0.65	<0.66	NA	210 ug/L
PYRENE	<0.28	<0.28	<0.28	<0.28	<0.28	NA	210 ug/L
VOLATILE ORGANIC COMPOUNDS (8260B) ug/L							
ACETONE	<10	<10	<10	<10	<10	<10	
ACROLEIN	<10	<10	<10	<10	<10	<10	
ACRYLONITRILE	<10	<10	<10	<10	<10	<10	
BENZENE	<1	<1	<1	<1	<1	<1	1 ug/L
BROMOBENZENE	<2	<2	<2	<2	<2	<2	
BROMOCHLOROMETHANE	<2	<2	<2	<2	<2	<2	
BROMOFORM	<2	<2	<2	<2	<2	<2	
BROMOMETHANE	<2	<2	<2	<2	<2	<2	

TABLE 2

SUMMARY OF GROUND-WATER ANALYTICAL RESULTS

BUILDING 1490 - SIMA SHOPS
MAYPORT NAVAL STATION
MAYPORT FLORIDA

01 OCTOBER 1999

MONITOR WELL NUMBER

PARAMETER	MAY 1490-2A 9-99	MAY 1490-6A 9-99	MAY 1490-6A 9-99 DUPLICATE	MAY 1490-7 9-99	RINSATE BLANK	TRIP BLANK	MCL OR TARGET CLEANUP LEVEL
2-BUTANONE (MEK)	<10	<10	<10	<10	<10	<10	
N-BUTYLBENZENE	<2	<2	<2	<2	<2	<2	
SEC-BUTYLBENZENE	<2	<2	<2	<2	<2	<2	
T-BUTYLBENZENE	<2	<2	<2	<2	<2	<2	
CARBON DISULFIDE	<2	<2	<2	<2	<2	<2	
CARBON TETRACHLORIDE	<2	<2	<2	<2	<2	<2	
CHLOROBENZENE	<2	<2	<2	<2	<2	<2	
CHLOROETHANE	<2	<2	<2	<2	<2	<2	
2-CHLOROETHYLVINYL ETHER	<5	<5	<5	<5	<5	<5	
CHLOROFORM	<2	<2	<2	<2	<2	<2	
CHLOROMETHANE	<2	<2	<2	<2	<2	<2	
2-CHLOROTOLUENE	<2	<2	<2	<2	<2	<2	
4-CHLOROTOLUENE	<2	<2	<2	<2	<2	<2	
1,2-DIBROMO-3-CHLOROPROPANE	<10	<10	<10	<10	<10	<10	
DIBROMOCHLOROMETHANE	<2	<2	<2	<2	<2	<2	
1,2-DIBROMOETHANE	<2	<2	<2	<2	<2	<2	0.02 ug/L
DIBROMOMETHANE	<2	<2	<2	<2	<2	<2	
1,4-DICHLORO-2-BUTENE	<2	<2	<2	<2	<2	<2	
1,2-DICHLOROBENZENE	<2	<2	<2	<2	<2	<2	
1,3-DICHLOROBENZENE	<2	<2	<2	<2	<2	<2	
1,4-DICHLOROBENZENE	<2	<2	<2	<2	<2	<2	
DICHLORODIFLUOROMETHANE	<2	<2	<2	<2	<2	<2	
1,1-DICHLOROETHANE	<2	<2	<2	<2	<2	<2	
1,2-DICHLOROETHANE	<2	<2	<2	<2	<2	<2	3 ug/L
1,1-DICHLOROETHENE	<2	<2	<2	<2	<2	<2	
CIS 1,2-DICHLOROETHENE	<2	<2	<2	<2	<2	<2	
TRANS-1,2-DICHLOROETHENE	<2	<2	<2	<2	<2	<2	
1,2-DICHLOROPROPANE	<2	<2	<2	<2	<2	<2	
1,3-DICHLOROPROPANE	<2	<2	<2	<2	<2	<2	
2,2-DICHLOROPROPANE	<2	<2	<2	<2	<2	<2	
1,1-DICHLOROPROPENE	<2	<2	<2	<2	<2	<2	

TABLE 2

SUMMARY OF GROUND-WATER ANALYTICAL RESULTS

BUILDING 1490 - SIMA SHOPS
MAYPORT NAVAL STATION
MAYPORT FLORIDA

01 OCTOBER 1999

MONITOR WELL NUMBER

PARAMETER	MAY 1490-2A 9-99	MAY 1490-6A 9-99	MAY 1490-6A 9-99 DUPLICATE	MAY 1490-7 9-99	RINSATE BLANK	TRIP & BLANK	MCL OR TARGET CLEANUP LEVEL
CIS-1,3-DICHLOROPROPENE	<2	<2	<2	<2	<2	<2	
TRANS-1,3-DICHLOROPROPENE	<2	<2	<2	<2	<2	<2	
EHTYLBENZENE	<2	<2	<2	<2	<2	<2	30 ug/L
HEXACHLOROBUTADIENE	<2	<2	<2	<2	<2	<2	
2-HEXANONE	<10	<10	<10	<10	<10	<10	
IODOMETHANE	<2	<2	<2	<2	<2	<2	
ISOPROPYLBENZENE	<2	<2	<2	<2	<2	<2	
4-ISOPROPYLTOLUENE	<2	<2	<2	<2	<2	<2	
MEHTYL METHACRYLATE	<5	<5	<5	<5	<5	<5	
4-METHAL-2-PENTANONE	<10	<10	<10	<10	<10	<10	
METHYLENE CHLORIDE	<5	<5	<5	<5	<5	<5	
NAPHTHALENE	<2	<2	<2	<2	<2	<2	20 ug/L
N-PROPYLBENZENE	<2	<2	<2	<2	<2	<2	
STYRENE	<2	<2	<2	<2	<2	<2	
1,1,1,2-TETRACHLOROETHANE	<2	<2	<2	<2	<2	<2	
1,1,2,2-TETRACHLOROETHANE	<2	<2	<2	<2	<2	<2	
TETRACHLOROETHENE (PCE)	<2	<2	<2	<2	<2	<2	
TOLUENE	<2	<2	<2	<2	<2	<2	40 ug/L
1,2,3-TRICHLOROBENZENE	<2	<2	<2	<2	<2	<2	
1,2,4-TRICHLOROBENZENE	<2	<2	<2	<2	<2	<2	
1,1,1-TRICHLOROETHANE	<2	<2	<2	<2	<2	<2	
1,1,2-TRICHLOROETHANE	<2	<2	<2	<2	<2	<2	
TRICHLOROETHENE (TCE)	<2	<2	<2	<2	<2	<2	
1,2,3-TRICHLOROPROPANE	<2	<2	<2	<2	<2	<2	
1,2,4-TRIMETHYLBENZENE	<2	<2	<2	<2	<2	<2	
1,3,5-TRIMETHYLBENZENE	<2	<2	<2	<2	<2	<2	
VINYL ACETATE	<10	<10	<10	<10	<10	<10	
VINYL CHLORIDE	<2	<2	<2	<2	<2	<2	1 ug/L
XYLENES (TOTAL)	<2	<2	<2	<2	<2	<2	20 ug/L
BROMODICHLOROMETHANE	<2	<2	<2	<2	<2	<2	
TRICHLOROFLUOROMETHANE	<2	<2	<2	<2	<2	<2	

TABLE 2

SUMMARY OF GROUND-WATER ANALYTICAL RESULTS

BUILDING 1490 - SIMA SHOPS
MAYPORT NAVAL STATION
MAYPORT FLORIDA

01 OCTOBER 1999

PARAMETER	MONITOR WELL NUMBER						
	MAY 1490-2A 9-99	MAY 1490-6A 9-99	MAY 1490-6A 9-99 DUPLICATE	MAY 1490-7 9-99	RINSATE BLANK	TRIP BLANK	MCL OR TARGET CLEANUP LEVEL
METHYL TERT-BUTYL ETHER (MTBE)	<10	<10	<10	<10	<10	<10	35 ug/L
METALS, mg/L							
ARSENIC, TOTAL (6010B)	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	NA	50 ug/L
BARIUM, TOTAL (6010B)	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	NA	2000 ug/L
CADMIIUM, TOTAL (6010B)	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	NA	5 ug/L
CHROMIUM, TOTAL (6010B)	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	NA	100 ug/L
LEAD, TOTAL (6010B)	<0.0030	<0.0030	<0.0030	<0.0030	<0.0030	NA	15 ug/L
MERCURY, TOTAL (7470)	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	NA	2 ug/L
SELENIUM, TOTAL (6010B)	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	NA	50 ug/L
SILVER, TOTAL (6010B)	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	NA	100 ug/L

Notes: - NA = Not Analyzed

ATTACHMENT 4

LABORATORY ANALYTICAL RESULTS

SPECIALIZED ASSAYS, INC.
2960 Foster Creighton Dr.
P.O. Box 40566
Nashville, TN 37204-0566
Phone 1-615-726-0177

ANALYTICAL REPORT

USACE-SAVANNAH DISTRICT 8995
MARK HARVISON
100 WEST OGLETHORPE AVE
SAVANNAH, GA 31402

Lab Number: 99-A151620
Sample ID: MAY-1490-2A-9-99
Sample Type: Ground water
Site ID:

Date Collected: 10/ 1/99
Time Collected: 16:33
Date Received: 10/ 2/99
Time Received: 9:00

Project: DO #210
Project Name: SITE 1490 MAYPORT
Sampler: JUDSON SMITH

Analyte	Result	Units	Report Limit	Room Limit	Dil Factor	Date	Time	Analyst	Method	Batch
ORGANIC PARAMETERS										
TRPH	ND	ug/l	204.	100.	1	10/ 8/99	1:59	J.Saiyasak	FPRD	7521
Naphthalene	ND	ug/l	1.02	1.00	1	10/ 8/99	8:45	Noorbakhsh	8310	7721
Acenapthene	ND	ug/l	1.02	1.00	1	10/ 8/99	8:45	Noorbakhsh	8310	7721
Anthracene	ND	ug/l	0.67	0.66	1	10/ 8/99	8:45	Noorbakhsh	8310	7721
Fluoranthene	ND	ug/l	0.21	0.21	1	10/ 8/99	8:45	Noorbakhsh	8310	7721
Fluorene	ND	ug/l	0.21	0.21	1	10/ 8/99	8:45	Noorbakhsh	8310	7721
Pyrene	ND	ug/l	0.28	0.27	1	10/ 8/99	8:45	Noorbakhsh	8310	7721
Benzo(a)anthracene	ND	ug/l	0.13	0.13	1	10/ 8/99	8:45	Noorbakhsh	8310	7721
Benzo(a)pyrene	ND	ug/l	0.10	0.10	1	10/ 8/99	8:45	Noorbakhsh	8310	7721
Benzo(b)fluoranthene	ND	ug/l	0.18	0.13	1	10/ 8/99	8:45	Noorbakhsh	8310	7721
Benzo(k)fluoranthene	ND	ug/l	0.17	0.17	1	10/ 8/99	8:45	Noorbakhsh	8310	7721
Chrysene	ND	ug/l	0.15	0.15	1	10/ 8/99	8:45	Noorbakhsh	8310	7721
Dibenzo(a,h)anthracene	ND	ug/l	0.31	0.30	1	10/ 8/99	8:45	Noorbakhsh	8310	7721
Indeno(1,2,3-cd)pyrene	ND	ug/l	0.44	0.43	1	10/ 8/99	8:45	Noorbakhsh	8310	7721
Acenaphthylene	ND	ug/l	2.04	2.00	1	10/ 8/99	8:45	Noorbakhsh	8310	7721
Benzo(g,h,i)perylene	ND	ug/l	0.78	0.76	1	10/ 8/99	8:45	Noorbakhsh	8310	7721
Phenanthrene	ND	ug/l	0.65	0.64	1	10/ 8/99	8:45	Noorbakhsh	8310	7721
1-Methylnapthalene	ND	ug/l	2.04	2.00	1	10/ 8/99	8:45	Noorbakhsh	8310	7721
2-Methylnapthalene	ND	ug/l	2.04	2.00	1	10/ 8/99	8:45	Noorbakhsh	8310	7721
VOLATILE ORGANICS										
Acetone	ND	ug/l	10	10	1	10/ 7/99	10:09	J Hollinan	8260B	4699
Acrolein	ND	ug/l	10	10	1	10/ 7/99	10:09	J Hollinan	8260B	4699
Acrylonitrile	ND	ug/l	10	10	1	10/ 7/99	10:09	J Hollinan	8260B	4699
Benzene	ND	ug/l	1	1	1	10/ 7/99	10:09	J Hollinan	8260B	4699
Bromobenzene	ND	ug/l	2	2	1	10/ 7/99	10:09	J Hollinan	8260B	4699
Bromochloromethane	ND	ug/l	2	2	1	10/ 7/99	10:09	J Hollinan	8260B	4699
Bromoform	ND	ug/l	2	2	1	10/ 7/99	10:09	J Hollinan	8260B	4699
Bromomethane	ND	ug/l	2	2	1	10/ 7/99	10:09	J Hollinan	8260B	4699
2-Butanone	ND	ug/l	10	10	1	10/ 7/99	10:09	J Hollinan	8260B	4699
n-Butylbenzene	ND	ug/l	2	2	1	10/ 7/99	10:09	J Hollinan	8260B	4699
sec-Butylbenzene	ND	ug/l	2	2	1	10/ 7/99	10:09	J Hollinan	8260B	4699
t-Butylbenzene	ND	ug/l	2	2	1	10/ 7/99	10:09	J Hollinan	8260B	4699
Carbon disulfide	ND	ug/l	2	2	1	10/ 7/99	10:09	J Hollinan	8260B	4699
Carbon tetrachloride	ND	ug/l	2	2	1	10/ 7/99	10:09	J Hollinan	8260B	4699
Chlorobenzene	ND	ug/l	2	2	1	10/ 7/99	10:09	J Hollinan	8260B	4699
Chloroethane	ND	ug/l	2	2	1	10/ 7/99	10:09	J Hollinan	8260B	4699

COPY 3

SPECIALIZED ASSAYS, INC.
2960 Foster Creighton Dr.
P.O. Box 40566
Nashville, TN 37204-0566
Phone 1-615-726-0177

ANALYTICAL REPORT

Laboratory Number: 99-A151620
Sample ID: MAY-1490-2A-9-99

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Date	Time	Analyst	Method	Batch
2-Chloroethylvinylether	ND	ug/l	5	2	1	10/ 7/99	10:09	J Hollinan	8260B	4699
Chloroform	ND	ug/l	2	2	1	10/ 7/99	10:09	J Hollinan	8260B	4699
Chloromethane	ND	ug/l	2	2	1	10/ 7/99	10:09	J Hollinan	8260B	4699
2-Chlorotoluene	ND	ug/l	2	2	1	10/ 7/99	10:09	J Hollinan	8260B	4699
4-Chlorotoluene	ND	ug/l	2	2	1	10/ 7/99	10:09	J Hollinan	8260B	4699
1,2-Dibromo-3-chloropropane	ND	ug/l	10	10	1	10/ 7/99	10:09	J Hollinan	8260B	4699
Dibromochloromethane	ND	ug/l	2	2	1	10/ 7/99	10:09	J Hollinan	8260B	4699
1,2-Dibromoethane	ND	ug/l	2	2	1	10/ 7/99	10:09	J Hollinan	8260B	4699
Dibromomethane	ND	ug/l	2	2	1	10/ 7/99	10:09	J Hollinan	8260B	4699
1,4-Dichloro-2-butene	ND	ug/l	2	2	1	10/ 7/99	10:09	J Hollinan	8260B	4699
1,2-Dichlorobenzene	ND	ug/l	2	2	1	10/ 7/99	10:09	J Hollinan	8260B	4699
1,3-Dichlorobenzene	ND	ug/l	2	2	1	10/ 7/99	10:09	J Hollinan	8260B	4699
1,4-Dichlorobenzene	ND	ug/l	2	2	1	10/ 7/99	10:09	J Hollinan	8260B	4699
Dichlorodifluoromethane	ND	ug/l	2	2	1	10/ 7/99	10:09	J Hollinan	8260B	4699
1,1-Dichloroethane	ND	ug/l	2	2	1	10/ 7/99	10:09	J Hollinan	8260B	4699
1,2-Dichloroethane	ND	ug/l	2	2	1	10/ 7/99	10:09	J Hollinan	8260B	4699
1,1-Dichloroethene	ND	ug/l	2	2	1	10/ 7/99	10:09	J Hollinan	8260B	4699
cis-1,2-Dichloroethene	ND	ug/l	2	2	1	10/ 7/99	10:09	J Hollinan	8260B	4699
trans-1,2-Dichloroethene	ND	ug/l	2	2	1	10/ 7/99	10:09	J Hollinan	8260B	4699
1,2-Dichloropropane	ND	ug/l	2	2	1	10/ 7/99	10:09	J Hollinan	8260B	4699
1,3-Dichloropropane	ND	ug/l	2	2	1	10/ 7/99	10:09	J Hollinan	8260B	4699
2,2-Dichloropropane	ND	ug/l	2	2	1	10/ 7/99	10:09	J Hollinan	8260B	4699
1,1-Dichloropropene	ND	ug/l	2	2	1	10/ 7/99	10:09	J Hollinan	8260B	4699
cis-1,3-Dichloropropene	ND	ug/l	2	2	1	10/ 7/99	10:09	J Hollinan	8260B	4699
trans-1,3-Dichloropropene	ND	ug/l	2	2	1	10/ 7/99	10:09	J Hollinan	8260B	4699
Ethylbenzene	ND	ug/l	2	2	1	10/ 7/99	10:09	J Hollinan	8260B	4699
Hexachlorobutadiene	ND	ug/l	2	2	1	10/ 7/99	10:09	J Hollinan	8260B	4699
2-Hexanone	ND	ug/l	10	10	1	10/ 7/99	10:09	J Hollinan	8260B	4699
Iodomethane	ND	ug/l	2	2	1	10/ 7/99	10:09	J Hollinan	8260B	4699
Isopropylbenzene	ND	ug/l	2	2	1	10/ 7/99	10:09	J Hollinan	8260B	4699
4-Isopropyltoluene	ND	ug/l	2	2	1	10/ 7/99	10:09	J Hollinan	8260B	4699
Methyl methacrylate	ND	ug/l	5	5	1	10/ 7/99	10:09	S. Waai	8260B	8867
4-Methyl-2-pentanone	ND	ug/l	10	10	1	10/ 7/99	10:09	J Hollinan	8260B	4699
Methylene chloride	ND	ug/l	5	5	1	10/ 7/99	10:09	J Hollinan	8260B	4699
Naphthalene	ND	ug/l	2	2	1	10/ 7/99	10:09	J Hollinan	8260B	4699
n-Propylbenzene	ND	ug/l	2	2	1	10/ 7/99	10:09	J Hollinan	8260B	4699
Styrene	ND	ug/l	2	2	1	10/ 7/99	10:09	J Hollinan	8260B	4699
1,1,1,2-Tetrachloroethane	ND	ug/l	2	2	1	10/ 7/99	10:09	J Hollinan	8260B	4699
1,1,2,2-Tetrachloroethane	ND	ug/l	2	2	1	10/ 7/99	10:09	J Hollinan	8260B	4699
Tetrachloroethene	ND	ug/l	2	2	1	10/ 7/99	10:09	J Hollinan	8260B	4699
Toluene	ND	ug/l	2	2	1	10/ 7/99	10:09	J Hollinan	8260B	4699
1,2,3-Trichlorobenzene	ND	ug/l	2	2	1	10/ 7/99	10:09	J Hollinan	8260B	4699
1,2,4-Trichlorobenzene	ND	ug/l	2	2	1	10/ 7/99	10:09	J Hollinan	8260B	4699
1,1,1-Trichloroethane	ND	ug/l	2	2	1	10/ 7/99	10:09	J Hollinan	8260B	4699
1,1,2-Trichloroethane	ND	ug/l	2	2	1	10/ 7/99	10:09	J Hollinan	8260B	4699
Trichloroethene	ND	ug/l	2	2	1	10/ 7/99	10:09	J Hollinan	8260B	4699

SPECIALIZED ASSAYS, INC.
2960 Foster Creighton Dr.
P.O. Box 40566
Nashville, TN 37204-0566
Phone 1-615-726-0177

ANALYTICAL REPORT

Laboratory Number: 99-A131620
Sample ID: MAY-1490-2A-9-99

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Date	Time	Analyst	Method	Batch
1,2,3-Trichloropropane	ND	ug/l	2	2	1	10/ 7/99	10:09	J Hollinan	8260B	4699
1,2,4-Trimethylbenzene	ND	ug/l	2	2	1	10/ 7/99	10:09	J Hollinan	8260B	4699
1,3,5-Trimethylbenzene	ND	ug/l	2	2	1	10/ 7/99	10:09	J Hollinan	8260B	4699
Vinyl acetate	ND	ug/l	10	10	1	10/ 7/99	10:09	J Hollinan	8260B	4699
Vinyl chloride	ND	ug/l	2	2	1	10/ 7/99	10:09	J Hollinan	8260B	4699
Xylenes	ND	ug/l	2	2	1	10/ 7/99	10:09	J Hollinan	8260B	4699
Bromodichloromethane	ND	ug/l	2	2	1	10/ 7/99	10:09	J Hollinan	8260B	4699
Trichlorofluoromethane	ND	ug/l	2	2	1	10/ 7/99	10:09	J Hollinan	8260B	4699
Methyl-t-butyl ether	ND	ug/l	10	2	1	10/ 7/99	10:09	J Hollinan	8260B	4699
METALS										
Arsenic, Total	ND	mg/l	0.0050	0.0050	1	10/ 6/99	7:25	G.Robinson	6010B	4547
Barium, Total	0.0110	mg/l	0.0100	0.0100	1	10/ 6/99	7:25	G.Robinson	6010B	4547
Cadmium	ND	mg/l	0.0010	0.0010	1	10/ 6/99	7:25	G.Robinson	6010B	4547
Chromium, Total	ND	mg/l	0.0050	0.0050	1	10/ 6/99	7:25	G.Robinson	6010B	4547
Lead	ND	mg/l	0.0030	0.0030	1	10/ 6/99	7:25	G.Robinson	6010B	4547
Mercury, Total	ND	mg/l	0.00020	0.00020	1	10/ 6/99	7:49	G.McCord	7470	4670
Selenium, Total	ND	mg/l	0.0050	0.0050	1	10/ 6/99	7:25	G.Robinson	6010B	4547
Silver, Total	ND	mg/l	0.0050	0.0050	1	10/ 6/99	7:25	G.Robinson	6010B	4547

ND = Not detected at the report limit.

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Analyst	Method
PAH's	980. ml	1.00 ml	10/ 4/99	Fitzwater	3510
Fla Pro	980. ml	2.0 ml	10/ 6/99	Fitzwater	FDEP

Surrogate	% Recovery	Target Range
Fla Pro Surr., O-Terphenyl	81. %	82. - 142.
Fla Pro Surr., C-35 Hydrocarbon	80.	55. - 118.
VOA Surr, 1,2-DCA, d4	96.	60. - 138.
VOA Surr, Toluene d8	86.	80. - 123.
VOA Surr, 4-BFB	95.	73. - 122.
VOA Surr, DBFM	107.	74. - 133.
PAH Surr., p-terphenyl d14	96.	20. - 140.

COPY 3

SPECIALIZED ASSAYS, INC.

2960 Foster Creighton Dr.
P.O. Box 40566
Nashville, TN 37204-0566
Phone 1-615-726-0177

ANALYTICAL REPORT

Laboratory Number: 99-A151620
Sample ID: MAY-1490-2A-9-99

These results relate only to the items tested.
This report shall not be reproduced except in full and with permission of the laboratory.

Report Approved By: _____ Report Date: 10/11/99

Theodore J. Duello, Ph.D., Lab Director
Michael H. Dunn, M.S., Technical Director
Johnny A. Mitchell, Dir. Technical Services
Eric Smith, Assistant Technical Director
Gail A Lage: Technical Services

Laboratory Certification Number: HRS-E87358

SPECIALIZED ASSAYS, INC.
2960 Foster Creighton Dr.
P.O. Box 40566
Nashville, TN 37204-0566
Phone 1-615-726-0177

ANALYTICAL REPORT

USACE-SAVANNAH DISTRICT 8995
MARK HARVISON
100 WEST OGLETHORPE AVE
SAVANNAH, GA 31402

Lab Number: 99-A151621
Sample ID: MAY-1490-6A-9-99
Sample Type: Ground water
Site ID:

Date Collected: 10/ 1/99
Time Collected: 17:00
Date Received: 10/ 2/99
Time Received: 9:00

Project: DO #210
Project Name: SITE 1490 MAYPORT
Sampler: JUDSON SMITH

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Date	Time	Analyst	Method	Batch
SEMIVOLATILE ORGANICS										
TPH	ND	ug/l	208.	100.	1	10/ 8/99	2:28	J.Salgasak	FPHD	7521
Naphthalene	ND	ug/l	1.03	1.00	1	10/ 8/99	8:45	Noorbakhsh	8310	7721
Acenaphthene	ND	ug/l	1.03	1.00	1	10/ 8/99	8:45	Noorbakhsh	8310	7721
Anthracene	ND	ug/l	0.68	0.66	1	10/ 8/99	8:45	Noorbakhsh	8310	7721
Fluoranthene	ND	ug/l	0.22	0.21	1	10/ 8/99	8:45	Noorbakhsh	8310	7721
Fluorene	ND	ug/l	0.22	0.21	1	10/ 8/99	8:45	Noorbakhsh	8310	7721
Pyrene	ND	ug/l	0.28	0.27	1	10/ 8/99	8:45	Noorbakhsh	8310	7721
Benzo(a)anthracene	ND	ug/l	0.13	0.13	1	10/ 8/99	8:45	Noorbakhsh	8310	7721
Benzo(a)pyrene	ND	ug/l	0.10	0.10	1	10/ 8/99	8:45	Noorbakhsh	8310	7721
Benzo(b)fluoranthene	ND	ug/l	0.19	0.18	1	10/ 8/99	8:45	Noorbakhsh	8310	7721
Benzo(k)fluoranthene	ND	ug/l	0.18	0.17	1	10/ 8/99	8:45	Noorbakhsh	8310	7721
Chrysene	ND	ug/l	0.15	0.15	1	10/ 8/99	8:45	Noorbakhsh	8310	7721
Dibenzo(a,h)anthracene	ND	ug/l	0.31	0.30	1	10/ 8/99	8:45	Noorbakhsh	8310	7721
Indeno(1,2,3-cd)pyrene	ND	ug/l	0.44	0.43	1	10/ 8/99	8:45	Noorbakhsh	8310	7721
Acenaphthylene	ND	ug/l	2.06	2.00	1	10/ 8/99	8:45	Noorbakhsh	8310	7721
Benzo(g,h,i)perylene	ND	ug/l	0.78	0.76	1	10/ 8/99	8:45	Noorbakhsh	8310	7721
Phenanthrene	ND	ug/l	0.66	0.64	1	10/ 8/99	8:45	Noorbakhsh	8310	7721
1-Methylnaphthalene	ND	ug/l	2.06	2.00	1	10/ 8/99	8:45	Noorbakhsh	8310	7721
2-Methylnaphthalene	ND	ug/l	2.06	2.00	1	10/ 8/99	8:45	Noorbakhsh	8310	7721
VOLATILE ORGANICS										
Acetone	ND	ug/l	10	10	1	10/ 7/99	10:50	J Hollinan	8260B	4699
Acrolein	ND	ug/l	10	10	1	10/ 7/99	10:50	J Hollinan	8260B	4699
Acrylonitrile	ND	ug/l	10	10	1	10/ 7/99	10:50	J Hollinan	8260B	4699
Benzene	ND	ug/l	1	1	1	10/ 7/99	10:50	J Hollinan	8260B	4699
Bromobenzene	ND	ug/l	2	2	1	10/ 7/99	10:50	J Hollinan	8260B	4699
Bromochloromethane	ND	ug/l	2	2	1	10/ 7/99	10:50	J Hollinan	8260B	4699
Bromoform	ND	ug/l	2	2	1	10/ 7/99	10:50	J Hollinan	8260B	4699
Bromomethane	ND	ug/l	2	2	1	10/ 7/99	10:50	J Hollinan	8260B	4699
2-Butanone	ND	ug/l	10	10	1	10/ 7/99	10:50	J Hollinan	8260B	4699
n-Butylbenzene	ND	ug/l	2	2	1	10/ 7/99	10:50	J Hollinan	8260B	4699
sec-Butylbenzene	ND	ug/l	2	2	1	10/ 7/99	10:50	J Hollinan	8260B	4699
t-Butylbenzene	ND	ug/l	2	2	1	10/ 7/99	10:50	J Hollinan	8260B	4699
Carbon disulfide	ND	ug/l	2	2	1	10/ 7/99	10:50	J Hollinan	8260B	4699
Carbon tetrachloride	ND	ug/l	2	2	1	10/ 7/99	10:50	J Hollinan	8260B	4699
Chlorobenzene	ND	ug/l	2	2	1	10/ 7/99	10:50	J Hollinan	8260B	4699
Chloroethane	ND	ug/l	2	2	1	10/ 7/99	10:50	J Hollinan	8260B	4699

COPY 3

SPECIALIZED ASSAYS, INC.
2960 Foster Creighton Dr.
P.O. Box 40566
Nashville, TN 37204-0566
Phone 1-615-726-0177

ANALYTICAL REPORT

Laboratory Number: 99-A151621
Sample ID: MAY-1490-6A-9-99

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Date	Time	Analyst	Method	Batch
2-Chloroethylvinylether	ND	ug/l	5	2	1	10/ 7/99	10:50	J Hollinan	8260B	4699
Chloroform	ND	ug/l	2	2	1	10/ 7/99	10:50	J Hollinan	8260B	4699
Chloromethane	ND	ug/l	2	2	1	10/ 7/99	10:50	J Hollinan	8260B	4699
2-Chlorotoluene	ND	ug/l	2	2	1	10/ 7/99	10:50	J Hollinan	8260B	4699
4-Chlorotoluene	ND	ug/l	2	2	1	10/ 7/99	10:50	J Hollinan	8260B	4699
1,2-Dibromo-3-chloropropane	ND	ug/l	10	10	1	10/ 7/99	10:50	J Hollinan	8260B	4699
Dibromochloromethane	ND	ug/l	2	2	1	10/ 7/99	10:50	J Hollinan	8260B	4699
1,2-Dibromoethane	ND	ug/l	2	2	1	10/ 7/99	10:50	J Hollinan	8260B	4699
Dibromomethane	ND	ug/l	2	2	1	10/ 7/99	10:50	J Hollinan	8260B	4699
1,4-Dichloro-2-butene	ND	ug/l	2	2	1	10/ 7/99	10:50	J Hollinan	8260B	4699
1,2-Dichlorobenzene	ND	ug/l	2	2	1	10/ 7/99	10:50	J Hollinan	8260B	4699
1,3-Dichlorobenzene	ND	ug/l	2	2	1	10/ 7/99	10:50	J Hollinan	8260B	4699
1,4-Dichlorobenzene	ND	ug/l	2	2	1	10/ 7/99	10:50	J Hollinan	8260B	4699
Dichlorodifluoromethane	ND	ug/l	2	2	1	10/ 7/99	10:50	J Hollinan	8260B	4699
1,1-Dichloroethane	ND	ug/l	2	2	1	10/ 7/99	10:50	J Hollinan	8260B	4699
1,2-Dichloroethane	ND	ug/l	2	2	1	10/ 7/99	10:50	J Hollinan	8260B	4699
1,1-Dichloroethene	ND	ug/l	2	2	1	10/ 7/99	10:50	J Hollinan	8260B	4699
cis-1,2-Dichloroethene	ND	ug/l	2	2	1	10/ 7/99	10:50	J Hollinan	8260B	4699
trans-1,2-Dichloroethene	ND	ug/l	2	2	1	10/ 7/99	10:50	J Hollinan	8260B	4699
1,2-Dichloropropane	ND	ug/l	2	2	1	10/ 7/99	10:50	J Hollinan	8260B	4699
1,3-Dichloropropane	ND	ug/l	2	2	1	10/ 7/99	10:50	J Hollinan	8260B	4699
2,2-Dichloropropane	ND	ug/l	2	2	1	10/ 7/99	10:50	J Hollinan	8260B	4699
1,1-Dichloropropene	ND	ug/l	2	2	1	10/ 7/99	10:50	J Hollinan	8260B	4699
cis-1,3-Dichloropropene	ND	ug/l	2	2	1	10/ 7/99	10:50	J Hollinan	8260B	4699
trans-1,3-Dichloropropene	ND	ug/l	2	2	1	10/ 7/99	10:50	J Hollinan	8260B	4699
Ethylbenzene	ND	ug/l	2	2	1	10/ 7/99	10:50	J Hollinan	8260B	4699
Hexachlorobutadiene	ND	ug/l	2	2	1	10/ 7/99	10:50	J Hollinan	8260B	4699
2-Hexanone	ND	ug/l	10	10	1	10/ 7/99	10:50	J Hollinan	8260B	4699
Iodomethane	ND	ug/l	2	2	1	10/ 7/99	10:50	J Hollinan	8260B	4699
Isopropylbenzene	ND	ug/l	2	2	1	10/ 7/99	10:50	J Hollinan	8260B	4699
4-Isopropyltoluene	ND	ug/l	2	2	1	10/ 7/99	10:50	J Hollinan	8260B	4699
Methyl methacrylate	ND	ug/l	5	5	1	10/ 7/99	10:50	T. Wani	8260B	8867
4-Methyl-2-pentanone	ND	ug/l	10	10	1	10/ 7/99	10:50	J Hollinan	8260B	4699
Methylene chloride	ND	ug/l	5	5	1	10/ 7/99	10:50	J Hollinan	8260B	4699
Naphthalene	ND	ug/l	2	2	1	10/ 7/99	10:50	J Hollinan	8260B	4699
n-Propylbenzene	ND	ug/l	2	2	1	10/ 7/99	10:50	J Hollinan	8260B	4699
Styrene	ND	ug/l	2	2	1	10/ 7/99	10:50	J Hollinan	8260B	4699
1,1,1,2-Tetrachloroethane	ND	ug/l	2	2	1	10/ 7/99	10:50	J Hollinan	8260B	4699
1,1,2,2-Tetrachloroethane	ND	ug/l	2	2	1	10/ 7/99	10:50	J Hollinan	8260B	4699
Tetrachloroethene	ND	ug/l	2	2	1	10/ 7/99	10:50	J Hollinan	8260B	4699
Toluene	ND	ug/l	2	2	1	10/ 7/99	10:50	J Hollinan	8260B	4699
1,2,3-Trichlorobenzene	ND	ug/l	2	2	1	10/ 7/99	10:50	J Hollinan	8260B	4699
1,2,4-Trichlorobenzene	ND	ug/l	2	2	1	10/ 7/99	10:50	J Hollinan	8260B	4699
1,1,1-Trichloroethane	ND	ug/l	2	2	1	10/ 7/99	10:50	J Hollinan	8260B	4699
1,1,2-Trichloroethane	ND	ug/l	2	2	1	10/ 7/99	10:50	J Hollinan	8260B	4699
Trichloroethene	ND	ug/l	2	2	1	10/ 7/99	10:50	J Hollinan	8260B	4699

SPECIALIZED ASSAYS, INC.
2960 Foster Creighton Dr.
P.O. Box 40566
Nashville, TN 37204-0566
Phone 1-615-726-0177

ANALYTICAL REPORT

Laboratory Number: 99-A151621
Sample ID: MAY-1490-6A-9-99

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Date	Time	Analyst	Method	Batch
1,2,3-Trichloropropane	ND	ug/l	2	7	1	10/ 7/99	10:50	J Hollinan	8260B	4699
1,2,4-Trimethylbenzene	ND	ug/l	2	2	1	10/ 7/99	10:50	J Hollinan	8260B	4699
1,3,5-Trimethylbenzene	ND	ug/l	2	2	1	10/ 7/99	10:50	J Hollinan	8260B	4699
Vinyl acetate	ND	ug/l	10	10	1	10/ 7/99	10:50	J Hollinan	8260B	4699
Vinyl chloride	ND	ug/l	2	2	1	10/ 7/99	10:50	J Hollinan	8260B	4699
Xylenes	ND	ug/l	2	2	1	10/ 7/99	10:50	J Hollinan	8260B	4699
Bromomethane	ND	ug/l	2	2	1	10/ 7/99	10:50	J Hollinan	8260B	4699
Trichlorofluoromethane	ND	ug/l	2	2	1	10/ 7/99	10:50	J Hollinan	8260B	4699
Methyl-t-butyl ether	ND	ug/l	10	2	1	10/ 7/99	10:50	J Hollinan	8260B	4699
METALS										
Arsenic, Total	ND	mg/l	0.0050	0.0050	1	10/ 6/99	7:25	G.Robinson	6010B	4547
Barium, Total	0.0100	mg/l	0.0100	0.0100	1	10/ 6/99	7:25	G.Robinson	6010B	4547
Cadmium	ND	mg/l	0.0010	0.0010	1	10/ 6/99	7:25	G.Robinson	6010B	4547
Chromium, Total	ND	mg/l	0.0050	0.0050	1	10/ 6/99	7:25	G.Robinson	6010B	4547
Lead	ND	mg/l	0.0030	0.0030	1	10/ 6/99	7:25	G.Robinson	6010B	4547
Mercury, Total	ND	mg/l	0.00020	0.00020	1	10/ 6/99	7:49	G.McCord	7470	4670
Selenium, Total	ND	mg/l	0.0050	0.0050	1	10/ 6/99	7:25	G.Robinson	6010B	4547
Silver, Total	ND	mg/l	0.0050	0.0050	1	10/ 6/99	7:25	G.Robinson	6010B	4547

ND = Not detected at the report limit.

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Analyst	Method
PAH's	970. ml	1.00 ml	10/ 4/99	Fitzwater	3510
Fla Pro	960. ml	2.0 ml	10/ 6/99	Fitzwater	FDEP

Surrogate	% Recovery	Target Range
Fla Pro Surr., O-Terphenyl	102.	82. - 142.
Fla Pro Surr., C-35 Hydrocarbon	92.	55. - 118.
VOA Surr, 1,2-DCA, d4	95.	60. - 138.
VOA Surr, Toluene d8	86.	80. - 123.
VOA Surr, 4-BFB	94.	73. - 122.
VOA Surr, DBFM	107.	74. - 133.
PAH Surr., p-terphenyl d14	88.	20. - 140.

SPECIALIZED ASSAYS, INC.

2960 Foster Creighton Dr.
P.O. Box 40566
Nashville, TN 37204-0566
Phone 1-615-726-0177

ANALYTICAL REPORT

Laboratory Number: 99-A131621
Sample ID: MAY-1490-6A-9-99

These results relate only to the items tested.
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Report Approved By: _____ Report Date: 10/11/99

Theodore J. Duello, Ph.D., Lab Director
Michael H. Dunn, M.S., Technical Director
Johnny A. Mitchell, Dir. Technical Services
Eric Smith, Assistant Technical Director
Gail A Lage, Technical Services

Laboratory Certification Number: HRS-E87358

SPECIALIZED ASSAYS, INC.
2960 Foster Creighton Dr.
P.O. Box 40566
Nashville, TN 37204-0566
Phone 1-615-726-0177

ANALYTICAL REPORT

USACE-SAVANNAH DISTRICT 8995
MARK HARVISON
100 WEST OGLETHORPE AVE
SAVANNAH, GA 31402

Lab Number: 99-A151622
Sample ID: MAY-1490-7-9-99
Sample Type: Ground water
Site ID:

Date Collected: 10/ 1/99
Time Collected: 18:00
Date Received: 10/ 2/99
Time Received: 9:00

Project: DO #210
Project Name: SITE 1490 MAYPORT
Sampler: JUDSON SMITH

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Date	Time	Analyst	Method	Batch
ORGANIC PARAMETERS										
TRPH	ND	ug/l	208.	100.	1	10/ 8/99	2:38	J.Salyasak	FPRD	7321
Naphthalene	ND	ug/l	1.01	1.00	1	10/ 8/99	8:45	Moorbakhsh	8310	7721
Acenapthene	ND	ug/l	1.01	1.00	1	10/ 8/99	8:45	Moorbakhsh	8310	7721
Anthracene	ND	ug/l	0.67	0.66	1	10/ 8/99	8:45	Moorbakhsh	8310	7721
Fluoranthene	ND	ug/l	0.21	0.21	1	10/ 8/99	8:45	Moorbakhsh	8310	7721
Fluorene	ND	ug/l	0.21	0.21	1	10/ 8/99	8:45	Moorbakhsh	8310	7721
Pyrene	ND	ug/l	0.27	0.27	1	10/ 8/99	8:45	Moorbakhsh	8310	7721
Benzo(a)anthracene	ND	ug/l	0.13	0.13	1	10/ 8/99	8:45	Moorbakhsh	8310	7721
Benzo(a)pyrene	ND	ug/l	0.10	0.10	1	10/ 8/99	8:45	Moorbakhsh	8310	7721
Benzo(b)fluoranthene	ND	ug/l	0.18	0.18	1	10/ 8/99	8:45	Moorbakhsh	8310	7721
Benzo(k)fluoranthene	ND	ug/l	0.17	0.17	1	10/ 8/99	8:45	Moorbakhsh	8310	7721
Chrysene	ND	ug/l	0.15	0.15	1	10/ 8/99	8:45	Moorbakhsh	8310	7721
Dibenzo(a,h)anthracene	ND	ug/l	0.30	0.30	1	10/ 8/99	8:45	Moorbakhsh	8310	7721
Indeno(1,2,3-cd)pyrene	ND	ug/l	0.43	0.43	1	10/ 8/99	8:45	Moorbakhsh	8310	7721
Acenapthylene	ND	ug/l	2.02	2.00	1	10/ 8/99	8:45	Moorbakhsh	8310	7721
Benzo(g,h,i)perylene	ND	ug/l	0.77	0.76	1	10/ 8/99	8:45	Moorbakhsh	8310	7721
Phenanthrene	ND	ug/l	0.65	0.64	1	10/ 8/99	8:45	Moorbakhsh	8310	7721
1-Methylnapthalene	ND	ug/l	2.02	2.00	1	10/ 8/99	8:45	Moorbakhsh	8310	7721
2-Methylnapthalene	ND	ug/l	2.02	2.00	1	10/ 8/99	8:45	Moorbakhsh	8310	7721
VOLATILE ORGANICS										
Acetone	ND	ug/l	10	10	1	10/ 7/99	11:30	J Hollinan	8260B	4699
Acrolein	ND	ug/l	10	10	1	10/ 7/99	11:30	J Hollinan	8260B	4699
Acrylonitrile	ND	ug/l	10	10	1	10/ 7/99	11:30	J Hollinan	8260B	4699
Benzene	ND	ug/l	1	1	1	10/ 7/99	11:30	J Hollinan	8260B	4699
Bromobenzene	ND	ug/l	2	2	1	10/ 7/99	11:30	J Hollinan	8260B	4699
Bromochloromethane	ND	ug/l	2	2	1	10/ 7/99	11:30	J Hollinan	8260B	4699
Bromoform	ND	ug/l	2	2	1	10/ 7/99	11:30	J Hollinan	8260B	4699
Bromomethane	ND	ug/l	2	2	1	10/ 7/99	11:30	J Hollinan	8260B	4699
2-Butanone	ND	ug/l	10	10	1	10/ 7/99	11:30	J Hollinan	8260B	4699
n-Butylbenzene	ND	ug/l	2	2	1	10/ 7/99	11:30	J Hollinan	8260B	4699
sec-Butylbenzene	ND	ug/l	2	2	1	10/ 7/99	11:30	J Hollinan	8260B	4699
t-Butylbenzene	ND	ug/l	2	2	1	10/ 7/99	11:30	J Hollinan	8260B	4699
Carbon disulfide	ND	ug/l	2	2	1	10/ 7/99	11:30	J Hollinan	8260B	4699
Carbon tetrachloride	ND	ug/l	2	2	1	10/ 7/99	11:30	J Hollinan	8260B	4699
Chlorobenzene	ND	ug/l	2	2	1	10/ 7/99	11:30	J Hollinan	8260B	4699
Chloroethane	ND	ug/l	2	2	1	10/ 7/99	11:30	J Hollinan	8260B	4699

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SPECIALIZED ASSAYS, INC.
2960 Foster Creighton Dr.
P.O. Box 40566
Nashville, TN 37204-0566
Phone 1-615-726-0177

ANALYTICAL REPORT

Laboratory Number: 99-A151622
Sample ID: MAY-1490-7-9-99

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Date	Time	Analyst	Method	Batch
2-Chloroethylvinylether	ND	ug/l	5	2	1	10/ 7/99	11:30	J Hollinan	8260B	4699
Chloroform	ND	ug/l	2	2	1	10/ 7/99	11:30	J Hollinan	8260B	4699
Chloromethane	ND	ug/l	2	2	1	10/ 7/99	11:30	J Hollinan	8260B	4699
2-Chlorotoluene	ND	ug/l	2	2	1	10/ 7/99	11:30	J Hollinan	8260B	4699
4-Chlorotoluene	ND	ug/l	2	2	1	10/ 7/99	11:30	J Hollinan	8260B	4699
1,2-Dibromo-3-chloropropane	ND	ug/l	10	10	1	10/ 7/99	11:30	J Hollinan	8260B	4699
Dibromochloromethane	ND	ug/l	2	2	1	10/ 7/99	11:30	J Hollinan	8260B	4699
1,2-Dibromoethane	ND	ug/l	2	2	1	10/ 7/99	11:30	J Hollinan	8260B	4699
Dibromomethane	ND	ug/l	2	2	1	10/ 7/99	11:30	J Hollinan	8260B	4699
1,4-Dichloro-2-butene	ND	ug/l	2	2	1	10/ 7/99	11:30	J Hollinan	8260B	4699
1,2-Dichlorobenzene	ND	ug/l	2	2	1	10/ 7/99	11:30	J Hollinan	8260B	4699
1,3-Dichlorobenzene	ND	ug/l	2	2	1	10/ 7/99	11:30	J Hollinan	8260B	4699
1,4-Dichlorobenzene	ND	ug/l	2	2	1	10/ 7/99	11:30	J Hollinan	8260B	4699
Dichlorodifluoromethane	ND	ug/l	2	2	1	10/ 7/99	11:30	J Hollinan	8260B	4699
1,1-Dichloroethane	ND	ug/l	2	2	1	10/ 7/99	11:30	J Hollinan	8260B	4699
1,2-Dichloroethane	ND	ug/l	2	2	1	10/ 7/99	11:30	J Hollinan	8260B	4699
1,1-Dichloroethene	ND	ug/l	2	2	1	10/ 7/99	11:30	J Hollinan	8260B	4699
cis-1,2-Dichloroethene	ND	ug/l	2	2	1	10/ 7/99	11:30	J Hollinan	8260B	4699
trans-1,2-Dichloroethene	ND	ug/l	2	2	1	10/ 7/99	11:30	J Hollinan	8260B	4699
1,2-Dichloropropane	ND	ug/l	2	2	1	10/ 7/99	11:30	J Hollinan	8260B	4699
1,3-Dichloropropane	ND	ug/l	2	2	1	10/ 7/99	11:30	J Hollinan	8260B	4699
2,2-Dichloropropane	ND	ug/l	2	2	1	10/ 7/99	11:30	J Hollinan	8260B	4699
1,1-Dichloropropene	ND	ug/l	2	2	1	10/ 7/99	11:30	J Hollinan	8260B	4699
cis-1,3-Dichloropropene	ND	ug/l	2	2	1	10/ 7/99	11:30	J Hollinan	8260B	4699
trans-1,3-Dichloropropene	ND	ug/l	2	2	1	10/ 7/99	11:30	J Hollinan	8260B	4699
Ethylbenzene	ND	ug/l	2	2	1	10/ 7/99	11:30	J Hollinan	8260B	4699
Hexachlorobutadiene	ND	ug/l	2	2	1	10/ 7/99	11:30	J Hollinan	8260B	4699
2-Hexanone	ND	ug/l	10	10	1	10/ 7/99	11:30	J Hollinan	8260B	4699
Iodomethane	ND	ug/l	2	2	1	10/ 7/99	11:30	J Hollinan	8260B	4699
Isopropylbenzene	ND	ug/l	2	2	1	10/ 7/99	11:30	J Hollinan	8260B	4699
4-Isopropyltoluene	ND	ug/l	2	2	1	10/ 7/99	11:30	J Hollinan	8260B	4699
Methyl methacrylate	ND	ug/l	5	5	1	10/ 7/99	11:30	S. Wani	8260B	8867
4-Methyl-2-pentanone	ND	ug/l	10	10	1	10/ 7/99	11:30	J Hollinan	8260B	4699
Methylene chloride	ND	ug/l	5	5	1	10/ 7/99	11:30	J Hollinan	8260B	4699
Naphthalene	ND	ug/l	2	2	1	10/ 7/99	11:30	J Hollinan	8260B	4699
n-Propylbenzene	ND	ug/l	2	2	1	10/ 7/99	11:30	J Hollinan	8260B	4699
Styrene	ND	ug/l	2	2	1	10/ 7/99	11:30	J Hollinan	8260B	4699
1,1,1,2-Tetrachloroethane	ND	ug/l	2	2	1	10/ 7/99	11:30	J Hollinan	8260B	4699
1,1,2,2-Tetrachloroethane	ND	ug/l	2	2	1	10/ 7/99	11:30	J Hollinan	8260B	4699
Tetrachloroethene	ND	ug/l	2	2	1	10/ 7/99	11:30	J Hollinan	8260B	4699
Toluene	ND	ug/l	2	2	1	10/ 7/99	11:30	J Hollinan	8260B	4699
1,2,3-Trichlorobenzene	ND	ug/l	2	2	1	10/ 7/99	11:30	J Hollinan	8260B	4699
1,2,4-Trichlorobenzene	ND	ug/l	2	2	1	10/ 7/99	11:30	J Hollinan	8260B	4699
1,1,1-Trichloroethane	ND	ug/l	2	2	1	10/ 7/99	11:30	J Hollinan	8260B	4699
1,1,2-Trichloroethane	ND	ug/l	2	2	1	10/ 7/99	11:30	J Hollinan	8260B	4699
Trichloroethene	ND	ug/l	2	2	1	10/ 7/99	11:30	J Hollinan	8260B	4699

SPECIALIZED ASSAYS, INC.
2960 Foster Creighton Dr.
P.O. Box 40566
Nashville, TN 37204-0566
Phone 1-615-726-0177

ANALYTICAL REPORT

Laboratory Number: 99-A151622
Sample ID: MAY-1490-7-9-99

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Date	Time	Analyst	Method	Batch
1,2,3-Trichloropropane	ND	ug/l	2	2	1	10/ 7/99	11:30	J Hollinan	8260B	4699
1,2,4-Trimethylbenzene	ND	ug/l	2	2	1	10/ 7/99	11:30	J Hollinan	8260B	4699
1,3,5-Trimethylbenzene	ND	ug/l	2	2	1	10/ 7/99	11:30	J Hollinan	8260B	4699
Vinyl acetate	ND	ug/l	10	10	1	10/ 7/99	11:30	J Hollinan	8260B	4699
Vinyl chloride	ND	ug/l	2	2	1	10/ 7/99	11:30	J Hollinan	8260B	4699
Xylenes	ND	ug/l	2	2	1	10/ 7/99	11:30	J Hollinan	8260B	4699
Bromodichloromethane	ND	ug/l	2	2	1	10/ 7/99	11:30	J Hollinan	8260B	4699
Trichlorofluoromethane	ND	ug/l	2	2	1	10/ 7/99	11:30	J Hollinan	8260B	4699
Methyl-t-butyl ether	ND	ug/l	10	2	1	10/ 7/99	11:30	J Hollinan	8260B	4699
METALS										
Arsenic, Total	0.0060	mg/l	0.0050	0.0050	1	10/ 6/99	7:25	G.Robinson	6010B	4547
Barium, Total	0.0160	mg/l	0.0100	0.0100	1	10/ 6/99	7:25	G.Robinson	6010B	4547
Cadmium	ND	mg/l	0.0010	0.0010	1	10/ 6/99	7:25	G.Robinson	6010B	4547
Chromium, Total	ND	mg/l	0.0050	0.0050	1	10/ 6/99	7:25	G.Robinson	6010B	4547
Lead	ND	mg/l	0.0030	0.0030	1	10/ 6/99	7:25	G.Robinson	6010B	4547
Mercury, Total	ND	mg/l	0.00020	0.00020	1	10/ 6/99	7:49	G.McCord	7470	4670
Selenium, Total	ND	mg/l	0.0050	0.0050	1	10/ 6/99	7:25	G.Robinson	6010B	4547
Silver, Total	ND	mg/l	0.0050	0.0050	1	10/ 6/99	7:25	G.Robinson	6010B	4547

ND = Not detected at the report limit.

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Analyst	Method
PAH's	990. ml	1.00 ml	10/ 4/99	Fitzwater	3510
Fla Pro	960. ml	2.0 ml	10/ 6/99	Fitzwater	FOEP

Surrogate	% Recovery	Target Range
Fla Pro Surr., O-Terphenyl	86.	82. - 142.
Fla Pro Surr., C-35 Hydrocarbon	85.	55. - 118.
VOA Surr, 1,2-DCB, d4	99.	60. - 138.
VOA Surr, Toluene d8	88.	80. - 123.
VOA Surr, 4-BFB	96.	73. - 122.
VOA Surr, DBFM	109.	74. - 133.
PAH Surr., p-terphenyl d14	94.	20. - 140.

SPECIALIZED ASSAYS, INC.

2960 Foster Creighton Dr.
P.O. Box 40566
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ANALYTICAL REPORT

Laboratory Number: 99-A151622
Sample ID: MAY-1490-7-9-99

These results relate only to the items tested.
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Report Approved By: _____ Report Date: 10/11/99

Theodore J. Quello, Ph.D., Lab Director
Michael H. Dunn, M.S., Technical Director
Johnny A. Mitchell, Dir. Technical Services
Eric Smith, Assistant Technical Director
Gail A Lage, Technical Services

Laboratory Certification Number: HRS-E87358

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SPECIALIZED ASSAYS, INC.
2960 Foster Creighton Dr.
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Nashville, TN 37204-0566
Phone 1-615-726-0177

ANALYTICAL REPORT

USACE-SAVANNAH DISTRICT 8995
MARK HARVISON
100 WEST OGLETHORPE AVE
SAVANNAH, GA 31402

Lab Number: 99-A151623
Sample ID: MAY-1490-DUP1-9-99
Sample Type: Ground water
Site ID:

Date Collected: 10/ 1/99
Time Collected: 13:10
Date Received: 10/ 2/99
Time Received: 9:00

Project: DO #210
Project Name: SITE 1490 MAYPORT
Sampler: JUDSON SMITH

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Date	Time	Analyst	Method	Batch
ORGANIC PARAMETERS										
TRPH	ND	ug/l	206.	100.	1	10/ 8/99	3:27	J.Saigasak	FPHD	7521
Naphthalene	ND	ug/l	1.04	1.00	1	10/ 8/99	8:45	Noorbakhsh	8310	7721
Acenapthene	ND	ug/l	1.04	1.00	1	10/ 8/99	8:45	Noorbakhsh	8310	7721
Anthracene	ND	ug/l	0.69	0.66	1	10/ 8/99	8:45	Noorbakhsh	8310	7721
Fluoranthene	ND	ug/l	0.22	0.21	1	10/ 8/99	8:45	Noorbakhsh	8310	7721
Fluorene	ND	ug/l	0.22	0.21	1	10/ 8/99	8:45	Noorbakhsh	8310	7721
Pyrene	ND	ug/l	0.28	0.27	1	10/ 8/99	8:45	Noorbakhsh	8310	7721
Benzo(a)anthracene	ND	ug/l	0.14	0.13	1	10/ 8/99	8:45	Noorbakhsh	8310	7721
Benzo(a)pyrene	ND	ug/l	0.10	0.10	1	10/ 8/99	8:45	Noorbakhsh	8310	7721
Benzo(b)Fluoranthene	ND	ug/l	0.19	0.18	1	10/ 8/99	8:45	Noorbakhsh	8310	7721
Benzo(k)Fluoranthene	ND	ug/l	0.18	0.17	1	10/ 8/99	8:45	Noorbakhsh	8310	7721
Chrysene	ND	ug/l	0.16	0.15	1	10/ 8/99	8:45	Noorbakhsh	8310	7721
Dibenzo(a,h)anthracene	ND	ug/l	0.31	0.30	1	10/ 8/99	8:45	Noorbakhsh	8310	7721
Indeno(1,2,3-cd)pyrene	ND	ug/l	0.45	0.43	1	10/ 8/99	8:45	Noorbakhsh	8310	7721
Acenapthylene	ND	ug/l	2.08	2.00	1	10/ 8/99	8:45	Noorbakhsh	8310	7721
Benzo(g,h,i)perylene	ND	ug/l	0.79	0.76	1	10/ 8/99	8:45	Noorbakhsh	8310	7721
Phenanthrene	ND	ug/l	0.67	0.64	1	10/ 8/99	8:45	Noorbakhsh	8310	7721
1-Methylnapthalene	ND	ug/l	2.08	2.00	1	10/ 8/99	8:45	Noorbakhsh	8310	7721
2-Methylnapthalene	ND	ug/l	2.08	2.00	1	10/ 8/99	8:45	Noorbakhsh	8310	7721
VOLATILE ORGANICS										
Acetone	ND	ug/l	10	10	1	10/ 7/99	12:11	J Hollinan	8260B	4699
Acrolein	ND	ug/l	10	10	1	10/ 7/99	12:11	J Hollinan	8260B	4699
Acrylonitrile	ND	ug/l	10	10	1	10/ 7/99	12:11	J Hollinan	8260B	4699
Benzene	ND	ug/l	1	1	1	10/ 7/99	12:11	J Hollinan	8260B	4699
Bromobenzene	ND	ug/l	2	2	1	10/ 7/99	12:11	J Hollinan	8260B	4699
Bromochloromethane	ND	ug/l	2	2	1	10/ 7/99	12:11	J Hollinan	8260B	4699
Bromoform	ND	ug/l	2	2	1	10/ 7/99	12:11	J Hollinan	8260B	4699
Bromomethane	ND	ug/l	2	2	1	10/ 7/99	12:11	J Hollinan	8260B	4699
2-Butanone	ND	ug/l	10	10	1	10/ 7/99	12:11	J Hollinan	8260B	4699
n-Butylbenzene	ND	ug/l	2	2	1	10/ 7/99	12:11	J Hollinan	8260B	4699
sec-Butylbenzene	ND	ug/l	2	2	1	10/ 7/99	12:11	J Hollinan	8260B	4699
t-Butylbenzene	ND	ug/l	2	2	1	10/ 7/99	12:11	J Hollinan	8260B	4699
Carbon disulfide	ND	ug/l	2	2	1	10/ 7/99	12:11	J Hollinan	8260B	4699
Carbon tetrachloride	ND	ug/l	2	2	1	10/ 7/99	12:11	J Hollinan	8260B	4699
Chlorobenzene	ND	ug/l	2	2	1	10/ 7/99	12:11	J Hollinan	8260B	4699
Chloroethane	ND	ug/l	2	2	1	10/ 7/99	12:11	J Hollinan	8260B	4699

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SPECIALIZED ASSAYS, INC.
2960 Foster Creighton Dr.
P.O. Box 40566
Nashville, TN 37204-0566
Phone 1-615-726-0177

ANALYTICAL REPORT

Laboratory Number: 99-A151623
Sample ID: MAY-1490-DUP1-9-99

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Date	Time	Analyst	Method	Batch
2-Chloroethylvinylether	ND	ug/l	5	2	1	10/ 7/99	12:11	J Hollinan	8260B	4699
Chloroform	ND	ug/l	2	2	1	10/ 7/99	12:11	J Hollinan	8260B	4699
Chloromethane	ND	ug/l	2	2	1	10/ 7/99	12:11	J Hollinan	8260B	4699
2-Chlorotoluene	ND	ug/l	2	2	1	10/ 7/99	12:11	J Hollinan	8260B	4699
4-Chlorotoluene	ND	ug/l	2	2	1	10/ 7/99	12:11	J Hollinan	8260B	4699
1,2-Dibromo-3-chloropropane	ND	ug/l	10	10	1	10/ 7/99	12:11	J Hollinan	8260B	4699
Dibromochloromethane	ND	ug/l	2	2	1	10/ 7/99	12:11	J Hollinan	8260B	4699
1,2-Dibromoethane	ND	ug/l	2	2	1	10/ 7/99	12:11	J Hollinan	8260B	4699
Dibromomethane	ND	ug/l	2	2	1	10/ 7/99	12:11	J Hollinan	8260B	4699
1,4-Dichloro-2-butene	ND	ug/l	2	2	1	10/ 7/99	12:11	J Hollinan	8260B	4699
1,2-Dichlorobenzene	ND	ug/l	2	2	1	10/ 7/99	12:11	J Hollinan	8260B	4699
1,3-Dichlorobenzene	ND	ug/l	2	2	1	10/ 7/99	12:11	J Hollinan	8260B	4699
1,4-Dichlorobenzene	ND	ug/l	2	2	1	10/ 7/99	12:11	J Hollinan	8260B	4699
Dichlorodifluoromethane	ND	ug/l	2	2	1	10/ 7/99	12:11	J Hollinan	8260B	4699
1,1-Dichloroethane	ND	ug/l	2	2	1	10/ 7/99	12:11	J Hollinan	8260B	4699
1,2-Dichloroethane	ND	ug/l	2	2	1	10/ 7/99	12:11	J Hollinan	8260B	4699
1,1-Dichloroethene	ND	ug/l	2	2	1	10/ 7/99	12:11	J Hollinan	8260B	4699
cis-1,2-Dichloroethene	ND	ug/l	2	2	1	10/ 7/99	12:11	J Hollinan	8260B	4699
trans-1,2-Dichloroethene	ND	ug/l	2	2	1	10/ 7/99	12:11	J Hollinan	8260B	4699
1,2-Dichloropropane	ND	ug/l	2	2	1	10/ 7/99	12:11	J Hollinan	8260B	4699
1,3-Dichloropropane	ND	ug/l	2	2	1	10/ 7/99	12:11	J Hollinan	8260B	4699
2,2-Dichloropropane	ND	ug/l	2	2	1	10/ 7/99	12:11	J Hollinan	8260B	4699
1,1-Dichloropropene	ND	ug/l	2	2	1	10/ 7/99	12:11	J Hollinan	8260B	4699
cis-1,3-Dichloropropene	ND	ug/l	2	2	1	10/ 7/99	12:11	J Hollinan	8260B	4699
trans-1,3-Dichloropropene	ND	ug/l	2	2	1	10/ 7/99	12:11	J Hollinan	8260B	4699
Ethylbenzene	ND	ug/l	2	2	1	10/ 7/99	12:11	J Hollinan	8260B	4699
Hexachlorobutadiene	ND	ug/l	2	2	1	10/ 7/99	12:11	J Hollinan	8260B	4699
2-Hexanone	ND	ug/l	10	10	1	10/ 7/99	12:11	J Hollinan	8260B	4699
Iodomethane	ND	ug/l	2	2	1	10/ 7/99	12:11	J Hollinan	8260B	4699
Isopropylbenzene	ND	ug/l	2	2	1	10/ 7/99	12:11	J Hollinan	8260B	4699
4-Isopropyltoluene	ND	ug/l	2	2	1	10/ 7/99	12:11	J Hollinan	8260B	4699
Methyl methacrylate	ND	ug/l	5	5	1	10/ 7/99	12:11	S. Wani	8260B	8867
4-Methyl-2-pentanone	ND	ug/l	10	10	1	10/ 7/99	12:11	J Hollinan	8260B	4699
Methylene chloride	ND	ug/l	5	5	1	10/ 7/99	12:11	J Hollinan	8260B	4699
Naphthalene	ND	ug/l	2	2	1	10/ 7/99	12:11	J Hollinan	8260B	4699
n-Propylbenzene	ND	ug/l	2	2	1	10/ 7/99	12:11	J Hollinan	8260B	4699
Styrene	ND	ug/l	2	2	1	10/ 7/99	12:11	J Hollinan	8260B	4699
1,1,1,2-Tetrachloroethane	ND	ug/l	2	2	1	10/ 7/99	12:11	J Hollinan	8260B	4699
1,1,2,2-Tetrachloroethane	ND	ug/l	2	2	1	10/ 7/99	12:11	J Hollinan	8260B	4699
Tetrachloroethene	ND	ug/l	2	2	1	10/ 7/99	12:11	J Hollinan	8260B	4699
Toluene	ND	ug/l	2	2	1	10/ 7/99	12:11	J Hollinan	8260B	4699
1,2,3-Trichlorobenzene	ND	ug/l	2	2	1	10/ 7/99	12:11	J Hollinan	8260B	4699
1,2,4-Trichlorobenzene	ND	ug/l	2	2	1	10/ 7/99	12:11	J Hollinan	8260B	4699
1,1,1-Trichloroethane	ND	ug/l	2	2	1	10/ 7/99	12:11	J Hollinan	8260B	4699
1,1,2-Trichloroethane	ND	ug/l	2	2	1	10/ 7/99	12:11	J Hollinan	8260B	4699
Trichloroethene	ND	ug/l	2	2	1	10/ 7/99	12:11	J Hollinan	8260B	4699

SPECIALIZED ASSAYS, INC.
2960 Foster Creighton Dr.
P.O. Box 40566
Nashville, TN 37204-0566
Phone 1-615-726-0177

ANALYTICAL REPORT

Laboratory Number: 99-A151623
Sample ID: MAY-1490-DUP1-9-99

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Date	Time	Analyst	Method	Batch
1,2,3-Trichloropropane	ND	ug/l	2	2	1	10/ 7/99	12:11	J Hollinan	8260B	4699
1,2,4-Trimethylbenzene	ND	ug/l	2	2	1	10/ 7/99	12:11	J Hollinan	8260B	4699
1,3,5-Trimethylbenzene	ND	ug/l	2	2	1	10/ 7/99	12:11	J Hollinan	8260B	4699
Vinyl acetate	ND	ug/l	10	10	1	10/ 7/99	12:11	J Hollinan	8260B	4699
Vinyl chloride	ND	ug/l	2	2	1	10/ 7/99	12:11	J Hollinan	8260B	4699
Xylenes	ND	ug/l	2	2	1	10/ 7/99	12:11	J Hollinan	8260B	4699
Bromodichloromethane	ND	ug/l	2	2	1	10/ 7/99	12:11	J Hollinan	8260B	4699
Trichlorofluoromethane	ND	ug/l	2	2	1	10/ 7/99	12:11	J Hollinan	8260B	4699
Methyl-t-butyl ether	ND	ug/l	10	2	1	10/ 7/99	12:11	J Hollinan	8260B	4699
METALS										
Arsenic, Total	ND	mg/l	0.0050	0.0050	1	10/ 6/99	7:25	G.Robinson	6010B	4547
Barium, Total	0.0190	mg/l	0.0100	0.0100	1	10/ 6/99	7:25	G.Robinson	6010B	4547
Cadmium	ND	mg/l	0.0010	0.0010	1	10/ 6/99	7:25	G.Robinson	6010B	4547
Chromium, Total	ND	mg/l	0.0050	0.0050	1	10/ 6/99	7:25	G.Robinson	6010B	4547
Lead	ND	mg/l	0.0030	0.0030	1	10/ 6/99	7:25	G.Robinson	6010B	4547
Mercury, Total	ND	mg/l	0.00020	0.00020	1	10/ 6/99	7:49	G.McCord	7470	4670
Selenium, Total	ND	mg/l	0.0050	0.0050	1	10/ 6/99	7:25	G.Robinson	6010B	4547
Silver, Total	ND	mg/l	0.0050	0.0050	1	10/ 6/99	7:25	G.Robinson	6010B	4547

ND = Not detected at the report limit.

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Analyst	Method
PAH's	960. ml	1.00 ml	10/ 4/99	Fitzwater	3510
Fla Pro	970. ml	2.0 ml	10/ 6/99	Fitzwater	FDEP

Surrogate	% Recovery	Target Range
Fla Pro Surr., D-Terpheagl	81. %	82. - 142.
Fla Pro Surr., C-35 Hydrocarbon	82.	55. - 118.
VOA Surr, 1,2-DCA, d4	97.	60. - 138.
VOA Surr, Toluene d8	86.	80. - 123.
VOA Surr, 4-BFB	98.	73. - 122.
VOA Surr, DBFM	108.	74. - 133.
PAH Surr., p-terpheagl d14	106.	20. - 140.

COPY 3

SPECIALIZED ASSAYS, INC.

2960 Foster Creighton Dr.
P.O. Box 40566
Nashville, TN 37204-0566
Phone 1-615-726-0177

ANALYTICAL REPORT

Laboratory Number: 99-A151623
Sample ID: MAY-1490-DUP1-9-99

These results relate only to the items tested.
This report shall not be reproduced except in full and with permission of the laboratory.

Report Approved By: _____ Report Date: 10/11/99

Theodore J. Duello, Ph.D., Lab Director
Michael H. Dunn, M.S., Technical Director
Johnny A. Mitchell, Dir. Technical Services
Eric Smith, Assistant Technical Director
Gail A Lage, Technical Services

Laboratory Certification Number: HRS-E87358

SPECIALIZED ASSAYS, INC.
2960 Foster Creighton Dr.
P.O. Box 40566
Nashville, TN 37204-0566
Phone 1-615-726-0177

ANALYTICAL REPORT

USACE-SAVANNAH DISTRICT 8995
MARK HARVISON
100 WEST OGLETHORPE AVE
SAVANNAH, GA 31402

Lab Number: 99-A151624
Sample ID: MAY-1490-BLK1-9-99
Sample Type: Ground water
Site ID:

Date Collected: 10/ 1/99
Time Collected: 17:10
Date Received: 10/ 2/99
Time Received: 9:00

Project: DO #210
Project Name: SITE 1490 MAYPORT
Sampler: JUDSON SMITH

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Date	Time	Analyst	Method	Batch
INORGANIC PARAMETERS										
TRPH	ND	ug/l	204.	100.	1	10/ 8/99	3:56	J.Saigasak	FPRO	7521
Naphthalene	ND	ug/l	1.03	1.00	1	10/ 8/99	8:45	Moorbakhsh	8310	7721
Acenapthene	ND	ug/l	1.03	1.00	1	10/ 8/99	8:45	Moorbakhsh	8310	7721
Anthracene	ND	ug/l	0.68	0.66	1	10/ 8/99	8:45	Moorbakhsh	8310	7721
Fluoranthene	ND	ug/l	0.22	0.21	1	10/ 8/99	8:45	Moorbakhsh	8310	7721
Fluorene	ND	ug/l	0.22	0.21	1	10/ 8/99	8:45	Moorbakhsh	8310	7721
Pyrene	ND	ug/l	0.28	0.27	1	10/ 8/99	8:45	Moorbakhsh	8310	7721
Benzo(a)anthracene	ND	ug/l	0.13	0.13	1	10/ 8/99	8:45	Moorbakhsh	8310	7721
Benzo(a)pyrene	ND	ug/l	0.10	0.10	1	10/ 8/99	8:45	Moorbakhsh	8310	7721
Benzo(b)fluoranthene	ND	ug/l	0.19	0.18	1	10/ 8/99	8:45	Moorbakhsh	8310	7721
Benzo(k)fluoranthene	ND	ug/l	0.18	0.17	1	10/ 8/99	8:45	Moorbakhsh	8310	7721
Chrysene	ND	ug/l	0.15	0.15	1	10/ 8/99	8:45	Moorbakhsh	8310	7721
Dibenzo(a,h)anthracene	ND	ug/l	0.31	0.30	1	10/ 8/99	8:45	Moorbakhsh	8310	7721
Indeno(1,2,3-cd)pyrene	ND	ug/l	0.44	0.43	1	10/ 8/99	8:45	Moorbakhsh	8310	7721
Acenaphthylene	ND	ug/l	2.06	2.00	1	10/ 8/99	8:45	Moorbakhsh	8310	7721
Benzo(g,h,i)perylene	ND	ug/l	0.78	0.76	1	10/ 8/99	8:45	Moorbakhsh	8310	7721
Phenanthrene	ND	ug/l	0.66	0.64	1	10/ 8/99	8:45	Moorbakhsh	8310	7721
1-Methylnapthalene	ND	ug/l	2.06	2.00	1	10/ 8/99	8:45	Moorbakhsh	8310	7721
2-Methylnapthalene	ND	ug/l	2.06	2.00	1	10/ 8/99	8:45	Moorbakhsh	8310	7721
VOLATILE ORGANICS										
Acetone	ND	ug/l	10	10	1	10/ 7/99	17:10	J Holliman	8260B	4699
Acrolein	ND	ug/l	10	10	1	10/ 7/99	17:10	J Holliman	8260B	4699
Acrylonitrile	ND	ug/l	10	10	1	10/ 7/99	17:10	J Holliman	8260B	4699
Benzene	ND	ug/l	1	1	1	10/ 7/99	17:10	J Holliman	8260B	4699
Bromobenzene	ND	ug/l	2	2	1	10/ 7/99	17:10	J Holliman	8260B	4699
Bromochloromethane	ND	ug/l	2	2	1	10/ 7/99	17:10	J Holliman	8260B	4699
Bromoform	ND	ug/l	2	2	1	10/ 7/99	17:10	J Holliman	8260B	4699
Bromomethane	ND	ug/l	2	2	1	10/ 7/99	17:10	J Holliman	8260B	4699
2-Butanone	ND	ug/l	10	10	1	10/ 7/99	17:10	J Holliman	8260B	4699
n-Butylbenzene	ND	ug/l	2	2	1	10/ 7/99	17:10	J Holliman	8260B	4699
sec-Butylbenzene	ND	ug/l	2	2	1	10/ 7/99	17:10	J Holliman	8260B	4699
t-Butylbenzene	ND	ug/l	2	2	1	10/ 7/99	17:10	J Holliman	8260B	4699
Carbon disulfide	ND	ug/l	2	2	1	10/ 7/99	17:10	J Holliman	8260B	4699
Carbon tetrachloride	ND	ug/l	2	2	1	10/ 7/99	17:10	J Holliman	8260B	4699
Chlorobenzene	ND	ug/l	2	2	1	10/ 7/99	17:10	J Holliman	8260B	4699
Chloroethane	ND	ug/l	2	2	1	10/ 7/99	17:10	J Holliman	8260B	4699

COPY 3

SPECIALIZED ASSAYS, INC.
2960 Foster Creighton Dr.
P.O. Box 40566
Nashville, TN 37204-0566
Phone 1-615-726-0177

ANALYTICAL REPORT

Laboratory Number: 99-A151624
Sample ID: MAY-1490-BLK1-9-99

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Date	Time	Analyst	Method	Batch
2-Chloroethylvinylether	ND	ug/l	5	2	1	10/ 7/99	17:10	J Hollinan	8260B	4699
Chloroform	ND	ug/l	2	2	1	10/ 7/99	17:10	J Hollinan	8260B	4699
Chloromethane	ND	ug/l	2	2	1	10/ 7/99	17:10	J Hollinan	8260B	4699
2-Chlorotoluene	ND	ug/l	2	2	1	10/ 7/99	17:10	J Hollinan	8260B	4699
4-Chlorotoluene	ND	ug/l	2	2	1	10/ 7/99	17:10	J Hollinan	8260B	4699
1,2-Dibromo-3-chloropropane	ND	ug/l	10	10	1	10/ 7/99	17:10	J Hollinan	8260B	4699
Dibromochloromethane	ND	ug/l	2	2	1	10/ 7/99	17:10	J Hollinan	8260B	4699
1,2-Dibromoethane	ND	ug/l	2	2	1	10/ 7/99	17:10	J Hollinan	8260B	4699
Dibromomethane	ND	ug/l	2	2	1	10/ 7/99	17:10	J Hollinan	8260B	4699
1,4-Dichloro-2-butene	ND	ug/l	2	2	1	10/ 7/99	17:10	J Hollinan	8260B	4699
1,2-Dichlorobenzene	ND	ug/l	2	2	1	10/ 7/99	17:10	J Hollinan	8260B	4699
1,3-Dichlorobenzene	ND	ug/l	2	2	1	10/ 7/99	17:10	J Hollinan	8260B	4699
1,4-Dichlorobenzene	ND	ug/l	2	2	1	10/ 7/99	17:10	J Hollinan	8260B	4699
Dichlorodifluoromethane	ND	ug/l	2	2	1	10/ 7/99	17:10	J Hollinan	8260B	4699
1,1-Dichloroethane	ND	ug/l	2	2	1	10/ 7/99	17:10	J Hollinan	8260B	4699
1,2-Dichloroethane	ND	ug/l	2	2	1	10/ 7/99	17:10	J Hollinan	8260B	4699
1,1-Dichloroethene	ND	ug/l	2	2	1	10/ 7/99	17:10	J Hollinan	8260B	4699
cis-1,2-Dichloroethene	ND	ug/l	2	2	1	10/ 7/99	17:10	J Hollinan	8260B	4699
trans-1,2-Dichloroethene	ND	ug/l	2	2	1	10/ 7/99	17:10	J Hollinan	8260B	4699
1,2-Dichloropropane	ND	ug/l	2	2	1	10/ 7/99	17:10	J Hollinan	8260B	4699
1,3-Dichloropropane	ND	ug/l	2	2	1	10/ 7/99	17:10	J Hollinan	8260B	4699
2,2-Dichloropropane	ND	ug/l	2	2	1	10/ 7/99	17:10	J Hollinan	8260B	4699
1,1-Dichloropropene	ND	ug/l	2	2	1	10/ 7/99	17:10	J Hollinan	8260B	4699
cis-1,3-Dichloropropene	ND	ug/l	2	2	1	10/ 7/99	17:10	J Hollinan	8260B	4699
trans-1,3-Dichloropropene	ND	ug/l	2	2	1	10/ 7/99	17:10	J Hollinan	8260B	4699
Ethylbenzene	ND	ug/l	2	2	1	10/ 7/99	17:10	J Hollinan	8260B	4699
Hexachlorobutadiene	ND	ug/l	2	2	1	10/ 7/99	17:10	J Hollinan	8260B	4699
2-Hexanone	ND	ug/l	10	10	1	10/ 7/99	17:10	J Hollinan	8260B	4699
Iodomethane	ND	ug/l	2	2	1	10/ 7/99	17:10	J Hollinan	8260B	4699
Isopropylbenzene	ND	ug/l	2	2	1	10/ 7/99	17:10	J Hollinan	8260B	4699
4-Isopropyltoluene	ND	ug/l	2	2	1	10/ 7/99	17:10	J Hollinan	8260B	4699
Methyl methacrylate	ND	ug/l	5	5	1	10/ 7/99	17:10	S. Nami	8260B	8867
4-Methyl-2-pentanone	ND	ug/l	10	10	1	10/ 7/99	17:10	J Hollinan	8260B	4699
Methylene chloride	ND	ug/l	5	5	1	10/ 7/99	17:10	J Hollinan	8260B	4699
Naphthalene	ND	ug/l	2	2	1	10/ 7/99	17:10	J Hollinan	8260B	4699
n-Propylbenzene	ND	ug/l	2	2	1	10/ 7/99	17:10	J Hollinan	8260B	4699
Styrene	ND	ug/l	2	2	1	10/ 7/99	17:10	J Hollinan	8260B	4699
1,1,1,2-Tetrachloroethane	ND	ug/l	2	2	1	10/ 7/99	17:10	J Hollinan	8260B	4699
1,1,2,2-Tetrachloroethane	ND	ug/l	2	2	1	10/ 7/99	17:10	J Hollinan	8260B	4699
Tetrachloroethene	ND	ug/l	2	2	1	10/ 7/99	17:10	J Hollinan	8260B	4699
Toluene	ND	ug/l	2	2	1	10/ 7/99	17:10	J Hollinan	8260B	4699
1,2,3-Trichlorobenzene	ND	ug/l	2	2	1	10/ 7/99	17:10	J Hollinan	8260B	4699
1,2,4-Trichlorobenzene	ND	ug/l	2	2	1	10/ 7/99	17:10	J Hollinan	8260B	4699
1,1,1-Trichloroethane	ND	ug/l	2	2	1	10/ 7/99	17:10	J Hollinan	8260B	4699
1,1,2-Trichloroethane	ND	ug/l	2	2	1	10/ 7/99	17:10	J Hollinan	8260B	4699
Trichloroethene	ND	ug/l	2	2	1	10/ 7/99	17:10	J Hollinan	8260B	4699

SPECIALIZED ASSAYS, INC.
2960 Foster Creighton Dr.
P.O. Box 40566
Nashville, TN 37204-0566
Phone 1-615-726-0177

ANALYTICAL REPORT

Laboratory Number: 99-A131624
Sample ID: MAY-1490-BLK1-9-99

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Date	Time	Analyst	Method	Batch
1,2,3-Trichloropropane	ND	ug/l	2	2	1	10/ 7/99	17:10	J Hollinan	8260B	4699
1,2,4-Trimethylbenzene	ND	ug/l	2	2	1	10/ 7/99	17:10	J Hollinan	8260B	4699
1,3,5-Trimethylbenzene	ND	ug/l	2	2	1	10/ 7/99	17:10	J Hollinan	8260B	4699
Vinyl acetate	ND	ug/l	10	10	1	10/ 7/99	17:10	J Hollinan	8260B	4699
Vinyl chloride	ND	ug/l	2	2	1	10/ 7/99	17:10	J Hollinan	8260B	4699
Xylenes	ND	ug/l	2	2	1	10/ 7/99	17:10	J Hollinan	8260B	4699
Bromodichloromethane	ND	ug/l	2	2	1	10/ 7/99	17:10	J Hollinan	8260B	4699
Trichlorofluoromethane	ND	ug/l	2	2	1	10/ 7/99	17:10	J Hollinan	8260B	4699
Methyl-t-butyl ether	ND	ug/l	10	2	1	10/ 7/99	17:10	J Hollinan	8260B	4699
METALS:										
Arsenic, Total	ND	mg/l	0.0050	0.0050	1	10/ 6/99	7:25	G.Robinson	6010B	4547
Barium, Total	ND	mg/l	0.0100	0.0100	1	10/ 6/99	7:25	G.Robinson	6010B	4547
Cadmium	ND	mg/l	0.0010	0.0010	1	10/ 6/99	7:25	G.Robinson	6010B	4547
Chromium, Total	ND	mg/l	0.0050	0.0050	1	10/ 6/99	7:25	G.Robinson	6010B	4547
Lead	ND	mg/l	0.0030	0.0030	1	10/ 6/99	7:25	G.Robinson	6010B	4547
Mercury, Total	ND	mg/l	0.00020	0.00020	1	10/ 6/99	7:49	G.McCord	7470	4670
Selenium, Total	ND	mg/l	0.0050	0.0050	1	10/ 6/99	7:25	G.Robinson	6010B	4547
Silver, Total	ND	mg/l	0.0050	0.0050	1	10/ 6/99	7:25	G.Robinson	6010B	4547

PAH HPLC LCS compounds outside reported QC ranges,
but within historical limits
Volatile LCS compounds outside reported QC ranges,
but within historical limits

ND = Not detected at the report limit.

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Analyst	Method
PAH's	970. ml	1.00 ml	10/ 4/99	Fitzwater	3510
Fla Pro	980. ml	2.0 ml	10/ 6/99	Fitzwater	FDEP

Surrogate	% Recovery	Target Range
Fla Pro Surr., D-Terphenyl	84.	82. - 142.
Fla Pro Surr., C-35 Hydrocarbon	85.	55. - 118.
VOA Surr, 1,2-DCB, d4	100.	60. - 138.
VOA Surr, Toluene d8	84.	80. - 123.

COPY 3

SPECIALIZED ASSAYS, INC.
2960 Foster Creighton Dr.
P.O. Box 40566
Nashville, TN 37204-0566
Phone 1-615-726-0177

ANALYTICAL REPORT

Laboratory Number: 99-A151624
Sample ID: MAY-1490-BLK1-9-99

Surrogate	% Recovery	Target Range
BNA Surr, 4-NFB	98.	73. - 122.
BNA Surr, DBFN	109.	74. - 133.
PAH Surr., p-terphenyl d14	106.	20. - 140.

These results relate only to the items tested.
This report shall not be reproduced except in full and with permission of the laboratory.

Report Approved By: _____ Report Date: 10/11/99

Theodore J. Duello, Ph.D., Lab Director
Michael H. Dunn, M.S., Technical Director
Johnny A. Mitchell, Dir. Technical Services
Eric Smith, Assistant Technical Director
Gail A Lage, Technical Services

Laboratory Certification Number: HRS-E87358

SPECIALIZED ASSAYS, INC.
2960 Foster Creighton Dr.
P.O. Box 40566
Nashville, TN 37204-0566
Phone 1-615-726-0177

ANALYTICAL REPORT

USACE-SAVANNAH DISTRICT 8995
MARK HARVISON
100 WEST OGLETHORPE AVE
SAVANNAH, GA 31402

Lab Number: 99-A151625
Sample ID: TRIP BLANK
Sample Type: Ground water
Site ID:

Date Collected:
Time Collected:
Date Received: 10/ 2/99
Time Received: 9:00

Project: DO #210
Project Name: SITE 1490 MAYPORT
Sampler: JUDSON SMITH

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Date	Time	Analyst	Method	Batch
VOLATILE ORGANICS										
Acetone	ND	ug/l	10	10	1	10/ 7/99	17:50	J Hollinan	8260B	4699
Acrolein	ND	ug/l	10	10	1	10/ 7/99	17:50	J Hollinan	8260B	4699
Acrylonitrile	ND	ug/l	10	10	1	10/ 7/99	17:50	J Hollinan	8260B	4699
Benzene	ND	ug/l	1	1	1	10/ 7/99	17:50	J Hollinan	8260B	4699
Bromobenzene	ND	ug/l	2	2	1	10/ 7/99	17:50	J Hollinan	8260B	4699
Bromochloromethane	ND	ug/l	2	2	1	10/ 7/99	17:50	J Hollinan	8260B	4699
Bromoform	ND	ug/l	2	2	1	10/ 7/99	17:50	J Hollinan	8260B	4699
Bromomethane	ND	ug/l	2	2	1	10/ 7/99	17:50	J Hollinan	8260B	4699
2-Butanone	ND	ug/l	10	10	1	10/ 7/99	17:50	J Hollinan	8260B	4699
n-Butylbenzene	ND	ug/l	2	2	1	10/ 7/99	17:50	J Hollinan	8260B	4699
sec-Butylbenzene	ND	ug/l	2	2	1	10/ 7/99	17:50	J Hollinan	8260B	4699
t-Butylbenzene	ND	ug/l	2	2	1	10/ 7/99	17:50	J Hollinan	8260B	4699
Carbon disulfide	ND	ug/l	2	2	1	10/ 7/99	17:50	J Hollinan	8260B	4699
Carbon tetrachloride	ND	ug/l	2	2	1	10/ 7/99	17:50	J Hollinan	8260B	4699
Chlorobenzene	ND	ug/l	2	2	1	10/ 7/99	17:50	J Hollinan	8260B	4699
Chloroethane	ND	ug/l	2	2	1	10/ 7/99	17:50	J Hollinan	8260B	4699
2-Chloroethylvinylether	ND	ug/l	3	2	1	10/ 7/99	17:50	J Hollinan	8260B	4699
Chloroform	ND	ug/l	2	2	1	10/ 7/99	17:50	J Hollinan	8260B	4699
Chloromethane	ND	ug/l	2	2	1	10/ 7/99	17:50	J Hollinan	8260B	4699
2-Chlorotoluene	ND	ug/l	2	2	1	10/ 7/99	17:50	J Hollinan	8260B	4699
4-Chlorotoluene	ND	ug/l	2	2	1	10/ 7/99	17:50	J Hollinan	8260B	4699
1,2-Dibromo-3-chloropropane	ND	ug/l	10	10	1	10/ 7/99	17:50	J Hollinan	8260B	4699
Dibromochloromethane	ND	ug/l	2	2	1	10/ 7/99	17:50	J Hollinan	8260B	4699
1,2-Dibromoethane	ND	ug/l	2	2	1	10/ 7/99	17:50	J Hollinan	8260B	4699
Dibromomethane	ND	ug/l	2	2	1	10/ 7/99	17:50	J Hollinan	8260B	4699
1,4-Dichloro-2-butene	ND	ug/l	2	2	1	10/ 7/99	17:50	J Hollinan	8260B	4699
1,2-Dichlorobenzene	ND	ug/l	2	2	1	10/ 7/99	17:50	J Hollinan	8260B	4699
1,3-Dichlorobenzene	ND	ug/l	2	2	1	10/ 7/99	17:50	J Hollinan	8260B	4699
1,4-Dichlorobenzene	ND	ug/l	2	2	1	10/ 7/99	17:50	J Hollinan	8260B	4699
Dichlorodifluoromethane	ND	ug/l	2	2	1	10/ 7/99	17:50	J Hollinan	8260B	4699
1,1-Dichloroethane	ND	ug/l	2	2	1	10/ 7/99	17:50	J Hollinan	8260B	4699
1,2-Dichloroethane	ND	ug/l	2	2	1	10/ 7/99	17:50	J Hollinan	8260B	4699
1,1-Dichloroethene	ND	ug/l	2	2	1	10/ 7/99	17:50	J Hollinan	8260B	4699
cis-1,2-Dichloroethene	ND	ug/l	2	2	1	10/ 7/99	17:50	J Hollinan	8260B	4699
trans-1,2-Dichloroethene	ND	ug/l	2	2	1	10/ 7/99	17:50	J Hollinan	8260B	4699
1,2-Dichloropropane	ND	ug/l	2	2	1	10/ 7/99	17:50	J Hollinan	8260B	4699
1,3-Dichloropropane	ND	ug/l	2	2	1	10/ 7/99	17:50	J Hollinan	8260B	4699

SPECIALIZED ASSAYS, INC.
2960 Foster Creighton Dr.
P.O. Box 40566
Nashville, TN 37204-0566
Phone 1-615-726-0177

ANALYTICAL REPORT

Laboratory Number: 99-A151625
Sample ID: TRIP BLANK

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Date	Time	Analyst	Method	Batch
2,2-Dichloropropane	ND	ug/l	2	2	1	10/ 7/99	17:50	J Hollinan	8260B	4699
1,1-Dichloropropene	ND	ug/l	2	2	1	10/ 7/99	17:50	J Hollinan	8260B	4699
cis-1,3-Dichloropropene	ND	ug/l	2	2	1	10/ 7/99	17:50	J Hollinan	8260B	4699
trans-1,3-Dichloropropene	ND	ug/l	2	2	1	10/ 7/99	17:50	J Hollinan	8260B	4699
Ethylbenzene	ND	ug/l	2	2	1	10/ 7/99	17:50	J Hollinan	8260B	4699
Hexachlorobutadiene	ND	ug/l	2	2	1	10/ 7/99	17:50	J Hollinan	8260B	4699
2-Hexanone	ND	ug/l	10	10	1	10/ 7/99	17:50	J Hollinan	8260B	4699
Iodomethane	ND	ug/l	2	2	1	10/ 7/99	17:50	J Hollinan	8260B	4699
Isopropylbenzene	ND	ug/l	2	2	1	10/ 7/99	17:50	J Hollinan	8260B	4699
4-Isopropyltoluene	ND	ug/l	2	2	1	10/ 7/99	17:50	J Hollinan	8260B	4699
Methyl methacrylate	ND	ug/l	5	5	1	10/ 7/99	17:50	S. Wani	8260B	8867
4-Methyl-2-pentanone	ND	ug/l	10	10	1	10/ 7/99	17:50	J Hollinan	8260B	4699
Methylene chloride	ND	ug/l	5	5	1	10/ 7/99	17:50	J Hollinan	8260B	4699
Naphthalene	ND	ug/l	2	2	1	10/ 7/99	17:50	J Hollinan	8260B	4699
n-Propylbenzene	ND	ug/l	2	2	1	10/ 7/99	17:50	J Hollinan	8260B	4699
Styrene	ND	ug/l	2	2	1	10/ 7/99	17:50	J Hollinan	8260B	4699
1,1,1,2-Tetrachloroethane	ND	ug/l	2	2	1	10/ 7/99	17:50	J Hollinan	8260B	4699
1,1,2,2-Tetrachloroethane	ND	ug/l	2	2	1	10/ 7/99	17:50	J Hollinan	8260B	4699
Tetrachloroethene	ND	ug/l	2	2	1	10/ 7/99	17:50	J Hollinan	8260B	4699
Toluene	ND	ug/l	2	2	1	10/ 7/99	17:50	J Hollinan	8260B	4699
1,2,3-Trichlorobenzene	ND	ug/l	2	2	1	10/ 7/99	17:50	J Hollinan	8260B	4699
1,2,4-Trichlorobenzene	ND	ug/l	2	2	1	10/ 7/99	17:50	J Hollinan	8260B	4699
1,1,1-Trichloroethane	ND	ug/l	2	2	1	10/ 7/99	17:50	J Hollinan	8260B	4699
1,1,2-Trichloroethane	ND	ug/l	2	2	1	10/ 7/99	17:50	J Hollinan	8260B	4699
Trichloroethene	ND	ug/l	2	2	1	10/ 7/99	17:50	J Hollinan	8260B	4699
1,2,3-Trichloropropane	ND	ug/l	2	2	1	10/ 7/99	17:50	J Hollinan	8260B	4699
1,2,4-Trimethylbenzene	ND	ug/l	2	2	1	10/ 7/99	17:50	J Hollinan	8260B	4699
1,3,5-Trimethylbenzene	ND	ug/l	2	2	1	10/ 7/99	17:50	J Hollinan	8260B	4699
Vinyl acetate	ND	ug/l	10	10	1	10/ 7/99	17:50	J Hollinan	8260B	4699
Vinyl chloride	ND	ug/l	2	2	1	10/ 7/99	17:50	J Hollinan	8260B	4699
Xylenes	ND	ug/l	2	2	1	10/ 7/99	17:50	J Hollinan	8260B	4699
Bromodichloromethane	ND	ug/l	2	2	1	10/ 7/99	17:50	J Hollinan	8260B	4699
Trichlorofluoromethane	ND	ug/l	2	2	1	10/ 7/99	17:50	J Hollinan	8260B	4699
Methyl-t-butyl ether	ND	ug/l	10	2	1	10/ 7/99	17:50	J Hollinan	8260B	4699

ND = Not detected at the report limit.

Surrogate	% Recovery	Target Range
VOA Surr, 1,2-DCA, d4	103.	60. - 138.
VOA Surr, Toluene d8	85.	80. - 123.
VOA Surr, 4-BFB	96.	73. - 122.
VOA Surr, DBFM	115.	74. - 133.

COPY 3

SPECIALIZED ASSAYS, INC.
2960 Foster Creighton Dr.
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Phone 1-615-726-0177

ANALYTICAL REPORT

Laboratory Number: 99-A151625
Sample ID: TRIP BLANK

These results relate only to the items tested.
This report shall not be reproduced except in full and with permission of the laboratory.

Report Approved By: _____ Report Date: 10/11/99

Theodore J. Duello, Ph.D., Lab Director
Michael H. Dunn, M.S., Technical Director
Johnny A. Mitchell, Dir. Technical Services
Eric Smith, Assistant Technical Director
Gail A Lage, Technical Services

Laboratory Certification Number: HRS-E87358

SPECIALIZED ASSAYS, INC.
2960 Foster Creighton Dr.
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PROJECT QUALITY CONTROL DATA

Matrix Spike Recovery

Analyte	Units	Orig. Val.	MS Val	Spike Conc	Recovery	Target Range	Q.C. Batch
TRPH	mg/l	< 0.10	0.36	0.42	86	55. - 118.	7521
Naphthalene	mg/l	< 0.00100	0.00590	0.0100	59	55. - 115.	7721
Acenapthene	mg/l	< 0.00100	0.00320	0.0100	32*	41. - 108.	7721
Anthracene	mg/l	< 0.00066	0.00520	0.0100	52	25. - 119.	7721
Fluoranthene	mg/l	< 0.00021	0.00680	0.0100	68	42. - 120.	7721
Fluorene	mg/l	< 0.00021	0.00430	0.0100	43*	48. - 118.	7721
Pyrene	mg/l	< 0.00027	0.00530	0.0100	53	51. - 114.	7721
Benzo(a)anthracene	mg/l	< 0.00013	0.00690	0.0100	69	47. - 111.	7721
Benzo(a)pyrene	mg/l	< 0.00010	0.00870	0.0100	87	51. - 109.	7721
Benzo(b)Fluoranthene	mg/l	< 0.00018	0.00680	0.0100	68	62. - 115.	7721
Benzo(k)fluoranthene	mg/l	< 0.00017	0.00720	0.0100	72	62. - 110.	7721
Chrysene	mg/l	< 0.00015	0.00690	0.0100	69	58. - 109.	7721
Dibenzo(a,h)anthracene	mg/l	< 0.00030	0.00720	0.0100	72	59. - 122.	7721
Indeno(1,2,3-cd)pyrene	mg/l	< 0.00043	0.00700	0.0100	70	56. - 114.	7721
Acenaphthylene	mg/l	< 0.00200	0.00220	0.0100	22*	30. - 128.	7721
Benzo(g,h,i)perylene	mg/l	< 0.00076	0.00750	0.0100	75	56. - 115.	7721
Phenanthrene	mg/l	< 0.00064	0.00500	0.0100	50	47. - 123.	7721
Benzene	mg/l	< 0.0020	0.0454	0.0500	91	66. - 135.	4699
Chlorobenzene	mg/l	< 0.0020	0.0514	0.0500	103	68. - 134.	4699
1,1-Dichloroethene	mg/l	< 0.0020	0.0492	0.0500	98	59. - 144.	4699
Toluene	mg/l	< 0.0020	0.0462	0.0500	92	55. - 151.	4699
Trichloroethene	mg/l	< 0.0020	0.0497	0.0500	99	54. - 153.	4699
Arsenic, Total	mg/l	< 0.0050	0.0600	0.0500	120*	80 - 120	4547
Barium, Total	mg/l	0.0900	2.180	2.000	104	80 - 120	4547
Cadmium	mg/l	< 0.0010	0.0520	0.0500	104	80 - 120	4547
Chromium, Total	mg/l	< 0.0050	0.2010	0.2000	100	80 - 120	4547
Lead	mg/l	< 0.0030	0.0490	0.0500	98	80 - 120	4547
Mercury, Total	mg/l	< 0.00020	0.00100	0.00100	100	80 - 120	4670
Selenium, Total	mg/l	< 0.0050	0.0560	0.0500	112	80 - 120	4547
Silver, Total	mg/l	< 0.0050	0.0560	0.0500	112	80 - 120	4547

Matrix Spike Duplicate

Analyte	Units	Orig. Val.	Duplicate	RPD	Limit	Q.C. Batch
TRPH	mg/l	0.36	0.35	2.82	20.	7521
Naphthalene	mg/l	0.00590	0.00770	26.47*	23.	7721
Acenapthene	mg/l	0.00320	0.00450	33.77*	23.	7721
Anthracene	mg/l	0.00520	0.00620	17.54	27.	7721
Fluoranthene	mg/l	0.00680	0.00760	11.11	18.	7721
Fluorene	mg/l	0.00430	0.00530	20.83	27.	7721
Pyrene	mg/l	0.00530	0.00610	14.04	18.	7721
Benzo(a)anthracene	mg/l	0.00690	0.00770	10.96	21.	7721
Benzo(a)pyrene	mg/l	0.00870	0.00990	12.90	26.	7721
Benzo(b)fluoranthene	mg/l	0.00680	0.00760	11.11	23.	7721
Benzo(k)fluoranthene	mg/l	0.00720	0.00820	12.99	19.	7721

COPY 3

SPECIALIZED ASSAYS, INC.

2960 Foster Creighton Dr.
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PROJECT QUALITY CONTROL DATA

Matrix Spike Duplicate

Analyte	Units	Orig. Val.	Duplicate	RPD	Limit	Q.C. Batch
Chrysene	mg/l	0.00690	0.00790	13.51	17.	7721
Dibenzo(a,h)anthracene	mg/l	0.00720	0.00790	9.27	28.	7721
Indeno(1,2,3-cd)pyrene	mg/l	0.00700	0.00760	8.22	28.	7721
Acenaphthylene	mg/l	0.00220	0.00380	53.33#	27.	7721
Benzo(g,h,i)perylene	mg/l	0.00750	0.00890	17.07	31.	7721
Phenanthrene	mg/l	0.00500	0.00600	18.18#	18.	7721
Benzene	mg/l	0.0454	0.0470	3.46	18.	4699
Chlorobenzene	mg/l	0.0514	0.0514	0.00	20.	4699
1,1-Dichloroethene	mg/l	0.0492	0.0501	1.81	52.	4699
Toluene	mg/l	0.0462	0.0477	3.19	22.	4699
Trichloroethene	mg/l	0.0497	0.0521	4.72	18.	4699
Arsenic, Total	mg/l	0.0600	0.0570	5.13	20	4547
Barium, Total	mg/l	2.180	2.120	2.79	20	4547
Cadmium	mg/l	0.0520	0.0500	3.92	20	4547
Chromium, Total	mg/l	0.2010	0.1940	3.54	20	4547
Lead	mg/l	0.0490	0.0480	2.06	20	4547
Mercury, Total	mg/l	0.00100	0.00086	15.05	20	4670
Selenium, Total	mg/l	0.0560	0.0520	7.41	20	4547
Silver, Total	mg/l	0.0560	0.0550	1.80	20	4547

Laboratory Control Data

Analyte	Units	Known Val.	Analyzed Val	% Recovery	Target Range	Q.C. Batch
TRPH	mg/l	0.42	0.35	83	70 - 130	7521
Naphthalene	mg/l	0.0100	0.0107	107	60 - 140	7721
Acenapthene	mg/l	0.0100	0.00850	85	60 - 140	7721
Anthracene	mg/l	0.0100	0.00820	82	60 - 140	7721
Fluoranthene	mg/l	0.0100	0.00760	76	60 - 140	7721
Fluorene	mg/l	0.0100	0.00540	54 *	60 - 140	7721
Pyrene	mg/l	0.0100	0.00610	61	60 - 140	7721
Benzo(a)anthracene	mg/l	0.0100	0.00750	75	60 - 140	7721
Benzo(a)pyrene	mg/l	0.0100	0.00680	68	60 - 140	7721
Benzo(b)Fluoranthene	mg/l	0.0100	0.00770	77	60 - 140	7721
Benzo(k)fluoranthene	mg/l	0.0100	0.00820	82	60 - 140	7721
Chrysene	mg/l	0.0100	0.00780	78	60 - 140	7721
Dibenzo(a,h)anthracene	mg/l	0.0100	0.00760	76	60 - 140	7721
Indeno(1,2,3-cd)pyrene	mg/l	0.0100	0.00740	74	60 - 140	7721
Acenaphthylene	mg/l	0.0100	0.00960	96	60 - 140	7721
Benzo(g,h,i)perylene	mg/l	0.0100	0.00870	87	60 - 140	7721
Phenanthrene	mg/l	0.0100	0.00600	60	60 - 140	7721
Acetone	mg/l	0.2500	0.2490	100	70 - 130	4699
Acrolein	mg/l	0.2500	0.1800	72	70 - 130	4699
Acrylonitrile	mg/l	0.2500	0.2340	94	70 - 130	4699
Benzene	mg/l	0.0500	0.0473	95	70 - 130	4699
Bromobenzene	mg/l	0.0500	0.0543	109	70 - 130	4699

COPY 3

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PROJECT QUALITY CONTROL DATA

Laboratory Control Data

Analyte	Units	Known Val.	Analyzed Val	% Recovery	Target Range	R.C. Batch
Bromochloromethane	ug/l	0.0500	0.0512	102	70 - 130	4699
Bromoform	ug/l	0.0500	0.0568	114	70 - 130	4699
Bromomethane	ug/l	0.0500	0.0413	83	70 - 130	4699
2-Butanone	ug/l	0.2500	0.2500	100	70 - 130	4699
n-Butylbenzene	ug/l	0.0500	0.0536	107	70 - 130	4699
sec-Butylbenzene	ug/l	0.0500	0.0551	110	70 - 130	4699
t-Butylbenzene	ug/l	0.0500	0.0562	112	70 - 130	4699
Carbon disulfide	ug/l	0.0500	0.0499	100	70 - 130	4699
Carbon tetrachloride	ug/l	0.05000	0.06190	124	70 - 130	4699
Chlorobenzene	ug/l	0.0500	0.0530	106	70 - 130	4699
Chloroethane	ug/l	0.0500	0.0510	102	70 - 130	4699
2-Chloroethylvinylether	ug/l	0.2500	0.2470	99	70 - 130	4699
Chloroform	ug/l	0.0500	0.0512	102	70 - 130	4699
Chloromethane	ug/l	0.0500	0.0309	62 *	70 - 130	4699
2-Chlorotoluene	ug/l	0.0500	0.0543	109	70 - 130	4699
4-Chlorotoluene	ug/l	0.0500	0.0540	108	70 - 130	4699
1,2-Dibromo-3-chloropropane	ug/l	0.0500	0.0515	103	70 - 130	4699
Dibromochloromethane	ug/l	0.0500	0.0574	115	70 - 130	4699
1,2-Dibromoethane	ug/l	0.0500	0.0538	108	70 - 130	4699
Dibromomethane	ug/l	0.0500	0.0531	106	70 - 130	4699
1,4-Dichloro-2-butene	ug/l	0.0500	0.0494	99	70 - 130	4699
1,2-Dichlorobenzene	ug/l	0.0500	0.0545	109	70 - 130	4699
1,3-Dichlorobenzene	ug/l	0.0500	0.0541	108	70 - 130	4699
1,4-Dichlorobenzene	ug/l	0.0500	0.0538	108	70 - 130	4699
Dichlorodifluoromethane	ug/l	0.0500	0.0579	116	70 - 130	4699
1,1-Dichloroethane	ug/l	0.0500	0.0518	104	70 - 130	4699
1,2-Dichloroethane	ug/l	0.0500	0.0550	110	70 - 130	4699
1,1-Dichloroethene	ug/l	0.0500	0.0511	102	70 - 130	4699
cis-1,2-Dichloroethene	ug/l	0.0500	0.0510	102	70 - 130	4699
trans-1,2-Dichloroethene	ug/l	0.0500	0.0504	101	70 - 130	4699
1,2-Dichloropropane	ug/l	0.0500	0.0493	99	70 - 130	4699
1,3-Dichloropropane	ug/l	0.0500	0.0506	101	70 - 130	4699
2,2-Dichloropropane	ug/l	0.0500	0.0493	99	70 - 130	4699
1,1-Dichloropropene	ug/l	0.0500	0.0516	103	70 - 130	4699
cis-1,3-Dichloropropene	ug/l	0.0500	0.0445	89	70 - 130	4699
trans-1,3-Dichloropropene	ug/l	0.0500	0.0444	89	70 - 130	4699
Ethylbenzene	ug/l	0.0500	0.0532	106	70 - 130	4699
Hexachlorobutadiene	ug/l	0.0500	0.0574	115	70 - 130	4699
2-Hexanone	ug/l	0.2500	0.2460	98	70 - 130	4699
Iodomethane	ug/l	0.2500	0.2190	88	70 - 130	4699
Isopropylbenzene	ug/l	0.0500	0.0540	108	70 - 130	4699
4-Isopropyltoluene	ug/l	0.0500	0.0547	109	70 - 130	4699
4-Methyl-2-pentanone	ug/l	0.2500	0.2350	94	70 - 130	4699
Methylene chloride	ug/l	0.0500	0.0484	97	70 - 130	4699
Naphthalene	ug/l	0.0500	0.0588	118	70 - 130	4699
n-Propylbenzene	ug/l	0.0500	0.0534	107	70 - 130	4699

COPY 3

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2960 Foster Creighton Dr.
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PROJECT QUALITY CONTROL DATA

Laboratory Control Data

Analyte	Units	Known Val.	Analyzed Val	% Recovery	Target Range	Q.C. Batch
Styrene	ug/l	0.0500	< 0.0020	N/A	70 - 130	4699
1,1,1,2-Tetrachloroethane	ug/l	0.0500	0.0573	115	70 - 130	4699
1,1,2,2-Tetrachloroethane	ug/l	0.0500	0.0517	103	70 - 130	4699
Tetrachloroethene	ug/l	0.0500	0.0516	103	70 - 130	4699
Toluene	ug/l	0.0500	0.0476	95	70 - 130	4699
1,2,3-Trichlorobenzene	ug/l	0.0500	0.0584	117	70 - 130	4699
1,2,4-Trichlorobenzene	ug/l	0.0500	0.0536	107	70 - 130	4699
1,1,1-Trichloroethane	ug/l	0.0500	0.0563	113	70 - 130	4699
1,1,2-Trichloroethane	ug/l	0.0500	0.0500	100	70 - 130	4699
Trichloroethene	ug/l	0.0500	0.0520	104	70 - 130	4699
1,2,3-Trichloropropane	ug/l	0.0500	0.0494	99	70 - 130	4699
1,2,4-Trimethylbenzene	ug/l	0.0500	0.0558	112	70 - 130	4699
1,3,5-Trimethylbenzene	ug/l	0.0500	0.0544	109	70 - 130	4699
Vinyl acetate	ug/l	0.2500	0.1660	66 *	70 - 130	4699
Vinyl chloride	ug/l	0.0500	0.0503	101	70 - 130	4699
Xylenes	ug/l	0.1500	0.1635	109	70 - 130	4699
Bromodichloromethane	ug/l	0.0500	0.0543	109	70 - 130	4699
Trichlorofluoromethane	ug/l	0.0500	0.0598	120	70 - 130	4699
Methyl-t-butyl ether	ug/l	0.0500	0.0487	97	70 - 130	4699
Arsenic, Total	mg/l	0.0500	0.0540	108	80 - 120	4547
Barium, Total	mg/l	2.000	2.040	102	80 - 120	4547
Cadmium	mg/l	0.0500	0.0510	102	80 - 120	4547
Chromium, Total	mg/l	0.2000	0.1970	98	80 - 120	4547
Lead	mg/l	0.0500	0.0460	92	80 - 120	4547
Mercury, Total	mg/l	0.00100	0.00098	98	80 - 120	4670
Selenium, Total	mg/l	0.0500	0.0550	110	80 - 120	4547
Silver, Total	mg/l	0.0500	0.0550	110	80 - 120	4547

Blank Data

Analyte	Blank Value	Units	Q.C. Batch
TRPH	< 0.10	mg/l	7521
Naphthalene	< 0.00100	ug/l	7721
Acenaphthene	< 0.00100	ug/l	7721
Anthracene	< 0.00066	ug/l	7721
Fluoranthene	< 0.00021	ug/l	7721
Fluorene	< 0.00021	ug/l	7721
Pyrene	< 0.00027	ug/l	7721
Benzo(a)anthracene	< 0.00013	ug/l	7721
Benzo(a)pyrene	< 0.00010	ug/l	7721
Benzo(b)fluoranthene	< 0.00018	ug/l	7721
Benzo(k)fluoranthene	< 0.00017	ug/l	7721
Chrysene	< 0.00015	ug/l	7721
Dibenzo(a,h)anthracene	< 0.00030	ug/l	7721
Indeno(1,2,3-cd)pyrene	< 0.00043	ug/l	7721

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SPECIALIZED ASSAYS, INC.
2960 Foster Creighton Dr.
P.O. Box 40566
Nashville, TN 37204-0566
Phone 1-615-726-0177

PROJECT QUALITY CONTROL DATA

Blank Data

Analyte	Blank Value	Units	Q.C. Batch
Acenaphthylene	< 0.00200	mg/l	7721
Benzo(g,h,i)perylene	< 0.00076	mg/l	7721
Phenanthrene	< 0.00064	mg/l	7721
1-Methylnaphthalene	< 0.00200	mg/l	7721
2-Methylnaphthalene	< 0.00200	mg/l	7721
Arsenic, Total	< 0.0050	mg/l	4547
Barium, Total	< 0.0100	mg/l	4547
Cadmium	< 0.0010	mg/l	4547
Chromium, Total	< 0.0050	mg/l	4547
Lead	< 0.0030	mg/l	4547
Mercury, Total	< 0.00020	mg/l	4670
Selenium, Total	< 0.0050	mg/l	4547
Silver, Total	< 0.0050	mg/l	4547
Acetone	< 0.0100	mg/l	4699
Acrolein	< 0.0100	mg/l	4699
Acrylonitrile	< 0.0100	mg/l	4699
Benzene	< 0.0020	mg/l	4699
Bromobenzene	< 0.0020	mg/l	4699
Bromochloromethane	< 0.0020	mg/l	4699
Bromoform	< 0.0020	mg/l	4699
Bromomethane	< 0.0020	mg/l	4699
2-Butanone	< 0.0100	mg/l	4699
n-Butylbenzene	< 0.0020	mg/l	4699
sec-Butylbenzene	< 0.0020	mg/l	4699
t-Butylbenzene	< 0.0020	mg/l	4699
Carbon disulfide	< 0.0020	mg/l	4699
Carbon tetrachloride	< 0.00200	mg/l	4699
Chlorobenzene	< 0.0020	mg/l	4699
Chloroethane	< 0.0020	mg/l	4699
2-Chloroethylvinylether	< 0.0050	mg/l	4699
Chloroform	< 0.0020	mg/l	4699
Chloromethane	< 0.0020	mg/l	4699
2-Chlorotoluene	< 0.0020	mg/l	4699
4-Chlorotoluene	< 0.0020	mg/l	4699
1,2-Dibromo-3-chloropropane	< 0.0100	mg/l	4699
Dibromochloromethane	< 0.0020	mg/l	4699
1,2-Dibromoethane	< 0.0020	mg/l	4699
Dibromomethane	< 0.0020	mg/l	4699
1,4-Dichloro-2-butene	< 0.0020	mg/l	4699
1,2-Dichlorobenzene	< 0.0020	mg/l	4699
1,3-Dichlorobenzene	< 0.0020	mg/l	4699
1,4-Dichlorobenzene	< 0.0020	mg/l	4699
Dichlorodifluoromethane	< 0.0020	mg/l	4699
1,1-Dichloroethane	< 0.0020	mg/l	4699
1,2-Dichloroethane	< 0.0020	mg/l	4699
1,1-Dichloroethene	< 0.0020	mg/l	4699

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Nashville, TN 37204-0566
Phone 1-615-726-0177

PROJECT QUALITY CONTROL DATA

Blank Data

Analyte	Blank Value	Units	Q.C. Batch
cis-1,2-Dichloroethene	< 0.0020	mg/l	4699
trans-1,2-Dichloroethene	< 0.0020	mg/l	4699
1,2-Dichloropropane	< 0.0020	mg/l	4699
1,3-Dichloropropane	< 0.0020	mg/l	4699
2,2-Dichloropropane	< 0.0020	mg/l	4699
1,1-Dichloropropene	< 0.0020	mg/l	4699
cis-1,3-Dichloropropene	< 0.0020	mg/l	4699
trans-1,3-Dichloropropene	< 0.0020	mg/l	4699
Ethylbenzene	< 0.0020	mg/l	4699
Hexachlorobutadiene	< 0.0020	mg/l	4699
2-Hexanone	< 0.0100	mg/l	4699
Iodomethane	< 0.0020	mg/l	4699
Isopropylbenzene	< 0.0020	mg/l	4699
4-Isopropyltoluene	< 0.0020	mg/l	4699
4-Methyl-2-pentanone	< 0.0100	mg/l	4699
Methylene chloride	< 0.0020	mg/l	4699
Naphthalene	< 0.0020	mg/l	4699
n-Propylbenzene	< 0.0020	mg/l	4699
Styrene	< 0.0020	mg/l	4699
1,1,1,2-Tetrachloroethane	< 0.0020	mg/l	4699
1,1,2,2-Tetrachloroethane	< 0.0020	mg/l	4699
Tetrachloroethene	< 0.0020	mg/l	4699
Toluene	< 0.0020	mg/l	4699
1,2,3-Trichlorobenzene	< 0.0020	mg/l	4699
1,2,4-Trichlorobenzene	< 0.0020	mg/l	4699
1,1,1-Trichloroethane	< 0.0020	mg/l	4699
1,1,2-Trichloroethane	< 0.0020	mg/l	4699
Trichloroethene	< 0.0020	mg/l	4699
1,2,3-Trichloropropane	< 0.0020	mg/l	4699
1,2,4-Trimethylbenzene	< 0.0020	mg/l	4699
1,3,5-Trimethylbenzene	< 0.0020	mg/l	4699
Vinyl acetate	< 0.0100	mg/l	4699
Vinyl chloride	< 0.0020	mg/l	4699
Xylenes	< 0.0020	mg/l	4699
Bromodichloromethane	< 0.0020	mg/l	4699
Trichlorofluoromethane	< 0.0020	mg/l	4699
Methyl-t-butyl ether	< 0.0100	mg/l	4699

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