1015

SAMPLING EVENT REPORT NUMBER 7

SURFACE WATER AND SEDIMENT SAMPLING
OPERABLE UNIT NO. 1
NAVAL INSTALLATION RESTORATION PROGRAM
JACKSONVILLE NAVAL AIR STATION
JACKSONVILLE, FLORIDA

CONTRACT TASK ORDER NO. 040
NAVY CLEAN - DISTRICT 1
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1.0 INTRODUCTION

The U.S. Navy has prepared a Remedial Investigation/Feasibility Study (RI/FS) Work Plan to document procedures used for the Naval Installation Restoration Program (IRP) response at Operable Unit No. 1 (OU1) of Naval Air Station (NAS) Jacksonville, Florida (Figure 1-1). The OU1 site has been previously identified as a Navy IRP Potential Source of Contamination (PSC) and includes sites PSC-26 and PSC-27 which together comprise "The Oil and Solvents Disposal Pits Area" (Figure 1-2). PSC-26 was formerly known as the Old Main Registered Area and PSC-27 was a former PCB transformer storage area. The RI/FS Work Plan (Volume 5, Remedial Investigation/Feasibility Study Work Plan for OU1, Oil and Solvents Disposal Pits Area, September 1991) documents all field investigation techniques utilized to collect data and includes a preliminary identification of potential exposure pathways, remedial action alternatives and treatability options.

The overall objective of the field investigations at OU1 are to identify, under existing site conditions, (1) the physical characteristics of the site relating to physiography, geology, hydrology, and topography, and (2) the contaminants of concern and their distribution in various media (soil, sediments, groundwater, surface water, soil gas and air). Section 5.0 of the RI/FS Work Plan, Remedial Investigation Field Tasks, outlines the data collection procedures employed in characterizing potential impacted media at OU1. Subsection 5.2 of the RI/FS Work Plan details the specific field investigation techniques for surface water and sediment sampling. Other RI/FS work plan sections applicable to surface water and sediment sampling include:

- Volume 1, Section 2.5, Data Reduction and Presentation;
- Volume 5, Section 5.2, Sediment and Surface Water Sampling;
- Volume 5, Appendix 5.4.1, Table 1-1, Selected Constituents, Methods of Analysis, and Numbers of Surface Water, Sediment, Groundwater, and Soil Samples to be Analyzed During the RI at OU1, NAS Jacksonville;
- Volume 5, Appendix 5.4.1, Table 1-3, Field Quality Control Samples to be Collected During the RI at OU1, NAS Jacksonville;
- Volume 5, Appendix 5.4.1, Section 3.0, Quality Assurance Objectives;
- Volume 5, Appendix 5.4.1, Field QC Samples Required for Each Matrix per Sampling Event;
- Volume 5, Appendix 5.4.2, Section 2.3, Surface Water and Sediment Sampling;

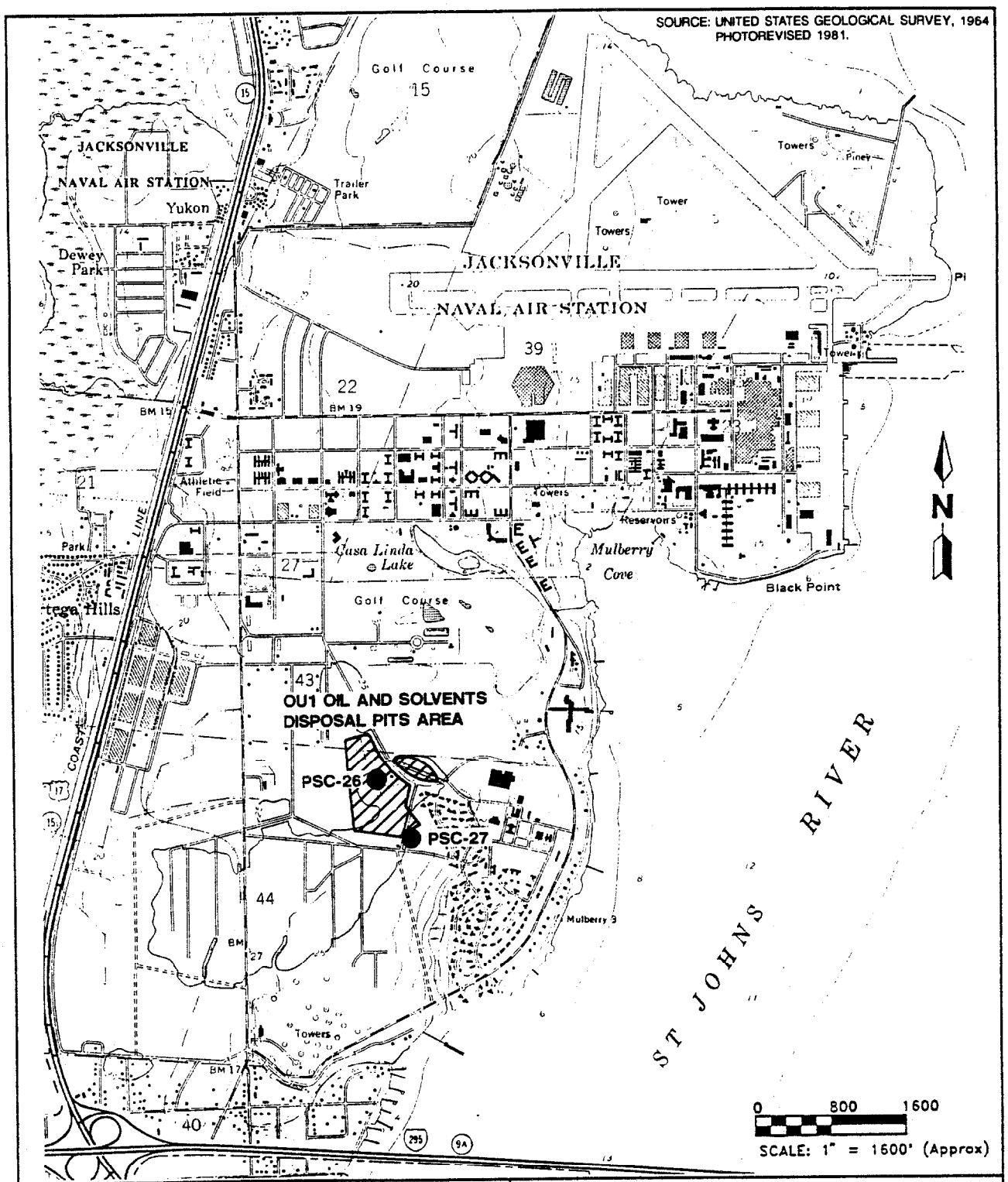

FIGURE 1-1
LOCATION OF OU1, OIL AND SOLVENTS DISPOSAL PITS AREA PSC-26 AND PSC-27

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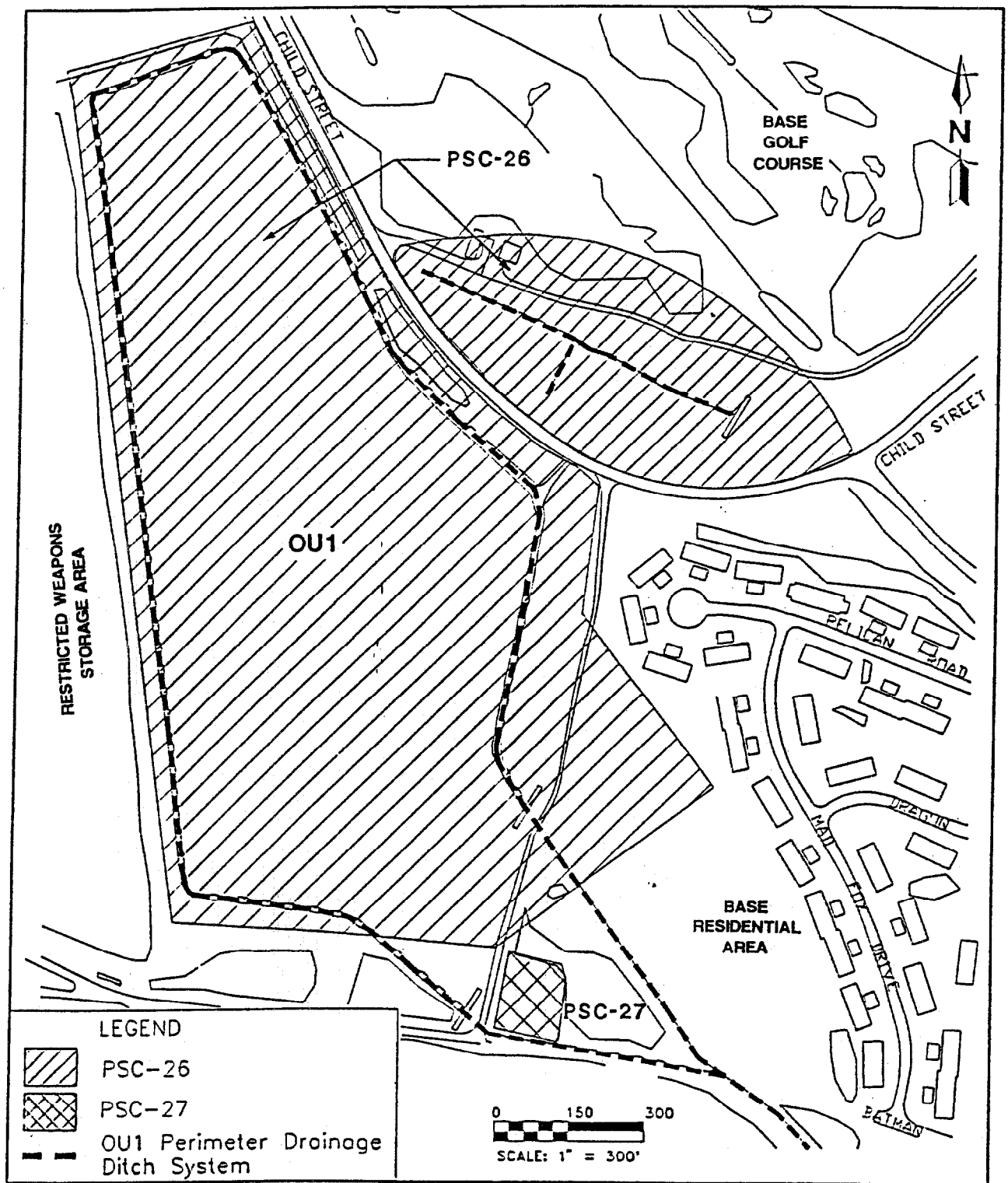

FIGURE 1-2
DISPOSAL PITS AREA INCLUDING PSC-26, OLD MAIN REGISTERED AREA AND PSC-27, FORMER PCB TRANSFORMER STORAGE AREA

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- Volume 5, Appendix 5.4.2, Section 4.5, Surface Water and Sediment Sampling;

- Volume 5, Appendix 5.4.2, Section 4.7, Collection of Field Quality Control Samples;

- Volume 5, Appendix 5.4.2, Section 4.9, Equipment Cleaning.

Exposure to contaminants, released to the surface water and sediments in the perimeter drainage ditch system at OU1, has been identified as a potential exposure pathway for both humans and biological receptors. Previous sampling of surface water and sediment in 1980 and 1984 by Geraghty & Miller indicate that these media were contaminated by:

- N-butyl acetate
- methylene chloride
- trichloroethene
- polychlorinated biphenyls
- chromium
- arsenic barium
- mercury
- ethyl acetate
- methyl ethyl ketone
- xylenes
- cadmium
- lead
- copper

Data collected in 1980 is currently of limited usefulness because of its age; this data was collected prior to the remedial activities that were conducted from 1983 to 1984. Data collected in 1984 is indicative of the surface water conditions at the time of the remedial activities and also does not reflect the current surface water conditions at OU1.

The previous surface water and sediment data indicate that contaminants have migrated from the site via discharge of surface water. Precipitation run-off from OU1 discharges into a man-made drainage ditch located around the perimeter of the site. The perimeter drainage ditch was constructed in 1983 as a remediation system. The remediation system consisted of two underflow weirs and automatic surface skimmers to collect free-phase hydrocarbons that collected on the upstream side of the weirs. The perimeter drainage ditch system empties into a natural drainage system located in a bald cypress forest habitat to the south of OU1 (Figures 1-1 and 1-3). The natural drainage system is an unnamed tributary of the St. Johns River. Aquatic life exists in the unnamed tributary as well as the St. Johns River. The St. Johns River estuary system is a very productive aquatic system. The potential for aquatic ecosystem impacts exist as contaminants attributed to OU1 may adversely affect the aquatic ecosystems.

The purpose of the surface water and sediment sampling program is to assess the current conditions of both media and the potential for contaminants to migrate from OU1 via surface-water drainage and sediment transport. The RI/FS Work Plan proposed 29 sample locations for the surface water and sediment sampling activities. The 29 sample locations shown in Figure 5-2 of Volume 5 of the RI/FS Work Plan were selected during a site reconnaissance conducted during the period between 21 and 23 August 1991. The sample locations were based on the physical characteristics such as flow, depth, substrate, and

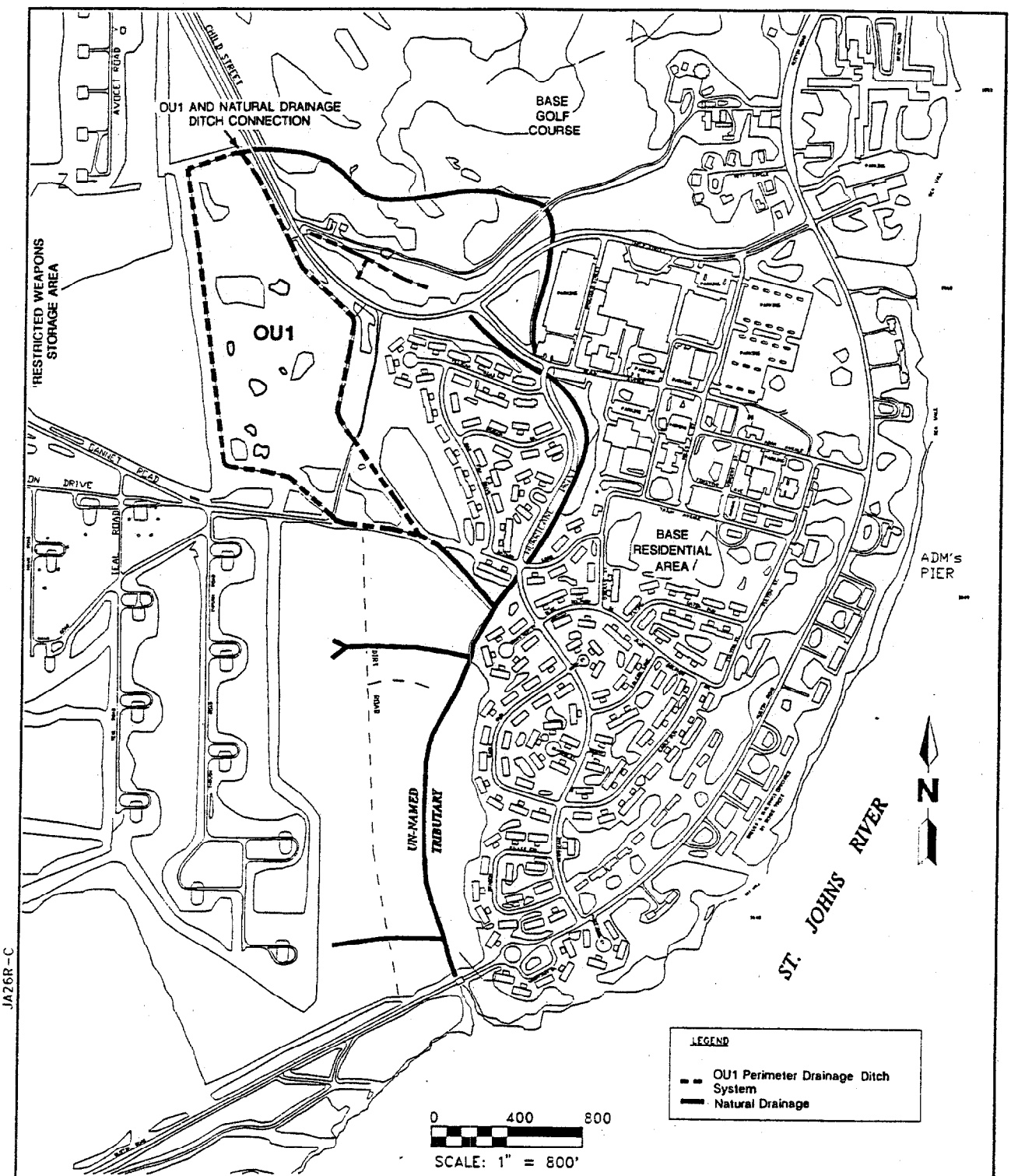

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FIGURE 1-3
OU1 PERIMETER DRAINAGE AND NATURAL DRAINAGE

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composition of macrophytes. Three additional samples were added to the sampling program. Two of these samples were to assess the potential for interconnection of the NAS Jacksonville base golf course drainage and the OU1 drainage system. The third additional sample was proposed as a background sample.

The following is a description of the information contained in this report. Section 2.0, WORK PERFORMED, describes the collection of the surface water and sediment samples. Section 3.0, CHEMICAL ANALYSIS, describes the methods used for chemical analysis of the surface water and sediment samples. Section 4.0, QUALITY CONTROL (QC), describes field samples collected to assess if contaminants were introduced during the sample collection and shipping as well as the analytical results. Section 5.0, DATA VALIDATION, describes the method used to validate the chemical analysis of the surface water and sediment samples. Section 6.0 provides a brief description of the chemical analytical results.

2.0 WORK PERFORMED

2.1 SURFACE WATER AND SEDIMENT SAMPLING

Thirty two surface-water and sediment samples were collected from the OU1 and surrounding areas between 29 January 1992 and 10 February, 1992 (Locations 1 through 9, and 11 through 33, Figure 2-1). Sample location designator number 10 was not used. The surface water and sediment sampling was conducted in conjunction with the ecological assessment activities. The results of the ecological assessment activities are presented in Sampling Event Report Number 8. The surface water and sediment sampling event included the collection of associated replicates and field QC samples.

Prior to collecting the samples, an initial site reconnaissance was conducted to locate suitable sample locations based on the general locations shown in Figure 5-2 of the RI/FS Work Plan (Geraghty and Miller, 1991b). Sample locations were selected in areas that exhibited the greatest degree of cross-sectional homogeneity and that had suitable sediment depositional areas. The surface water and sediment samples, and ecological samples were collected from the same locations in the perimeter drainage ditch system, the unnamed tributary, the golf course, and the St. Johns River. Field data records, documenting sample collection, are presented in Appendix A. Surface water and sediment sample locations were screened prior to sampling using a Porta-FID organic vapor analyzer (OVA) and a dust monitor. The purpose of screening the sample locations was to assess health and safety criteria and provide real time data of ambient air quality conditions which may adversely influence the analytical results. Field screening was not conducted at sample locations that were accessed by either a boat or bridge. Field screening measurements consist of: (1) an initial measurement with the OVA and dust monitor at each sample location; (2) an OVA measurement immediately above the sample location; and (3) an OVA measurement in the breathing zone. A summary of the field screening results is provided in Table 2-1.

The 32 surface water and sediment sample locations were composed of 3 groups based on access:

- Accessible by wading from land (17 locations, sample numbers 1 through 9, and 11 through 18);
- Accessible from wading from land with difficult access within the bald cypress forest habitat (8 locations, sample locations 19 through 26); and
- Open-water accessible by boat or bridge (St. Johns River; 7 locations, sample locations 27 through 33).

Sample locations were grouped according to access for health and safety purposes, to provide continuity in sample collection procedures and minimize the potential for introduction of OU1 site related contaminants to off-site sample locations.

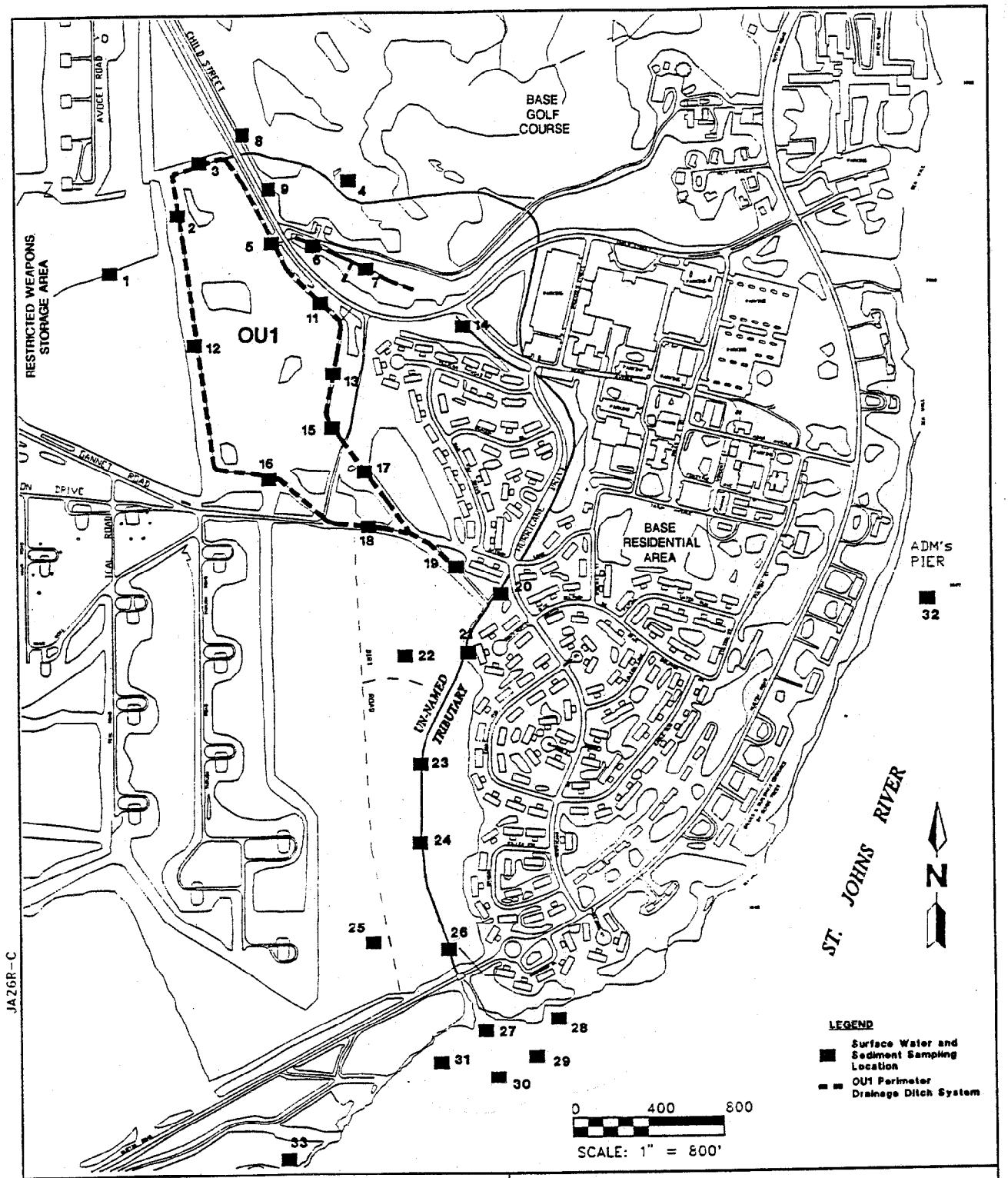

FIGURE 2-1
SURFACE WATER AND SEDIMENT SAMPLE LOCATIONS

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TABLE 2-1
SUMMARY OF FIELD SCREENING MEASUREMENTS
SURFACE WATER AND SEDIMENT SAMPLE LOCATIONS
OU1, NAS Jacksonville, Florida

SAMPLE LOCATION #	DATE	TIME	INITIAL MEASUREMENT FID	INITIAL MEASUREMENT D.M.	SAMPLE LOCATION FID MEASUREMENT	BREATHING ZONE FID MEASUREMENT
SW001	03-Feb-92	12:55	0	0.02	–	0
SW001	03-Feb-92	13:05	–	–	0	0
SW002	31-Jan-92	08:23	0	0	11	0
SW002	01-Feb-92	12:45	1	0	–	–
SW002	01-Feb-92	13:15	–	0	1	1
SW003	31-Jan-92	08:35	0	0	1	0
SW003	01-Feb-92	09:30	3	0	–	–
SW003	01-Feb-92	10:00	–	0.01	3	3
SW003	01-Feb-92	10:30	–	0	3	3
SW004	31-Jan-92	09:15	0	0	–	–
SW004	31-Jan-92	11:05	0	0.01	0	0
SW005	31-Jan-92	08:42	0	0	–	–
SW005	30-Jan-92	15:20	2	0.05	2	0
SW005	30-Jan-92	15:56	–	0.05	1	0
SW005	30-Jan-92	16:25	0	0.03	1	1
SW006	29-Jan-92	11:50	0	0.02	0	–
SW006	29-Jan-92	12:25	–	0.03	1	0
SW007	30-Jan-92	08:40	5	0.07	–	–
SW007	30-Jan-92	10:18	4	0.14	–	–
SW007	30-Jan-92	10:28	4	0.14	–	–
SW007	30-Jan-92	10:48	–	–	1000	4
SW007	30-Jan-92	11:10	–	–	0	–
SW008	31-Jan-92	09:38	0	0	–	0
SW008	31-Jan-92	09:50	–	–	0	0
SW009	31-Jan-92	08:50	0	0	–	0
SW009	31-Jan-92	08:54	–	–	0	0
SW009	29-Jan-92	15:45	0	0.03	0	–
SW010	29-Jan-92	16:05	0	0.05	–	–
SW010	29-Jan-92	16:08	–	–	1	–
SW011	02-Feb-92	12:40	0	0	–	–
SW011	02-Feb-92	13:05	–	0.01	2	–
SW012	01-Feb-92	14:00	3	0	–	–
SW012	01-Feb-92	14:30	–	0	0	0
SW013	02-Feb-92	11:28	0	0	–	–
SW013	02-Feb-92	11:45	–	–	0	0
SW014	02-Feb-92	15:05	0	0.01	–	–
SW014	02-Feb-92	15:12	–	–	1	0
SW014	02-Feb-92	15:30	–	0	1	0
SW015	02-Feb-92	10:35	0	0.01	–	0
SW015	02-Feb-92	11:05	0	0	–	–
SW015	02-Feb-92	11:15	–	–	0	0
SW017	02-Feb-92	15:45	3	0.02	–	0
SW017	02-Feb-92	15:55	–	0.06	1	0
SW018	02-Feb-92	16:23	1	0	–	0
SW018	02-Feb-92	16:33	–	0.06	1	0
SW019	02-Feb-92	17:07	0	0.01	–	0
SW019	02-Feb-92	17:18	–	–	0	0
SW020	03-Feb-92	08:25	0	0.01	–	0
SW020	03-Feb-92	08:37	–	0	2 to 5	0
SW021	03-Feb-92	10:23	1	0.03	–	0
SW021	03-Feb-92	10:30	–	–	3	0
SW022	03-Feb-92	09:05	0	0.05	–	–
SW022	03-Feb-92	09:15	–	0.04	0	0
SW022	30-Jan-92	13:15	0	0.17	50	0
SW022	30-Jan-92	13:28	0	0.18	0	–
SW023	03-Feb-92	09:43	0	0.03	–	–
SW023	03-Feb-92	09:48	–	–	3 to 50	1
SW023	30-Jan-92	13:53	0	0.13	27	0
SW024	30-Jan-92	14:15	0	0.13	250	0
SW024	03-Feb-92	14:25	0	0	–	–
SW024	03-Feb-92	14:32	–	–	3 to 12	0
SW025	30-Jan-92	14:36	0	0.16	4	0
SW025	03-Feb-92	14:54	1	0	2 to 5	0
SW026	03-Feb-92	15:38	1	0.01	3	0

NOTES: SW = Surface Water Sample Designation
– = No FID or D.M. measurement made
FID = Flame Ionization Detector (measurement in parts per million, ppm)
D.M. = Dust Monitor (measurement in milligram per cubic centimeter, mg/cc)

Three additional sample locations were added to the originally proposed (29 locations shown in Figure 5-2 of Volume 5 of the RI/FS Work Plan). Two of the additional samples were collected at locations north of OU1 in drainage areas associated with the base golf course (sample location numbers 4 and 8, Figure 2-1). The storm drain located at the golf course connects with the OU1 perimeter drainage ditch system. During periods of heavy rainfall in the vicinity of sample locations 4 and 8, surface water in drainage ditches overflows the drainage ditch banks. The surface water and sediment samples were collected to assess the potential that the interconnection of the two drainage ditch systems, OU1 and the golf course, has resulted in the spreading of contaminants of concern related to OU1.

The third additional sample (sample location number 25, Figure 2-1) consists of a sample from a small drainage feature located in the southern portion of the bald cypress forest habitat area. The small tributary flows from the weapons area on the western border of the forest to the unnamed tributary. The sample location was proposed as an additional background sample.

2.1.1 Surface Water Sample Collection

Surface water samples were collected to assess the potential for contaminants to have migrated from the site via the perimeter drainage ditch system into the natural drainage system. The surface water samples were collected from the perimeter drainage ditch system, the unnamed tributary, the golf course, and the St. Johns River. All surface water samples were collected directly, by dipping the sample bottle into the surface water body. Water quality parameters also were measured at each sample location. The parameters were measured at a depth of 6-inches to 1-foot beneath the water surface. The measured parameters were:

- dissolved oxygen;
- temperature;
- salinity;
- pH; and
- specific conductance.

Additionally, the depth of the surface water body and depth at which the water body was sampled were measured for all surface water samples. Parameter measurement results and sample collection depth are presented in Table 2-2.

2.1.2 Sediment Sample Collection

Sediment samples were collected at the same time and from the same locations as the surface water samples. Sediment samples were collected at each location using a posthole digger to remove naturally occurring organic rich layers, if present, above the sediment substrate. A stainless steel core sampler was used to collect the sediment sample.

TABLE 2–2
SUMMARY OF SURFACE WATER QUALITY PARAMETERS
SURFACE WATER AND SEDIMENT SAMPLING EVENT
OU1, NAS Jacksonville, Florida

SAMPLE LOCATION #	DATE	Water Depth @ SL (ft)	Sample Depth From Top of Water (ft)	TEMP. (°C)	pH	SP. COND. (μmhos/cm	SALINITY (ppt)	D.O. (mg/l)
SW001	02–Feb–92	4	0.5	15	7.2	350	1	2.5 to 4
SW002	01–Feb–92	3	0.5	14	7.3	600	0.1	2.1 to 6
SW003	01–Feb–92	2.6	0.5	12	6.9	550	0.1	1.6 to 1.8
SW004	31–Jan–92	3.6	0.5	14	8.4	250	0.1	&.2 to 9
SW005	30–Jan–92	3.0	0.5	14	9.0	800	0.5	2.9 to 4
SW006	29–Jan–92	3.5	0.5	14	7.6	220	0	5.1
SW007	30–Jan–92	3.5	0.5	13	6.4	500	0	4
SW008	31–Jan–92	0.6	0.3	13	7.9	380	0.2	3.4
SW009	31–Jan–92	1.6	0.5	18	9.0	800	0.2	1.8
SW011	02–Feb–92	5	0.5	14	7.6	900	0.5	5.2 to 6.1
SW012	01–Feb–92	3	0.5	14	7.8	950	0.1	2.1 to 6.1
SW013	02–Feb–92	5	0.5	13	7.0	880	0.1	3.9 to 5.1
SW014	02–Feb–92	4	0.2	18	6.3	310	0.2	2.4
SW015	02–Feb–92	3	0.5	13	7.8	820	0.1	6
SW016	04–Feb–92	1	0.5	11	7.2	800	1	3.1 to 6
SW017	02–Feb–92	0.5	0.2	15	6.2	450	0.2	6
SW018	02–Feb–92	0.1	0.1	13	6.9	600	0.2	6.2
SW019	02–Feb–92	0.2	0.2	14	6.9	350	0.1	8.2
SW020	03–Feb–92	0.6	0.5	10	7.3	430	0.1	8.8
SW021	03–Feb–92	1	0.5	12	7.0	400	0	8.6
SW022	03–Feb–92	0.6	0.2	12	11.0	350	0	7.4
SW023	03–Feb–92	0.6	0.2	11	7.0	350	0	7.4
SW024	03–Feb–92	0.6	––	16	7.5	355	0	7.8
SW025	03–Feb–92	1	0.5	16	8.2	80	0	2.3
SW026	03–Feb–92	2	––	18	7.7	325	0	4.8
SW027	04–Feb–92	2	0.5	10	7.0	700	0.3	10
SW028	04–Feb–92	2	0.5	17	7.3	700	0.2	10
SW029	04–Feb–92	2	0.5	17	7.4	700	0.2	10
SW030	04–Feb–92	2	0.5	17	7.6	700	0.2	10
SW031	04–Feb–92	3	0.5	18	7.5	700	0.3	10
SW032	04–Feb–92	2	0.5	18	7.5	700	0.3	9.2
SW033	04–Feb–92	2	0.5	17	7.5	700	0.8	9.4

NOTES:
SW – Surface Water Sample Location Designation
@ SL (ft) – at sample location in feet
°C – Centigrade
ppt – Parts per trillion
SP. COND. = Specific Conductance
μmhos/cm – Micromohs per centimeter
D.O. = Dissolved Oxygen
mg/l – Milligrams per liter
–– = No Measurement

Each sediment sample for VOC analysis was placed into appropriate individual sample containers without mixing. The remaining portion of each individual sediment sample was thoroughly mixed using a glass bowl and stainless steel spoon prior to placement into the appropriate sample container.

2.2 SAMPLE HANDLING, SHIPPING AND CHAIN-OF-CUSTODY

Surface water and sediment samples and the field QC samples were placed in coolers containing ice immediately after collection, and were stored on ice in Table 2-2 the custody of the Field Operations Leader (FOL) until shipment to the analytical laboratory. The samples were packed for express shipment to the subcontracted laboratory, CH2M Hill of Gainesville, Florida. Prior to the shipment of the samples, the ice in the coolers was replenished, the chain-of-custody forms were sealed in the cooler, and two signed custody seals were taped to the ends of the cooler lid.

Upon receipt of the samples by CH2M Hill, the sample custodian checked the condition of the samples and verified that 1) the samples had been packed and shipped appropriately, 2) the temperature of the cooler was within the tolerance limits, and 3) the chain-of-custody agreed with the contents of the cooler. Copies of the chain-of-custody forms are provided in Appendix B.

3.0 CHEMICAL ANALYSIS

Each surface water and sediment sample was analyzed for constituents listed in Appendix 5.4.1 of the RI/FS Work Plan, which included:

- Target Compound List (TCL) volatile organic compounds (VOCs);
- TCL base, neutral, and acid extractable compounds (BNAs);
- TCL pesticides and polychlorinated biphenyls (PCBs);
- Target Analyte List (TAL) inorganics, metals and cyanide; and
- radiological parameters (gross alpha, gross beta, radium-226, and radium-228).

The target constituents are listed in Table 1-1 of the Quality Assurance Project Plan (QAPP) (Appendix 5.4.1) which is contained in Volume 5 of the RI/FS Work Plan (Geraghty & Miller, 1991b). A summary of the surface water and sediment samples and analytical parameter is provided in Table 3-1.

The surface water and sediment samples were handled and analyzed by CH2M Hill according to the policies and procedures presented in CH2M Hill's FDER-approved Comprehensive Quality Assurance Plan (CompQAP) and in accordance with NEESA and USEPA Contract Laboratory Program Specifications. The Analytical Results Report for laboratory surface water and sediment sample analysis is provided in Appendix C-1 through C-6.

TABLE 3-1
SURFACE WATER AND SEDIMENT
SAMPLE COLLECTION SUMMARY
OU1, NAS Jacksonville, Florida

SAMPLE LOCATION	DATE COLLECTED	TCL VOC	TCL BNA	TCL PCB/ Pesticides	TAL INORGANICS Metals	TAL INORGANICS Cyanide	Alpha, Beta Radium
Sediment Samples							
SD001	03-Feb-92	1	1	1	1	1	1
SD002	01-Feb-92	1	1	1	1	1	1
SD003	01-Feb-92	1	1	1	1	1	1
SD004	31-Jan-92	1	1	1	1	1	1
SD005	30-Jan-92	1	1	1	1	1	1
SD006	30-Jan-92	1	1	1	1	1	1
SD007	30-Jan-92	1	1	1	1	1	1
SD008	31-Jan-92	1	1	1	1	1	1
SD009	31-Jan-92	1	1	1	1	1	1
SD011	02-Feb-92	1	1	1	1	1	1
SD012	01-Feb-92	1	1	1	1	1	1
SD013	02-Feb-92	1	1	1	1	1	1
SD014	02-Feb-92	1	1	1	1	1	1
SD015	02-Feb-92	1	1	1	1	1	1
SD016	04-Feb-92	1	1	1	1	1	1
SD017	02-Feb-92	1	1	1	1	1	1
SD018	02-Feb-92	1	1	1	1	1	1
SD019	02-Feb-92	1	1	1	1	1	1
SD020	03-Feb-92	1	1	1	1	1	1
SD021	03-Feb-92	1	1	1	1	1	1
SD022	03-Feb-92	1	1	1	1	1	1
SD023	03-Feb-92	1	1	1	1	1	1
SD024	03-Feb-92	1	1	1	1	1	1
SD025	03-Feb-92	1	1	1	1	1	1
SD026	03-Feb-92	1	1	1	1	1	1
SD027	04-Feb-92	1	1	1	1	1	1
SD028	04-Feb-92	1	1	1	1	1	1
SD029	04-Feb-92	1	1	1	1	1	1
SD030	04-Feb-92	1	1	1	1	1	1
SD031	10-Feb-92	1	1	1	1	1	1
SD032	04-Feb-92	1	1	1	1	1	1
SD033	04-Feb-92	1	1	1	1	1	1
Subtotal		32	32	32	32	32	32

NOTES:
TCL – Target Compound List
TAL – Target Analyte List
PCB – Polychlorinated Biphenyl
VOC – Volatile Organic Carbon Compounds
BNA – Base Neutral and Acid Extractable Compounds or Semivolatile Compounds
ALPHA, BETA & RADIUM – Radionuclides & Radium, Ra 226 & Ra 228
SD – Sediment Sample Designator
SW – Surface Water Sample Designator

TABLE 3-1 (Continued)
SURFACE WATER AND SEDIMENT
SAMPLE COLLECTION SUMMARY
OU1, NAS Jacksonville, Florida

SAMPLE LOCATION	DATE COLLECTED	TCL VOC	TCL BNA	TCL PCB/ Pesticides	TAL INORGANICS Metals	Cyanide	Alpha, Beta Radium
Surface Water Samples							
SW001	03-Feb-92	1	1	1	1	1	1
SW002	01-Feb-92	1	1	1	1	1	1
SW003	01-Feb-92	1	1	1	1	1	1
SW004	31-Jan-92	1	1	1	1	1	1
SW005	30-Jan-92	1	1	1	1	1	1
SW006	30-Jan-92	1	1	1	1	1	1
SW007	30-Jan-92	1	1	1	1	1	1
SW008	31-Jan-92	1	1	1	1	1	1
SW009	31-Jan-92	1	1	1	1	1	1
SW011	02-Feb-92	1	1	1	1	1	1
SW012	01-Feb-92	1	1	1	1	1	1
SW013	02-Feb-92	1	1	1	1	1	1
SW014	02-Feb-92	1	1	1	1	1	1
SW015	02-Feb-92	1	1	1	1	1	1
SW016	04-Feb-92	1	1	1	1	1	1
SW017	02-Feb-92	1	1	1	1	1	1
SW018	02-Feb-92	1	1	1	1	1	1
SW019	02-Feb-92	1	1	1	1	1	1
SW020	03-Feb-92	1	1	1	1	1	1
SW021	03-Feb-92	1	1	1	1	1	1
SW022	03-Feb-92	1	1	1	1	1	1
SW023	03-Feb-92	1	1	1	1	1	1
SW024	03-Feb-92	1	1	1	1	1	1
SW025	03-Feb-92	1	1	1	1	1	1
SW026	03-Feb-92	1	1	1	1	1	1
SW027	04-Feb-92	1	1	1	1	1	1
SW028	04-Feb-92	1	1	1	1	1	1
SW029	04-Feb-92	1	1	1	1	1	1
SW030	04-Feb-92	1	1	1	1	1	1
SW031	10-Feb-92	1	1	1	1	1	1
SW032	04-Feb-92	1	1	1	1	1	1
SW033	04-Feb-92	1	1	1	1	1	1
Subtotal		32	32	32	32	32	32
TOTAL		64	64	64	64	64	64

NOTES:
TCL – Target Compound List
TAL – Target Analyte List
PCB – Polychlorinated Biphenyl
VOC – Volatile Organic Carbon Compounds
BNA – Base Neutral and Acid Extractable Compounds or Semivolatile Compounds
ALPHA, BETA & RADIUM – Radionuclides & Radium, Ra 226 & Ra 228
SD – Sediment Sample Designator
SW – Surface Water Sample Designator

4.0 QUALITY CONTROL

4.1 FIELD QC

Three types of QC samples were used to monitor the existence (or lack there of) and magnitude of contamination introduced during the field activities and/or in the preparation and analysis of the samples in the laboratory. The three types of field QC samples were: equipment rinsate blank; field blank; and trip blank. The water used in the equipment rinsate and field blanks was organic-free distilled water that was obtained from Continental Water Systems of Jacksonville, Florida. The water for the trip blanks was provided by CH_2M-Hill. A summary of the field blank samples and analytical methods is provided in Table 4-1. The following describes each of the three types of Field QC blanks.

4.1.1 Equipment Rinsate Blank

After a piece of sampling equipment (e.g. post hole digger and stainless steel core sampler) was decontaminated, it was rinsed with organic free deionized water. A sample of this rinse water was collected and submitted as an equipment rinsate blank. The purpose of this blank is to monitor contamination that may have been introduced because of either incomplete equipment decontamination or not allowing the equipment to completely dry (potential source of acetone from isopropyl alcohol rinse). The rinsate blanks were analyzed for the same parameters as the samples. Equipment blank designator EB001 and EB002 were inadvertently duplicated on sample collection dates 30 Jan 92 and 10 Feb 92.

Concentrations of chlorobenzene were detected in each rinsate blank and estimated concentrations (J qualifier) of chloroform were detected in some of the rinsate blanks (Table 4-2). See Section 5.0 DATA VALIDATION for explanation of estimated concentrations. Estimated concentrations of bis(2-ethylhexyl) phthalate were also detected in some of the rinsate samples. Bis(2-ethylhexyl) phthalate is a common field and laboratory contaminant. Estimated concentrations of aluminum, arsenic, beryllium, calcium, chromium, iron, lead, magnesium, manganese, nickel, silver, sodium, and zinc were detected in some of the rinsate blank samples (Table 4-2).

4.1.2 Field Blank

The field blank is a sample of organic free deionized water that is opened to ambient conditions during the sampling event. The purpose of the field blank is to monitor ambient conditions which may contribute contamination (target constituents) to the samples. The field blanks were analyzed for the same target constituents as the surface water and sediment samples. A summary of the field blank samples and detected target constituents is provided in Table 4-3.

Concentrations of chlorobenzene were detected in each field blank. Estimated concentrations of bis(2-ethylhexyl) phthalate were also detected in some of the rinsate samples. Bis(2-ethylhexyl) phthalate is a common field and

TABLE 4–1
FIELD QC SAMPLE COLLECTION SUMMARY
SURFACE WATER AND SEDIMENT
OU1, NAS Jacksonville, Florida

SAMPLE DESIGNATOR	DATE COLLECTED	TCL VOC	TCL BNA	TCL PCB/ Pesticides	TAL INORGANICS Metals	TAL INORGANICS Cyanide	Alpha, Beta Radium
Equipment Blanks							
EB001	30–Jan–92	1	1	1	1	1	1
EB002	31–Jan–92	1	1	1	1	1	1
EB003	01–Feb–92	1	1	1	1	1	1
EB004	02–Feb–92	1	1	1	1	1	1
EB005	02–Feb–92	1	1	1	1	1	1
EB006	04–Feb–92	1	1	1	1	1	1
EB001	10–Feb–92	1	1	1	1	1	1
EB002	10–Feb–92	1	1	1	1	1	1
	TOTAL	8	8	8	8	8	8
Trip Blanks							
TB001	30–Jan–92	1	0	0	0	0	0
TB002	31–Jan–92	1	0	0	0	0	0
TB003	01–Feb–92	1	0	0	0	0	0
TB004	02–Feb–92	1	0	0	0	0	0
TB005	02–Feb–92	1	0	0	0	0	0
TB006	04–Feb–92	1	0	0	0	0	0
	TOTAL	6	0	0	0	0	0
Field Blanks							
FB001	30–Jan–92	1	1	1	1	1	1
FB002	31–Jan–92	1	1	1	1	1	1
FB003	01–Feb–92	1	1	1	1	1	1
	TOTAL	3	3	3	3	3	3

NOTES
TCL – Target Compound List
TAL – Target Analyte List
PCB – Polychlorinated Biphenyl
VOC – Volatile Organic Carbon Compounds
BNA – Base Neutral and Acid Extractable Compounds
ALPHA, BETA & RADIUM – Radionuclides & Radium, Ra 226 & Ra 228

TABLE 4-2
ANALYTICAL RESULTS REPORT
CONTAMINANTS DETECTED IN
EQUIPMENT RINSATE BLANKS
NAS Jacksonville, Florida

SAMPLE NUMBER DATE COLLECTED UNIT	EB001 30-Jan-92 (ug/L)	EB002 31-Jan-92 (ug/L)	EB003 01-Feb-92 (ug/L)	EB004 02-Feb-92 (ug/L)	EB005 02-Feb-92 (ug/L)	EB006 04-Feb-92 (ug/L)	EB001 10-Feb-92 (ug/L)	EB002 10-Feb-92 (ug/L)
VOLATILE COMPOUNDS								
Chloroform	**1 J**	5 U	5 U	**1 J**	**1 J**	**1 J**	5 U	**1 J**
Chlorobenzene	**13**	**12**	**18**	**16**	**17**	**7**	**6**	**15**
2-Butanone	10 U	10 U	10 U	10 U	10 U	**10 R**	10 U	10 U
SEMIVOLATIVE COMPOUNDS								
Bis(2-Ethylhexyl)Phthalate	10 U	10 U	10 U	10 U	**3 J**	10 U	3 J	2 J
2,4-Dinitrotoluene	10 U	10 U	**10 R**	10 U	10 U	10 U	10 U	10 U
INORGANICS								
Aluminum	**21 J**	19 U	54.1 U	14.3 U	14.3 U	14.3 U	14.3 U	14.3 UJ
Arsenic	0.69 U	0.69 U	0.69 U	0.4 U	0.4 U	0.4 U	**0.5 J**	**0.5 J**
Beryllium	0.19 U	0.19 U	0.19 U	**0.51 J**	0.3 U	0.67 U	5 U	5 U
Calcium	160 U	19.4 U	162 U	74 U	183 U	159 U	**204 J**	**116 J**
Chromium	2.1 U	2.1 U	2.1 U	**2.4 J**	2 U	2 U	10 U	10 U
Iron	16.6 U	1.4 U	22.3 U	**7.7 J**	7 U	7 U	**7.8 J**	7 U
Lead	0.78 R	0.68 U	**0.83 J**	**0.8 J**	0.7 U	0.7 U	**0.8 J**	0.7 U
Magnesium	21.3 U	21.3 U	31.5 U	12.1 U	**15.5 J**	12.1 U	12.1 U	12.1 U
Manganese	0.46 U	0.37 U	0.6 U	0.6 U	0.6 U	**0.67 J**	0.6 U	0.6 U
Nickel	3.8 U	3.8 U	7 U	6.5 U	6.5 U	6.5 U	40 U	**7 J**
Silver	0.23 U	0.19 U	0.02 UJ	**0.5 J**	0.32 U	**2 R**	**10 R**	**10 R**
Sodium	632 U	291 U	642 U	18.9 U	33.4 U	57.7 U	**55.3 J**	**52.3 J**
Zinc	6.8 U	3.6 U	**7.4 J**	2 U	**6.5 J**	2.9 U	**6.3 J**	**6 J**

NOTES:
ug/L = micrograms per liter
U = The value is below the Contract Required Quantitation Limit (CRQL).
J = The value is estimated.
UJ = The quantitation limit is estimated.
R = The value was rejected.

Data validation (U, J, UJ, R qualifiers) by Heartland Environmental Services of St. Peters, Missouri.

TABLE 4–3
ANALYTICAL RESULTS REPORT
CONTAMINANTS DETECTED IN
FIELD BLANKS
NAS Jacksonville, Florida

SAMPLE NUMBER DATE COLLECTED UNIT	FB001 30–Jan–92 (ug/L)	FB002 31–Jan–92 (ug/L)	FB003 01–Feb–92 (ug/L)
VOLATILE COMPOUNDS			
Chlorobenzene	**14**	**12**	**17**
SEMIVOLATIVE COMPOUNDS			
Bis(2–Ethylhexyl)Phthalate	**2 J**	10 U	**3 J**
INORGANICS			
Aluminum	**43.4 J**	**43.2 J**	54.1 U
Arsenic	0.69 U	0.69 U	**1.2 J**
Barium	**0.73 J**	**0.93 J**	0.8 U
Copper	2.1 U	**5.6 J**	10.3 U
Lead	**0.78 R**	0.68 U	**1.6 J**
Thallium	**1.6 J**	1.4 UJ	1.4 U

NOTES:
ug/L = micrograms per liter
U = The value is below the Contract Required Quantitation Limit (CRQL).
J = The value is estimated.
UJ = The quantitation limit is estimated.
R = The value was rejected.

Data validation (U, J, UJ, R qualifiers) by Heartland Environmental Services of St. Peters , Missouri.

laboratory contaminant. Estimated concentrations of aluminum, arsenic, barium, copper, lead, thallium and zinc were detected in some of the field blank samples.

4.1.3 Trip Blank

The trip blank is a sample of organic free deionized water that travels with the samples and is not opened at the site. The purpose of the trip blank is to monitor conditions of the sample during sample storage and transport. The trip blanks were analyzed only for TCL volatile organic constituents. A summary of the field blank samples and detected target constituents is provided in Table 4-4. Methylene chloride was detected in trip blank TB003. Methylene chloride is a common laboratory contaminant.

TABLE 4-4
ANALYTICAL RESULTS REPORT
CONTAMINANTS DETECTED IN
TRIP BLANKS
OU1, NAS Jacksonville, Florida

SAMPLE NUMBER DATE COLLECTED UNIT	TB001 30-Jan-92 (ug/L)	TB002 31-Jan-92 (ug/L)	TB003 01-Feb-92 (ug/L)	TB004 02-Feb-92 (ug/L)	TB005 02-Feb-92 (ug/L)	TB006 04-Feb-92 (ug/L)
VOLATILE COMPOUNDS						
Methylene Chloride	7 U	5 U	9	12 UJ	12 UJ	15 U

NOTES:
ug/L = micrograms per liter
U = The value is below the Contract Required Quantitation Limit (CRQL).
J = The value is estimated.
UJ = The quantitation limit is estimated.
R = The value was rejected.

Data validation (U, J, UJ, R qualifiers) by Heartland Environmental Services of St. Peters, Missouri.

5.0 DATA VALIDATION

The analytical records generated by the subcontract laboratory, CH2M Hill of Gainesville, Florida were validated (reviewed) by Heartland Environmental Services, Inc. (Heartland) of St. Peters, Missouri. The purpose of the data review is to provide an independent check of the data quality with respect to the analytical method requirements. Based on this review, data use restrictions (qualifiers) are made, if necessary, according to a unified approach which uses quality control protocols in combination with technical expertise and professional judgement.

The review by Heartland was conducted in accordance with Level D Data Validation Guidelines as specified by NEESA in the Sampling and Chemical Analysis Quality Assurance Requirements for the Navy Installation Restoration Program, NEESA 20.2-047B, June, 1988, and the USEPA's Functional Guidelines for Organics. Method-specific references were also used by Heartland as a basis for reviewing the data and applying data validation flags, except as specifically noted in review comments. The following is a description of the data qualifiers that were used by Heartland to indicate the data quality:

- U Indicates that a target constituent was not detected above the contract required quantitation limit (CRQL);

- J Indicates that 1) the analyte was present at an estimated value, but the reported value may not be accurate because the concentration detected was between the CRQL and the method detection limit (MDL), or 2) that the data "failed" some of the analytical validation criteria but not sufficiently to reject the data, and 3) when combined with a U qualifier the quantitation limit is estimated; and

- R Indicates that the data failed some of the analytical validation criteria and is not usable. Either re-analysis or re-sampling and analysis would be necessary to determine the presence or absence of the target analyte(s).

A summary of the functional guidelines used by Heartland to validate the data is provided in Appendix D. The data validation summary provides a discussion and tabulation of the functional guidelines used for each sample delivery group (SDG) and associated samples and the rational for the data qualifiers that were applied to some of the surface water and sediment samples for each of the identified target compounds. Tabulation of the functional guidelines is provided in Appendix D-1 for VOCs, D-2 for BNAs, D-3 for Pesticides/PCBs, and D-4 for Inorganics and Cyanide.

6.0 CHEMICAL ANALYTICAL RESULTS

6.1 CHEMICAL ANALYTICAL DATA SUMMARY

Overall, the chemical analytical data are acceptable, however, some of the data was qualified as unusable (R qualifier). Data usability will be addressed in the Preliminary Characterization Summary Report (PCSR). The data usability will be assessed by using the results of the data validation of the analytical method combined with the Quality Control (QC) samples to evaluate the performance of the laboratory during the period in which the surface water and sediment samples were analyzed. The QC samples include; method blanks, trip blanks, equipment rinsate blanks, laboratory control samples, surrogate spikes, matrix spike/matrix spike duplicates and field duplicates. The QC samples will be evaluated in terms of precision, accuracy representativeness, completeness and comparability.

Precision is a measure of the reproducibility of analytical results under a given set of conditions. Accuracy is the nearness of a result to a true value. Representativeness is a qualitative parameter which expresses the degree to which the sample data are characteristic of a population, parameter variations at a sampling point, or an environmental condition. Completeness of analytical results is defined as the percentage of acceptable data relative to the number of test conducted. Comparability of the analytical data is a qualitative assessment to determine if the analytical results are equivalent to data obtained from similar methods.

The purpose of evaluating data usability and validation of the analytical method is to address the qualification of the data in regards to evaluation of the presence, magnitude and characteristics of hazardous substances at OU1. Additional data needs such as re-sampling, if required, for rejected data, confirmation sampling of detected target constituents, background soil sample locations, or data needs for treatability and base line risk assessment will be addressed in the PCSR.

6.2 CHEMICAL ANALYTICAL DATA EVALUATION

A preliminary evaluation of the chemical analytical results for the surface water and sediment samples with preliminary applicable or relevant and appropriate requirements (ARARS) is presented in Figures 6-1 through 6-8. It should be noted that a complete determination of the data usability has not been conducted and the ARARs selected may be revised; therefore, the assessment of the analytical results presented in Figures 6-1 through 6-8 are subject to change.

The ARARS selected for the preliminary evaluation were:

- Draft sediment quality goals (SQGs) which are guidelines developed for the Florida Coastal Management Program by McDonald Environmental Sciences, Inc. (McDonald, 1992);

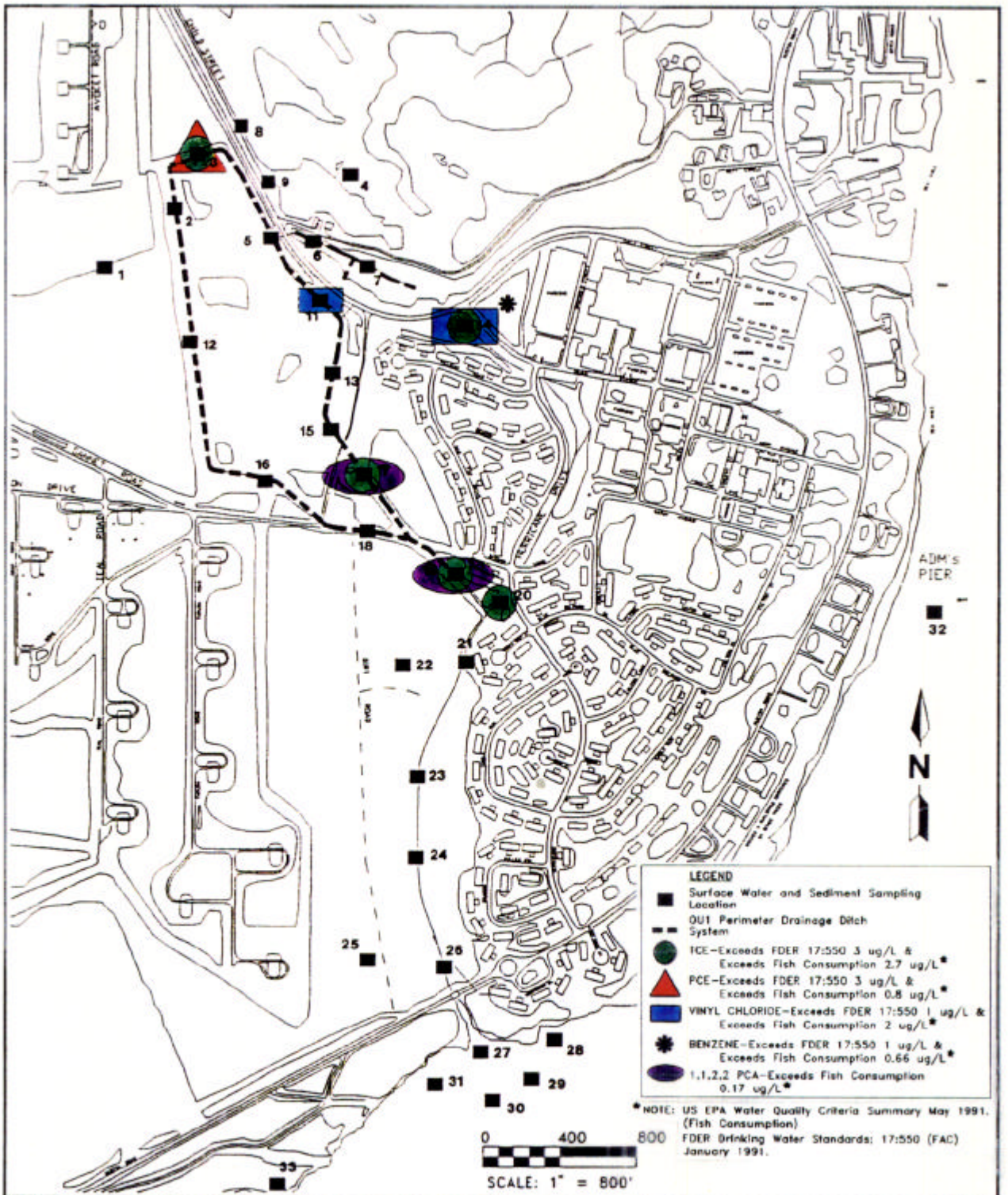

FIGURE 6-1

VOLATILE ORGANIC COMPOUNDS IN SURFACE WATER SAMPLES

SAMPLING EVENT REPORT NUMBER 7-SURFACE WATER AND SEDIMENT OU1

NAS JACKSONVILLE JACKSONVILLE, FLORIDA

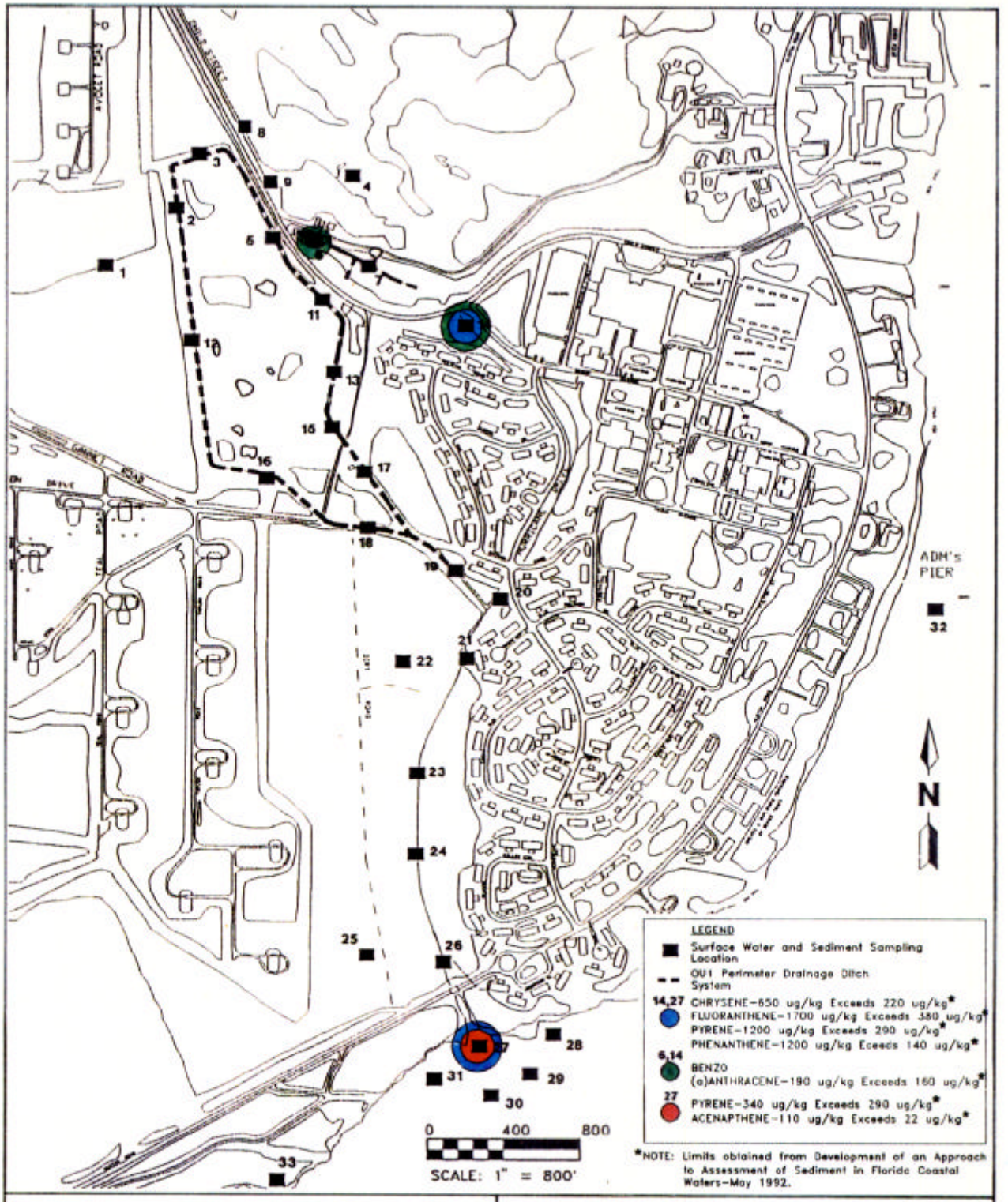

FIGURE 6-2
SEMI-VOLATILE COMPOUNDS IN SEDIMENT SAMPLES

SAMPLING EVENT REPORT NUMBER 7-SURFACE WATER AND SEDIMENT OU1

NAS JACKSONVILLE JACKSONVILLE, FLORIDA

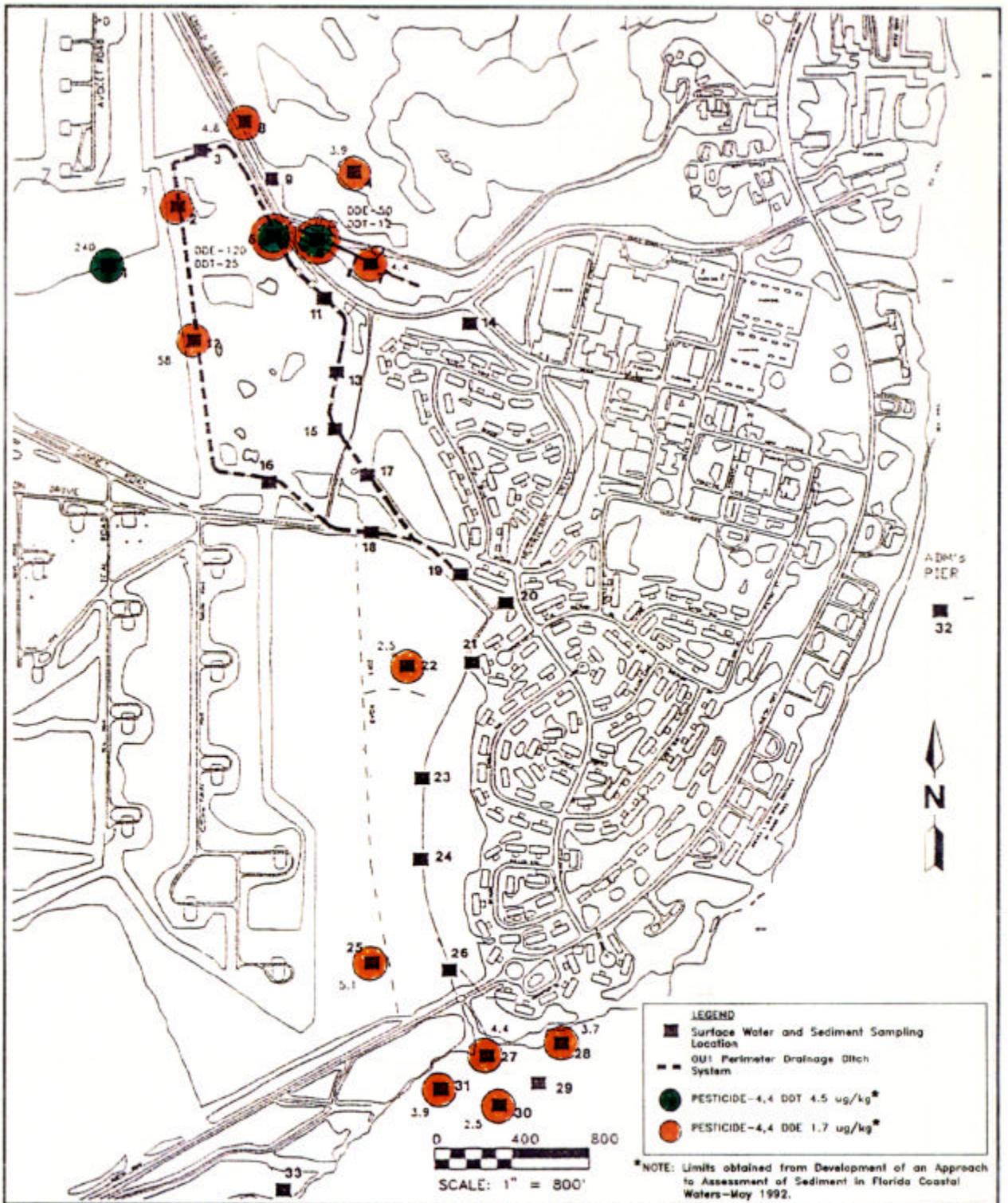

FIGURE 6-3

PESTICIDES IN SEDIMENT SAMPLES

SAMPLING EVENT REPORT NUMBER 7-SURFACE WATER AND SEDIMENT OU1

NAS JACKSONVILLE JACKSONVILLE, FLORIDA

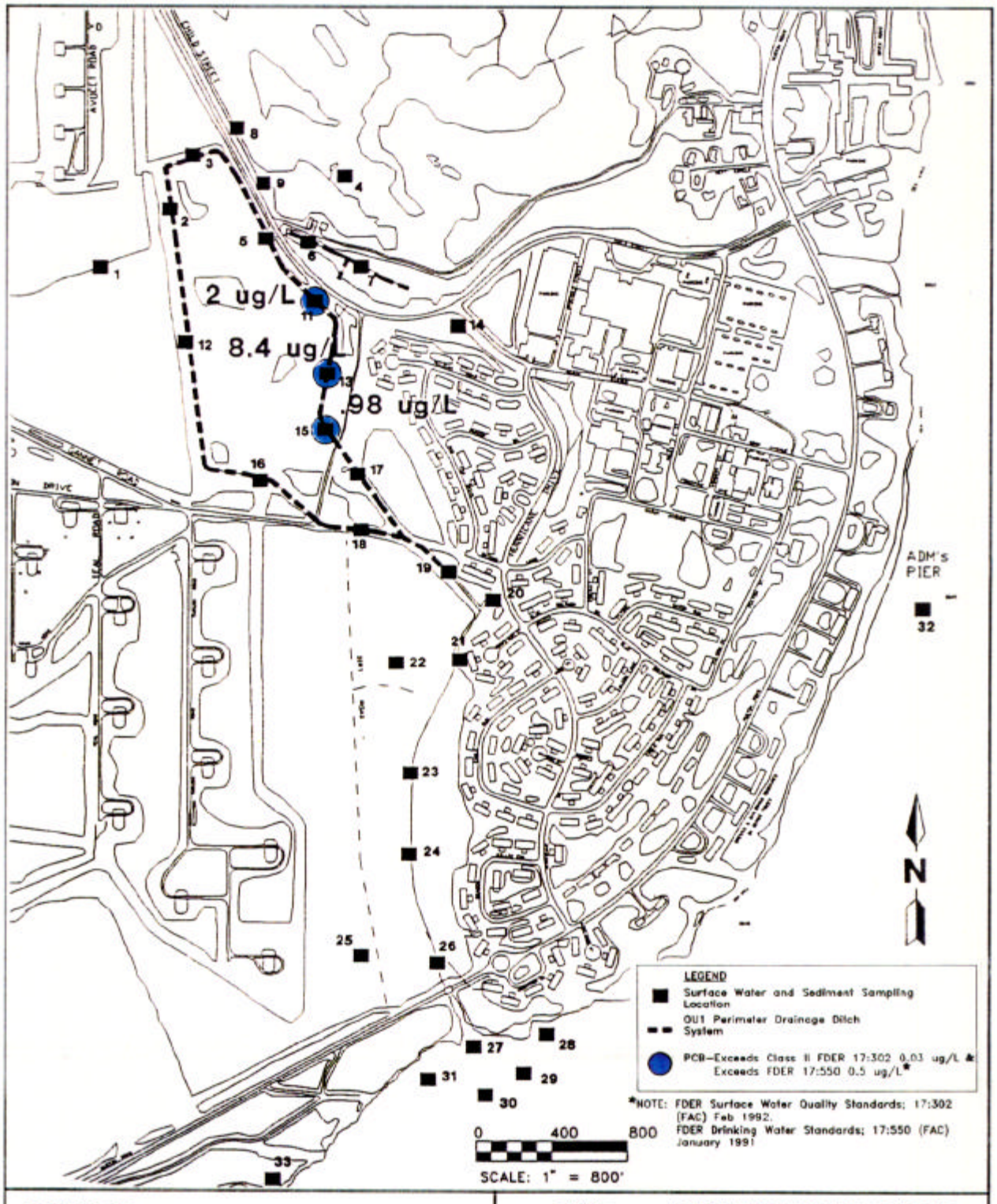

FIGURE 6-4
PCBs IN SURFACE WATER SAMPLES

SAMPLING EVENT REPORT NUMBER 7-SURFACE WATER AND SEDIMENT OU1

NAS JACKSONVILLE
JACKSONVILLE, FLORIDA

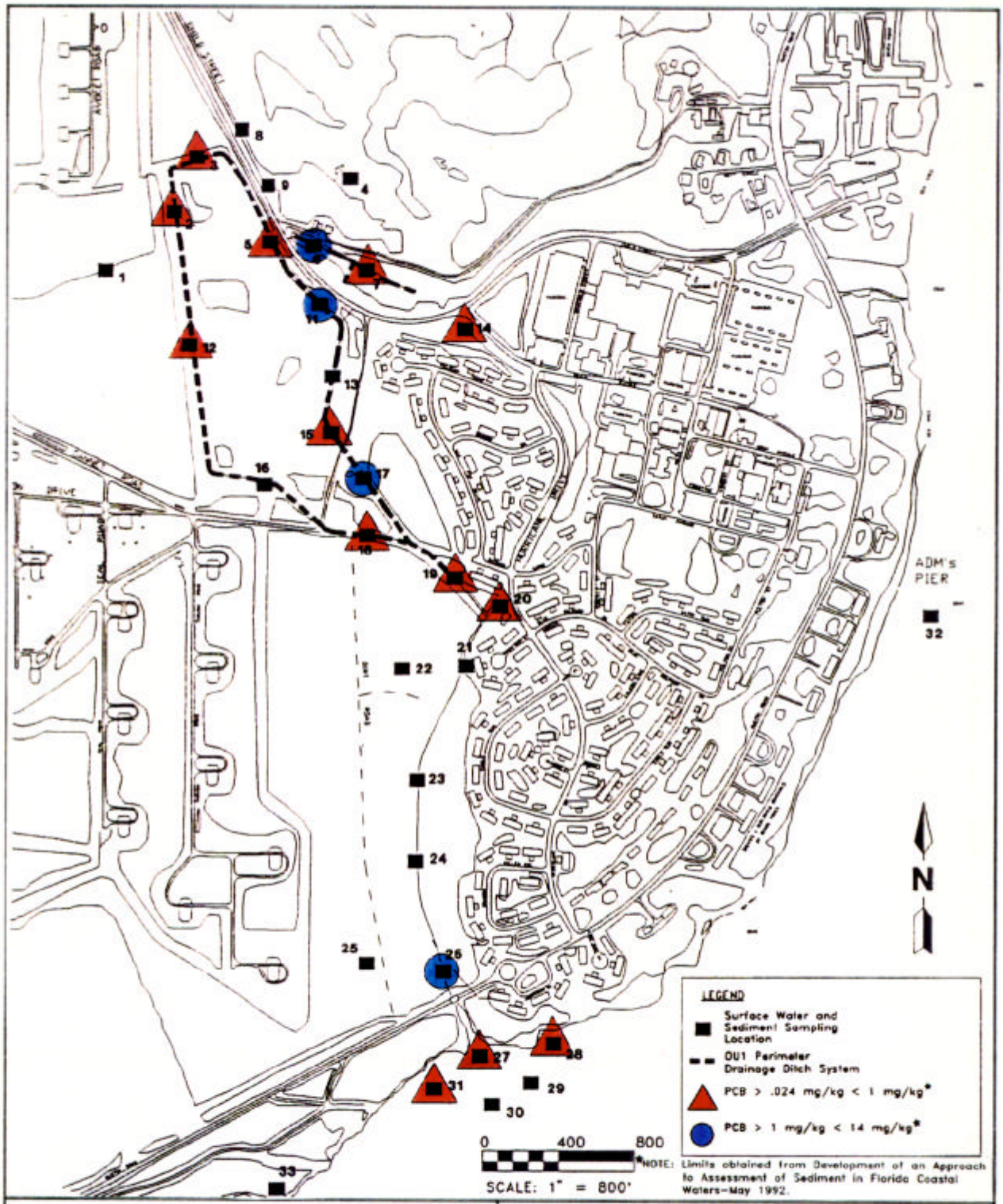

FIGURE 6-5
PCBs IN SEDIMENT SAMPLES

SAMPLING EVENT REPORT NUMBER 7-SURFACE WATER AND SEDIMENT OU1

NAS JACKSONVILLE JACKSONVILLE, FLORIDA

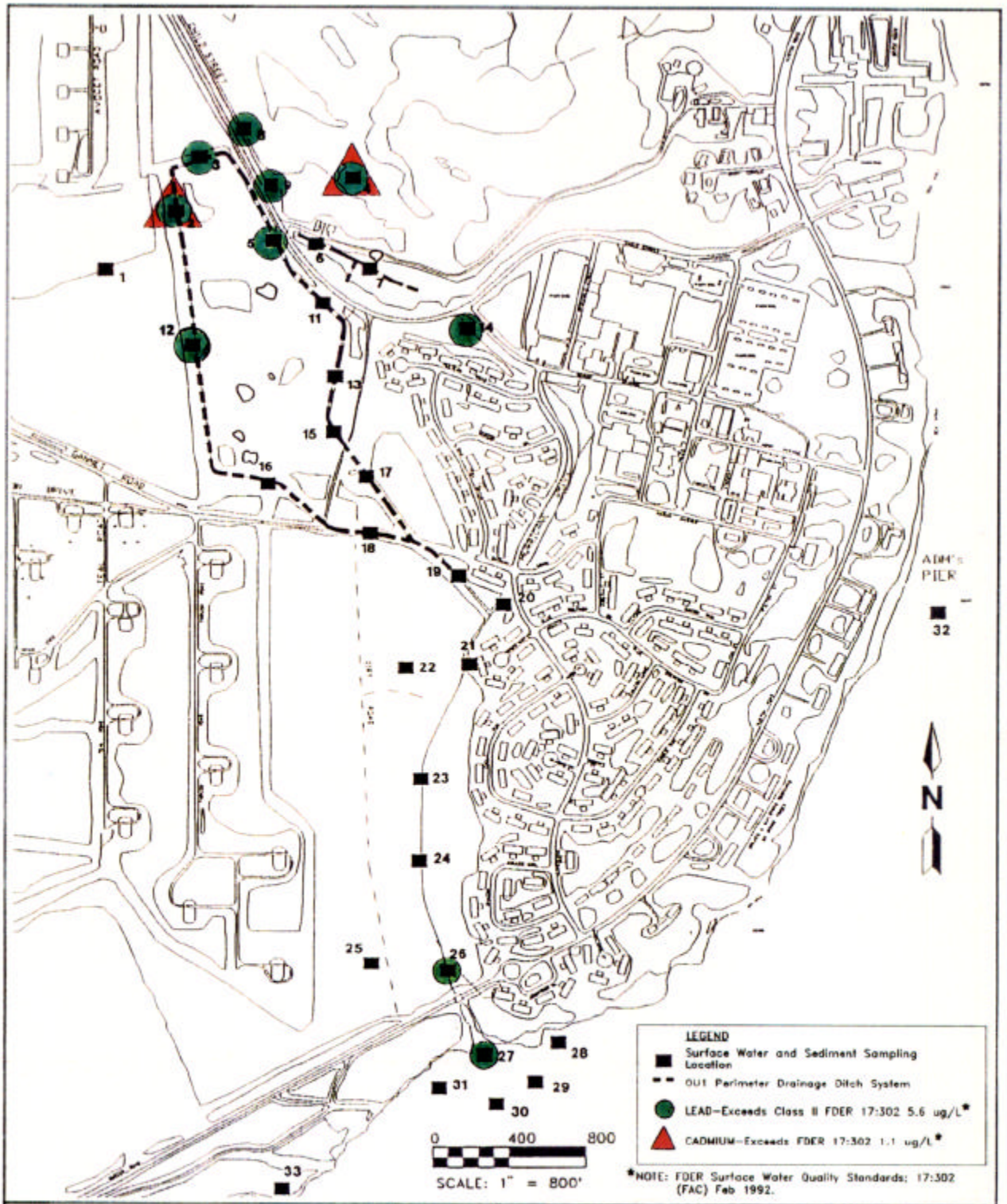

FIGURE 6-6

INORGANIC TARGET ANALYTES IN SURFACE WATER SAMPLES

SAMPLING EVENT REPORT NUMBER 7-SURFACE WATER AND SEDIMENT OU1

NAS JACKSONVILLE JACKSONVILLE, FLORIDA

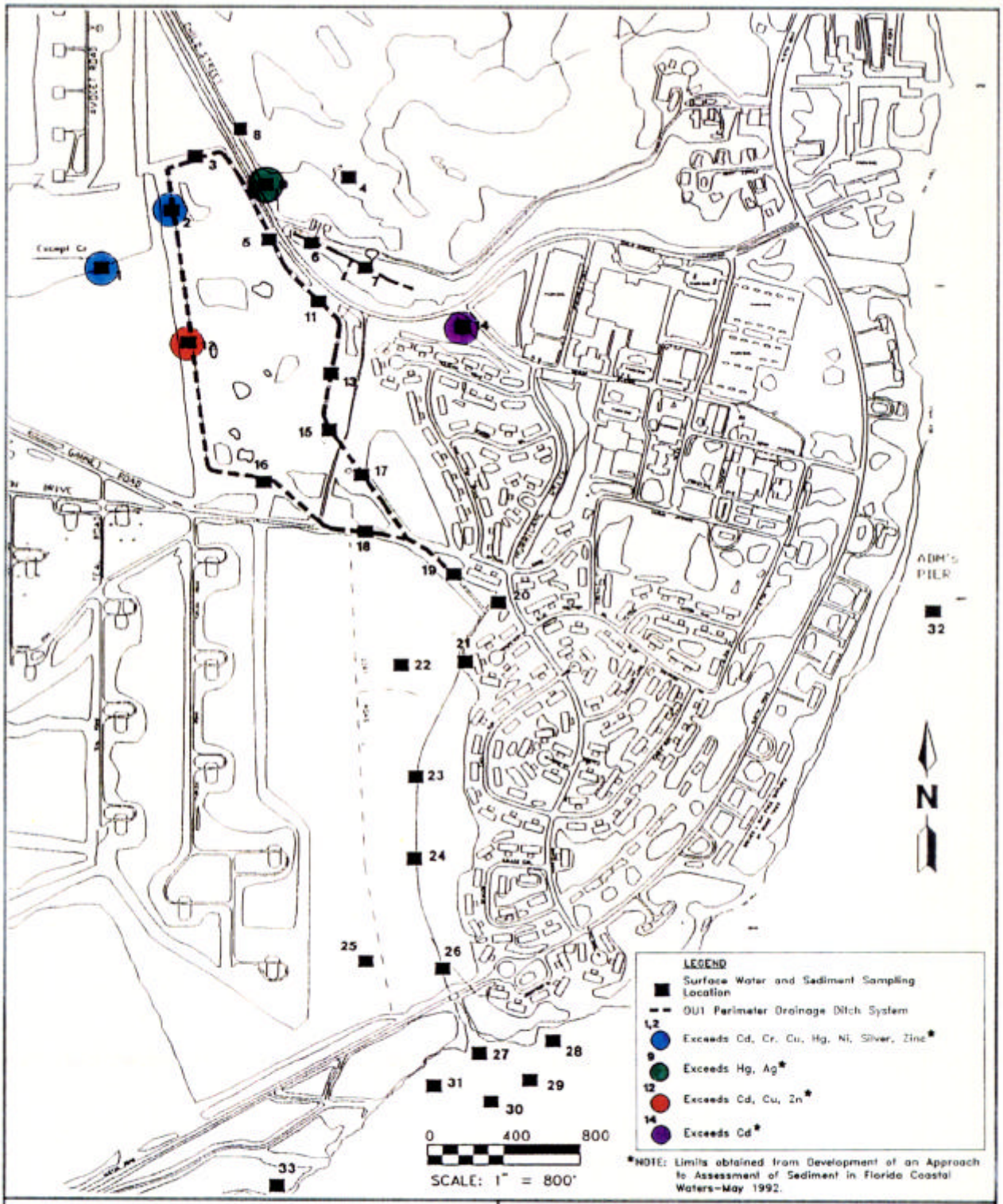

FIGURE 6-7
INORGANIC TARGET ANALYTES IN SEDIMENT SAMPLES

SAMPLING EVENT REPORT NUMBER 7-SURFACE WATER AND SEDIMENT OU1

NAS JACKSONVILLE JACKSONVILLE, FLORIDA

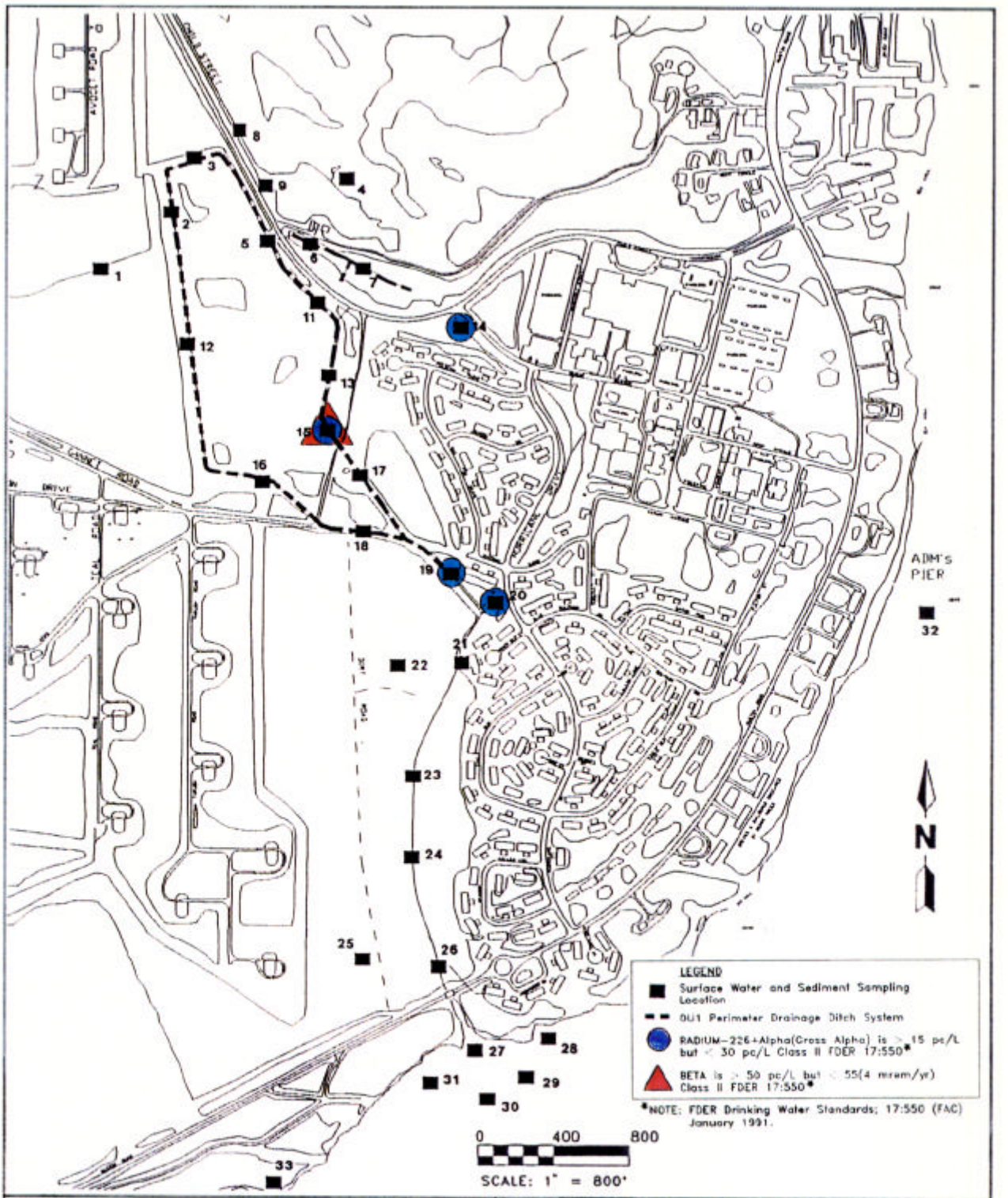

FIGURE 6-8

RADIONUCLIDES IN SURFACE WATER SAMPLES

SAMPLING EVENT REPORT NUMBER 7-SURFACE WATER AND SEDIMENT OU1

NAS JACKSONVILLE JACKSONVILLE, FLORIDA

- Florida Surface Water Classification Standards (FSWCS) which are promulgated under Chapter 17-302 Rules and Regulations of the State of Florida;

- Florida Drinking Water Standards (FDWS) which are promulgated under Chapter 17-550 Rules and Regulations of the State of Florida; and

- United States Environmental Protection Agency (USEPA) Ambient Water Quality Criteria (AWQC) which are guidelines developed for the Clean Water Act, 40 CFR Part 131.

Volatile Organic Compounds (VOCs). Concentrations of VOC target analytes, benzene, trichloroethene (TCE), tetrachloroethene (PCE), vinyl chloride (VC), and 1,1,2,2-tetrachloroethane (1,1,2,2-TCA) were detected in some of the surface water samples in excess of preliminary ARARS (Figure 6-1). Benzene, TCE, PCE, and VC exceeded the FDWS which was applied to surface water quality in absence of a FSWCS standard and the FSWCS standard for consumption of fish and water. 1,1,2,2-DCA exceeded the FSWCS standard for consumption of fish and water.

Concentrations of VOCs were not detected in excess of the preliminary ARARS in the sediment samples.

Semi-volatile Organic Compounds. Concentrations of semi-volatile organic compound (BNAs) target analytes chrysene, fluoranthene, pyrene, phenanthrene, benzo anthracene, pyrene, and acenapthene were detected in some of the sediment samples in excess of the draft sediment quality goals (Figure 6-2).

Concentrations of BNAs were not detected in surface water samples in excess of the preliminary ARARs.

Pesticides. Concentrations of pesticide target analytes 4,4-DDT and 4,4-DDE were detected in some of the sediment samples in excess of the draft sediment quality goals (Figure 6-3). Concentrations of pesticides were not detected in surface water samples in excess of the preliminary ARARs.

PCBs. Concentrations of PCB target analytes were detected in some of the surface water and sediment samples in excess of preliminary ARARs (Figures 6-4 and 6-5 respectively). PCBs detected in the surface water samples exceeded preliminary ARARs for both the FSWCS and the FWCS. PCBs in the sediment samples exceeded preliminary ARARS developed as draft sediment quality goals.

Inorganic Target Analytes. Concentrations of inorganic target analytes were detected in surface water samples (lead (Pb) and cadmium, (Cd)) and sediment samples (cadmium , chromium (Cr) copper (Cu), mercury (Hg), nickel (Ni), silver (Ag), and zinc (Zn)) in excess of the preliminary ARARs (Figure 6-6 and Figure 6-7, respectively). In the surface water samples Pb and Cd exceeded the Class II FSWCS preliminary ARAR. In the sediment samples Cd, Cr, Cu, Hg, Ni, Ag, and Zn exceeded the draft sediment quality goals.

Radionuclides. Radionuclide target constituents (combined values for Radium 226 and Gross Alpha, and Gross Beta) and were detected in surface water samples in excess of preliminary ARARs (Figure 6-8). Radium 226 plus Alpha (gross) and Beta (Gross) exceeded the FDWS which was applied to surface water quality in absence of a FSWCS standard. Currently, adequate sediment background data does not exist for comparison to the chemical analytical data. No ARARs exist for radionuclides (Radium 226, Radium 228, Gross Alpha or Gross Beta) in sediments.

REFERENCES

Geraghty and Miller, Inc., 1991a. Navy Installation Restoration Program Plan, Naval Air Station, Jacksonville, Florida Volume 1, Organization and Planing. 13-0019-IRPP VOL 1: (&P, September 1991.

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Appendix A
Field Data Records

ABB ENVIRONMENTAL SERVICES, INC

FIELD DATA RECORD - SURFACE WATER & SEDIMENT

JOB NUMBER: 7555-05 DATE: 2/3/92

SITE: NAS JAX OU1

LOCATION ACTIVITY: START: 1259 END: 1320

SW SAMPLE LOCATION ID: J260292 SW001

SD SAMPLE LOCATION ID:

SURFACE WATER DATA

WATER DEPTH @ SAMPLE LOCATION: 4' FT

DEPTH OF SAMPLE FROM TOP OF WATER: 0-6" FT

TEMPERATURE: 15 DEG C.

pH ..... 7.2 UNITS

SPEC. COND. 350 umhos/cm

TYPE OF SURFACE WATER:
- [ ] STREAM
- [ ] RIVER
- [ ] POND/LAKE
- [ ] SEEP
- [x] OTHER Ditch

EQUIPMENT USED FOR COLLECTION:
- [x] Pyrex Beaker
- [ ] NONE, GRAB INTO BOTTLE
- [ ] BOMB SAMPLER
- [ ] PUMP

VELOCITY MEASUREMENTS OBTAINED:
- [ ] YES, SEE FLOW DATA BELOW
- [x] NO

DECONTAMINATION FLUIDS USED:
- [x] LIQUI-NOX
- [x] DEIONIZED WATER
- [ ] TSP SOLUTION
- [ ] HEXANE
- [ ] HNO3 SOLUTION
- [ ] POTABLE WATER
- [ ] NONE
- [x] Iso-Propyl Alcohol

FIELD QC DATA: [ ] FIELD DUPLICATE COLLECTED DUP. ID _____

SAMPLE LOCATION SKETCH BELOW ?
- [ ] YES
- [x] NO

SEDIMENT DATA

DEPTH OF SEDIMENT SAMPLE: _____ IN

TYPE OF SAMPLE COLLECTED:
- [x] DISCRETE
- [ ] COMPOSITE

SAMPLE OBSERVATIONS:
- [ ] ODOR _____
- [ ] COLORED _____
- [ ] _____

TYPE OF SEDIMENT:
- [ ] CLAY
- [ ] SAND
- [ ] ORGANIC
- [ ] GRAVEL
- [ ] OTHER: _____

EQUIPMENT USED FOR COLLECTION:
- [ ] GRAVITY CORER
- [ ] S.S. SPLIT SPOON
- [ ] HAND SPOON
- [ ] ALUMINUM PANS
- [ ] S.S. BUCKET
- [ ] DREDGE
- [ ] _____

DECONTAMINATION FLUIDS USED
- [ ] LIQUI-NOX
- [ ] DEIONIZED WATER
- [ ] TSP SOLUTION
- [ ] HEXANE
- [ ] HNO3 SOLUTION
- [ ] POTABLE WATER
- [ ] STREAM WATER
- [ ] NONE

FIELD QC DATA: [ ] FIELD DUPLICATE COLLECTED. DUP ID _____

ANALYTICAL PARAMETERS

	METHOD NUMBER	MATRIX SW	MATRIX SED	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	SAMPLE BOTTLE ID NUMBERS
[x] VOC w/TIC	624	[x]	[ ]	HCL	120 ML	[x]	___/___/___/___
[x] Semi-Volatile Organic w/TIC	625	[x]	[ ]	4°C	2L	[x]	___/___/___/___
[x] PCB/PEST	608	[x]	[ ]	4°C	2 Liter	[x]	___/___/___/___
[x] TAL/TCL metals		[x]	[ ]	HNO3	1 Liter	[x]	___/___/___/___
[x] Cyanide	335.2	[x]	[ ]	NAOH	1/2 gallon	[x]	___/___/___/___
[x] Gross Alpha	9310	[x]	[ ]			[x]	___/___/___/___
[x] Gross Beta	9310	[x]	[ ]	HNO3	HNO3	[x]	___/___/___/___
[x] Radium 226	9315	[x]	[ ]			[x]	___/___/___/___
[x] Radium 228	9320	[x]	[ ]			[x]	___/___/___/___
[ ]		[ ]	[ ]			[ ]	___/___/___/___
[ ]		[ ]	[ ]			[ ]	___/___/___/___
[ ]		[ ]	[ ]			[ ]	___/___/___/___

NOTES

MD 8/9/89

SIGNATURE: _____

ABB ENVIRONMENTAL SERVICES, INC

FIELD DATA RECORD - SURFACE WATER & SEDIMENT

JOB NUMBER: 7555-05 DATE: 2/3/92

PROJECT: NAS JAX OU1

LOCATION ACTIVITY: START: END:

SW SAMPLE LOCATION ID:

SD SAMPLE LOCATION ID: J2602925D001

SURFACE WATER DATA

WATER DEPTH @ SAMPLE LOCATION: FT

DEPTH OF SAMPLE FROM TOP OF WATER: FT

TEMPERATURE: DEG C.

pH .....: UNITS

SPEC. COND.: umhos/cm

TYPE OF SURFACE WATER:
- [ ] STREAM
- [ ] RIVER
- [ ] POND/LAKE
- [ ] SEEP
- [x] OTHER Ditch

EQUIPMENT USED FOR COLLECTION:
- [ ] NONE, GRAB INTO BOTTLE
- [ ] BOMB SAMPLER
- [ ] PUMP

VELOCITY MESUREMENTS OBTAINED:
- [ ] YES, SEE FLOW DATA BELOW
- [x] NO

DECONTAMINATION FLUIDS USED:
- [ ] LIQUI-NOX
- [ ] DEIONIZED WATER
- [ ] TSP SOLUTION
- [ ] HEXANE
- [ ] HNO3 SOLUTION
- [ ] POTABLE WATER
- [ ] NONE

FIELD QC DATA: [ ] FIELD DUPLICATE COLLECTED DUP. ID

SAMPLE LOCATION SKETCH BELOW ?
- [ ] YES
- [x] NO

SEDIMENT DATA

DEPTH OF SEDIMENT SAMPLE: 0-6" IN

TYPE OF SAMPLE COLLECTED:
- [x] DISCRETE
- [x] COMPOSITE

SAMPLE OBSERVATIONS:
- [ ] ODOR
- [ ] COLORED

TYPE OF SEDIMENT:
- [ ] CLAY
- [ ] SAND
- [ ] ORGANIC
- [ ] GRAVEL
- [ ] OTHER:

EQUIPMENT USED FOR COLLECTION:
- [ ] GRAVITY CORER
- [ ] S.S. SPLIT SPOON
- [ ] HAND SPOON
- [ ] ALUMINUM PANS
- [x] S.S. BUCKET
- [ ] DREDGE

DECONTAMINATION FLUIDS USED
- [x] LIQUI-NOX
- [x] DEIONIZED WATER
- [ ] TSP SOLUTION
- [ ] HEXANE
- [ ] HNO3 SOLUTION
- [ ] POTABLE WATER
- [ ] STREAM WATER
- [ ] NONE
- [x] Iso-Propyl Alcohol

FIELD QC DATA: [ ] FIELD DUPLICATE COLLECTED. DUP ID

ANALYTICAL PARAMETERS

	METHOD NUMBER	MATRIX SW	MATRIX SED	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	SAMPLE BOTTLE ID NUMBERS
[x] VOC w/TIC	8240	[ ]	[x]	4°C	8oz	[x]	/ / /
[x] Semi-volatile organic	8270	[ ]	[x]	4°C	8oz	[x]	/ / /
[x] PCB/Pest	8080	[ ]	[x]	4°C		[x]	/ / /
[x] TAL/TCL Metals		[ ]	[x]			[x]	/ / /
[x] Cyanide	Distillate	[ ]	[x]	4°C		[x]	/ / /
[x] Gross Alpha	9310	[ ]	[x]	4°C	8oz	[x]	/ / /
[x] Gross Beta	9310	[ ]	[x]	4°C		[x]	/ / /
[x] Radium-226	9315	[ ]	[x]	4°C		[x]	/ / /
[x] Radium-228	9320	[ ]	[x]	4°C		[x]	/ / /
[ ]		[ ]	[ ]			[ ]	/ / /

NOTES

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SIGNATURE:

ABB ENVIRONMENTAL SERVICES, INC

FIELD DATA RECORD - SURFACE WATER & SEDIMENT

JOB NUMBER: 7555-05 DATE: 2-1-92

PROJECT: NAS JAX OU1

LOCATION ACTIVITY START: 1245 END: 1337

SW SAMPLE LOCATION ID: J2600292SW002

SD SAMPLE LOCATION ID:

SURFACE WATER DATA

WATER DEPTH @ SAMPLE LOCATION: 3' FT

DEPTH OF SAMPLE FROM TOP OF WATER: 6" FT

TEMPERATURE: 14 DEG C.

pH ..... 7.3 UNITS

SPEC. COND. 600 umhos/cm

TYPE OF SURFACE WATER:
- [ ] STREAM
- [ ] RIVER
- [ ] POND/LAKE
- [ ] SEEP
- [x] OTHER Ditch

EQUIPMENT USED FOR COLLECTION:
- [x] Pyrex Beaker
- [ ] NONE, GRAB INTO BOTTLE
- [ ] BOMB SAMPLER
- [ ] PUMP

VELOCITY MEASUREMENTS OBTAINED:
- [ ] YES, SEE FLOW DATA BELOW
- [x] NO

DECONTAMINATION FLUIDS USED:
- [x] LIQUI-NOX
- [x] DEIONIZED WATER
- [ ] TSP SOLUTION
- [ ] HEXANE
- [ ] HNO3 SOLUTION
- [ ] POTABLE WATER
- [ ] NONE
- [x] Iso-Propyl Alcohol

FIELD QC DATA: [ ] FIELD DUPLICATE COLLECTED DUP. ID _____

SAMPLE LOCATION SKETCH BELOW ?
- [ ] YES
- [x] NO

SEDIMENT DATA

DEPTH OF SEDIMENT SAMPLE: _____ IN

TYPE OF SAMPLE COLLECTED:
- [x] DISCRETE
- [ ] COMPOSITE

SAMPLE OBSERVATIONS:
- [ ] ODOR _____
- [ ] COLORED _____
- [ ] _____

TYPE OF SEDIMENT:
- [ ] CLAY
- [ ] SAND
- [ ] ORGANIC
- [ ] GRAVEL
- [ ] OTHER: _____

EQUIPMENT USED FOR COLLECTION:
- [ ] GRAVITY CORER
- [ ] S.S. SPLIT SPOON
- [ ] HAND SPOON
- [ ] ALUMINUM PANS
- [ ] S.S. BUCKET
- [ ] DREDGE
- [ ] _____

DECONTAMINATION FLUIDS USED
- [ ] LIQUI-NOX
- [ ] DEIONIZED WATER
- [ ] TSP SOLUTION
- [ ] HEXANE
- [ ] HNO3 SOLUTION
- [ ] POTABLE WATER
- [ ] STREAM WATER
- [ ] NONE

FIELD QC DATA: [ ] FIELD DUPLICATE COLLECTED. DUP ID _____

ANALYTICAL PARAMETERS

	METHOD NUMBER	MATRIX SW	MATRIX SED	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	SAMPLE BOTTLE ID NUMBERS
[x] VOC w/TIC	624	[x]	[ ]	HCL	120 ML	[x]	___/___/___/___
[x] Semi-Volatile Organic w/TIC	625	[x]	[ ]	4°C	2L	[x]	___/___/___/___
[x] PCB/PEST	608	[x]	[ ]	4°C	2Liter	[x]	___/___/___/___
[x] TAL/TCL metals		[x]	[ ]	HNO3	1Liter	[x]	___/___/___/___
[x] Cyanide	335.2	[x]	[ ]	NaOH	1/2 gallon	[x]	___/___/___/___
[x] Gross Alpha	9310	[x]	[ ]			[x]	___/___/___/___
[x] Gross Beta	9310	[x]	[ ]	HNO3	HNO3	[x]	___/___/___/___
[x] Radium 226	9315	[x]	[ ]			[x]	___/___/___/___
[x] Radium 228	9320	[x]	[ ]			[x]	___/___/___/___
[ ]		[ ]	[ ]			[ ]	___/___/___/___
[ ]		[ ]	[ ]			[ ]	___/___/___/___
[ ]		[ ]	[ ]			[ ]	___/___/___/___

NOTES

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SIGNATURE: _____

ABB ENVIRONMENTAL SERVICES, INC

FIELD DATA RECORD - SURFACE WATER & SEDIMENT

JOB NUMBER: 7555-05 DATE: 2-1-92

PROJECT: NAS JAX OU1

LOCATION ACTIVITY START: 1245 END: 1337

SW SAMPLE LOCATION ID:

SD SAMPLE LOCATION ID: J2602925D002

SURFACE WATER DATA

WATER DEPTH @ SAMPLE LOCATION: FT

DEPTH OF SAMPLE FROM TOP OF WATER: FT

TEMPERATURE: DEG C.

PH .....: UNITS

SPEC. COND.: umhos/cm

TYPE OF SURFACE WATER:
- [ ] STREAM
- [ ] RIVER
- [ ] POND/LAKE
- [ ] SEEP
- [x] OTHER: Ditch

EQUIPMENT USED FOR COLLECTION:
- [ ] NONE, GRAB INTO BOTTLE
- [ ] BOMB SAMPLER
- [ ] PUMP

VELOCITY MESURREMENTS OBTAINED:
- [ ] YES, SEE FLOW DATA BELOW
- [x] NO

DECONTAMINATION FLUIDS USED:
- [ ] LIQUI-NOX
- [ ] DEIONIZED WATER
- [ ] TSP SOLUTION
- [ ] HEXANE
- [ ] HNO3 SOLUTION
- [ ] POTABLE WATER
- [ ] NONE

FIELD QC DATA: [ ] FIELD DUPLICATE COLLECTED DUP. ID

SAMPLE LOCATION SKETCH BELOW ?
- [ ] YES
- [x] NO

SEDIMENT DATA

DEPTH OF SEDIMENT SAMPLE: 6" IN

TYPE OF SAMPLE COLLECTED:
- [x] DISCRETE
- [x] COMPOSITE

SAMPLE OBSERVATIONS:
- [ ] ODOR
- [x] COLORED BLACK
- [ ]

TYPE OF SEDIMENT:
- [ ] CLAY
- [ ] SAND
- [ ] ORGANIC
- [ ] GRAVEL
- [x] OTHER: Silty Sand

EQUIPMENT USED FOR COLLECTION:
- [ ] GRAVITY CORER
- [ ] S.S. SPLIT SPOON
- [ ] HAND SPOON
- [ ] ALUMINUM PANS
- [x] S.S. BUCKET
- [ ] DREDGE
- [ ]

DECONTAMINATION FLUIDS USED
- [x] LIQUI-NOX
- [x] DEIONIZED WATER
- [ ] TSP SOLUTION
- [ ] HEXANE
- [ ] HNO3 SOLUTION
- [ ] POTABLE WATER
- [ ] STREAM WATER
- [ ] NONE
- [x] ISO-PROPYL Alcohol

FIELD QC DATA: [ ] FIELD DUPLICATE COLLECTED. DUP ID

ANALYTICAL PARAMETERS

	METHOD NUMBER	MATRIX SW	MATRIX SED	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	SAMPLE BOTTLE ID NUMBERS
[x] VOC W/TIC	8240	[ ]	[x]	4°C	8oz	[x]	/ / /
[x] Semi-Volatile Organic	8270	[ ]	[x]	4°C	8oz	[x]	/ / /
[x] PCB/Pest	8080	[ ]	[x]	4°C		[x]	/ / /
[x] TAL/TCL Metals		[ ]	[x]			[x]	/ / /
[x]		[ ]	[ ]			[x]	/ / /
[x] Cyanide	Dilbytanct	[ ]	[x]	4°C		[x]	/ / /
[x] Gross Alpha	9310	[ ]	[x]	4°C	8oz	[x]	/ / /
[x] Gross Beta	9310	[ ]	[x]	4°C		[x]	/ / /
[x] Radium-226	9315	[ ]	[x]	4°C		[x]	/ / /
[x] Radium-228	9320	[ ]	[x]	4°C		[x]	/ / /
[ ]		[ ]	[ ]			[ ]	/ / /

NOTES Glass + metal Frags) Sheen Noted During Samples

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SIGNATURE:

ABB ENVIRONMENTAL SERVICES, INC

FIELD DATA RECORD - SURFACE WATER & SEDIMENT

JOB NUMBER: 7555-05 DATE: 2-1-92

PROJECT: NAS JAX OU1

LOCATION ACTIVITY START: 0915 END: 1100

SW SAMPLE LOCATION ID: J260292SW003

SD SAMPLE LOCATION ID:

SURFACE WATER DATA

WATER DEPTH @ SAMPLE LOCATION: 2.6' FT

DEPTH OF SAMPLE FROM TOP OF WATER: 6" FT

TEMPERATURE: 12 DEG C.

pH ..... 6.9 UNITS

SPEC. COND. 550 umhos/cm

TYPE OF SURFACE WATER:
- [ ] STREAM
- [ ] RIVER
- [ ] POND/LAKE
- [ ] SEEP
- [x] OTHER Ditch

EQUIPMENT USED FOR COLLECTION:
- [x] Pyrex Beaker
- [ ] NONE, GRAB INTO BOTTLE
- [ ] BOMB SAMPLER
- [ ] PUMP

VELOCITY MEASUREMENTS OBTAINED:
- [ ] YES, SEE FLOW DATA BELOW
- [x] NO

DECONTAMINATION FLUIDS USED:
- [x] LIQUI-NOX
- [x] DEIONIZED WATER
- [ ] TSP SOLUTION
- [ ] HEXANE
- [ ] HNO3 SOLUTION
- [ ] POTABLE WATER
- [ ] NONE
- [x] Isopropyl Alcohol

FIELD QC DATA: [ ] FIELD DUPLICATE COLLECTED DUP. ID _____

SAMPLE LOCATION SKETCH BELOW ?
- [ ] YES
- [x] NO

SEDIMENT DATA

DEPTH OF SEDIMENT SAMPLE: _____ IN

TYPE OF SAMPLE COLLECTED:
- [x] DISCRETE
- [ ] COMPOSITE

SAMPLE OBSERVATIONS:
- [ ] ODOR _____
- [ ] COLORED _____
- [ ] _____

TYPE OF SEDIMENT:
- [ ] CLAY
- [ ] SAND
- [ ] ORGANIC
- [ ] GRAVEL
- [ ] OTHER: _____

EQUIPMENT USED FOR COLLECTION:
- [ ] GRAVITY CORER
- [ ] S.S. SPLIT SPOON
- [ ] HAND SPOON
- [ ] ALUMINUM PANS
- [ ] S.S. BUCKET
- [ ] DREDGE
- [ ] _____

DECONTAMINATION FLUIDS USED
- [ ] LIQUI-NOX
- [ ] DEIONIZED WATER
- [ ] TSP SOLUTION
- [ ] HEXANE
- [ ] HNO3 SOLUTION
- [ ] POTABLE WATER
- [ ] STREAM WATER
- [ ] NONE

FIELD QC DATA: [ ] FIELD DUPLICATE COLLECTED. DUP ID _____

ANALYTICAL PARAMETERS

	METHOD NUMBER	MATRIX SW	MATRIX SED	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	SAMPLE BOTTLE ID NUMBERS
[x] VOC w/TIC	624	[x]	[ ]	HCL	180 mL	[x]	___/___/___/___
[x] Semi-Volatile organic w/TIC	625	[x]	[ ]	4°C	2L	[x]	___/___/___/___
[x] PCB/PEST	608	[x]	[ ]	4°C	2 Liter	[x]	___/___/___/___
[x] TAL/TCL metals		[x]	[ ]	HNO3	1 Liter	[x]	___/___/___/___
[x] Cyanide	335.2	[x]	[ ]	NAOH	1/2 gallon	[x]	___/___/___/___
[x] Gross Alpha	9310	[x]	[ ]			[x]	___/___/___/___
[x] Gross Beta	9310	[x]	[ ]	HNO3	HNO3	[x]	___/___/___/___
[x] Radium 226	9315	[x]	[ ]			[x]	___/___/___/___
[x] Radium 228	9320	[x]	[ ]			[x]	___/___/___/___
[ ]		[ ]	[ ]			[ ]	___/___/___/___
[ ]		[ ]	[ ]			[ ]	___/___/___/___
[ ]		[ ]	[ ]			[ ]	___/___/___/___

NOTES

SIGNATURE: _____

ABB ENVIRONMENTAL SERVICES, INC

FIELD DATA RECORD - SURFACE WATER & SEDIMENT

JOB NUMBER: 7555-05 DATE: 2-1-92

PROJECT: NAS JAX OU1

LOCATION ACTIVITY START: 0915 END: 1100

SW SAMPLE LOCATION ID:

SD SAMPLE LOCATION ID: J260292SD003

SURFACE WATER DATA

WATER DEPTH @ SAMPLE LOCATION: FT

DEPTH OF SAMPLE FROM TOP OF WATER: FT

TEMPERATURE: DEG C.

pH .....: UNITS

SPEC. COND.: umhos/cm

TYPE OF SURFACE WATER:
- [ ] STREAM
- [ ] RIVER
- [ ] POND/LAKE
- [ ] SEEP
- [x] OTHER Ditch

EQUIPMENT USED FOR COLLECTION:
- [ ] NONE, GRAB INTO BOTTLE
- [ ] BOMB SAMPLER
- [ ] PUMP

VELOCITY MESUREMENTS OBTAINED:
- [ ] YES, SEE FLOW DATA BELOW
- [x] NO

DECONTAMINATION FLUIDS USED:
- [ ] LIQUI-NOX
- [ ] DEIONIZED WATER
- [ ] TSP SOLUTION
- [ ] HEXANE
- [ ] HNO3 SOLUTION
- [ ] POTABLE WATER
- [ ] NONE

FIELD QC. DATA: [ ] FIELD DUPLICATE COLLECTED DUP. ID

SAMPLE LOCATION SKETCH BELOW ?
- [ ] YES
- [x] NO

SEDIMENT DATA

DEPTH OF SEDIMENT SAMPLE: 6-12" IN

TYPE OF SAMPLE COLLECTED:
- [x] DISCRETE
- [x] COMPOSITE

SAMPLE OBSERVATIONS:
- [ ] ODOR
- [x] COLORED Lt Brown
- [ ]

TYPE OF SEDIMENT:
- [ ] CLAY
- [ ] SAND
- [ ] ORGANIC
- [ ] GRAVEL
- [x] OTHER: Silty Sand

EQUIPMENT USED FOR COLLECTION:
- [ ] GRAVITY CORER
- [ ] S.S. SPLIT SPOON
- [ ] HAND SPOON
- [ ] ALUMINUM PANS
- [x] S.S. BUCKET
- [ ] DREDGE
- [ ]

DECONTAMINATION FLUIDS USED
- [x] LIQUI-NOX
- [x] DEIONIZED WATER
- [ ] TSP SOLUTION
- [ ] HEXANE
- [ ] HNO3 SOLUTION
- [ ] POTABLE WATER
- [ ] STREAM WATER
- [ ] NONE
- [x] ISO-Propyl Alcohol

FIELD QC DATA: [ ] FIELD DUPLICATE COLLECTED. DUP ID

ANALYTICAL PARAMETERS

	METHOD NUMBER	MATRIX SW	MATRIX SED	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	SAMPLE BOTTLE ID NUMBERS
[x] VOC w/TIC	8240	[ ]	[x]	4°C	8oz	[x]	/ / /
[x] Semi-Volatile Organic	8270	[ ]	[x]	4°C	8oz	[x]	/ / /
[x] PCB/Pest	8080	[ ]	[x]	4°C		[x]	/ / /
[x] TAL/TCL Metals		[ ]	[x]			[x]	/ / /
[x]		[ ]	[ ]			[ ]	/ / /
[x] Cyanide	Digestion	[ ]	[x]	4°C		[x]	/ / /
[x] Gross Alpha	9310	[ ]	[x]	4°C		[x]	/ / /
[x] Gross Beta	9310	[ ]	[x]	4°C	8oz	[x]	/ / /
[x] Radium-226	9315	[ ]	[x]	4°C		[x]	/ / /
[x] Radium-228	9320	[ ]	[x]	4°C		[x]	/ / /
[ ]		[ ]	[ ]			[ ]	/ / /

NOTES

MD 8/9/89

SIGNATURE:

ABB ENVIRONMENTAL SERVICES, INC

FIELD DATA RECORD - SURFACE WATER & SEDIMENT

JOB NUMBER: 7555-05 DATE: 1-31-92

PROJECT: NAS JAX OU1

LOCATION ACTIVITY START: 1047 END: 1220

SW SAMPLE LOCATION ID: J260192SW004

SD SAMPLE LOCATION ID:

SURFACE WATER DATA

WATER DEPTH @ SAMPLE LOCATION: 3.6' FT

DEPTH OF SAMPLE FROM TOP OF WATER: 6" FT

TEMPERATURE: 14 DEG C.

pH: 8.4 UNITS

SPEC. COND.: 250 umhos/cm

TYPE OF SURFACE WATER:
- [ ] STREAM
- [ ] RIVER
- [x] POND/LAKE
- [ ] SEEP
- [x] OTHER Pic Ditch

EQUIPMENT USED FOR COLLECTION:
- [x] Pyrex Beaker
- [ ] NONE, GRAB INTO BOTTLE
- [ ] BOMB SAMPLER
- [ ] PUMP

VELOCITY MEASUREMENTS OBTAINED:
- [ ] YES, SEE FLOW DATA BELOW
- [x] NO

DECONTAMINATION FLUIDS USED:
- [x] LIQUI-NOX
- [x] DEIONIZED WATER
- [ ] TSP SOLUTION
- [ ] HEXANE
- [ ] HNO3 SOLUTION
- [ ] POTABLE WATER
- [ ] NONE
- [x] Isopropyl Alcohol

FIELD QC DATA: [ ] FIELD DUPLICATE COLLECTED DUP. ID _____

SAMPLE LOCATION SKETCH BELOW ?
- [ ] YES
- [x] NO

SEDIMENT DATA

DEPTH OF SEDIMENT SAMPLE: _____ IN

TYPE OF SAMPLE COLLECTED:
- [x] DISCRETE
- [ ] COMPOSITE

SAMPLE OBSERVATIONS:
- [ ] ODOR _____
- [ ] COLORED _____
- [ ] _____

TYPE OF SEDIMENT:
- [ ] CLAY
- [ ] SAND
- [ ] ORGANIC
- [ ] GRAVEL
- [ ] OTHER: _____

EQUIPMENT USED FOR COLLECTION:
- [ ] GRAVITY CORER
- [ ] S.S. SPLIT SPOON
- [ ] HAND SPOON
- [ ] ALUMINUM PANS
- [ ] S.S. BUCKET
- [ ] DREDGE
- [ ] _____

DECONTAMINATION FLUIDS USED
- [ ] LIQUI-NOX
- [ ] DEIONIZED WATER
- [ ] TSP SOLUTION
- [ ] HEXANE
- [ ] HNO3 SOLUTION
- [ ] POTABLE WATER
- [ ] STREAM WATER
- [ ] NONE

FIELD QC DATA: [ ] FIELD DUPLICATE COLLECTED. DUP ID _____

ANALYTICAL PARAMETERS

	METHOD NUMBER	MATRIX SW	MATRIX SED	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	SAMPLE BOTTLE ID NUMBERS
[x] VOC w/TIC	624	[x]	[ ]	HCL	120 ML	[x]	____/____/____/____
[x] Semi-Volatile Organic w/TIC	625	[x]	[ ]	4°C	2L	[x]	____/____/____/____
[x] PCB/PEST	608	[x]	[ ]	4°C	2 Liter	[x]	____/____/____/____
[x] TAL/TCL metals		[x]	[ ]	HNO3	1 Liter	[x]	____/____/____/____
[x] Cyanide	335.2	[x]	[ ]	NAOH	1/2 gallon	[x]	____/____/____/____
[x] Gross Alpha	9310	[x]	[ ]			[x]	____/____/____/____
[x] Gross Beta	9310	[x]	[ ]	HNO3	HNO3	[x]	____/____/____/____
[x] Radium 226	9315	[x]	[ ]			[x]	____/____/____/____
[x] Radium 228	9320	[x]	[ ]			[x]	____/____/____/____
[ ]		[ ]	[ ]			[ ]	____/____/____/____
[ ]		[ ]	[ ]			[ ]	____/____/____/____
[ ]		[ ]	[ ]			[ ]	____/____/____/____

NOTES

MD 8/9/89

SIGNATURE: _____

ABB ENVIRONMENTAL SERVICES, INC

FIELD DATA RECORD - SURFACE WATER & SEDIMENT

JOB NUMBER: 7555-05 DATE: 1-31-92

PROJECT: NAS JAX OU1

LOCATION ACTIVITY START: 1047 END: 1220

SW SAMPLE LOCATION ID:

SD SAMPLE LOCATION ID: J2601925D005

SURFACE WATER DATA

WATER DEPTH @ SAMPLE LOCATION: FT

DEPTH OF SAMPLE FROM TOP OF WATER: FT

TEMPERATURE: DEG C.

pH .....: UNITS

SPEC. COND.: umhos/cm

TYPE OF SURFACE WATER:
- [ ] STREAM
- [ ] RIVER
- [ ] POND/LAKE
- [ ] SEEP
- [x] OTHER DITCH

EQUIPMENT USED FOR COLLECTION:
- [ ] NONE, GRAB INTO BOTTLE
- [ ] BOMB SAMPLER
- [ ] PUMP

VELOCITY MESUREMENTS OBTAINED:
- [ ] YES, SEE FLOW DATA BELOW
- [x] NO

DECONTAMINATION FLUIDS USED:
- [ ] LIQUI-NOX
- [ ] DEIONIZED WATER
- [ ] TSP SOLUTION
- [ ] HEXANE
- [ ] HNO3 SOLUTION
- [ ] POTABLE WATER
- [ ] NONE

FIELD QC. DATA: [ ] FIELD DUPLICATE COLLECTED DUP. ID

SAMPLE LOCATION SKETCH BELOW ?
- [ ] YES
- [x] NO

SEDIMENT DATA

DEPTH OF SEDIMENT SAMPLE: 6-12" IN

TYPE OF SAMPLE COLLECTED:
- [x] DISCRETE
- [x] COMPOSITE

TYPE OF SEDIMENT:
- [ ] CLAY
- [x] SAND
- [ ] ORGANIC
- [ ] GRAVEL
- [ ] OTHER:

EQUIPMENT USED FOR COLLECTION:
- [ ] GRAVITY CORER
- [ ] S.S. SPLIT SPOON
- [ ] HAND SPOON
- [ ] ALUMINUM PANS
- [x] S.S. BUCKET
- [ ] DREDGE

DECONTAMINATION FLUIDS USED
- [x] LIQUI-NOX
- [x] DEIONIZED WATER
- [ ] TSP SOLUTION
- [ ] HEXANE
- [ ] HNO3 SOLUTION
- [ ] POTABLE WATER
- [ ] STREAM WATER
- [ ] NONE
- [x] ISO-PROPYL ALCOHOL

SAMPLE OBSERVATIONS:
- [ ] ODOR
- [x] COLORED GREY

FIELD QC DATA: [ ] FIELD DUPLICATE COLLECTED. DUP ID

ANALYTICAL PARAMETERS

	METHOD NUMBER	MATRIX SW	MATRIX SED	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	SAMPLE BOTTLE ID NUMBERS
[x] VOC W/TIC	8240	[ ]	[x]	4°C	8oz	[x]	/ / /
[x] Semi-Volatile Organic	8270	[ ]	[x]	4°C	8oz	[x]	/ / /
[x] PCB/Pest	8080	[ ]	[x]	4°C		[x]	/ / /
[x] TAL/TCL Metals		[ ]	[x]			[x]	/ / /
[x] Cyanide	DIGESTATE	[ ]	[x]	4°C		[x]	/ / /
[x] Gross Alpha	9310	[ ]	[x]	4°C	8oz	[x]	/ / /
[x] Gross Beta	9310	[ ]	[x]	4°C		[x]	/ / /
[x] Radium-226	9315	[ ]	[x]	4°C		[x]	/ / /
[x] Radium-228	9320	[ ]	[x]	4°C		[x]	/ / /
[ ]		[ ]	[ ]			[ ]	/ / /

NOTES

SIGNATURE:

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ABB ENVIRONMENTAL SERVICES, INC

FIELD DATA RECORD - SURFACE WATER & SEDIMENT

JOB NUMBER: 7555-05 DATE: 1-30-92

SITE: NAS JAX OU1

LOCATION ACTIVITY START: 1515 END: 1720

SW SAMPLE LOCATION ID: J260192SW005

SD SAMPLE LOCATION ID:

SURFACE WATER DATA

WATER DEPTH @ SAMPLE LOCATION: 3.0' FT

DEPTH OF SAMPLE FROM TOP OF WATER: 6" FT

TEMPERATURE: 14 DEG C.

pH ..... 9.0 UNITS

SPEC. COND. 300 umhos/cm

TYPE OF SURFACE WATER:
- [ ] STREAM
- [ ] RIVER
- [ ] POND/LAKE
- [ ] SEEP
- [x] OTHER Ditch

EQUIPMENT USED FOR COLLECTION:
- [x] Pyrex Beaker
- [ ] NONE, GRAB INTO BOTTLE
- [ ] BOMB SAMPLER
- [ ] PUMP

VELOCITY MEASUREMENTS OBTAINED:
- [ ] YES, SEE FLOW DATA BELOW
- [x] NO

DECONTAMINATION FLUIDS USED:
- [x] LIQUI-NOX
- [x] DEIONIZED WATER
- [ ] TSP SOLUTION
- [ ] HEXANE
- [ ] HNO3 SOLUTION
- [ ] POTABLE WATER
- [ ] NONE
- [x] Isopropyl Alcohol

FIELD QC DATA: [ ] FIELD DUPLICATE COLLECTED DUP. ID _____

SAMPLE LOCATION SKETCH BELOW ?
- [ ] YES
- [x] NO

SEDIMENT DATA

DEPTH OF SEDIMENT SAMPLE: _____ IN

TYPE OF SAMPLE COLLECTED:
- [x] DISCRETE
- [ ] COMPOSITE

SAMPLE OBSERVATIONS:
- [ ] ODOR _____
- [ ] COLORED _____
- [ ] _____

TYPE OF SEDIMENT:
- [ ] CLAY
- [ ] SAND
- [ ] ORGANIC
- [ ] GRAVEL
- [ ] OTHER: _____

EQUIPMENT USED FOR COLLECTION:
- [ ] GRAVITY CORER
- [ ] S.S. SPLIT SPOON
- [ ] HAND SPOON
- [ ] ALUMINUM PANS
- [ ] S.S. BUCKET
- [ ] DREDGE
- [ ] _____

DECONTAMINATION FLUIDS USED
- [ ] LIQUI-NOX
- [ ] DEIONIZED WATER
- [ ] TSP SOLUTION
- [ ] HEXANE
- [ ] HNO3 SOLUTION
- [ ] POTABLE WATER
- [ ] STREAM WATER
- [ ] NONE

FIELD QC DATA: [ ] FIELD DUPLICATE COLLECTED. DUP ID _____

ANALYTICAL PARAMETERS

	METHOD NUMBER	MATRIX SW	MATRIX SED	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	SAMPLE BOTTLE ID NUMBERS
[x] VOC w/TIC	624	[x]	[ ]	HCL	120 ML	[x]	___/___/___/___
[x] Semi-Volatile organic w/TIC	625	[x]	[ ]	4°C	2L	[x]	___/___/___/___
[x] PCB/PEST	608	[x]	[ ]	4°C	2Liter	[x]	___/___/___/___
[x] TAL/TCL metals		[x]	[ ]	HNO3	1Liter	[x]	___/___/___/___
[x] Cyanide	335.2	[x]	[ ]	NaOH	1/2gallon	[x]	___/___/___/___
[x] Gross Alpha	9310	[x]	[ ]	HNO3	HNO3	[x]	___/___/___/___
[x] Gross Beta	9310	[x]	[ ]			[x]	___/___/___/___
[x] Radium 226	9315	[x]	[ ]			[x]	___/___/___/___
[x] Radium 228	9320	[x]	[ ]			[x]	___/___/___/___
[ ]		[ ]	[ ]			[x]	___/___/___/___
[ ]		[ ]	[ ]			[ ]	___/___/___/___

NOTES

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SIGNATURE: _____

ABB ENVIRONMENTAL SERVICES, INC

FIELD DATA RECORD - SURFACE WATER & SEDIMENT

JOB NUMBER: 7555-05 DATE: 1-31-92

LOCATION ACTIVITY START: 1515 END: 1720

PROJECT: NAS JAX OU1

SW SAMPLE LOCATION ID:

SD SAMPLE LOCATION ID: J26019280005

SURFACE WATER DATA

WATER DEPTH @ SAMPLE LOCATION: FT

DEPTH OF SAMPLE FROM TOP OF WATER: FT

TEMPERATURE: DEG C.

pH .....: UNITS

SPEC. COND.: umhos/cm

TYPE OF SURFACE WATER:
- [ ] STREAM
- [ ] RIVER
- [ ] POND/LAKE
- [ ] SEEP
- [x] OTHER Ditch

EQUIPMENT USED FOR COLLECTION:
- [ ] NONE, GRAB INTO BOTTLE
- [ ] BOMB SAMPLER
- [ ] PUMP

VELOCITY MEASUREMENTS OBTAINED:
- [ ] YES, SEE FLOW DATA BELOW
- [x] NO

DECONTAMINATION FLUIDS USED:
- [ ] LIQUI-NOX
- [ ] DEIONIZED WATER
- [ ] TSP SOLUTION
- [ ] HEXANE
- [ ] HNO3 SOLUTION
- [ ] POTABLE WATER
- [ ] NONE

FIELD QC DATA: [ ] FIELD DUPLICATE COLLECTED DUP. ID

SAMPLE LOCATION SKETCH BELOW ?
- [ ] YES
- [x] NO

SEDIMENT DATA

DEPTH OF SEDIMENT SAMPLE: 3" IN

TYPE OF SAMPLE COLLECTED:
- [x] DISCRETE
- [x] COMPOSITE

SAMPLE OBSERVATIONS:
- [ ] ODOR
- [x] COLORED TAN
- [ ]

TYPE OF SEDIMENT:
- [ ] CLAY
- [ ] SAND
- [ ] ORGANIC
- [ ] GRAVEL
- [x] OTHER: clayey SAND

EQUIPMENT USED FOR COLLECTION:
- [ ] GRAVITY CORER
- [ ] S.S. SPLIT SPOON
- [ ] HAND SPOON
- [ ] ALUMINUM PANS
- [x] S.S. BUCKET
- [ ] DREDGE
- [x] Post Hole Digger

DECONTAMINATION FLUIDS USED
- [x] LIQUI-NOX
- [x] DEIONIZED WATER
- [ ] TSP SOLUTION
- [ ] HEXANE
- [ ] HNO3 SOLUTION
- [ ] POTABLE WATER
- [ ] STREAM WATER
- [ ] NONE
- [x] ISO-Propyl Alcohol

FIELD QC DATA: [ ] FIELD DUPLICATE COLLECTED. DUP ID

ANALYTICAL PARAMETERS

	METHOD NUMBER	MATRIX SW	MATRIX SED	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	SAMPLE BOTTLE ID NUMBERS
[x] VOC w/TIC	8240	[ ]	[x]	4°C	8oz	[x]	/ / /
[x] Semi-volatile organic	8270	[ ]	[x]	4°C	8oz	[x]	/ / /
[x] PCB/Pest	8080	[ ]	[x]	4°C		[x]	/ / /
[x] TAL/TCL Metals		[ ]	[x]			[x]	/ / /
[x] Cyanide	Dilgent	[ ]	[x]	4°C		[x]	/ / /
[x] Gross Alpha	9310	[ ]	[x]	4°C	8oz	[x]	/ / /
[x] Gross Beta	9310	[ ]	[x]	4°C		[x]	/ / /
[x] Radium-226	9315	[ ]	[x]	4°C		[x]	/ / /
[x] Radium-228	9320	[ ]	[x]	4°C		[x]	/ / /
[ ]		[ ]	[ ]			[ ]	/ / /
[ ]		[ ]	[ ]			[ ]	/ / /

NOTES

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ABB ENVIRONMENTAL SERVICES, INC

FIELD DATA RECORD - SURFACE WATER & SEDIMENT

JOB NUMBER: 7555-05 DATE: 1-29-92

PROJECT: NAS JAX OU1

LOCATION ACTIVITY START: 1150 END: 1345

SW SAMPLE LOCATION ID: J2601925W006

SD SAMPLE LOCATION ID:

SURFACE WATER DATA

WATER DEPTH @ SAMPLE LOCATION: 3.5' FT

DEPTH OF SAMPLE FROM TOP OF WATER: 6" FT

TEMPERATURE: 14° DEG C.

pH ..... 7.6 UNITS

SPEC. COND. 220 umhos/cm

TYPE OF SURFACE WATER:
- [ ] STREAM
- [ ] RIVER
- [ ] POND/LAKE
- [ ] SEEP
- [x] OTHER Ditch

EQUIPMENT USED FOR COLLECTION:
- [x] Pyrex Beaker
- [ ] NONE, GRAB INTO BOTTLE
- [ ] BOMB SAMPLER
- [ ] PUMP

VELOCITY MEASUREMENTS OBTAINED:
- [ ] YES, SEE FLOW DATA BELOW
- [x] NO

DECONTAMINATION FLUIDS USED:
- [x] LIQUI-NOX
- [x] DEIONIZED WATER
- [ ] TSP SOLUTION
- [ ] HEXANE
- [ ] HNO3 SOLUTION
- [ ] POTABLE WATER
- [ ] NONE
- [x] Isc-Propyl Alcohol

FIELD QC DATA: [ ] FIELD DUPLICATE COLLECTED DUP. ID

SAMPLE LOCATION SKETCH BELOW ?
- [ ] YES
- [x] NO

SEDIMENT DATA

DEPTH OF SEDIMENT SAMPLE: IN

TYPE OF SAMPLE COLLECTED:
- [x] DISCRETE
- [ ] COMPOSITE

SAMPLE OBSERVATIONS:
- [ ] ODOR
- [ ] COLORED
- [ ]

TYPE OF SEDIMENT:
- [ ] CLAY
- [ ] SAND
- [ ] ORGANIC
- [ ] GRAVEL
- [ ] OTHER:

EQUIPMENT USED FOR COLLECTION:
- [ ] GRAVITY CORER
- [ ] S.S. SPLIT SPOON
- [ ] HAND SPOON
- [ ] ALUMINUM PANS
- [ ] S.S. BUCKET
- [ ] DREDGE
- [ ]

DECONTAMINATION FLUIDS USED
- [ ] LIQUI-NOX
- [ ] DEIONIZED WATER
- [ ] TSP SOLUTION
- [ ] HEXANE
- [ ] HNO3 SOLUTION
- [ ] POTABLE WATER
- [ ] STREAM WATER
- [ ] NONE

FIELD QC DATA: [ ] FIELD DUPLICATE COLLECTED. DUP ID

ANALYTICAL PARAMETERS

	METHOD NUMBER	MATRIX SW	MATRIX SED	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	SAMPLE BOTTLE ID NUMBERS
[x] VOC w/MC	624	[x]	[ ]	HCL	120 ML	[x]	
[x] Semi-Volatile Organic w/MC	625	[x]	[ ]	4°C	2L	[x]	
[x] PCB/PEST	608	[x]	[ ]	4°C	2 Liter	[x]	
[x] TAL/TCL metals		[x]	[ ]	HNO3	1 Liter	[x]	
[x] Cyanide	335.2	[x]	[ ]	NAOH	1/2 gallon	[x]	
[x] Gross Alpha	9310	[x]	[ ]			[x]	
[x] Gross Beta	9310	[x]	[ ]	HNO3	HNO3	[x]	
[x] Radium 226	9315	[x]	[ ]			[x]	
[x] Radium 228	9320	[x]	[ ]			[x]	
[ ]		[ ]	[ ]			[x]	
[ ]		[ ]	[ ]			[ ]	

NOTES

SIGNATURE:

PROJECT: NAS JAX OU1

LOCATION ACTIVITY: START: 1150 END: 1345

SW SAMPLE LOCATION ID:

SD SAMPLE LOCATION ID: J260192SD006

SURFACE WATER DATA

WATER DEPTH @ SAMPLE LOCATION: FT

DEPTH OF SAMPLE FROM TOP OF WATER: FT

TEMPERATURE: DEG C.

pH .....: UNITS

SPEC. COND.: umhos/cm

TYPE OF SURFACE WATER:
- [ ] STREAM
- [ ] RIVER
- [ ] POND/LA
- [ ] SEEP
- [x] OTHER Ditch

EQUIPMENT USED FOR COLLECTION:
- [ ] NONE, GRAB INTO BOTTLE
- [ ] BOMB SAMPLER
- [ ] PUMP

VELOCITY MESUREMENTS OBTAINED:
- [ ] YES, SEE FLOW DATA BELOW
- [x] NO

DECONTAMINATION FLUIDS USED:
- [ ] LIQUI-NOX
- [ ] DEIONIZED WATER
- [ ] TSP SOLUTION
- [ ] HEXANE
- [ ] HNO3 SOLUTION
- [ ] POTABLE WATER
- [ ] NONE

FIELD QC DATA: [ ] FIELD DUPLICATE COLLECTED DUP. ID

SAMPLE LOCATION SKETCH BELOW ?
- [ ] YES
- [x] NO

SEDIMENT DATA

DEPTH OF SEDIMENT SAMPLE: 6"-1' IN

TYPE OF SAMPLE COLLECTED:
- [x] DISCRETE
- [x] COMPOSITE

SAMPLE OBSERVATIONS:
- [ ] ODOR
- [ ] COLORED
- [ ]

TYPE OF SEDIMENT:
- [ ] CLAY
- [ ] SAND
- [ ] ORGANIC
- [ ] GRAVEL
- [x] OTHER: Silty SAND

EQUIPMENT USED FOR COLLECTION:
- [ ] GRAVITY CORER
- [ ] S.S. SPLIT SPOON
- [ ] HAND SPOON
- [ ] ALUMINUM PANS
- [x] S.S. BUCKET
- [ ] DREDGE
- [ ]

DECONTAMINATION FLUIDS USED
- [x] LIQUI-NOX
- [x] DEIONIZED WATER
- [ ] TSP SOLUTION
- [ ] HEXANE
- [ ] HNO3 SOLUTION
- [ ] POTABLE WATER
- [ ] STREAM WATER
- [ ] NONE
- [x] Iso-Propyl Alcohol

FIELD QC DATA: [ ] FIELD DUPLICATE COLLECTED. DUP ID

ANALYTICAL PARAMETERS

	METHOD NUMBER	MATRIX SW	MATRIX SED	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	SAMPLE BOTTLE ID NUMBERS
[x] VOC w/TIC	8240	[ ]	[x]	4°C	8oz	[x]	/ / /
[x] Semi-volatile organic	8270	[ ]	[x]	4°C	8oz	[x]	/ / /
[x] PCB/Pest	8080	[ ]	[x]	4°C		[x]	/ / /
[x] TAL/TCL Metals		[ ]	[x]			[x]	/ / /
[x]		[ ]	[x]	4°C		[x]	/ / /
[x] Cyanide	DI/Extract	[ ]	[x]	4°C		[x]	/ / /
[x] Gross Alpha	9310	[ ]	[x]	4°C	8oz	[x]	/ / /
[x] Gross Beta	9310	[ ]	[x]	4°C		[x]	/ / /
[x] Radium-226	9315	[ ]	[x]	4°C		[x]	/ / /
[x] Radium-228	9320	[ ]	[x]	4°C		[ ]	/ / /
[ ]		[ ]	[ ]			[ ]	/ / /

NOTES

SIGNATURE:

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ABB ENVIRONMENTAL SERVICES, INC

FIELD DATA RECORD - SURFACE WATER & SEDIMENT

JOB NUMBER: 7555-05 DATE: 1-30-92

PROJECT: NAS JAX OU1

LOCATION ACTIVITY START: 1020 hrs END: 1115

SW SAMPLE LOCATION ID: J260192SW007

SD SAMPLE LOCATION ID:

SURFACE WATER DATA

WATER DEPTH @ SAMPLE LOCATION: 3.5' FT

DEPTH OF SAMPLE FROM TOP OF WATER: 6" FT

TEMPERATURE: 13 DEG C.

pH ..... 6.4 UNITS

SPEC. COND. 500 umhos/cm

TYPE OF SURFACE WATER:
- [ ] STREAM
- [ ] RIVER
- [ ] POND/LAKE
- [ ] SEEP
- [x] OTHER Ditch

EQUIPMENT USED FOR COLLECTION:
- [x] Pyrex Beaker
- [ ] NONE, GRAB INTO BOTTLE
- [ ] BOMB SAMPLER
- [ ] PUMP

VELOCITY MESUREMENTS OBTAINED:
- [ ] YES, SEE FLOW DATA BELOW
- [x] NO

DECONTAMINATION FLUIDS USED:
- [x] LIQUI-NOX
- [x] DEIONIZED WATER
- [ ] TSP SOLUTION
- [ ] HEXANE
- [ ] HNO3 SOLUTION
- [ ] POTABLE WATER
- [ ] NONE
- [x] Iso-Propyl Alcohol

FIELD QC DATA: [ ] FIELD DUPLICATE COLLECTED DUP. ID _____

SAMPLE LOCATION SKETCH BELOW ?
- [ ] YES
- [x] NO

SEDIMENT DATA

DEPTH OF SEDIMENT SAMPLE: _____ IN

TYPE OF SAMPLE COLLECTED:
- [x] DISCRETE
- [ ] COMPOSITE

SAMPLE OBSERVATIONS:
- [ ] ODOR _____
- [ ] COLORED _____
- [ ] _____

TYPE OF SEDIMENT:
- [ ] CLAY
- [ ] SAND
- [ ] ORGANIC
- [ ] GRAVEL
- [ ] OTHER: _____

EQUIPMENT USED FOR COLLECTION:
- [ ] GRAVITY CORER
- [ ] S.S. SPLIT SPOON
- [ ] HAND SPOON
- [ ] ALUMINUM PANS
- [ ] S.S. BUCKET
- [ ] DREDGE
- [ ] _____

DECONTAMINATION FLUIDS USED
- [ ] LIQUI-NOX
- [ ] DEIONIZED WATER
- [ ] TSP SOLUTION
- [ ] HEXANE
- [ ] HNO3 SOLUTION
- [ ] POTABLE WATER
- [ ] STREAM WATER
- [ ] NONE

FIELD QC DATA: [ ] FIELD DUPLICATE COLLECTED. DUP ID _____

ANALYTICAL PARAMETERS

	METHOD NUMBER	MATRIX SW	MATRIX SED	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	SAMPLE BOTTLE ID NUMBERS
[x] VOC w/TIC	624	[x]	[ ]	HCL	120 mL	[x]	___/___/___/___
[x] Semi-Volatile Organic w/TIC	625	[x]	[ ]	4°C	2L	[x]	___/___/___/___
[x] PCB/Pest	608	[x]	[ ]	4°C	2Liter	[x]	___/___/___/___
[x] TAL/TCL metals		[x]	[ ]	HNO3	1Liter	[x]	___/___/___/___
[x] Cyanide	335.2	[x]	[ ]	NaOH	1/2 gallon	[x]	___/___/___/___
[x] Gross Alpha	9310	[x]	[ ]	HNO3	HNO3	[x]	___/___/___/___
[x] Gross Beta	9310	[x]	[ ]			[x]	___/___/___/___
[x] Radium 226	9315	[x]	[ ]			[x]	___/___/___/___
[x] Radium 228	9320	[x]	[ ]			[x]	___/___/___/___
[ ]		[ ]	[ ]			[x]	___/___/___/___
[ ]		[ ]	[ ]			[ ]	___/___/___/___
[ ]		[ ]	[ ]			[ ]	___/___/___/___

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SIGNATURE: _____

ABB ENVIRONMENTAL SERVICES, INC

FIELD DATA RECORD - SURFACE WATER & SEDIMENT

JOB NUMBER: 7555-05 DATE: 1-30-92

PROJECT: NAS JAX OU1

LOCATION ACTIVITY START: 1020hrs END: 1115hrs

SW SAMPLE LOCATION ID:

SD SAMPLE LOCATION ID: J260192SP007

SURFACE WATER DATA

WATER DEPTH @ SAMPLE LOCATION: FT

DEPTH OF SAMPLE FROM TOP OF WATER: FT

TEMPERATURE: DEG C.

pH .....: UNITS

SPEC. COND.: umhos/cm

TYPE OF SURFACE WATER:
- [ ] STREAM
- [ ] RIVER
- [ ] POND/LAKE
- [ ] SEEP
- [x] OTHER Ditch

EQUIPMENT USED FOR COLLECTION:
- [ ] NONE, GRAB INTO BOTTLE
- [ ] BOMB SAMPLER
- [ ] PUMP

VELOCITY MESUREMENTS OBTAINED:
- [ ] YES, SEE FLOW DATA BELOW
- [x] NO

DECONTAMINATION FLUIDS USED:
- [ ] LIQUI-NOX
- [ ] DEIONIZED WATER
- [ ] TSP SOLUTION
- [ ] HEXANE
- [ ] HNO3 SOLUTION
- [ ] POTABLE WATER
- [ ] NONE

FIELD QC DATA: [ ] FIELD DUPLICATE COLLECTED DUP. ID

SAMPLE LOCATION SKETCH BELOW ?
- [ ] YES
- [x] NO

SEDIMENT DATA

DEPTH OF SEDIMENT SAMPLE: 8" IN

TYPE OF SAMPLE COLLECTED:
- [x] DISCRETE
- [x] COMPOSITE

SAMPLE OBSERVATIONS:
- [ ] ODOR
- [x] COLORED TAN-white
- [ ]

TYPE OF SEDIMENT:
- [ ] CLAY
- [ ] SAND
- [ ] ORGANIC
- [ ] GRAVEL
- [x] OTHER: Clayey Sand

EQUIPMENT USED FOR COLLECTION:
- [ ] GRAVITY CORER
- [ ] S.S. SPLIT SPOON
- [ ] HAND SPOON
- [ ] ALUMINUM PANS
- [x] S.S. BUCKET
- [ ] DREDGE

DECONTAMINATION FLUIDS USED
- [x] LIQUI-NOX
- [x] DEIONIZED WATER
- [ ] TSP SOLUTION
- [ ] HEXANE
- [ ] HNO3 SOLUTION
- [ ] POTABLE WATER
- [ ] STREAM WATER
- [ ] NONE
- [x] Iso-Propyl Alcohol

FIELD QC DATA: [ ] FIELD DUPLICATE COLLECTED. DUP ID

ANALYTICAL PARAMETERS

	METHOD NUMBER	MATRIX SW	MATRIX SED	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	SAMPLE BOTTLE ID NUMBERS
[x] VOC w/TIC	8240	[ ]	[x]	4°C	80z	[x]	/ / /
[x] Semi-Volatile Organic	8270	[ ]	[x]	4°C	80z	[x]	/ / /
[x] PCB/Pest	8080	[ ]	[x]	4°C		[x]	/ / /
[x] TAL/TCL Metals		[ ]	[x]	4°C		[x]	/ / /
[ ]		[ ]	[ ]			[ ]	/ / /
[x] Cyanide	Dilbertenet	[ ]	[x]	4°C		[x]	/ / /
[x] Gross Alpha	9310	[ ]	[x]	4°C		[x]	/ / /
[x] Gross Beta	9310	[ ]	[x]	4°C	80z	[x]	/ / /
[x] Radium-226	9315	[ ]	[x]	4°C		[x]	/ / /
[x] Radium-228	9320	[ ]	[x]	4°C		[x]	/ / /
[ ]		[ ]	[ ]			[ ]	/ / /

NOTES

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SIGNATURE:

ABB ENVIRONMENTAL SERVICES, INC

FIELD DATA RECORD - SURFACE WATER & SEDIMENT

JOB NUMBER: 7555-05 DATE: 1-31-92

PROJECT: NAS JAX OU1

LOCATION ACTIVITY START: 0935 END: 0955

SW SAMPLE LOCATION ID: J260195W003

SD SAMPLE LOCATION ID:

SURFACE WATER DATA

WATER DEPTH @ SAMPLE LOCATION: 8" FT

DEPTH OF SAMPLE FROM TOP OF WATER: 4" FT

TEMPERATURE: 13 DEG C.

pH ..... 7.9 UNITS

SPEC. COND. 380 umhos/cm

TYPE OF SURFACE WATER:
- [ ] STREAM
- [ ] RIVER
- [ ] POND/LAKE
- [ ] SEEP
- [x] OTHER Ditch

EQUIPMENT USED FOR COLLECTION:
- [x] Pyrex Beaker
- [ ] NONE, GRAB INTO BOTTLE
- [ ] BOMB SAMPLER
- [ ] PUMP

VELOCITY MEASUREMENTS OBTAINED:
- [ ] YES, SEE FLOW DATA BELOW
- [x] NO

DECONTAMINATION FLUIDS USED:
- [x] LIQUI-NOX
- [x] DEIONIZED WATER
- [ ] TSP SOLUTION
- [ ] HEXANE
- [ ] HNO3 SOLUTION
- [ ] POTABLE WATER
- [ ] NONE
- [x] Iso-Propyl Alcohol

FIELD QC. DATA: [ ] FIELD DUPLICATE COLLECTED DUP. ID _____

SAMPLE LOCATION SKETCH BELOW ?
- [ ] YES
- [x] NO

SEDIMENT DATA

DEPTH OF SEDIMENT SAMPLE: _____ IN

TYPE OF SAMPLE COLLECTED:
- [x] DISCRETE
- [ ] COMPOSITE

SAMPLE OBSERVATIONS:
- [ ] ODOR _____
- [ ] COLORED _____
- [ ] _____

TYPE OF SEDIMENT:
- [ ] CLAY
- [ ] SAND
- [ ] ORGANIC
- [ ] GRAVEL
- [ ] OTHER: _____

EQUIPMENT USED FOR COLLECTION:
- [ ] GRAVITY CORER
- [ ] S.S. SPLIT SPOON
- [ ] HAND SPOON
- [ ] ALUMINUM PANS
- [ ] S.S. BUCKET
- [ ] DREDGE
- [ ] _____

DECONTAMINATION FLUIDS USED
- [ ] LIQUI-NOX
- [ ] DEIONIZED WATER
- [ ] TSP SOLUTION
- [ ] HEXANE
- [ ] HNO3 SOLUTION
- [ ] POTABLE WATER
- [ ] STREAM WATER
- [ ] NONE

FIELD QC DATA: [ ] FIELD DUPLICATE COLLECTED. DUP ID _____

ANALYTICAL PARAMETERS

	METHOD NUMBER	MATRIX SW	MATRIX SED	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	SAMPLE BOTTLE ID NUMBERS
[x] VOC v/ic	624	[x]	[ ]	HCL	120 mL	[x]	___/___/___/___
[x] Semi-Volatile organic v/ic	625	[x]	[ ]	4°C	2L	[x]	___/___/___/___
[x] PCB/Pest	608	[x]	[ ]	4°C	2 Liter	[x]	___/___/___/___
[x] TAL/TCL metals		[x]	[ ]	HNO3	1 Liter	[x]	___/___/___/___
[x] Cyanide	335.2	[x]	[ ]	NaOH	1/2 gallon	[x]	___/___/___/___
[x] Gross Alpha	9310	[x]	[ ]			[x]	___/___/___/___
[x] Gross Beta	9310	[x]	[ ]	HNO3	HNO3	[x]	___/___/___/___
[x] Radium 226	9315	[x]	[ ]			[x]	___/___/___/___
[x] Radium 228	9320	[x]	[ ]			[x]	___/___/___/___
[ ]		[ ]	[ ]			[ ]	___/___/___/___
[ ]		[ ]	[ ]			[ ]	___/___/___/___
[ ]		[ ]	[ ]			[ ]	___/___/___/___

NOTES

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SIGNATURE: _____

ABB ENVIRONMENTAL SERVICES, INC

FIELD DATA RECORD - SURFACE WATER & SEDIMENT

JOB NUMBER: 7555-05 DATE: 1-31-92

LOCATION ACTIVITY START: 0935 END: 0955

PROJECT: NAS JAX OU1

SD SAMPLE LOCATION ID: J260192SD008

SW SAMPLE LOCATION ID:

SURFACE WATER DATA

WATER DEPTH @ SAMPLE LOCATION: FT

DEPTH OF SAMPLE FROM TOP OF WATER: FT

TEMPERATURE: DEG C.

pH .....: UNITS

SPEC. COND.: umhos/cm

TYPE OF SURFACE WATER:
- [ ] STREAM
- [ ] RIVER
- [ ] POND/LAKE
- [ ] SEEP
- [x] OTHER Ditch

EQUIPMENT USED FOR COLLECTION:
- [ ] NONE, GRAB INTO BOTTLE
- [ ] BOMB SAMPLER
- [ ] PUMP

VELOCITY MESUREMENTS OBTAINED:
- [ ] YES, SEE FLOW DATA BELOW
- [x] NO

DECONTAMINATION FLUIDS USED:
- [ ] LIQUI-NOX
- [ ] DEIONIZED WATER
- [ ] TSP SOLUTION
- [ ] HEXANE
- [ ] HNO3 SOLUTION
- [ ] POTABLE WATER
- [ ] NONE

FIELD QC DATA: [ ] FIELD DUPLICATE COLLECTED DUP. ID

SAMPLE LOCATION SKETCH BELOW ?
- [ ] YES
- [x] NO

SEDIMENT DATA

DEPTH OF SEDIMENT SAMPLE: 8-12" IN

TYPE OF SAMPLE COLLECTED:
- [x] DISCRETE
- [x] COMPOSITE

SAMPLE OBSERVATIONS:
- [ ] ODOR
- [x] COLORED TAN

TYPE OF SEDIMENT:
- [ ] CLAY
- [x] SAND
- [ ] ORGANIC
- [ ] GRAVEL
- [ ] OTHER:

EQUIPMENT USED FOR COLLECTION:
- [ ] GRAVITY CORER
- [ ] S.S. SPLIT SPOON
- [ ] HAND SPOON
- [ ] ALUMINUM PANS
- [x] S.S. BUCKET
- [ ] DREDGE

DECONTAMINATION FLUIDS USED
- [x] LIQUI-NOX
- [x] DEIONIZED WATER
- [ ] TSP SOLUTION
- [ ] HEXANE
- [ ] HNO3 SOLUTION
- [ ] POTABLE WATER
- [ ] STREAM WATER
- [ ] NONE
- [x] Iso-Propyl Alcohol

FIELD QC DATA: [ ] FIELD DUPLICATE COLLECTED. DUP ID

ANALYTICAL PARAMETERS

	METHOD NUMBER	MATRIX SW	MATRIX SED	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	SAMPLE BOTTLE ID NUMBERS
[x] VOC W/TIC	8240		[x]	4°C	8oz	[x]	/ / /
[x] Semi-volatile organic	8270		[x]	4°C	8oz	[x]	/ / /
[x] PCB/Pest	8080		[x]	4°C		[x]	/ / /
[x] TAL/TCL Metals			[x]			[x]	/ / /
[x]			[x]	4°C		[x]	/ / /
[x] Cyanide	DI/Extract		[x]	4°C		[x]	/ / /
[x] Gross Alpha	9310		[x]	4°C	8oz	[x]	/ / /
[x] Gross Beta	9310		[x]	4°C		[x]	/ / /
[x] Radium-226	9315		[x]	4°C		[x]	/ / /
[x] Radium-228	9320		[x]	4°C		[x]	/ / /
[ ]		[ ]	[ ]			[ ]	/ / /
[ ]		[ ]	[ ]			[ ]	/ / /

NOTES

SIGNATURE:

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ABB ENVIRONMENTAL SERVICES, INC

FIELD DATA RECORD - SURFACE WATER & SEDIMENT

JOB NUMBER: 7555-05 DATE: 1-31-92

PROJECT: NAS JAX OU1 LOCATION ACTIVITY START: 0842 END: 0915

SW SAMPLE LOCATION ID: J2601925W009 SD SAMPLE LOCATION ID:

SURFACE WATER DATA

WATER DEPTH @ SAMPLE LOCATION: 1.6' FT

DEPTH OF SAMPLE FROM TOP OF WATER: 6" FT

TEMPERATURE: 18 DEG C.

pH ..... 9.0 UNITS

SPEC. COND. 800 umhos/cm

TYPE OF SURFACE WATER:
- [ ] STREAM
- [ ] RIVER
- [ ] POND/LAKE
- [ ] SEEP
- [x] OTHER Ditch

EQUIPMENT USED FOR COLLECTION:
- [x] Pyrex Beaker
- [ ] NONE, GRAB INTO BOTTLE
- [ ] BOMB SAMPLER
- [ ] PUMP

VELOCITY MEASUREMENTS OBTAINED:
- [ ] YES, SEE FLOW DATA BELOW
- [x] NO

DECONTAMINATION FLUIDS USED:
- [x] LIQUI-NOX
- [x] DEIONIZED WATER
- [ ] TSP SOLUTION
- [ ] HEXANE
- [ ] HNO3 SOLUTION
- [ ] POTABLE WATER
- [ ] NONE
- [x] Iso-Propyl Alcohol

FIELD QC. DATA: [ ] FIELD DUPLICATE COLLECTED DUP. ID

SAMPLE LOCATION SKETCH BELOW ?
- [ ] YES
- [x] NO

SEDIMENT DATA

DEPTH OF SEDIMENT SAMPLE: IN

TYPE OF SAMPLE COLLECTED:
- [x] DISCRETE
- [ ] COMPOSITE

SAMPLE OBSERVATIONS:
- [ ] ODOR
- [ ] COLORED

TYPE OF SEDIMENT:
- [ ] CLAY
- [ ] SAND
- [ ] ORGANIC
- [ ] GRAVEL
- [ ] OTHER:

EQUIPMENT USED FOR COLLECTION:
- [ ] GRAVITY CORER
- [ ] S.S. SPLIT SPOON
- [ ] HAND SPOON
- [ ] ALUMINUM PANS
- [ ] S.S. BUCKET
- [ ] DREDGE

DECONTAMINATION FLUIDS USED
- [ ] LIQUI-NOX
- [ ] DEIONIZED WATER
- [ ] TSP SOLUTION
- [ ] HEXANE
- [ ] HNO3 SOLUTION
- [ ] POTABLE WATER
- [ ] STREAM WATER
- [ ] NONE

FIELD QC DATA: [ ] FIELD DUPLICATE COLLECTED. DUP ID

ANALYTICAL PARAMETERS

	METHOD NUMBER	MATRIX SW	MATRIX SED	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	SAMPLE BOTTLE ID NUMBERS
[x] VOC w/TIC	624	[x]	[ ]	HCL	180 ML	[x]	
[x] Semi-VOLATile organic w/TIC	625	[x]	[ ]	4°C	2L	[x]	
[x] PCB/PEST	608	[x]	[ ]	4°C	2 Liter	[x]	
[x] TAL/TCL METALS		[x]	[ ]	HNO3	1 Liter	[x]	
[x] Cyanide	335.2	[x]	[ ]	NAOH	1/2 gallon	[x]	
[x] GROSS ALPHA	9310	[x]	[ ]	HNO3	HNO3	[x]	
[x] GROSS BETA	9310	[x]	[ ]			[x]	
[x] Radium 226	9315	[x]	[ ]			[x]	
[x] Radium 228	9320	[x]	[ ]			[x]	
[ ]		[ ]	[ ]			[ ]	
[ ]		[ ]	[ ]			[ ]	

NOTES

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SIGNATURE:

ABB ENVIRONMENTAL SERVICES, INC

FIELD DATA RECORD - SURFACE WATER & SEDIMENT

JOB NUMBER: 7555-05 DATE: 1-31-92

LOCATION ACTIVITY START: 0842 END: 0915

PROJECT: NAS JAX OU1

SD SAMPLE LOCATION ID: J2601925D009

SW SAMPLE LOCATION ID:

SURFACE WATER DATA

WATER DEPTH @ SAMPLE LOCATION: FT

DEPTH OF SAMPLE FROM TOP OF WATER: FT

TEMPERATURE: DEG C.

PH .....: UNITS

SPEC. COND.: umhos/cm

TYPE OF SURFACE WATER:
- [ ] STREAM
- [ ] RIVER
- [ ] POND/LAKE
- [ ] SEEP
- [x] OTHER Ditch

EQUIPMENT USED FOR COLLECTION:
- [ ] NONE, GRAB INTO BOTTLE
- [ ] BOMB SAMPLER
- [ ] PUMP

VELOCITY MESUREMENTS OBTAINED:
- [ ] YES, SEE FLOW DATA BELOW
- [x] NO

DECONTAMINATION FLUIDS USED:
- [ ] LIQUI-NOX
- [ ] DEIONIZED WATER
- [ ] TSP SOLUTION
- [ ] HEXANE
- [ ] HNO3 SOLUTION
- [ ] POTABLE WATER
- [ ] NONE

FIELD QC. DATA: [ ] FIELD DUPLICATE COLLECTED DUP. ID

SAMPLE LOCATION SKETCH BELOW ?
- [ ] YES
- [x] NO

SEDIMENT DATA

DEPTH OF SEDIMENT SAMPLE: 4-6" IN

TYPE OF SAMPLE COLLECTED:
- [x] DISCRETE
- [x] COMPOSITE

TYPE OF SEDIMENT:
- [ ] CLAY
- [ ] SAND
- [ ] ORGANIC
- [ ] GRAVEL
- [x] OTHER: Silty Sand

EQUIPMENT USED FOR COLLECTION:
- [ ] GRAVITY CORER
- [ ] S.S. SPLIT SPOON
- [ ] HAND SPOON
- [ ] ALUMINUM PANS
- [x] S.S. BUCKET
- [ ] DREDGE
- [ ]

DECONTAMINATION FLUIDS USED
- [x] LIQUI-NOX
- [x] DEIONIZED WATER
- [ ] TSP SOLUTION
- [ ] HEXANE
- [ ] HNO3 SOLUTION
- [ ] POTABLE WATER
- [ ] STREAM WATER
- [ ] NONE
- [x] ISO-PROPYL Alcohol

SAMPLE OBSERVATIONS
- [x] ODOR Sulpher
- [x] COLORED TAN TO Brown
- [ ]

FIELD QC DATA: [ ] FIELD DUPLICATE COLLECTED. DUP ID

ANALYTICAL PARAMETERS

	METHOD NUMBER	MATRIX SW	MATRIX SED	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	SAMPLE BOTTLE ID NUMBERS
[x] VOC w/TIC	8240	[ ]	[x]	4°C	8oz	[x]	/ / /
[x] Semi-Volatile Organic	8270	[ ]	[x]	4°C	8oz	[x]	/ / /
[x] PCB/Pest	8080	[ ]	[x]	4°C		[x]	/ / /
[x] TAL/TCL Metals		[ ]	[x]			[x]	/ / /
[x]		[ ]	[x]	4°C		[x]	/ / /
[x] Cyanide	Dilexten	[ ]	[x]	4°C		[x]	/ / /
[x] Gross Alpha	9310	[ ]	[x]	4°C	8oz	[x]	/ / /
[x] Gross Beta	9310	[ ]	[x]	4°C		[x]	/ / /
[x] Radium-226	9315	[ ]	[x]	4°C		[x]	/ / /
[x] Radium-228	9320	[ ]	[x]	4°C		[ ]	/ / /
[ ]		[ ]	[ ]			[ ]	/ / /
[ ]		[ ]	[ ]			[ ]	/ / /

NOTES

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ABB ENVIRONMENTAL SERVICES, INC

FIELD DATA RECORD - SURFACE WATER & SEDIMENT

JOB NUMBER: 7555-05 DATE: 2-2-92

PROJECT: NAS JAX OU1

LOCATION ACTIVITY START: 1251 END: 1311

SW SAMPLE LOCATION ID: J260292011

SD SAMPLE LOCATION ID:

SURFACE WATER DATA

WATER DEPTH @ SAMPLE LOCATION: 5' FT

DEPTH OF SAMPLE FROM TOP OF WATER: 6" FT

TEMPERATURE: 14 DEG C.

pH ..... 7.6 UNITS

SPEC. COND. 900 umhos/cm

TYPE OF SURFACE WATER:
- [ ] STREAM
- [ ] RIVER
- [ ] POND/LAKE
- [ ] SEEP
- [x] OTHER Ditch

EQUIPMENT USED FOR COLLECTION:
- [x] Pyrex Beaker
- [ ] NONE, GRAB INTO BOTTLE
- [ ] BOMB SAMPLER
- [ ] PUMP

VELOCITY MEASUREMENTS OBTAINED:
- [ ] YES, SEE FLOW DATA BELOW
- [x] NO

DECONTAMINATION FLUIDS USED:
- [x] LIQUI-NOX
- [x] DEIONIZED WATER
- [ ] TSP SOLUTION
- [ ] HEXANE
- [ ] HNO3 SOLUTION
- [ ] POTABLE WATER
- [ ] NONE
- [x] Iso-Propyl Alcohol

FIELD QC DATA: [ ] FIELD DUPLICATE COLLECTED DUP. ID

SAMPLE LOCATION SKETCH BELOW ?
- [ ] YES
- [x] NO

SEDIMENT DATA

DEPTH OF SEDIMENT SAMPLE: IN

TYPE OF SAMPLE COLLECTED:
- [x] DISCRETE
- [ ] COMPOSITE

SAMPLE OBSERVATIONS:
- [ ] ODOR
- [ ] COLORED

TYPE OF SEDIMENT:
- [ ] CLAY
- [ ] SAND
- [ ] ORGANIC
- [ ] GRAVEL
- [ ] OTHER:

EQUIPMENT USED FOR COLLECTION:
- [ ] GRAVITY CORER
- [ ] S.S. SPLIT SPOON
- [ ] HAND SPOON
- [ ] ALUMINUM PANS
- [ ] S.S. BUCKET
- [ ] DREDGE

DECONTAMINATION FLUIDS USED
- [ ] LIQUI-NOX
- [ ] DEIONIZED WATER
- [ ] TSP SOLUTION
- [ ] HEXANE
- [ ] HNO3 SOLUTION
- [ ] POTABLE WATER
- [ ] STREAM WATER
- [ ] NONE

FIELD QC DATA: [ ] FIELD DUPLICATE COLLECTED. DUP ID

ANALYTICAL PARAMETERS

	METHOD NUMBER	MATRIX SW	MATRIX SED	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	SAMPLE BOTTLE ID NUMBERS
[x] VOC w/TIC	624	[x]	[ ]	HCL	120 ML	[x]	
[x] Semi-Volatile organic w/TIC	625	[x]	[ ]	4°C	2L	[x]	
[x] PCB/PEST	608	[x]	[ ]	4°C	2 Liter	[x]	
[x] TAL/TCL metals		[x]	[ ]	HNO3	1 Liter	[x]	
[x] Cyanide	335.2	[x]	[ ]	NaOH	1/2 gallon	[x]	
[x] Gross Alpha	9310	[x]	[ ]	HNO3	HNO3	[x]	
[x] Gross Beta	9310	[x]	[ ]			[x]	
[x] Radium 226	9315	[x]	[ ]			[x]	
[x] Radium 228	9320	[x]	[ ]			[x]	
[ ]		[ ]	[ ]			[ ]	
[ ]		[ ]	[ ]			[ ]	
[ ]		[ ]	[ ]			[ ]	
[ ]		[ ]	[ ]			[ ]	

NOTES Sheen Noticed on water surfaced

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SIGNATURE:

ABB ENVIRONMENTAL SERVICES, INC

FIELD DATA RECORD - SURFACE WATER & SEDIMENT

JOB NUMBER: 7555-05 DATE: 2-2-92

LOCATION ACTIVITY START: 1251 END: 1311

PROJECT: NAS JAX OU1

SW SAMPLE LOCATION ID:

SD SAMPLE LOCATION ID: J2602920 11

SURFACE WATER DATA

WATER DEPTH @ SAMPLE LOCATION: FT

DEPTH OF SAMPLE FROM TOP OF WATER: FT

TEMPERATURE: DEG C.

pH ..... UNITS

SPEC. COND.: umhos/cm

TYPE OF SURFACE WATER:
- [ ] STREAM
- [ ] RIVER
- [ ] POND/LAKE
- [ ] SEEP
- [x] OTHER: DITCH

EQUIPMENT USED FOR COLLECTION:
- [ ] NONE, GRAB INTO BOTTLE
- [ ] BOMB SAMPLER
- [ ] PUMP

VELOCITY MEASUREMENTS OBTAINED:
- [ ] YES, SEE FLOW DATA BELOW
- [x] NO

DECONTAMINATION FLUIDS USED:
- [ ] LIQUI-NOX
- [ ] DEIONIZED WATER
- [ ] TSP SOLUTION
- [ ] HEXANE
- [ ] HNO3 SOLUTION
- [ ] POTABLE WATER
- [ ] NONE

FIELD QC DATA: [ ] FIELD DUPLICATE COLLECTED DUP. ID

SAMPLE LOCATION SKETCH BELOW ?
- [ ] YES
- [x] NO

SEDIMENT DATA

DEPTH OF SEDIMENT SAMPLE: 6"-12" IN

TYPE OF SAMPLE COLLECTED:
- [x] DISCRETE
- [x] COMPOSITE

SAMPLE OBSERVATIONS:
- [ ] ODOR
- [ ] COLORED

TYPE OF SEDIMENT:
- [ ] CLAY
- [ ] SAND
- [ ] ORGANIC
- [ ] GRAVEL
- [x] OTHER: Sand w/ Trace Silt, Clay

EQUIPMENT USED FOR COLLECTION:
- [ ] GRAVITY CORER
- [ ] S.S. SPLIT SPOON
- [ ] HAND SPOON
- [ ] ALUMINUM PANS
- [x] S.S. BUCKET
- [ ] DREDGE

DECONTAMINATION FLUIDS USED
- [x] LIQUI-NOX
- [x] DEIONIZED WATER
- [ ] TSP SOLUTION
- [ ] HEXANE
- [ ] HNO3 SOLUTION
- [ ] POTABLE WATER
- [ ] STREAM WATER
- [ ] NONE
- [x] ISO-PROPYL ALCOHOL

FIELD QC DATA: [ ] FIELD DUPLICATE COLLECTED. DUP ID

ANALYTICAL PARAMETERS

	METHOD NUMBER	MATRIX SW	MATRIX SED	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	SAMPLE BOTTLE ID NUMBERS
[x] VOC w/TIC	8240	[ ]	[x]	4°C	802	[x]	/ / /
[x] Semi-volatile organic	8270	[ ]	[x]	4°C	802	[x]	/ / /
[x] PCB/Pest	8080	[ ]	[x]	4°C		[x]	/ / /
[x] TAL/TCL Metals		[ ]	[x]			[x]	/ / /
[x]		[ ]	[x]	4°C		[x]	/ / /
[x] Cyanide	Different	[ ]	[x]	4°C		[x]	/ / /
[x] Gross Alpha	9310	[ ]	[x]	4°C	802	[x]	/ / /
[x] Gross Beta	9310	[ ]	[x]	4°C		[x]	/ / /
[x] Radium-226	9315	[ ]	[x]	4°C		[x]	/ / /
[x] Radium-228	9320	[ ]	[x]	4°C		[ ]	/ / /
[ ]		[ ]	[ ]			[ ]	/ / /
[ ]		[ ]	[ ]			[ ]	/ / /

NOTES

SIGNATURE:

MD 8/9/89

ABB ENVIRONMENTAL SERVICES, INC

FIELD DATA RECORD - SURFACE WATER & SEDIMENT

JOB NUMBER: 7555-05 DATE: 2-1-92

EST: NAS JAX OU1

LOCATION ACTIVITY START: 1400 END: 1430

SW SAMPLE LOCATION ID: J260292SW012

SD SAMPLE LOCATION ID:

SURFACE WATER DATA

WATER DEPTH @ SAMPLE LOCATION: 31 FT

DEPTH OF SAMPLE FROM TOP OF WATER: 6" FT

TEMPERATURE: 14 DEG C.

pH .....: 7.8 UNITS

SPEC. COND.: 950 umhos/cm

TYPE OF SURFACE WATER:
- [ ] STREAM
- [ ] RIVER
- [ ] POND/LAKE
- [ ] SEEP
- [x] OTHER Ditch

EQUIPMENT USED FOR COLLECTION:
- [x] Pyrex Beaker
- [ ] NONE, GRAB INTO BOTTLE
- [ ] BOMB SAMPLER
- [ ] PUMP

VELOCITY MESUREMENTS OBTAINED:
- [ ] YES, SEE FLOW DATA BELOW
- [x] NO

DECONTAMINATION FLUIDS USED:
- [x] LIQUI-NOX
- [x] DEIONIZED WATER
- [ ] TSP SOLUTION
- [ ] HEXANE
- [ ] HNO3 SOLUTION
- [ ] POTABLE WATER
- [ ] NONE
- [x] Iso-Propyl Alcohol

FIELD QC DATA: [ ] FIELD DUPLICATE COLLECTED DUP. ID _____

SAMPLE LOCATION SKETCH BELOW ?
- [ ] YES
- [x] NO

SEDIMENT DATA

DEPTH OF SEDIMENT SAMPLE: _____ IN

TYPE OF SAMPLE COLLECTED:
- [x] DISCRETE
- [ ] COMPOSITE

SAMPLE OBSERVATIONS:
- [ ] ODOR _____
- [ ] COLORED _____
- [ ] _____

TYPE OF SEDIMENT:
- [ ] CLAY
- [ ] SAND
- [ ] ORGANIC
- [ ] GRAVEL
- [ ] OTHER: _____

EQUIPMENT USED FOR COLLECTION:
- [ ] GRAVITY CORER
- [ ] S.S. SPLIT SPOON
- [ ] HAND SPOON
- [ ] ALUMINUM PANS
- [ ] S.S. BUCKET
- [ ] DREDGE
- [ ] _____

DECONTAMINATION FLUIDS USED
- [ ] LIQUI-NOX
- [ ] DEIONIZED WATER
- [ ] TSP SOLUTION
- [ ] HEXANE
- [ ] HNO3 SOLUTION
- [ ] POTABLE WATER
- [ ] STREAM WATER
- [ ] NONE

FIELD QC DATA: [ ] FIELD DUPLICATE COLLECTED. DUP ID _____

ANALYTICAL PARAMETERS

	METHOD NUMBER	MATRIX SW	MATRIX SED	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	SAMPLE BOTTLE ID NUMBERS
[x] VOC v/tic	624	[x]	[ ]	HCL	180 ML	[x]	___/___/___/___
[x] Semi-Volatile Organic v/tic	625	[x]	[ ]	4°C	2L	[x]	___/___/___/___
[x] PCB/PEST	608	[x]	[ ]	4°C	2 Liter	[x]	___/___/___/___
[x] TAL/TCL metals		[x]	[ ]	HNO3	1 Liter	[x]	___/___/___/___
[x] Cyanide	335.2	[x]	[ ]	NAOH	1/2 gallon	[x]	___/___/___/___
[x] Gross Alpha	9310	[x]	[ ]	HNO3	HNO3	[x]	___/___/___/___
[x] Gross Beta	9310	[x]	[ ]			[x]	___/___/___/___
[x] Radium 226	9315	[x]	[ ]			[x]	___/___/___/___
[x] Radium 228	9320	[x]	[ ]			[x]	___/___/___/___
[ ]		[ ]	[ ]			[x]	___/___/___/___
[ ]		[ ]	[ ]			[ ]	___/___/___/___
[ ]		[ ]	[ ]			[ ]	___/___/___/___

NOTES

MD 8/9/89

SIGNATURE: _____

ABB ENVIRONMENTAL SERVICES, INC

FIELD DATA RECORD – SURFACE WATER & SEDIMENT

JOB NUMBER: 7555-05 DATE: 2-1-92

PROJECT: NAS JAX OU1

LOCATION ACTIVITY START: 1400 END: 1430

SW SAMPLE LOCATION ID:

SD SAMPLE LOCATION ID: J2602292SD012

SURFACE WATER DATA

WATER DEPTH @ SAMPLE LOCATION: FT

DEPTH OF SAMPLE FROM TOP OF WATER: FT

TEMPERATURE: DEG C.

pH .....: UNITS

SPEC. COND.: umhos/cm

TYPE OF SURFACE WATER:
- [ ] STREAM
- [ ] RIVER
- [ ] POND/LAKE
- [ ] SEEP
- [x] OTHER: Ditch

EQUIPMENT USED FOR COLLECTION:
- [ ] NONE, GRAB INTO BOTTLE
- [ ] BOMB SAMPLER
- [ ] PUMP

VELOCITY MESUREMENTS OBTAINED:
- [ ] YES, SEE FLOW DATA BELOW
- [x] NO

DECONTAMINATION FLUIDS USED:
- [ ] LIQUI-NOX
- [ ] DEIONIZED WATER
- [ ] TSP SOLUTION
- [ ] HEXANE
- [ ] HNO3 SOLUTION
- [ ] POTABLE WATER
- [ ] NONE

FIELD QC. DATA: [ ] FIELD DUPLICATE COLLECTED DUP. ID

SAMPLE LOCATION SKETCH BELOW ?
- [ ] YES
- [x] NO

SEDIMENT DATA

DEPTH OF SEDIMENT SAMPLE: 6-12" IN

TYPE OF SAMPLE COLLECTED:
- [x] DISCRETE
- [x] COMPOSITE

SAMPLE OBSERVATIONS:
- [ ] ODOR
- [x] COLORED Black

TYPE OF SEDIMENT:
- [ ] CLAY
- [ ] SAND
- [ ] ORGANIC
- [ ] GRAVEL
- [x] OTHER: Silty Sand

EQUIPMENT USED FOR COLLECTION:
- [ ] GRAVITY CORER
- [ ] S.S. SPLIT SPOON
- [ ] HAND SPOON
- [ ] ALUMINUM PANS
- [x] S.S. BUCKET
- [ ] DREDGE

DECONTAMINATION FLUIDS USED
- [x] LIQUI-NOX
- [x] DEIONIZED WATER
- [ ] TSP SOLUTION
- [ ] HEXANE
- [ ] HNO3 SOLUTION
- [ ] POTABLE WATER
- [ ] STREAM WATER
- [ ] NONE
- [x] Iso-Propyl Alcohol

FIELD QC DATA: [ ] FIELD DUPLICATE COLLECTED. DUP ID

ANALYTICAL PARAMETERS

	METHOD NUMBER	MATRIX SW	MATRIX SED	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	SAMPLE BOTTLE ID NUMBERS
[x] VOC w/TIC	8240	[ ]	[x]	4°C	80Z	[x]	/ / /
[x] Semi-volatile organic	8270	[ ]	[x]	4°C	80Z	[x]	/ / /
[x] PCB/Pest	8080	[ ]	[x]	4°C		[x]	/ / /
[x] TAL/TCL Metals		[ ]	[x]			[x]	/ / /
[x] Cyanide	Different	[ ]	[x]	4°C		[x]	/ / /
[x] Gross Alpha	9310	[ ]	[x]	4°C	80Z	[x]	/ / /
[x] Gross Beta	9310	[ ]	[x]	4°C		[x]	/ / /
[x] Radium-226	9315	[ ]	[x]	4°C		[x]	/ / /
[x] Radium-228	9320	[ ]	[x]	4°C		[x]	/ / /
[ ]		[ ]	[ ]			[ ]	/ / /

NOTES

MD 8/9/89

SIGNATURE:

ABB ENVIRONMENTAL SERVICES, INC

FIELD DATA RECORD - SURFACE WATER & SEDIMENT

JOB NUMBER: 7555-05 DATE: 2-3-92

SITE: NAS JAX OU1

LOCATION ACTIVITY: START: 0940 END: 0959

SW SAMPLE LOCATION ID: J260292SW023

SD SAMPLE LOCATION ID:

SURFACE WATER DATA

WATER DEPTH @ SAMPLE LOCATION: 8" FT

DEPTH OF SAMPLE FROM TOP OF WATER: 2" FT

TEMPERATURE: 11 DEG C.

pH ..... 7.0 UNITS

SPEC. COND. 350 umhos/cm

TYPE OF SURFACE WATER:
- [ ] STREAM
- [ ] RIVER
- [ ] POND/LAKE
- [ ] SEEP
- [x] OTHER Ditch

EQUIPMENT USED FOR COLLECTION:
- [x] Pyrex Beaker
- [ ] NONE, GRAB INTO BOTTLE
- [ ] BOMB SAMPLER
- [ ] PUMP

VELOCITY MESUREMENTS OBTAINED:
- [ ] YES, SEE FLOW DATA BELOW
- [x] NO

DECONTAMINATION FLUIDS USED:
- [x] LIQUI-NOX
- [x] DEIONIZED WATER
- [ ] TSP SOLUTION
- [ ] HEXANE
- [ ] HNO3 SOLUTION
- [ ] POTABLE WATER
- [ ] NONE
- [x] Iso-Propyl Alcohol

FIELD QC. DATA: [ ] FIELD DUPLICATE COLLECTED DUP. ID _____

SAMPLE LOCATION SKETCH BELOW ?
- [ ] YES
- [x] NO

SEDIMENT DATA

DEPTH OF SEDIMENT SAMPLE: _____ IN

TYPE OF SAMPLE COLLECTED:
- [x] DISCRETE
- [ ] COMPOSITE

SAMPLE OBSERVATIONS:
- [ ] ODOR _____
- [ ] COLORED _____
- [ ] _____

TYPE OF SEDIMENT:
- [ ] CLAY
- [ ] SAND
- [ ] ORGANIC
- [ ] GRAVEL
- [ ] OTHER: _____

EQUIPMENT USED FOR COLLECTION:
- [ ] GRAVITY CORER
- [ ] S.S. SPLIT SPOON
- [ ] HAND SPOON
- [ ] ALUMINUM PANS
- [ ] S.S. BUCKET
- [ ] DREDGE
- [ ] _____

DECONTAMINATION FLUIDS USED
- [ ] LIQUI-NOX
- [ ] DEIONIZED WATER
- [ ] TSP SOLUTION
- [ ] HEXANE
- [ ] HNO3 SOLUTION
- [ ] POTABLE WATER
- [ ] STREAM WATER
- [ ] NONE

FIELD QC DATA: [ ] FIELD DUPLICATE COLLECTED. DUP ID _____

ANALYTICAL PARAMETERS

	METHOD NUMBER	MATRIX SW	MATRIX SED	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	SAMPLE BOTTLE ID NUMBERS
[x] VOC w/TIC	624	[x]	[ ]	HCL	120 ML	[x]	____/____/____/____
[x] Semi-Volatile organic w/TIC	625	[x]	[ ]	4°C	2L	[x]	____/____/____/____
[x] PCB/PEST	608	[x]	[ ]	4°C	2Liter	[x]	____/____/____/____
[x] TAL/TCL metals		[x]	[ ]	HNO3	1Liter	[x]	____/____/____/____
[x] Cyanide	335.2	[x]	[ ]	NAOH	1/2gallon	[x]	____/____/____/____
[x] Gross Alpha	9310	[x]	[ ]			[x]	____/____/____/____
[x] Gross Beta	9310	[x]	[ ]	HNO3	HNO3	[x]	____/____/____/____
[x] Radium 226	9315	[x]	[ ]			[x]	____/____/____/____
[x] Radium 228	9320	[x]	[ ]			[x]	____/____/____/____
[ ]		[ ]	[ ]			[ ]	____/____/____/____
[ ]		[ ]	[ ]			[ ]	____/____/____/____
[ ]		[ ]	[ ]			[ ]	____/____/____/____

NOTES

SIGNATURE: _____

ABB ENVIRONMENTAL SERVICES, INC

FIELD DATA RECORD - SURFACE WATER & SEDIMENT

JOB NUMBER: 7555-05 DATE: 2-3-92

PROJECT: NAS JAX OU1

LOCATION ACTIVITY START: 0940 END: 0959

SW SAMPLE LOCATION ID:

SD SAMPLE LOCATION ID: J260292 SD023

SURFACE WATER DATA

WATER DEPTH @ SAMPLE LOCATION: FT

DEPTH OF SAMPLE FROM TOP OF WATER: FT

TEMPERATURE: DEG C.

pH .....: UNITS

SPEC. COND.: umhos/cm

TYPE OF SURFACE WATER:
- [ ] STREAM
- [ ] RIVER
- [ ] POND/LAKE
- [ ] SEEP
- [x] OTHER Ditch

EQUIPMENT USED FOR COLLECTION:
- [ ] NONE, GRAB INTO BOTTLE
- [ ] BOMB SAMPLER
- [ ] PUMP

VELOCITY MESUREMENTS OBTAINED:
- [ ] YES, SEE FLOW DATA BELOW
- [x] NO

DECONTAMINATION FLUIDS USED:
- [ ] LIQUI-NOX
- [ ] DEIONIZED WATER
- [ ] TSP SOLUTION
- [ ] HEXANE
- [ ] HNO3 SOLUTION
- [ ] POTABLE WATER
- [ ] NONE

FIELD QC. DATA: [ ] FIELD DUPLICATE COLLECTED DUP. ID

SAMPLE LOCATION SKETCH BELOW ?
- [ ] YES
- [x] NO

SEDIMENT DATA

DEPTH OF SEDIMENT SAMPLE: 4-6" IN

TYPE OF SAMPLE COLLECTED:
- [x] DISCRETE
- [x] COMPOSITE

SAMPLE OBSERVATIONS:
- [ ] ODOR
- [x] COLORED TAN MUK

TYPE OF SEDIMENT:
- [ ] CLAY
- [x] SAND
- [ ] ORGANIC
- [ ] GRAVEL
- [ ] OTHER:

EQUIPMENT USED FOR COLLECTION:
- [ ] GRAVITY CORER
- [ ] S.S. SPLIT SPOON
- [ ] HAND SPOON
- [ ] ALUMINUM PANS
- [x] S.S. BUCKET
- [ ] DREDGE

DECONTAMINATION FLUIDS USED
- [x] LIQUI-NOX
- [x] DEIONIZED WATER
- [ ] TSP SOLUTION
- [ ] HEXANE
- [ ] HNO3 SOLUTION
- [ ] POTABLE WATER
- [ ] STREAM WATER
- [ ] NONE
- [x] Iso-Propyl Alcohol

FIELD QC DATA: [ ] FIELD DUPLICATE COLLECTED. DUP ID

ANALYTICAL PARAMETERS

	METHOD NUMBER	MATRIX SW	MATRIX SED	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	SAMPLE BOTTLE ID NUMBERS
[x] VOC w/TIC	8240	[ ]	[x]	4°C	8oz	[x]	/ / /
[x] Semi-Volatile Organic	8270	[ ]	[x]	4°C	8oz	[x]	/ / /
[x] PCB/Pest	8080	[ ]	[x]	4°C		[x]	/ / /
[x] TAL/TCL Metals		[ ]	[x]	4°C		[x]	/ / /
[x] Cyanide	Digestion	[ ]	[x]	4°C		[x]	/ / /
[x] Gross Alpha	9310	[ ]	[x]	4°C		[x]	/ / /
[x] Gross Beta	9310	[ ]	[x]	4°C	8oz	[x]	/ / /
[x] Radium-226	9315	[ ]	[x]	4°C		[x]	/ / /
[x] Radium-228	9320	[ ]	[x]	4°C		[x]	/ / /
[ ]		[ ]	[ ]			[ ]	/ / /

NOTES

MD 8/9/89

SIGNATURE:

ABB ENVIRONMENTAL SERVICES, INC

FIELD DATA RECORD - SURFACE WATER & SEDIMENT

JOB NUMBER: 7555-05 DATE: 2/3/92

PROJECT: NAS JAX OU1

LOCATION ACTIVITY START: 1430 END: 1443

SW SAMPLE LOCATION ID: J260292SW024

SD SAMPLE LOCATION ID:

SURFACE WATER DATA

WATER DEPTH @ SAMPLE LOCATION: 8" ~~FT~~

DEPTH OF SAMPLE FROM TOP OF WATER: FT

TEMPERATURE: 16 DEG C.

pH ..... 7.5 UNITS

SPEC. COND. 355 umhos/cm

TYPE OF SURFACE WATER:
- [ ] STREAM
- [ ] RIVER
- [ ] POND/LAKE
- [ ] SEEP
- [x] OTHER Ditch

EQUIPMENT USED FOR COLLECTION:
- [x] Pyrex Beaker
- [ ] NONE, GRAB INTO BOTTLE
- [ ] BOMB SAMPLER
- [ ] PUMP

VELOCITY MEASUREMENTS OBTAINED:
- [ ] YES, SEE FLOW DATA BELOW
- [x] NO

DECONTAMINATION FLUIDS USED:
- [x] LIQUI-NOX
- [x] DEIONIZED WATER
- [ ] TSP SOLUTION
- [ ] HEXANE
- [ ] HNO3 SOLUTION
- [ ] POTABLE WATER
- [ ] NONE
- [x] Iso-Propyl Alcohol

FIELD QC DATA:
- [ ] FIELD DUPLICATE COLLECTED DUP. ID
- SAMPLE LOCATION SKETCH BELOW ?
- [ ] YES
- [x] NO

SEDIMENT DATA

DEPTH OF SEDIMENT SAMPLE: IN

TYPE OF SAMPLE COLLECTED:
- [x] DISCRETE
- [ ] COMPOSITE

SAMPLE OBSERVATIONS:
- [ ] ODOR
- [ ] COLORED

TYPE OF SEDIMENT:
- [ ] CLAY
- [ ] SAND
- [ ] ORGANIC
- [ ] GRAVEL
- [ ] OTHER:

EQUIPMENT USED FOR COLLECTION:
- [ ] GRAVITY CORER
- [ ] S.S. SPLIT SPOON
- [ ] HAND SPOON
- [ ] ALUMINUM PANS
- [ ] S.S. BUCKET
- [ ] DREDGE

DECONTAMINATION FLUIDS USED:
- [ ] LIQUI-NOX
- [ ] DEIONIZED WATER
- [ ] TSP SOLUTION
- [ ] HEXANE
- [ ] HNO3 SOLUTION
- [ ] POTABLE WATER
- [ ] STREAM WATER
- [ ] NONE

FIELD QC DATA: [ ] FIELD DUPLICATE COLLECTED. DUP ID

ANALYTICAL PARAMETERS

ANALYTICAL PARAMETERS	METHOD NUMBER	MATRIX SW	MATRIX SED	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	SAMPLE BOTTLE ID NUMBERS
[x] VOC w/TIC	624	[x]	[ ]	HCL	120 mL	[x]	/ / /
[x] Semi-Volatile Organic w/TIC	625	[x]	[ ]	4°C	2L	[x]	/ / /
[x] PCB/PEST	608	[x]	[ ]	4°C	2 Liter	[x]	/ / /
[x] TAL/TCL METALS		[x]	[ ]	HNO3	1 Liter	[x]	/ / /
[x] Cyanide	335.2	[x]	[ ]	NaOH	1/2 gallon	[x]	/ / /
[x] Gross Alpha	9310	[x]	[ ]	HNO3	HNO3	[x]	/ / /
[x] Gross Beta	9310	[x]	[ ]			[x]	/ / /
[x] Radium 226	9315	[x]	[ ]			[x]	/ / /
[x] Radium 228	9320	[x]	[ ]			[x]	/ / /
[ ]		[ ]	[ ]			[x]	/ / /
[ ]		[ ]	[ ]			[ ]	/ / /
[ ]		[ ]	[ ]			[ ]	/ / /

NOTES

MD 8/9/89

SIGNATURE:

FIELD DATA RECORD - SURFACE WATER & SEDIMENT

JOB NUMBER: 7555-05 DATE: 2/3/92

PROJECT: NAS JAX OU1

LOCATION ACTIVITY START: 1430 END: 1443

SW SAMPLE LOCATION ID:

SD SAMPLE LOCATION ID: ~~J26~~ PVC J2602925D024

SURFACE WATER DATA

WATER DEPTH @ SAMPLE LOCATION: FT

DEPTH OF SAMPLE FROM TOP OF WATER: FT

TEMPERATURE: DEG C.

pH .....: UNITS

SPEC. COND.: umhos/cm

TYPE OF SURFACE WATER:
- [ ] STREAM
- [ ] RIVER
- [ ] POND/LAKE
- [ ] SEEP
- [x] OTHER: Ditch

EQUIPMENT USED FOR COLLECTION:
- [ ] NONE, GRAB INTO BOTTLE
- [ ] BOMB SAMPLER
- [ ] PUMP

VELOCITY MEASUREMENTS OBTAINED:
- [ ] YES, SEE FLOW DATA BELOW
- [x] NO

DECONTAMINATION FLUIDS USED:
- [ ] LIQUI-NOX
- [ ] DEIONIZED WATER
- [ ] TSP SOLUTION
- [ ] HEXANE
- [ ] HNO3 SOLUTION
- [ ] POTABLE WATER
- [ ] NONE

FIELD QC DATA: [ ] FIELD DUPLICATE COLLECTED DUP. ID

SAMPLE LOCATION SKETCH BELOW ?
- [ ] YES
- [x] NO

SEDIMENT DATA

DEPTH OF SEDIMENT SAMPLE: 0-6" IN

TYPE OF SAMPLE COLLECTED:
- [x] DISCRETE
- [x] COMPOSITE

SAMPLE OBSERVATIONS:
- [ ] ODOR
- [x] COLORED Brown
- [ ]

TYPE OF SEDIMENT:
- [ ] CLAY
- [ ] SAND
- [ ] ORGANIC
- [ ] GRAVEL
- [x] OTHER: Silt

EQUIPMENT USED FOR COLLECTION:
- [ ] GRAVITY CORER
- [ ] S.S. SPLIT SPOON
- [ ] HAND SPOON
- [ ] ALUMINUM PANS
- [x] S.S. BUCKET
- [ ] DREDGE

DECONTAMINATION FLUIDS USED
- [x] LIQUI-NOX
- [x] DEIONIZED WATER
- [ ] TSP SOLUTION
- [ ] HEXANE
- [ ] HNO3 SOLUTION
- [ ] POTABLE WATER
- [ ] STREAM WATER
- [ ] NONE
- [x] ISO-Propyl Alcohol

FIELD QC DATA: [ ] FIELD DUPLICATE COLLECTED. DUP ID

ANALYTICAL PARAMETERS

	METHOD NUMBER	MATRIX SW	MATRIX SED	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	SAMPLE BOTTLE ID NUMBERS
[x] VOC w/TIC	8240	[ ]	[x]	4°C	8oz	[x]	/ / /
[x] Semi-Volatile Organic	8270	[ ]	[x]	4°C	8oz	[x]	/ / /
[x] PCB/Pest	8080	[ ]	[x]	4°C		[x]	/ / /
[x] TAL/TCL Metals		[ ]	[x]			[x]	/ / /
[x] Cyanide	Digestion	[ ]	[x]	4°C		[x]	/ / /
[x] Gross Alpha	9310	[ ]	[x]	4°C	8oz	[x]	/ / /
[x] Gross Beta	9310	[ ]	[x]	4°C		[x]	/ / /
[x] Radium-226	9315	[ ]	[x]	4°C		[x]	/ / /
[x] Radium-228	9320	[ ]	[x]	4°C		[ ]	/ / /
[ ]		[ ]	[ ]			[ ]	/ / /

NOTES

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SIGNATURE:

ABB ENVIRONMENTAL SERVICES, INC

FIELD DATA RECORD - SURFACE WATER & SEDIMENT

JOB NUMBER: 7555-05 DATE: 2/3/92

PROJECT: NAS JAX OU1

LOCATION ACTIVITY: START: 1450 END: 1509

SW SAMPLE LOCATION ID: J260292SW025

SD SAMPLE LOCATION ID:

SURFACE WATER DATA

WATER DEPTH @ SAMPLE LOCATION: 1' FT

DEPTH OF SAMPLE FROM TOP OF WATER: 0-6" FT

TEMPERATURE: 16 DEG C.

PH .....: 3.2 UNITS

SPEC. COND.: 80 umhos/cm

TYPE OF SURFACE WATER:
- ☐ STREAM
- ☐ RIVER
- ☐ POND/LAKE
- ☐ SEEP
- ☒ OTHER Ditch

EQUIPMENT USED FOR COLLECTION:
- ☒ Pyrex Beaker
- ☐ NONE, GRAB INTO BOTTLE
- ☐ BOMB SAMPLER
- ☐ PUMP

VELOCITY MEASUREMENTS OBTAINED:
- ☐ YES, SEE FLOW DATA BELOW
- ☒ NO

DECONTAMINATION FLUIDS USED:
- ☒ LIQUI-NOX
- ☒ DEIONIZED WATER
- ☐ TSP SOLUTION
- ☐ HEXANE
- ☐ HNO3 SOLUTION
- ☐ POTABLE WATER
- ☐ NONE
- ☒ Iso-Propyl Alcohol

FIELD QC DATA: ☐ FIELD DUPLICATE COLLECTED DUP. ID _____

SAMPLE LOCATION SKETCH BELOW ?
- ☐ YES
- ☒ NO

SEDIMENT DATA

DEPTH OF SEDIMENT SAMPLE: _____ IN

TYPE OF SAMPLE COLLECTED:
- ☒ DISCRETE
- ☐ COMPOSITE

SAMPLE OBSERVATIONS:
- ☐ ODOR _____
- ☐ COLORED _____
- ☐ _____

TYPE OF SEDIMENT:
- ☐ CLAY
- ☐ SAND
- ☐ ORGANIC
- ☐ GRAVEL
- ☐ OTHER: _____

EQUIPMENT USED FOR COLLECTION:
- ☐ GRAVITY CORER
- ☐ S.S. SPLIT SPOON
- ☐ HAND SPOON
- ☐ ALUMINUM PANS
- ☐ S.S. BUCKET
- ☐ DREDGE
- ☐ _____

DECONTAMINATION FLUIDS USED
- ☐ LIQUI-NOX
- ☐ DEIONIZED WATER
- ☐ TSP SOLUTION
- ☐ HEXANE
- ☐ HNO3 SOLUTION
- ☐ POTABLE WATER
- ☐ STREAM WATER
- ☐ NONE

FIELD QC DATA: ☐ FIELD DUPLICATE COLLECTED. DUP ID _____

ANALYTICAL PARAMETERS

	METHOD NUMBER	MATRIX SW	MATRIX SED	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	SAMPLE BOTTLE ID NUMBERS
☒ VOC v/ttc	624	☒	☐	HCL	120 ML	☒	___/___/___/___
☒ Semi-Volatile Organic v/ttc	625	☒	☐	4°C	2L	☒	___/___/___/___
☒ PCB/PEST	608	☒	☐	4°C	2 Liter	☒	___/___/___/___
☒ TAL/TCL metals		☒	☐	HNO3	1 Liter	☒	___/___/___/___
☒ Cyanide	335.2	☒	☐	NAOH	1/2 gallon	☒	___/___/___/___
☒ Gross Alpha	9310	☒	☐			☒	___/___/___/___
☒ Gross Beta	9310	☒	☐	HNO3	HNO3	☒	___/___/___/___
☒ Radium 226	9315	☒	☐			☒	___/___/___/___
☒ Radium 228	9320	☒	☐			☒	___/___/___/___
☐		☐	☐			☐	___/___/___/___
☐		☐	☐			☐	___/___/___/___
☐		☐	☐			☐	___/___/___/___
☐		☐	☐			☐	___/___/___/___

NOTES: Spec. Cond. was checked once again by Patrick Craine on another day. Spec cond was again 80 umos/cm

Patrick

SIGNATURE: _____

ABB ENVIRONMENTAL SERVICES, INC

FIELD DATA RECORD - SURFACE WATER & SEDIMENT

JOB NUMBER: 7555-05 DATE: 2/3/92

PROJECT: NAS JAX OU1

LOCATION ACTIVITY START: 1450 END: 1509

SW SAMPLE LOCATION ID:

SD SAMPLE LOCATION ID: J260292SD025

SURFACE WATER DATA

WATER DEPTH @ SAMPLE LOCATION: FT

DEPTH OF SAMPLE FROM TOP OF WATER: FT

TEMPERATURE: DEG C.

pH .....: UNITS

SPEC. COND.: umhos/cm

TYPE OF SURFACE WATER:
- [ ] STREAM
- [ ] RIVER
- [ ] POND/LAKE
- [ ] SEEP
- [x] OTHER: Ditch

EQUIPMENT USED FOR COLLECTION:
- [ ] NONE, GRAB INTO BOTTLE
- [ ] BOMB SAMPLER
- [ ] PUMP

VELOCITY MESUREMENTS OBTAINED:
- [ ] YES, SEE FLOW DATA BELOW
- [x] NO

DECONTAMINATION FLUIDS USED:
- [ ] LIQUI-NOX
- [ ] DEIONIZED WATER
- [ ] TSP SOLUTION
- [ ] HEXANE
- [ ] HNO3 SOLUTION
- [ ] POTABLE WATER
- [ ] NONE

FIELD QC DATA: [ ] FIELD DUPLICATE COLLECTED DUP. ID

SAMPLE LOCATION SKETCH BELOW ?
- [ ] YES
- [x] NO

SEDIMENT DATA

DEPTH OF SEDIMENT SAMPLE: 0-6" IN

TYPE OF SAMPLE COLLECTED:
- [x] DISCRETE
- [x] COMPOSITE

SAMPLE OBSERVATIONS:
- [ ] ODOR
- [x] COLORED TAN
- [ ]

TYPE OF SEDIMENT:
- [ ] CLAY
- [ ] SAND
- [ ] ORGANIC
- [ ] GRAVEL
- [x] OTHER: Sands w/ Organics

EQUIPMENT USED FOR COLLECTION:
- [ ] GRAVITY CORER
- [ ] S.S. SPLIT SPOON
- [ ] HAND SPOON
- [ ] ALUMINUM PANS
- [x] S.S. BUCKET
- [ ] DREDGE
- [ ]

DECONTAMINATION FLUIDS USED
- [x] LIQUI-NOX
- [x] DEIONIZED WATER
- [ ] TSP SOLUTION
- [ ] HEXANE
- [ ] HNO3 SOLUTION
- [ ] POTABLE WATER
- [ ] STREAM WATER
- [ ] NONE
- [x] Iso-Propyl Alcohol

FIELD QC DATA: [ ] FIELD DUPLICATE COLLECTED. DUP ID

ANALYTICAL PARAMETERS

	METHOD NUMBER	MATRIX SW	MATRIX SED	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	SAMPLE BOTTLE ID NUMBERS
[x] VOC w/TIC	8240	[ ]	[x]	4°C	8oz	[x]	/ / /
[x] Semi-Volatile Organic	8270	[ ]	[x]	4°C	8oz	[x]	/ / /
[x] PCB/Pest	8080	[ ]	[x]	4°C		[x]	/ / /
[x] TAL/TCL Metals		[ ]	[x]			[x]	/ / /
[x] Cyanide	DI/Extract	[ ]	[x]	4°C		[x]	/ / /
[x] Gross Alpha	9310	[ ]	[x]	4°C	8oz	[x]	/ / /
[x] Gross Beta	9310	[ ]	[x]	4°C		[x]	/ / /
[x] Radium-226	9315	[ ]	[x]	4°C		[x]	/ / /
[x] Radium-228	9320	[ ]	[x]	4°C		[x]	/ / /
[ ]		[ ]	[ ]			[ ]	/ / /

NOTES

MD 8/9/89

SIGNATURE:

ABB ENVIRONMENTAL SERVICES, INC

FIELD DATA RECORD - SURFACE WATER & SEDIMENT

JOB NUMBER: 7555-05 DATE: 2/3/92

PROJECT: NAS JAX OU1

LOCATION ACTIVITY: START: 1509 END: 1520

SW SAMPLE LOCATION ID: J26029 25W026

SD SAMPLE LOCATION ID:

SURFACE WATER DATA

WATER DEPTH @ SAMPLE LOCATION: 2' FT

DEPTH OF SAMPLE FROM TOP OF WATER: FT

TEMPERATURE: 18 DEG C.

pH ..... UNITS

SPEC. COND.: 325 umhos/cm

TYPE OF SURFACE WATER:
- [ ] STREAM
- [ ] RIVER
- [ ] POND/LAKE
- [ ] SEEP
- [x] OTHER Ditch

EQUIPMENT USED FOR COLLECTION:
- [x] Pyrex Beaker
- [ ] NONE, GRAB INTO BOTTLE
- [ ] BOMB SAMPLER
- [ ] PUMP

VELOCITY MESUREMENTS OBTAINED:
- [ ] YES, SEE FLOW DATA BELOW
- [x] NO

DECONTAMINATION FLUIDS USED:
- [x] LIQUI-NOX
- [x] DEIONIZED WATER
- [ ] TSP SOLUTION
- [ ] HEXANE
- [ ] HNO3 SOLUTION
- [ ] POTABLE WATER
- [ ] NONE
- [x] Iso-Propyl Alcohol

FIELD QC DATA: [ ] FIELD DUPLICATE COLLECTED DUP. ID

SAMPLE LOCATION SKETCH BELOW ?
- [ ] YES
- [x] NO

SEDIMENT DATA

DEPTH OF SEDIMENT SAMPLE: IN

TYPE OF SAMPLE COLLECTED:
- [x] DISCRETE
- [ ] COMPOSITE

SAMPLE OBSERVATIONS:
- [ ] ODOR
- [ ] COLORED

TYPE OF SEDIMENT:
- [ ] CLAY
- [ ] SAND
- [ ] ORGANIC
- [ ] GRAVEL
- [ ] OTHER:

EQUIPMENT USED FOR COLLECTION:
- [ ] GRAVITY CORER
- [ ] S.S. SPLIT SPOON
- [ ] HAND SPOON
- [ ] ALUMINUM PANS
- [ ] S.S. BUCKET
- [ ] DREDGE

DECONTAMINATION FLUIDS USED
- [ ] LIQUI-NOX
- [ ] DEIONIZED WATER
- [ ] TSP SOLUTION
- [ ] HEXANE
- [ ] HNO3 SOLUTION
- [ ] POTABLE WATER
- [ ] STREAM WATER
- [ ] NONE

FIELD QC DATA: [ ] FIELD DUPLICATE COLLECTED. DUP ID

ANALYTICAL PARAMETERS

	METHOD NUMBER	MATRIX SW	MATRIX SED	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	SAMPLE BOTTLE ID NUMBERS
[x] VOC w/TIC	624	[x]	[ ]	HCL	120 ML	[x]	
[x] Semi-Volatile Organic w/TIC	625	[x]	[ ]	4°C	2L	[x]	
[x] PCB/PEST	608	[x]	[ ]	4°C	2 Liter	[x]	
[x] TAL/TCL metals		[x]	[ ]	HNO3	1 Liter	[x]	
[x] Cyanide	335.2	[x]	[ ]	NAOH	1/2 gallon	[x]	
[x] Gross Alpha	9310	[x]	[ ]			[x]	
[x] Gross Beta	9310	[x]	[ ]	HNO3	HNO3	[x]	
[x] Radium 226	9315	[x]	[ ]			[x]	
[x] Radium 228	9320	[x]	[ ]			[x]	
[ ]		[ ]	[ ]			[ ]	
[ ]		[ ]	[ ]			[ ]	
[ ]		[ ]	[ ]			[ ]	

NOTES

MD 8/9/89

SIGNATURE:

ABB ENVIRONMENTAL SERVICES, INC

FIELD DATA RECORD - SURFACE WATER & SEDIMENT

JOB NUMBER: 7555-05 DATE: 2/3/92

PROJECT: NAS JAX OU1

LOCATION ACTIVITY START: 1509 END: 1520

SW SAMPLE LOCATION ID:

SD SAMPLE LOCATION ID: J2602925D026

SURFACE WATER DATA

WATER DEPTH @ SAMPLE LOCATION: FT

DEPTH OF SAMPLE FROM TOP OF WATER: FT

TEMPERATURE: DEG C.

pH .....: UNITS

SPEC. COND.: umhos/cm

TYPE OF SURFACE WATER:
- [ ] STREAM
- [ ] RIVER
- [ ] POND/LAKE
- [ ] SEEP
- [x] OTHER: Ditch

EQUIPMENT USED FOR COLLECTION:
- [ ] NONE, GRAB INTO BOTTLE
- [ ] BOMB SAMPLER
- [ ] PUMP

VELOCITY MEASUREMENTS OBTAINED:
- [ ] YES, SEE FLOW DATA BELOW
- [x] NO

DECONTAMINATION FLUIDS USED:
- [ ] LIQUI-NOX
- [ ] DEIONIZED WATER
- [ ] TSP SOLUTION
- [ ] HEXANE
- [ ] HNO3 SOLUTION
- [ ] POTABLE WATER
- [ ] NONE

FIELD QC DATA:
- [ ] FIELD DUPLICATE COLLECTED
- DUP. ID:

SAMPLE LOCATION SKETCH BELOW ?
- [ ] YES
- [x] NO

SEDIMENT DATA

DEPTH OF SEDIMENT SAMPLE: IN

TYPE OF SAMPLE COLLECTED:
- [x] DISCRETE
- [x] COMPOSITE

SAMPLE OBSERVATIONS:
- [ ] ODOR
- [x] COLORED TAN

TYPE OF SEDIMENT:
- [ ] CLAY
- [ ] SAND
- [ ] ORGANIC
- [ ] GRAVEL
- [x] OTHER: Silty Sands

EQUIPMENT USED FOR COLLECTION:
- [ ] GRAVITY CORER
- [ ] S.S. SPLIT SPOON
- [ ] HAND SPOON
- [ ] ALUMINUM PANS
- [x] S.S. BUCKET
- [ ] DREDGE

DECONTAMINATION FLUIDS USED
- [x] LIQUI-NOX
- [x] DEIONIZED WATER
- [ ] TSP SOLUTION
- [ ] HEXANE
- [ ] HNO3 SOLUTION
- [ ] POTABLE WATER
- [ ] STREAM WATER
- [ ] NONE
- [x] ISO-PROPYL Alcohol

FIELD QC DATA:
- [ ] FIELD DUPLICATE COLLECTED. DUP ID

ANALYTICAL PARAMETERS

	METHOD NUMBER	MATRIX SW	MATRIX SED	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	SAMPLE BOTTLE ID NUMBERS
[x] VOC w/TIC	8240	[ ]	[x]	4°C	8oz	[x]	/ / /
[x] Semi-Volatile Organic	8270	[ ]	[x]	4°C	8oz	[x]	/ / /
[x] PCB/Pest	8080	[ ]	[x]	4°C		[x]	/ / /
[x] TAL/TCL Metals		[ ]	[x]			[x]	/ / /
[x] Cyanide	Different	[ ]	[x]	4°C		[x]	/ / /
[x] Gross Alpha	9310	[ ]	[x]	4°C	8oz	[x]	/ / /
[x] Gross Beta	9310	[ ]	[x]	4°C		[x]	/ / /
[x] Radium-226	9315	[ ]	[x]	4°C		[x]	/ / /
[x] Radium-228	9320	[ ]	[x]	4°C		[x]	/ / /
[ ]		[ ]	[ ]			[ ]	/ / /

NOTES

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SIGNATURE:

ABB ENVIRONMENTAL SERVICES, INC

FIELD DATA RECORD - SURFACE WATER & SEDIMENT

JOB NUMBER: 7555-05 DATE: 2/4/92

SITE: NAS JAX OU1 LOCATION ACTIVITY: START: 1455 END: 1520

SW SAMPLE LOCATION ID: J260292SW027 SD SAMPLE LOCATION ID:

SURFACE WATER DATA

WATER DEPTH @ SAMPLE LOCATION: 21 FT

DEPTH OF SAMPLE FROM TOP OF WATER: 0-6" FT

TEMPERATURE: 10 DEG C.

pH ..... 7.0 UNITS

SPEC. COND. 700 umhos/cm

TYPE OF SURFACE WATER: ☐ STREAM ☒ RIVER ☐ POND/LAKE ☐ SEEP ☒ OTHER Ditch

EQUIPMENT USED FOR COLLECTION: ☒ Pyrex Beaker ☐ NONE, GRAB INTO BOTTLE ☐ BOMB SAMPLER ☐ PUMP

VELOCITY MESUREMENTS OBTAINED: ☐ YES, SEE FLOW DATA BELOW ☒ NO

DECONTAMINATION FLUIDS USED: ☒ LIQUI-NOX ☒ DEIONIZED WATER ☐ TSP SOLUTION ☐ HEXANE ☐ HNO3 SOLUTION ☐ POTABLE WATER ☐ NONE ☒ Iso-Propyl Alcohol

FIELD QC. DATA: ☐ FIELD DUPLICATE COLLECTED DUP. ID

SAMPLE LOCATION SKETCH BELOW ? ☐ YES ☒ NO

SEDIMENT DATA

DEPTH OF SEDIMENT SAMPLE: IN

TYPE OF SAMPLE COLLECTED: ☒ DISCRETE ☐ COMPOSITE

SAMPLE OBSERVATIONS: ☐ ODOR ☐ COLORED

TYPE OF SEDIMENT: ☐ CLAY ☐ SAND ☐ ORGANIC ☐ GRAVEL ☐ OTHER:

EQUIPMENT USED FOR COLLECTION: ☐ GRAVITY CORER ☐ S.S. SPLIT SPOON ☐ HAND SPOON ☐ ALUMINUM PANS ☐ S.S. BUCKET ☐ DREDGE

DECONTAMINATION FLUIDS USED: ☐ LIQUI-NOX ☐ DEIONIZED WATER ☐ TSP SOLUTION ☐ HEXANE ☐ HNO3 SOLUTION ☐ POTABLE WATER ☐ STREAM WATER ☐ NONE

FIELD QC DATA: ☐ FIELD DUPLICATE COLLECTED. DUP ID

ANALYTICAL PARAMETERS

	METHOD NUMBER	MATRIX SW	MATRIX SED	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	SAMPLE BOTTLE ID NUMBERS
☒ VOC w/TIC	624	☒	☐	HCL	120 ML	☒	
☒ Semi-Volatile Organic w/TIC	625	☒	☐	4°C	2L	☒	
☒ PCB/Pest	608	☒	☐	4°C	2 Liter	☒	
☒ TAL/TCL metals		☒	☐	HNO3	1 Liter	☒	
☒ Cyanide	335.2	☒	☐	NAOH	1/2 gallon	☒	
☒ Gross Alpha	9310	☒	☐			☒	
☒ Gross Beta	9310	☒	☐	HNO3	HNO3	☒	
☒ Radium 226	9315	☒	☐			☒	
☒ Radium 228	9320	☒	☐			☒	
☐		☐	☐			☐	
☐		☐	☐			☐	
☐		☐	☐			☐	

NOTES Depth of water Taken @ low Tide

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ABB ENVIRONMENTAL SERVICES, INC

FIELD DATA RECORD - SURFACE WATER & SEDIMENT

JOB NUMBER: 7555-05 DATE: 2/4/92

PROJECT: NAS JAX OU1

LOCATION ACTIVITY START: 1455 END: 1520

SW SAMPLE LOCATION ID:

SD SAMPLE LOCATION ID: J26029250027

SURFACE WATER DATA

WATER DEPTH @ SAMPLE LOCATION: FT

DEPTH OF SAMPLE FROM TOP OF WATER: FT

TEMPERATURE: DEG C.

pH .....: UNITS

SPEC. COND.: umhos/cm

TYPE OF SURFACE WATER:
- [ ] STREAM
- [ ] RIVER
- [ ] POND/LAKE
- [ ] SEEP
- [x] OTHER: DITCH

DECONTAMINATION FLUIDS USED:
- [ ] LIQUI-NOX
- [ ] DEIONIZED WATER
- [ ] TSP SOLUTION
- [ ] HEXANE
- [ ] HNO3 SOLUTION
- [ ] POTABLE WATER
- [ ] NONE

EQUIPMENT USED FOR COLLECTION:
- [ ] NONE, GRAB INTO BOTTLE
- [ ] BOMB SAMPLER
- [ ] PUMP

VELOCITY MESUREMENTS OBTAINED:
- [ ] YES, SEE FLOW DATA BELOW
- [x] NO

FIELD QC DATA: [ ] FIELD DUPLICATE COLLECTED DUP. ID

SAMPLE LOCATION SKETCH BELOW ?
- [ ] YES
- [x] NO

SEDIMENT DATA

DEPTH OF SEDIMENT SAMPLE: 0-6" IN

TYPE OF SAMPLE COLLECTED:
- [x] DISCRETE
- [x] COMPOSITE

SAMPLE OBSERVATIONS:
- [ ] ODOR
- [x] COLORED Brown

TYPE OF SEDIMENT:
- [ ] CLAY
- [x] SAND
- [ ] ORGANIC
- [ ] GRAVEL
- [ ] OTHER: VF GRAY

EQUIPMENT USED FOR COLLECTION:
- [ ] GRAVITY CORER
- [ ] S.S. SPLIT SPOON
- [ ] HAND SPOON
- [ ] ALUMINUM PANS
- [x] S.S. BUCKET
- [ ] DREDGE

DECONTAMINATION FLUIDS USED
- [x] LIQUI-NOX
- [x] DEIONIZED WATER
- [ ] TSP SOLUTION
- [ ] HEXANE
- [ ] HNO3 SOLUTION
- [ ] POTABLE WATER
- [ ] STREAM WATER
- [ ] NONE
- [x] ISO-PROPYL Alcohol.

FIELD QC DATA: [ ] FIELD DUPLICATE COLLECTED. DUP ID

ANALYTICAL PARAMETERS

	METHOD NUMBER	MATRIX SW	MATRIX SED	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	SAMPLE BOTTLE ID NUMBERS
[x] VOC W/TIC	8240	[ ]	[x]	4°C	8oz	[x]	/ / /
[x] Semi-Volatile Organic	8270	[ ]	[x]	4°C	8oz	[x]	/ / /
[x] PCB/Pest	8080	[ ]	[x]	4°C		[x]	/ / /
[x] TAL/TCL Metals		[ ]	[x]			[x]	/ / /
[x] Cyanide	DI/Extract	[ ]	[x]	4°C		[x]	/ / /
[x] Gross Alpha	9310	[ ]	[x]	4°C	8oz	[x]	/ / /
[x] Gross Beta	9310	[ ]	[x]	4°C		[x]	/ / /
[x] Radium-226	9315	[ ]	[x]	4°C		[x]	/ / /
[x] Radium-228	9320	[ ]	[x]	4°C		[x]	/ / /
[ ]		[ ]	[ ]			[ ]	/ / /
[ ]		[ ]	[ ]			[ ]	/ / /

NOTES

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SIGNATURE:

ABB ENVIRONMENTAL SERVICES, INC

FIELD DATA RECORD - SURFACE WATER & SEDIMENT

JOB NUMBER: 7555-05 DATE: 2/4/92

PROJECT: NAS JAX OU1

LOCATION ACTIVITY: START: 1210 END: 1225

SW SAMPLE LOCATION ID: J260292SW028

SD SAMPLE LOCATION ID:

SURFACE WATER DATA

WATER DEPTH @ SAMPLE LOCATION: 2' FT

DEPTH OF SAMPLE FROM TOP OF WATER: 0-6" FT

TEMPERATURE: 17° DEG C.

PH ..... 7.3 UNITS

SPEC. COND. 700 umhos/cm

TYPE OF SURFACE WATER:
- [ ] STREAM
- [x] RIVER
- [ ] POND/LAKE
- [ ] SEEP
- [x] ~~OTHER~~ ~~Ditch~~

EQUIPMENT USED FOR COLLECTION:
- [x] Pyrex Basker
- [ ] NONE, GRAB INTO BOTTLE
- [ ] BOMB SAMPLER
- [ ] PUMP

VELOCITY MESUREMENTS OBTAINED:
- [ ] YES, SEE FLOW DATA BELOW
- [x] NO

DECONTAMINATION FLUIDS USED:
- [x] LIQUI-NOX
- [x] DEIONIZED WATER
- [ ] TSP SOLUTION
- [ ] HEXANE
- [ ] HNO3 SOLUTION
- [ ] POTABLE WATER
- [ ] NONE
- [x] Iso-Propyl Alcohol

FIELD QC DATA: [ ] FIELD DUPLICATE COLLECTED DUP. ID

SAMPLE LOCATION SKETCH BELOW ?
- [ ] YES
- [x] NO

SEDIMENT DATA

DEPTH OF SEDIMENT SAMPLE: IN

TYPE OF SAMPLE COLLECTED:
- [x] DISCRETE
- [ ] COMPOSITE

SAMPLE OBSERVATIONS:
- [ ] ODOR
- [ ] COLORED

TYPE OF SEDIMENT:
- [ ] CLAY
- [ ] SAND
- [ ] ORGANIC
- [ ] GRAVEL
- [ ] OTHER:

EQUIPMENT USED FOR COLLECTION:
- [ ] GRAVITY CORER
- [ ] S.S. SPLIT SPOON
- [ ] HAND SPOON
- [ ] ALUMINUM PANS
- [ ] S.S. BUCKET
- [ ] DREDGE

DECONTAMINATION FLUIDS USED
- [ ] LIQUI-NOX
- [ ] DEIONIZED WATER
- [ ] TSP SOLUTION
- [ ] HEXANE
- [ ] HNO3 SOLUTION
- [ ] POTABLE WATER
- [ ] STREAM WATER
- [ ] NONE

FIELD QC DATA: [ ] FIELD DUPLICATE COLLECTED. DUP ID

ANALYTICAL PARAMETERS

	METHOD NUMBER	MATRIX SW	MATRIX SED	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	SAMPLE BOTTLE ID NUMBERS
[x] VOC w/TIC	624	[x]	[ ]	HCL	120 ML	[x]	
[x] Semi-Volatile organic w/TIC	625	[x]	[ ]	4°C	2L	[x]	
[x] PCB/PEST	608	[x]	[ ]	4°C	2Liter	[x]	
[x] TAL/TCL metals		[x]	[ ]	HNO3	1Liter	[x]	
[x] Cyanide	335.2	[x]	[ ]	NAOH	1/2 gallon	[x]	
[x] Gross Alpha	9310	[x]	[ ]			[x]	
[x] Gross Beta	9310	[x]	[ ]	HNO3	HNO3	[x]	
[x] Radium 226	9315	[x]	[ ]			[x]	
[x] Radium 228	9320	[x]	[ ]			[x]	
[ ]		[ ]	[ ]			[x]	
[ ]		[ ]	[ ]			[x]	
[ ]		[ ]	[ ]			[x]	

NOTES Water Depth observed During Low Tide

MD 8/9/89

SIGNATURE:

ABB ENVIRONMENTAL SERVICES, INC

FIELD DATA RECORD - SURFACE WATER & SEDIMENT

JOB NUMBER: 7555-05 DATE: 2/4/92

LOCATION ACTIVITY START: 1210 END: 1225

PROJECT: NAS JAX OU1

SD SAMPLE LOCATION ID: J260292SD028

SW SAMPLE LOCATION ID:

SURFACE WATER DATA

WATER DEPTH @ SAMPLE LOCATION: FT

DEPTH OF SAMPLE FROM TOP OF WATER: FT

TEMPERATURE: DEG C.

pH .....: UNITS

SPEC. COND.: umhos/cm

TYPE OF SURFACE WATER:
- [ ] STREAM
- [ ] RIVER
- [ ] POND/LAKE
- [ ] SEEP
- [x] OTHER Ditch

EQUIPMENT USED FOR COLLECTION:
- [ ] NONE, GRAB INTO BOTTLE
- [ ] BOMB SAMPLER
- [ ] PUMP

VELOCITY MEASUREMENTS OBTAINED:
- [ ] YES, SEE FLOW DATA BELOW
- [x] NO

DECONTAMINATION FLUIDS USED:
- [ ] LIQUI-NOX
- [ ] DEIONIZED WATER
- [ ] TSP SOLUTION
- [ ] HEXANE
- [ ] HNO3 SOLUTION
- [ ] POTABLE WATER
- [ ] NONE

FIELD QC DATA: [ ] FIELD DUPLICATE COLLECTED DUP. ID

SAMPLE LOCATION SKETCH BELOW ?
- [ ] YES
- [x] NO

SEDIMENT DATA

DEPTH OF SEDIMENT SAMPLE: 0-6 11 IN

TYPE OF SAMPLE COLLECTED:
- [x] DISCRETE
- [x] COMPOSITE

TYPE OF SEDIMENT:
- [ ] CLAY
- [x] SAND
- [ ] ORGANIC
- [ ] GRAVEL
- [ ] OTHER: VF GRAIN

EQUIPMENT USED FOR COLLECTION:
- [ ] GRAVITY CORER
- [ ] S.S. SPLIT SPOON
- [ ] HAND SPOON
- [ ] ALUMINUM PANS
- [x] S.S. BUCKET
- [ ] DREDGE

DECONTAMINATION FLUIDS USED
- [x] LIQUI-NOX
- [x] DEIONIZED WATER
- [ ] TSP SOLUTION
- [ ] HEXANE
- [ ] HNO3 SOLUTION
- [ ] POTABLE WATER
- [ ] STREAM WATER
- [ ] NONE
- [x] ISO-Propyl Alcohol

SAMPLE OBSERVATIONS:
- [ ] ODOR
- [x] COLORED Brown

FIELD QC DATA: [ ] FIELD DUPLICATE COLLECTED. DUP ID

ANALYTICAL PARAMETERS

	METHOD NUMBER	MATRIX SW	MATRIX SED	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	SAMPLE BOTTLE ID NUMBERS
[x] VOC w/TIC	8240	[ ]	[x]	4°C	8 oz	[x]	/ / /
[x] Semi-Volatile Organic	8270	[ ]	[x]	4°C	8 oz	[x]	/ / /
[x] PCB/Pest	8080	[ ]	[x]	4°C		[x]	/ / /
[x] TAL/TCL Metals		[ ]	[x]			[x]	/ / /
[x] Cyanide	DI/Extract 9010	[ ]	[x]	4°C	8 oz	[x]	/ / /
[x] Gross Alpha	9310	[ ]	[x]	4°C		[x]	/ / /
[x] Gross Beta	9310	[ ]	[x]	4°C		[x]	/ / /
[x] Radium-226	9315	[ ]	[x]	4°C		[x]	/ / /
[x] Radium-228	9320	[ ]	[x]	4°C		[x]	/ / /
[ ]		[ ]	[ ]			[ ]	/ / /

NOTES

SIGNATURE:

MD 8/9/89

ABB ENVIRONMENTAL SERVICES, INC

FIELD DATA RECORD - SURFACE WATER & SEDIMENT

JOB NUMBER: 7555-05 DATE: 3/4/92

PROJECT: NAS JAX OU1

LOCATION ACTIVITY START: 1230 END: 1252

SW SAMPLE LOCATION ID: J2602925W029

SD SAMPLE LOCATION ID:

SURFACE WATER DATA

WATER DEPTH @ SAMPLE LOCATION: 2' FT

DEPTH OF SAMPLE FROM TOP OF WATER: 0-6" FT

TEMPERATURE: 17 DEG C.

pH ..... 7.4 UNITS

SPEC. COND. 700 umhos/cm

TYPE OF SURFACE WATER: ☐ STREAM ☒ RIVER ☐ POND/LAKE ☐ SEEP ☒ OTHER Pile ~~Ditch~~

EQUIPMENT USED FOR COLLECTION: ☒ Pyrex Beaker ☐ NONE, GRAB INTO BOTTLE ☐ BOMB SAMPLER ☐ PUMP

VELOCITY MEASUREMENTS OBTAINED: ☐ YES, SEE FLOW DATA BELOW ☒ NO

DECONTAMINATION FLUIDS USED: ☒ LIQUI-NOX ☒ DEIONIZED WATER ☐ TSP SOLUTION ☐ HEXANE ☐ HNO3 SOLUTION ☐ POTABLE WATER ☐ NONE ☒ Iso-Propyl Alcohol

FIELD QC DATA: ☐ FIELD DUPLICATE COLLECTED DUP. ID

SAMPLE LOCATION SKETCH BELOW ? ☐ YES ☒ NO

SEDIMENT DATA

DEPTH OF SEDIMENT SAMPLE: IN

TYPE OF SAMPLE COLLECTED: ☒ DISCRETE ☐ COMPOSITE

SAMPLE OBSERVATIONS: ☐ ODOR ☐ COLORED

TYPE OF SEDIMENT: ☐ CLAY ☐ SAND ☐ ORGANIC ☐ GRAVEL ☐ OTHER:

EQUIPMENT USED FOR COLLECTION: ☐ GRAVITY CORER ☐ S.S. SPLIT SPOON ☐ HAND SPOON ☐ ALUMINUM PANS ☐ S.S. BUCKET ☐ DREDGE

DECONTAMINATION FLUIDS USED: ☐ LIQUI-NOX ☐ DEIONIZED WATER ☐ TSP SOLUTION ☐ HEXANE ☐ HNO3 SOLUTION ☐ POTABLE WATER ☐ STREAM WATER ☐ NONE

FIELD QC DATA: ☐ FIELD DUPLICATE COLLECTED. DUP ID

ANALYTICAL PARAMETERS

	METHOD NUMBER	MATRIX SW	MATRIX SED	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	SAMPLE BOTTLE ID NUMBERS
☒ VOC w/TIC	624	☒	☐	HCL	180 ML	☒	
☒ Semi-Volatile Organic w/TIC	625	☒	☐	4°C	2L	☒	
☒ PCB/Pest	608	☒	☐	4°C	2 Liter	☒	
☒ TAL/TCL metals		☒	☐	HNO3	1 Liter	☒	
☒ Cyanide	335.2	☒	☐	NAOH	1/2 gallon	☒	
☒ Gross Alpha	9310	☒	☐	HNO3	HNO3	☒	
☒ Gross Beta	9310	☒	☐			☒	
☒ Radium 226	9315	☒	☐			☒	
☒ Radium 228	9320	☒	☐			☒	
☐		☐	☐			☐	
☐		☐	☐			☐	

NOTES Water Depth of 2' observed Durring Low Tide

MD 8/9/89

SIGNATURE:

ABB ENVIRONMENTAL SERVICES, INC

FIELD DATA RECORD - SURFACE WATER & SEDIMENT

JOB NUMBER: 7555-05 DATE: 2/4/92

LOCATION ACTIVITY START: 1230 END: 1252

PROJECT: NAS JAX OU1

SD SAMPLE LOCATION ID: J2602925D029

SW SAMPLE LOCATION ID:

SURFACE WATER DATA

WATER DEPTH @ SAMPLE LOCATION: FT

DEPTH OF SAMPLE FROM TOP OF WATER: FT

TEMPERATURE: DEG C.

PH .....: UNITS

SPEC. COND.: umhos/cm

TYPE OF SURFACE WATER:
- [ ] STREAM
- [ ] RIVER
- [ ] POND/LAKE
- [ ] SEEP
- [x] OTHER Ditch

EQUIPMENT USED FOR COLLECTION:
- [ ] NONE, GRAB INTO BOTTLE
- [ ] BOMB SAMPLER
- [ ] PUMP

VELOCITY MESUREMENTS OBTAINED:
- [ ] YES, SEE FLOW DATA BELOW
- [x] NO

DECONTAMINATION FLUIDS USED:
- [ ] LIQUI-NOX
- [ ] DEIONIZED WATER
- [ ] TSP SOLUTION
- [ ] HEXANE
- [ ] HNO3 SOLUTION
- [ ] POTABLE WATER
- [ ] NONE

FIELD QC DATA: [ ] FIELD DUPLICATE COLLECTED DUP. ID

SAMPLE LOCATION SKETCH BELOW ?
- [ ] YES
- [x] NO

SEDIMENT DATA

DEPTH OF SEDIMENT SAMPLE: 0-6" IN

TYPE OF SAMPLE COLLECTED:
- [x] DISCRETE
- [x] COMPOSITE

SAMPLE OBSERVATIONS:
- [ ] ODOR
- [x] COLORED Brown
- [ ]

TYPE OF SEDIMENT:
- [ ] CLAY
- [x] SAND
- [ ] ORGANIC
- [ ] GRAVEL
- [ ] OTHER: VF GRAIN

EQUIPMENT USED FOR COLLECTION:
- [ ] GRAVITY CORER
- [ ] S.S. SPLIT SPOON
- [ ] HAND SPOON
- [ ] ALUMINUM PANS
- [x] S.S. BUCKET
- [ ] DREDGE

DECONTAMINATION FLUIDS USED
- [x] LIQUI-NOX
- [x] DEIONIZED WATER
- [ ] TSP SOLUTION
- [ ] HEXANE
- [ ] HNO3 SOLUTION
- [ ] POTABLE WATER
- [ ] STREAM WATER
- [ ] NONE
- [x] ISO-PROPYL Alcohol

FIELD QC DATA: [ ] FIELD DUPLICATE COLLECTED. DUP ID

ANALYTICAL PARAMETERS

	METHOD NUMBER	MATRIX SW	MATRIX SED	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	SAMPLE BOTTLE ID NUMBERS
[x] VOC W/TIC	8240	[ ]	[x]	4°C	8oz	[x]	/ / /
[x] Semi-Volatile Organic	8270	[ ]	[x]	4°C	8oz	[x]	/ / /
[x] PCB/Pest	8080	[ ]	[x]	4°C		[x]	/ / /
[x] TAL/TCL Metals		[ ]	[x]			[x]	/ / /
[x] Cyanide		[ ]	[x]	4°C		[x]	/ / /
[x] Gross Alpha	DI/Extract 9310	[ ]	[x]	4°C	8oz	[x]	/ / /
[x] Gross Beta	9310	[ ]	[x]	4°C		[x]	/ / /
[x] Radium-226	9315	[ ]	[x]	4°C		[x]	/ / /
[x] Radium-228	9320	[ ]	[x]	4°C		[x]	/ / /
[ ]		[ ]	[ ]			[ ]	/ / /

NOTES

SIGNATURE:

MD 8/9/89

ABB ENVIRONMENTAL SERVICES, INC

FIELD DATA RECORD - SURFACE WATER & SEDIMENT

JOB NUMBER: 7555-05 DATE: 2/4/92

PROJECT: NAS JAX OU1

LOCATION ACTIVITY START: 1355 END: 1451

SW SAMPLE LOCATION ID: PVC ~~J2~~ J260292SW030

SD SAMPLE LOCATION ID:

SURFACE WATER DATA

WATER DEPTH @ SAMPLE LOCATION: 2' FT

DEPTH OF SAMPLE FROM TOP OF WATER: 0-6" FT

TEMPERATURE: 17 DEG C.

PH ..... 7.6 UNITS

SPEC. COND. 700 umos/cm

TYPE OF SURFACE WATER:
- [ ] STREAM
- [x] RIVER
- [ ] POND/LAKE
- [ ] SEEP
- [x] OTHER PVC ~~DITCH~~

EQUIPMENT USED FOR COLLECTION:
- [x] Pyrex Beaker
- [ ] NONE, GRAB INTO BOTTLE
- [ ] BOMB SAMPLER
- [ ] PUMP

VELOCITY MEASUREMENTS OBTAINED:
- [ ] YES, SEE FLOW DATA BELOW
- [x] NO

DECONTAMINATION FLUIDS USED:
- [x] LIQUI-NOX
- [x] DEIONIZED WATER
- [ ] TSP SOLUTION
- [ ] HEXANE
- [ ] HNO3 SOLUTION
- [ ] POTABLE WATER
- [ ] NONE
- [x] Iso-Propyl Alcohol

FIELD QC DATA: [ ] FIELD DUPLICATE COLLECTED DUP. ID

SAMPLE LOCATION SKETCH BELOW ?
- [ ] YES
- [x] NO

SEDIMENT DATA

DEPTH OF SEDIMENT SAMPLE: IN

TYPE OF SAMPLE COLLECTED:
- [x] DISCRETE
- [ ] COMPOSITE

SAMPLE OBSERVATIONS:
- [ ] ODOR
- [ ] COLORED
- [ ]

TYPE OF SEDIMENT:
- [ ] CLAY
- [ ] SAND
- [ ] ORGANIC
- [ ] GRAVEL
- [ ] OTHER:

EQUIPMENT USED FOR COLLECTION:
- [ ] GRAVITY CORER
- [ ] S.S. SPLIT SPOON
- [ ] HAND SPOON
- [ ] ALUMINUM PANS
- [ ] S.S. BUCKET
- [ ] DREDGE
- [ ]

DECONTAMINATION FLUIDS USED
- [ ] LIQUI-NOX
- [ ] DEIONIZED WATER
- [ ] TSP SOLUTION
- [ ] HEXANE
- [ ] HNO3 SOLUTION
- [ ] POTABLE WATER
- [ ] STREAM WATER
- [ ] NONE

FIELD QC DATA: [ ] FIELD DUPLICATE COLLECTED. DUP ID

ANALYTICAL PARAMETERS

	METHOD NUMBER	MATRIX SW	MATRIX SED	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	SAMPLE BOTTLE ID NUMBERS
[x] VOC w/TIC	624	[x]	[ ]	HCL	120 mL	[x]	/ / /
[x] Semi-Volatile organic w/TIC	625	[x]	[ ]	4°C	2L	[x]	/ / /
[x] PCB/Pest	608	[x]	[ ]	4°C	2 Liter	[x]	/ / /
[x] TAL/TCL metals		[x]	[ ]	HNO3	1 Liter	[x]	/ / /
[x] Cyanide	335.2	[x]	[ ]	NAOH	1/2 gallon	[x]	/ / /
[x] Gross Alpha	9310	[x]	[ ]	HNO3	HNO3	[x]	/ / /
[x] Gross Beta	9310	[x]	[ ]			[x]	/ / /
[x] Radium 226	9315	[x]	[ ]			[x]	/ / /
[x] Radium 228	9320	[x]	[ ]			[x]	/ / /
[ ]		[ ]	[ ]			[ ]	/ / /
[ ]		[ ]	[ ]			[ ]	/ / /
[ ]		[ ]	[ ]			[ ]	/ / /

NOTES Water Depth of 2' Taken @ Low Tide

MD 8/9/89

SIGNATURE:

ABB ENVIRONMENTAL SERVICES, INC

FIELD DATA RECORD - SURFACE WATER & SEDIMENT

JOB NUMBER: 7555-05 DATE: 2/4/92

PROJECT: NAS JAX OU1

LOCATION ACTIVITY START: 1365 END: 1451

SW SAMPLE LOCATION ID:

SD SAMPLE LOCATION ID: J2602925D630

SURFACE WATER DATA

WATER DEPTH @ SAMPLE LOCATION: FT

DEPTH OF SAMPLE FROM TOP OF WATER: FT

TEMPERATURE: DEG C.

pH .....: UNITS

SPEC. COND.: umhos/cm

TYPE OF SURFACE WATER:
- [ ] STREAM
- [x] RIVER
- [ ] POND/LAKE
- [ ] SEEP
- [x] OTHER: PVC ~~DITCH~~

EQUIPMENT USED FOR COLLECTION:
- [ ] NONE, GRAB INTO BOTTLE
- [ ] BOMB SAMPLER
- [ ] PUMP

VELOCITY MEASUREMENTS OBTAINED:
- [ ] YES, SEE FLOW DATA BELOW
- [x] NO

DECONTAMINATION FLUIDS USED:
- [ ] LIQUI-NOX
- [ ] DEIONIZED WATER
- [ ] TSP SOLUTION
- [ ] HEXANE
- [ ] HNO3 SOLUTION
- [ ] POTABLE WATER
- [ ] NONE

FIELD QC DATA: [ ] FIELD DUPLICATE COLLECTED DUP. ID

SAMPLE LOCATION SKETCH BELOW ?
- [ ] YES
- [x] NO

SEDIMENT DATA

DEPTH OF SEDIMENT SAMPLE: 0-6" IN

TYPE OF SAMPLE COLLECTED:
- [x] DISCRETE
- [x] COMPOSITE

SAMPLE OBSERVATIONS:
- [ ] ODOR
- [x] COLORED BROWN
- [ ]

TYPE OF SEDIMENT:
- [ ] CLAY
- [x] SAND
- [ ] ORGANIC
- [ ] GRAVEL
- [ ] OTHER: VF-GRAIN

EQUIPMENT USED FOR COLLECTION:
- [ ] GRAVITY CORER
- [ ] S.S. SPLIT SPOON
- [ ] HAND SPOON
- [ ] ALUMINUM PANS
- [x] S.S. BUCKET
- [ ] DREDGE
- [ ]

DECONTAMINATION FLUIDS USED
- [x] LIQUI-NOX
- [x] DEIONIZED WATER
- [ ] TSP SOLUTION
- [ ] HEXANE
- [ ] HNO3 SOLUTION
- [ ] POTABLE WATER
- [ ] STREAM WATER
- [ ] NONE
- [x] ISO-PROPYL ALCOHOL

FIELD QC DATA: [ ] FIELD DUPLICATE COLLECTED. DUP ID

ANALYTICAL PARAMETERS

	METHOD NUMBER	MATRIX SW	MATRIX SED	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	SAMPLE BOTTLE ID NUMBERS
[x] VOC W/TIC	8240	[ ]	[x]	4°C	8oz	[x]	/ / /
[x] Semi-Volatile Organic	8270	[ ]	[x]	4°C	8oz	[x]	/ / /
[x] PCB/Pest	8080	[ ]	[x]	4°C		[x]	/ / /
[x] TAL/TCL Metals		[ ]	[x]			[x]	/ / /
[x] Cyanide	DI/Extract	[ ]	[x]	4°C		[x]	/ / /
[x] Gross Alpha	9310	[ ]	[x]	4°C	8oz	[x]	/ / /
[x] Gross Beta	9310	[ ]	[x]	4°C		[x]	/ / /
[x] Radium-226	9315	[ ]	[x]	4°C		[x]	/ / /
[x] Radium-228	9320	[ ]	[x]	4°C		[x]	/ / /
[ ]		[ ]	[ ]			[ ]	/ / /

NOTES

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SIGNATURE:

ABE ENVIRONMENTAL SERVICES, INC

FIELD DATA RECORD - SURFACE WATER & SEDIMENT

JOB NUMBER: 7555-05 DATE: 2/4/92

PROJECT: NAS JAX OU1

LOCATION ACTIVITY START: 1153 END: 1208

SW SAMPLE LOCATION ID: J260292SW031

SD SAMPLE LOCATION ID:

SURFACE WATER DATA

WATER DEPTH @ SAMPLE LOCATION: 3' FT

DEPTH OF SAMPLE FROM TOP OF WATER: 0-6" FT

TEMPERATURE: 18° DEG C.

pH ..... UNITS

SPEC. COND. 700 umhos/cm

TYPE OF SURFACE WATER:
- [ ] STREAM
- [x] RIVER
- [ ] POND/LAKE
- [ ] SEEP
- [ ] OTHER PVC Ditch

EQUIPMENT USED FOR COLLECTION:
- [x] Pyrex Beaker
- [ ] NONE, GRAB INTO BOTTLE
- [ ] BOMB SAMPLER
- [ ] PUMP

VELOCITY MEASUREMENTS OBTAINED:
- [ ] YES, SEE FLOW DATA BELOW
- [x] NO

DECONTAMINATION FLUIDS USED:
- [x] LIQUI-NOX
- [x] DEIONIZED WATER
- [ ] TSP SOLUTION
- [ ] HEXANE
- [ ] HNO3 SOLUTION
- [ ] POTABLE WATER
- [ ] NONE
- [x] Iso-Propyl Alcohol

FIELD QC DATA:
- [ ] FIELD DUPLICATE COLLECTED
- DUP. ID

SAMPLE LOCATION SKETCH BELOW ?
- [ ] YES
- [x] NO

SEDIMENT DATA

DEPTH OF SEDIMENT SAMPLE: IN

TYPE OF SAMPLE COLLECTED:
- [x] DISCRETE
- [ ] COMPOSITE

SAMPLE OBSERVATIONS:
- [ ] ODOR
- [ ] COLORED

TYPE OF SEDIMENT:
- [ ] CLAY
- [ ] SAND
- [ ] ORGANIC
- [ ] GRAVEL
- [ ] OTHER:

EQUIPMENT USED FOR COLLECTION:
- [ ] GRAVITY CORER
- [ ] S.S. SPLIT SPOON
- [ ] HAND SPOON
- [ ] ALUMINUM PANS
- [ ] S.S. BUCKET
- [ ] DREDGE

DECONTAMINATION FLUIDS USED
- [ ] LIQUI-NOX
- [ ] DEIONIZED WATER
- [ ] TSP SOLUTION
- [ ] HEXANE
- [ ] HNO3 SOLUTION
- [ ] POTABLE WATER
- [ ] STREAM WATER
- [ ] NONE

FIELD QC DATA: [ ] FIELD DUPLICATE COLLECTED. DUP ID

ANALYTICAL PARAMETERS

	METHOD NUMBER	MATRIX SW	MATRIX SED	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	SAMPLE BOTTLE ID NUMBERS
[x] VOC w/TIC	624	[x]	[ ]	HCL	120 ML	[x]	/ / /
[x] Semi-Volatile organic w/TIC	625	[x]	[ ]	4°C	2L	[x]	/ / /
[x] PCB/PEST	608	[x]	[ ]	4°C	2 Liter	[x]	/ / /
[x] TAL/TCL metals		[x]	[ ]	HNO3	1 Liter	[x]	/ / /
[x] Cyanide	335.2	[x]	[ ]	NAOH	1/2 gallon	[x]	/ / /
[x] Gross Alpha	9310	[x]	[ ]	HNO3	HNO3	[x]	/ / /
[x] Gross Beta	9310	[x]	[ ]			[x]	/ / /
[x] Radium 226	9315	[x]	[ ]			[x]	/ / /
[x] Radium 228	9320	[x]	[ ]			[x]	/ / /
[ ]		[ ]	[ ]			[x]	/ / /

NOTES Water Depth @ Sample Location Taken @ Low Tide.

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SIGNATURE:

ABB ENVIRONMENTAL SERVICES, INC

FIELD DATA RECORD - SURFACE WATER & SEDIMENT

JOB NUMBER: 7555-05 DATE: 2/4/92

PROJECT: NAS JAX OU1

LOCATION ACTIVITY: START: 1153 END: 1208

SW SAMPLE LOCATION ID:

SD SAMPLE LOCATION ID: J2602925D031

SURFACE WATER DATA

WATER DEPTH @ SAMPLE LOCATION: FT

DEPTH OF SAMPLE FROM TOP OF WATER: FT

TEMPERATURE: DEG C.

pH .....: UNITS

SPEC. COND.: umhos/cm

TYPE OF SURFACE WATER:
- [ ] STREAM
- [ ] RIVER
- [ ] POND/LAKE
- [ ] SEEP
- [x] OTHER: DITCH

EQUIPMENT USED FOR COLLECTION:
- [ ] NONE, GRAB INTO BOTTLE
- [ ] BOMB SAMPLER
- [ ] PUMP

VELOCITY MEASUREMENTS OBTAINED:
- [ ] YES, SEE FLOW DATA BELOW
- [x] NO

DECONTAMINATION FLUIDS USED:
- [ ] LIQUI-NOX
- [ ] DEIONIZED WATER
- [ ] TSP SOLUTION
- [ ] HEXANE
- [ ] HNO3 SOLUTION
- [ ] POTABLE WATER
- [ ] NONE

FIELD QC DATA: [ ] FIELD DUPLICATE COLLECTED DUP. ID

SAMPLE LOCATION SKETCH BELOW ?
- [ ] YES
- [x] NO

SEDIMENT DATA

DEPTH OF SEDIMENT SAMPLE: 0-6(1) IN

TYPE OF SAMPLE COLLECTED:
- [x] DISCRETE
- [x] COMPOSITE

SAMPLE OBSERVATIONS:
- [ ] ODOR
- [x] COLORED BROWN - TAN

TYPE OF SEDIMENT:
- [ ] CLAY
- [x] SAND
- [ ] ORGANIC
- [ ] GRAVEL
- [ ] OTHER: VF

EQUIPMENT USED FOR COLLECTION:
- [ ] GRAVITY CORER
- [ ] S.S. SPLIT SPOON
- [ ] HAND SPOON
- [ ] ALUMINUM PANS
- [x] S.S. BUCKET
- [ ] DREDGE

DECONTAMINATION FLUIDS USED
- [x] LIQUI-NOX
- [x] DEIONIZED WATER
- [ ] TSP SOLUTION
- [ ] HEXANE
- [ ] HNO3 SOLUTION
- [ ] POTABLE WATER
- [ ] STREAM WATER
- [ ] NONE
- [x] ISO-PROPYL ALCOHOL

FIELD QC DATA: [ ] FIELD DUPLICATE COLLECTED. DUP ID

ANALYTICAL PARAMETERS

	METHOD NUMBER	MATRIX SW	MATRIX SED	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	SAMPLE BOTTLE ID NUMBERS
[x] VOC w/TIC	8240	[ ]	[x]	4°C	8oz	[x]	/ / /
[x] Semi-Volatile Organic	8270	[ ]	[x]	4°C	8oz	[x]	/ / /
[x] PCB/Pest	8080	[ ]	[x]	4°C		[x]	/ / /
[x] TAL/TCL Metals		[ ]	[x]			[x]	/ / /
[x] Cyanide	DI/Extract	[ ]	[x]	4°C		[x]	/ / /
[x] Gross Alpha	9310	[ ]	[x]	4°C		[x]	/ / /
[x] Gross Beta	9310	[ ]	[x]	4°C	8oz	[x]	/ / /
[x] Radium-226	9315	[ ]	[x]	4°C		[x]	/ / /
[x] Radium-228	9320	[ ]	[x]	4°C		[x]	/ / /
[ ]		[ ]	[ ]			[ ]	/ / /

NOTES

MD 8/9/89

SIGNATURE:

ABB ENVIRONMENTAL SERVICES, INC

FIELD DATA RECORD - SURFACE WATER & SEDIMENT

JOB NUMBER: 7555-05 DATE: 2/4/92

SITE: NAS JAX OU1

LOCATION ACTIVITY: START: END:

SW SAMPLE LOCATION ID: J260292SW32

SD SAMPLE LOCATION ID:

SURFACE WATER DATA

WATER DEPTH @ SAMPLE LOCATION: 2' FT

DEPTH OF SAMPLE FROM TOP OF WATER: 0-6" FT

TEMPERATURE: 18 DEG C.

pH ..... 7.5 UNITS

SPEC. COND. 700 umhos/cm

TYPE OF SURFACE WATER: ☐ STREAM ☒ RIVER ☐ POND/LAKE ☐ SEEP ☐ OTHER Ditch

EQUIPMENT USED FOR COLLECTION: ☒ Pyrex Beaker ☐ NONE, GRAB INTO BOTTLE ☐ BOMB SAMPLER ☐ PUMP

VELOCITY MEASUREMENTS OBTAINED: ☐ YES, SEE FLOW DATA BELOW ☒ NO

DECONTAMINATION FLUIDS USED: ☒ LIQUI-NOX ☒ DEIONIZED WATER ☐ TSP SOLUTION ☐ HEXANE ☐ HNO3 SOLUTION ☐ POTABLE WATER ☐ NONE ☒ Iso-Propyl Alcohol

FIELD QC DATA: ☐ FIELD DUPLICATE COLLECTED DUP. ID

SAMPLE LOCATION SKETCH BELOW ? ☐ YES ☒ NO

SEDIMENT DATA

DEPTH OF SEDIMENT SAMPLE: 0-6" IN

TYPE OF SAMPLE COLLECTED: ☒ DISCRETE ☐ COMPOSITE

SAMPLE OBSERVATIONS: ☐ ODOR ☐ COLORED

TYPE OF SEDIMENT: ☐ CLAY ☐ SAND ☐ ORGANIC ☐ GRAVEL ☐ OTHER:

EQUIPMENT USED FOR COLLECTION: ☐ GRAVITY CORER ☐ S.S. SPLIT SPOON ☐ HAND SPOON ☐ ALUMINUM PANS ☐ S.S. BUCKET ☐ DREDGE

DECONTAMINATION FLUIDS USED: ☐ LIQUI-NOX ☐ DEIONIZED WATER ☐ TSP SOLUTION ☐ HEXANE ☐ HNO3 SOLUTION ☐ POTABLE WATER ☐ STREAM WATER ☐ NONE

FIELD QC DATA: ☐ FIELD DUPLICATE COLLECTED. DUP ID

ANALYTICAL PARAMETERS

	METHOD NUMBER	MATRIX SW	MATRIX SED	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	SAMPLE BOTTLE ID NUMBERS
☒ VOC w/TIC	624	☒	☐	HCL	120 mL	☒	
☒ Semi-Volatile organic w/TIC	625	☒	☐	4°C	2L	☒	
☒ PCB/Pest	608	☒	☐	4°C	2Liter	☒	
☒ TAL/TCL metals		☒	☐	HNO3	1Liter	☒	
☒ Cyanide	335.2	☒	☐	NAOH	1/2gallon	☒	
☒ Gross Alpha	9310	☒	☐	HNO3	HNO3	☒	
☒ Gross Beta	9310	☒	☐			☒	
☒ Radium 226	9315	☒	☐			☒	
☒ Radium 228	9320	☒	☐			☒	
☐		☐	☐			☐	
☐		☐	☐			☐	

NOTES Water Depth Taken @ Low Tide

MD 8/9/89

SIGNATURE:

ABB ENVIRONMENTAL SERVICES, INC

FIELD DATA RECORD - SURFACE WATER & SEDIMENT

JOB NUMBER: 7555-05 DATE: 2/4/92

PROJECT: NAS JAX OU1

LOCATION ACTIVITY: START: END:

SW SAMPLE LOCATION ID:

SD SAMPLE LOCATION ID: J2602925D032

SURFACE WATER DATA

WATER DEPTH @ SAMPLE LOCATION: FT

DEPTH OF SAMPLE FROM TOP OF WATER: FT

TEMPERATURE: 18 DEG C.

PH .....: 7.5 UNITS

SPEC. COND.: 700 umhos/cm

TYPE OF SURFACE WATER:
- [ ] STREAM
- [x] RIVER
- [ ] POND/LAKE
- [ ] SEEP
- [x] ~~OTHER~~ ~~DITCH~~

EQUIPMENT USED FOR COLLECTION:
- [ ] NONE, GRAB INTO BOTTLE
- [ ] EKMS SAMPLER
- [ ] PUMP

VELOCITY MEASUREMENTS OBTAINED:
- [ ] YES, SEE FLOW DATA BELOW
- [x] NO

DECONTAMINATION FLUIDS USED:
- [ ] LIQUI-NOX
- [ ] DEIONIZED WATER
- [ ] TSP SOLUTION
- [ ] HEXANE
- [ ] HNO3 SOLUTION
- [ ] POTABLE WATER
- [ ] NONE

FIELD QC DATA: [ ] FIELD DUPLICATE COLLECTED DUP. ID

SAMPLE LOCATION SKETCH BELOW ?
- [ ] YES
- [x] NO

SEDIMENT DATA

DEPTH OF SEDIMENT SAMPLE: IN

TYPE OF SAMPLE COLLECTED:
- [x] DISCRETE
- [x] COMPOSITE

SAMPLE OBSERVATIONS:
- [ ] ODOR
- [ ] COLORED

TYPE OF SEDIMENT:
- [ ] CLAY
- [ ] SAND
- [ ] ORGANIC
- [ ] GRAVEL
- [ ] OTHER:

EQUIPMENT USED FOR COLLECTION:
- [ ] GRAVITY CORER
- [ ] S.S. SPLIT SPOON
- [ ] HAND SPOON
- [ ] ALUMINUM PANS
- [x] S.S. BUCKET
- [ ] DREDGE

DECONTAMINATION FLUIDS USED
- [x] LIQUI-NOX
- [x] DEIONIZED WATER
- [ ] TSP SOLUTION
- [ ] HEXANE
- [ ] HNO3 SOLUTION
- [ ] POTABLE WATER
- [ ] STREAM WATER
- [ ] NONE
- [x] ISO-PROPYL ALCOHOL

FIELD QC DATA: [ ] FIELD DUPLICATE COLLECTED. DUP ID

ANALYTICAL PARAMETERS

	METHOD NUMBER	MATRIX SW	MATRIX SED	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	SAMPLE BOTTLE ID NUMBERS
[x] VOC W/TIC	8240	[ ]	[x]	4°C	8 oz	[x]	/ / /
[x] Semi-Volatile Organic	8270	[ ]	[x]	4°C	8 oz	[x]	/ / /
[x] PCB/Pest	8080	[ ]	[x]	4°C		[x]	/ / /
[x] TAL/TCL Metals		[ ]	[x]			[x]	/ / /
[x] Cyanide	DIGESTATE	[ ]	[x]	4°C		[x]	/ / /
[x] Gross Alpha	9310	[ ]	[x]	4°C	8 oz	[x]	/ / /
[x] Gross Beta	9310	[ ]	[x]	4°C		[x]	/ / /
[x] Radium-226	9315	[ ]	[x]	4°C		[x]	/ / /
[x] Radium-228	9320	[ ]	[x]	4°C		[x]	/ / /
[ ]		[ ]	[ ]			[ ]	/ / /

NOTES

HD 8/9/89

SIGNATURE:

ABB ENVIRONMENTAL SERVICES, INC

FIELD DATA RECORD - SURFACE WATER & SEDIMENT

JOB NUMBER: 7555-05 DATE: 2/4/92

PROJECT: NAS JAX OU1

LOCATION ACTIVITY: START: END:

SW SAMPLE LOCATION ID: J260292SW033

SD SAMPLE LOCATION ID:

SURFACE WATER DATA

WATER DEPTH @ SAMPLE LOCATION: 2' FT

DEPTH OF SAMPLE FROM TOP OF WATER: 0-6" FT

TEMPERATURE: 17 DEG C.

pH ..... 7.5 UNITS

SPEC. COND. 1,100 umhos/cm

TYPE OF SURFACE WATER: ☐ STREAM ☒ RIVER ☐ POND/LAKE ☐ SEEP ☒ OTHER Ditch

EQUIPMENT USED FOR COLLECTION: ☒ Pyrex Beaker ☐ NONE, GRAB INTO BOTTLE ☐ BOMB SAMPLER ☐ PUMP

VELOCITY MEASUREMENTS OBTAINED: ☐ YES, SEE FLOW DATA BELOW ☒ NO

DECONTAMINATION FLUIDS USED: ☒ LIQUI-NOX ☒ DEIONIZED WATER ☐ TSP SOLUTION ☐ HEXANE ☐ HNO3 SOLUTION ☐ POTABLE WATER ☐ NONE ☒ Iso-Propyl Alcohol

FIELD QC DATA: ☐ FIELD DUPLICATE COLLECTED DUP. ID

SAMPLE LOCATION SKETCH BELOW ? ☐ YES ☒ NO

SEDIMENT DATA

DEPTH OF SEDIMENT SAMPLE: IN

TYPE OF SAMPLE COLLECTED: ☒ DISCRETE ☐ COMPOSITE

SAMPLE OBSERVATIONS: ☐ ODOR ☐ COLORED

TYPE OF SEDIMENT: ☐ CLAY ☐ SAND ☐ ORGANIC ☐ GRAVEL ☐ OTHER:

EQUIPMENT USED FOR COLLECTION: ☐ GRAVITY CORER ☐ S.S. SPLIT SPOON ☐ HAND SPOON ☐ ALUMINUM PANS ☐ S.S. BUCKET ☐ DREDGE

DECONTAMINATION FLUIDS USED: ☐ LIQUI-NOX ☐ DEIONIZED WATER ☐ TSP SOLUTION ☐ HEXANE ☐ HNO3 SOLUTION ☐ POTABLE WATER ☐ STREAM WATER ☐ NONE

FIELD QC DATA: ☐ FIELD DUPLICATE COLLECTED. DUP ID

ANALYTICAL PARAMETERS

	METHOD NUMBER	MATRIX SW	MATRIX SED	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	SAMPLE BOTTLE ID NUMBERS
☒ VOC w/TIC	624	☒	☐	HCL	120 ML	☒	
☒ Semi-Volatile Organic w/TIC	625	☒	☐	4°C	2L	☒	
☒ PCB/Pest	608	☒	☐	4°C	2 Liter	☒	
☒ TAL/TCL metals		☒	☐	HNO3	1 Liter	☒	
☒ Cyanide	335.2	☒	☐	NAOH	1/2 gallon	☒	
☒ Gross Alpha	9310	☒	☐	HNO3	HNO3	☒	
☒ Gross Beta	9310	☒	☐			☒	
☒ Radium 226	9315	☒	☐			☒	
☒ Radium 228	9320	☒	☐			☒	
☐		☐	☐			☐	
☐		☐	☐			☐	
☐		☐	☐			☐	
☐		☐	☐			☐	
☐		☐	☐			☐	
☐		☐	☐			☐	
☐		☐	☐			☐	

NOTES Water Depth of 2' Observed During Low Tide

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SIGNATURE:

ABB ENVIRONMENTAL SERVICES, INC

FIELD DATA RECORD - SURFACE WATER & SEDIMENT

JOB NUMBER: 7555-05 DATE: 2/4/92

LOCATION ACTIVITY: START: END:

PROJECT: NAS JAX OU1

SD SAMPLE LOCATION ID: J260292SD033

SW SAMPLE LOCATION ID:

SURFACE WATER DATA

WATER DEPTH @ SAMPLE LOCATION: ~~2~~ FT

DEPTH OF SAMPLE FROM TOP OF WATER: ~~0-6"~~ FT

TEMPERATURE: ~~17~~ DEG C. RVC

pH .....: ~~7.5~~ UNITS

SPEC. COND.: ~~1,100~~ umhos/cm

TYPE OF SURFACE WATER:
- [ ] STREAM
- [x] RIVER
- [ ] POND/LAKE
- [ ] SEEP
- [x] OTHER: DITCH

DECONTAMINATION FLUIDS USED:
- [ ] LIQUI-NOX
- [ ] DEIONIZED WATER
- [ ] TSP SOLUTION
- [ ] HEXANE
- [ ] HNO3 SOLUTION
- [ ] POTABLE WATER
- [ ] NONE

EQUIPMENT USED FOR COLLECTION:
- [x] BEAKER
- [ ] NONE, GRAB INTO BOTTLE
- [ ] BOMB SAMPLER
- [ ] PUMP

VELOCITY MEASUREMENTS OBTAINED:
- [ ] YES, SEE FLOW DATA BELOW
- [x] NO

FIELD QC DATA: [ ] FIELD DUPLICATE COLLECTED DUP. ID

SAMPLE LOCATION SKETCH BELOW ?
- [ ] YES
- [x] NO

SEDIMENT DATA

DEPTH OF SEDIMENT SAMPLE: 0-6" IN

TYPE OF SAMPLE COLLECTED:
- [x] DISCRETE
- [x] COMPOSITE

SAMPLE OBSERVATIONS:
- [ ] ODOR
- [x] COLORED BROWN

TYPE OF SEDIMENT:
- [ ] CLAY
- [x] SAND
- [ ] ORGANIC
- [ ] GRAVEL
- [ ] OTHER: VF-GRAIN

EQUIPMENT USED FOR COLLECTION:
- [ ] GRAVITY CORER
- [ ] S.S. SPLIT SPOON
- [ ] HAND SPOON
- [ ] ALUMINUM PANS
- [x] S.S. BUCKET
- [ ] DREDGE

DECONTAMINATION FLUIDS USED
- [x] LIQUI-NOX
- [x] DEIONIZED WATER
- [ ] TSP SOLUTION
- [ ] HEXANE
- [ ] HNO3 SOLUTION
- [ ] POTABLE WATER
- [ ] STREAM WATER
- [ ] NONE
- [x] ISO-PROPYL ALCOHOL

FIELD QC DATA: [ ] FIELD DUPLICATE COLLECTED. DUP ID

ANALYTICAL PARAMETERS

	METHOD NUMBER	MATRIX SW	MATRIX SED	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	SAMPLE BOTTLE ID NUMBERS
[x] VOC w/TIC	8240	[ ]	[x]	4°C	8 oz	[x]	/ / /
[x] Semi-volatile organic	8270	[ ]	[x]	4°C	8 oz	[x]	/ / /
[x] PCB/Pest	8080	[ ]	[x]	4°C		[x]	/ / /
[x] TAL/TCL Metals		[ ]	[x]			[x]	/ / /
[x] Cyanide	Different	[ ]	[x]	4°C		[x]	/ / /
[x] Gross Alpha	9310	[ ]	[x]	4°C	8 oz	[x]	/ / /
[x] Gross Beta	9310	[ ]	[x]	4°C		[x]	/ / /
[x] Radium-226	9315	[ ]	[x]	4°C		[x]	/ / /
[x] Radium-228	9320	[ ]	[x]	4°C		[x]	/ / /
[ ]		[ ]	[ ]			[ ]	/ / /
[ ]		[ ]	[ ]			[ ]	/ / /

NOTES

SIGNATURE:

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ABB ENVIRONMENTAL SERVICES, INC

FIELD DATA RECORD - SURFACE WATER & SEDIMENT

JOB NUMBER: 7555-05 DATE: 2-2-92

PROJECT: NAS JAX OU1

LOCATION ACTIVITY START: 1026 END: 1158

SW SAMPLE LOCATION ID: J260292SW013

SD SAMPLE LOCATION ID:

SURFACE WATER DATA

WATER DEPTH @ SAMPLE LOCATION: 5' FT

DEPTH OF SAMPLE FROM TOP OF WATER: 6" FT

TEMPERATURE: 13 DEG C.

pH ..... 7 UNITS

SPEC. COND. 880 umhos/cm

TYPE OF SURFACE WATER:
- [ ] STREAM
- [ ] RIVER
- [ ] POND/LAKE
- [ ] SEEP
- [x] OTHER Ditch

EQUIPMENT USED FOR COLLECTION:
- [x] Pyrex Beaker
- [ ] NONE, GRAB INTO BOTTLE
- [ ] BOMB SAMPLER
- [ ] PUMP

VELOCITY MEASUREMENTS OBTAINED:
- [ ] YES, SEE FLOW DATA BELOW
- [x] NO

DECONTAMINATION FLUIDS USED:
- [x] LIQUI-NOX
- [x] DEIONIZED WATER
- [ ] TSP SOLUTION
- [ ] HEXANE
- [ ] HNO3 SOLUTION
- [ ] POTABLE WATER
- [ ] NONE
- [x] Isopropyl Alcohol

FIELD QC DATA: [ ] FIELD DUPLICATE COLLECTED DUP. ID _____

SAMPLE LOCATION SKETCH BELOW ?
- [ ] YES
- [x] NO

SEDIMENT DATA

DEPTH OF SEDIMENT SAMPLE: _____ IN

TYPE OF SAMPLE COLLECTED:
- [x] DISCRETE
- [ ] COMPOSITE

SAMPLE OBSERVATIONS:
- [ ] ODOR _____
- [ ] COLORED _____
- [ ] _____

TYPE OF SEDIMENT:
- [ ] CLAY
- [ ] SAND
- [ ] ORGANIC
- [ ] GRAVEL
- [ ] OTHER: _____

EQUIPMENT USED FOR COLLECTION:
- [ ] GRAVITY CORER
- [ ] S.S. SPLIT SPOON
- [ ] HAND SPOON
- [ ] ALUMINUM PANS
- [ ] S.S. BUCKET
- [ ] DREDGE
- [ ] _____

DECONTAMINATION FLUIDS USED
- [ ] LIQUI-NOX
- [ ] DEIONIZED WATER
- [ ] TSP SOLUTION
- [ ] HEXANE
- [ ] HNO3 SOLUTION
- [ ] POTABLE WATER
- [ ] STREAM WATER
- [ ] NONE

FIELD QC DATA: [ ] FIELD DUPLICATE COLLECTED. DUP ID _____

ANALYTICAL PARAMETERS

	METHOD NUMBER	MATRIX SW	MATRIX SED	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	SAMPLE BOTTLE ID NUMBERS
[x] VOC w/TIC	624	[x]	[ ]	HCL	120 ML	[x]	____/____/____/____
[x] Semi-Volatile organic w/TIC	625	[x]	[ ]	4°C	2L	[x]	____/____/____/____
[x] PCB/PEST	608	[x]	[ ]	4°C	2 Liter	[x]	____/____/____/____
[x] TAL/TCL metals		[x]	[ ]	HNO3	1 Liter	[x]	____/____/____/____
[x] Cyanide	335.2	[x]	[ ]	NAOH	1/2 gallon	[x]	____/____/____/____
[x] Gross Alpha	9310	[x]	[ ]			[x]	____/____/____/____
[x] Gross Beta	9310	[x]	[ ]	HNO3	HNO3	[x]	____/____/____/____
[x] Radium 226	9315	[x]	[ ]			[x]	____/____/____/____
[x] Radium 228	9320	[x]	[ ]			[x]	____/____/____/____
[ ]		[ ]	[ ]			[ ]	____/____/____/____
[ ]		[ ]	[ ]			[ ]	____/____/____/____
[ ]		[ ]	[ ]			[ ]	____/____/____/____

NOTES

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SIGNATURE: _____

ABB ENVIRONMENTAL SERVICES, INC

FIELD DATA RECORD - SURFACE WATER & SEDIMENT

JOB NUMBER: 7555-05 DATE: 2-2-92

PROJECT: NAS JAX OU1

LOCATION ACTIVITY START: 1131 END: 1158

SW SAMPLE LOCATION ID:

SD SAMPLE LOCATION ID: J2602925D013

SURFACE WATER DATA

WATER DEPTH @ SAMPLE LOCATION: FT

DEPTH OF SAMPLE FROM TOP OF WATER: FT

TEMPERATURE: DEG C.

pH .....: UNITS

SPEC. COND.: umhos/cm

TYPE OF SURFACE WATER:
- [ ] STREAM
- [ ] RIVER
- [ ] POND/LAKE
- [ ] SEEP
- [x] OTHER Ditch

EQUIPMENT USED FOR COLLECTION:
- [ ] NONE, GRAB INTO BOTTLE
- [ ] BOMB SAMPLER
- [ ] PUMP

VELOCITY MEASUREMENTS OBTAINED:
- [ ] YES, SEE FLOW DATA BELOW
- [x] NO

DECONTAMINATION FLUIDS USED:
- [ ] LIQUI-NOX
- [ ] DEIONIZED WATER
- [ ] TSP SOLUTION
- [ ] HEXANE
- [ ] HNO3 SOLUTION
- [ ] POTABLE WATER
- [ ] NONE

FIELD QC DATA: [ ] FIELD DUPLICATE COLLECTED DUP. ID

SAMPLE LOCATION SKETCH BELOW ?
- [ ] YES
- [x] NO

SEDIMENT DATA

DEPTH OF SEDIMENT SAMPLE: 6-12" IN

TYPE OF SAMPLE COLLECTED:
- [x] DISCRETE
- [x] COMPOSITE

SAMPLE OBSERVATIONS:
- [ ] ODOR
- [x] COLORED Rust to Blk

TYPE OF SEDIMENT:
- [ ] CLAY
- [ ] SAND
- [ ] ORGANIC
- [ ] GRAVEL
- [x] OTHER: Clayey Sand

EQUIPMENT USED FOR COLLECTION:
- [ ] GRAVITY CORER
- [ ] S.S. SPLIT SPOON
- [ ] HAND SPOON
- [ ] ALUMINUM PANS
- [x] S.S. BUCKET
- [ ] DREDGE

DECONTAMINATION FLUIDS USED
- [x] LIQUI-NOX
- [x] DEIONIZED WATER
- [ ] TSP SOLUTION
- [ ] HEXANE
- [ ] HNO3 SOLUTION
- [ ] POTABLE WATER
- [ ] STREAM WATER
- [ ] NONE
- [x] Iso-Propyl Alcohol

FIELD QC DATA: [ ] FIELD DUPLICATE COLLECTED. DUP ID

ANALYTICAL PARAMETERS

	METHOD NUMBER	MATRIX SW	MATRIX SED	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	SAMPLE BOTTLE ID NUMBERS
[x] VOC w/TIC	8240	[ ]	[x]	4°C	8oz	[x]	/ / /
[x] Semi-Volatile Organic	8270	[ ]	[x]	4°C	8oz	[x]	/ / /
[x] PCB/Pest	8080	[ ]	[x]	4°C		[x]	/ / /
[x] TAL/TCL Metals		[ ]	[ ]	4°C		[x]	/ / /
[x] Cyanide	Distillate	[ ]	[x]	4°C		[x]	/ / /
[x] Gross Alpha	9310	[ ]	[x]	4°C	8oz	[x]	/ / /
[x] Gross Beta	9310	[ ]	[x]	4°C		[x]	/ / /
[x] Radium-226	9315	[ ]	[x]	4°C		[x]	/ / /
[x] Radium-228	9320	[ ]	[x]	4°C		[x]	/ / /
[ ]		[ ]	[ ]			[ ]	/ / /

NOTES

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SIGNATURE:

ABB ENVIRONMENTAL SERVICES, INC

FIELD DATA RECORD - SURFACE WATER & SEDIMENT

JOB NUMBER: 7555-05 DATE: 2-2-92

PROJECT: NAS JAX OU1

LOCATION ACTIVITY START: 1515 END: 1530

SW SAMPLE LOCATION ID: J260292SW014

SD SAMPLE LOCATION ID:

SURFACE WATER DATA

WATER DEPTH @ SAMPLE LOCATION: 4" FT

DEPTH OF SAMPLE FROM TOP OF WATER: 0-2" FT

TEMPERATURE: 18 DEG C.

pH ..... 6.3 UNITS

SPEC. COND. 310 umhos/cm

TYPE OF SURFACE WATER:
- [ ] STREAM
- [ ] RIVER
- [ ] POND/LAKE
- [ ] SEEP
- [x] OTHER Ditch

EQUIPMENT USED FOR COLLECTION:
- [x] Pyrex Beaker
- [ ] NONE, GRAB INTO BOTTLE
- [ ] BOMB SAMPLER
- [ ] PUMP

VELOCITY MEASUREMENTS OBTAINED:
- [ ] YES, SEE FLOW DATA BELOW
- [x] NO

DECONTAMINATION FLUIDS USED:
- [x] LIQUI-NOX
- [x] DEIONIZED WATER
- [ ] TSP SOLUTION
- [ ] HEXANE
- [ ] HNO3 SOLUTION
- [ ] POTABLE WATER
- [ ] NONE
- [x] ISO-Propyl Alcohol

FIELD QC DATA: [ ] FIELD DUPLICATE COLLECTED DUP. ID

SAMPLE LOCATION SKETCH BELOW ?
- [ ] YES
- [x] NO

SEDIMENT DATA

DEPTH OF SEDIMENT SAMPLE: IN

TYPE OF SAMPLE COLLECTED:
- [x] DISCRETE
- [ ] COMPOSITE

SAMPLE OBSERVATIONS:
- [ ] ODOR
- [ ] COLORED

TYPE OF SEDIMENT:
- [ ] CLAY
- [ ] SAND
- [ ] ORGANIC
- [ ] GRAVEL
- [ ] OTHER:

EQUIPMENT USED FOR COLLECTION:
- [ ] GRAVITY CORER
- [ ] S.S. SPLIT SPOON
- [ ] HAND SPOON
- [ ] ALUMINUM PANS
- [ ] S.S. BUCKET
- [ ] DREDGE

DECONTAMINATION FLUIDS USED
- [ ] LIQUI-NOX
- [ ] DEIONIZED WATER
- [ ] TSP SOLUTION
- [ ] HEXANE
- [ ] HNO3 SOLUTION
- [ ] POTABLE WATER
- [ ] STREAM WATER
- [ ] NONE

FIELD QC DATA: [ ] FIELD DUPLICATE COLLECTED. DUP ID

ANALYTICAL PARAMETERS

	METHOD NUMBER	MATRIX SW	MATRIX SED	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	SAMPLE BOTTLE ID NUMBERS
[x] VOC V/TIC	624	[x]	[ ]	HCL	120 mL	[x]	
[x] Semi-Volatile Organic V/TIC	625	[x]	[ ]	4°C	2L	[x]	
[x] PCB/PEST	608	[x]	[ ]	4°C	2L liter	[x]	
[x] TAL/TCL METALS		[x]	[ ]	HNO3	1 liter	[x]	
[x] Cyanide	335.2	[x]	[ ]	NAOH	1/2 gallon	[x]	
[x] Gross Alpha	9310	[x]	[ ]			[x]	
[x] Gross Beta	9310	[x]	[ ]	HNO3	HNO3	[x]	
[x] Radium 226	9315	[x]	[ ]			[x]	
[x] Radium 228	9320	[x]	[ ]			[x]	
[ ]		[ ]	[ ]			[ ]	
[ ]		[ ]	[ ]			[ ]	
[ ]		[ ]	[ ]			[ ]	

NOTES

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SIGNATURE:

ABB ENVIRONMENTAL SERVICES, INC

FIELD DATA RECORD - SURFACE WATER & SEDIMENT

JOB NUMBER: 7555-05 DATE: 2-2-92

LOCATION ACTIVITY START: 1515 END: 1530

PROJECT: NAS JAX OU1

SW SAMPLE LOCATION ID:

SD SAMPLE LOCATION ID: J2602925D014

SURFACE WATER DATA

WATER DEPTH @ SAMPLE LOCATION: FT

DEPTH OF SAMPLE FROM TOP OF WATER: FT

TEMPERATURE: DEG C.

pH .....: UNITS

SPEC. COND.: umhos/cm

TYPE OF SURFACE WATER:
- [ ] STREAM
- [ ] RIVER
- [ ] POND/LAKE
- [ ] SEEP
- [x] OTHER Ditch

DECONTAMINATION FLUIDS USED:
- [ ] LIQUI-NOX
- [ ] DEIONIZED WATER
- [ ] TSP SOLUTION
- [ ] HEXANE
- [ ] HNO3 SOLUTION
- [ ] POTABLE WATER
- [ ] NONE

EQUIPMENT USED FOR COLLECTION:
- [ ] NONE, GRAB INTO BOTTLE
- [ ] BOMB SAMPLER
- [ ] PUMP

VELOCITY MESUREMENTS OBTAINED:
- [ ] YES, SEE FLOW DATA BELOW
- [x] NO

FIELD QC. DATA: [ ] FIELD DUPLICATE COLLECTED DUP. ID

SAMPLE LOCATION SKETCH BELOW ?
- [ ] YES
- [x] NO

SEDIMENT DATA

DEPTH OF SEDIMENT SAMPLE: 6-12" IN

TYPE OF SAMPLE COLLECTED:
- [x] DISCRETE
- [x] COMPOSITE

TYPE OF SEDIMENT:
- [ ] CLAY
- [x] SAND
- [ ] ORGANIC
- [ ] GRAVEL
- [ ] OTHER:

EQUIPMENT USED FOR COLLECTION:
- [ ] GRAVITY CORER
- [ ] S.S. SPLIT SPOON
- [ ] HAND SPOON
- [ ] ALUMINUM PANS
- [x] S.S. BUCKET
- [ ] DREDGE

DECONTAMINATION FLUIDS USED
- [x] LIQUI-NOX
- [x] DEIONIZED WATER
- [ ] TSP SOLUTION
- [ ] HEXANE
- [ ] HNO3 SOLUTION
- [ ] POTABLE WATER
- [ ] STREAM WATER
- [ ] NONE
- [x] ISO-Propyl Alcohol

SAMPLE OBSERVATIONS
- [ ] ODOR
- [x] COLORED TAN-RUST
- [ ]

FIELD QC DATA: [ ] FIELD DUPLICATE COLLECTED. DUP ID

ANALYTICAL PARAMETERS

	METHOD NUMBER	MATRIX SW	MATRIX SED	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	SAMPLE BOTTLE ID NUMBERS
[x] VOC w/TIC	8240	[ ]	[x]	4°C	80Z	[x]	/ / /
[x] Semi-volatile organic	8270	[ ]	[x]	4°C	80Z	[x]	/ / /
[x] PCB/Pest	8080	[ ]	[x]	4°C		[x]	/ / /
[x] TAL/TCL Metals		[ ]	[x]			[x]	/ / /
[x]		[ ]	[x]	4°C		[x]	/ / /
[x] Cyanide	Diffexract	[ ]	[x]	4°C		[x]	/ / /
[x] Gross Alpha	9310	[ ]	[x]	4°C	80Z	[x]	/ / /
[x] Gross Beta	9310	[ ]	[x]	4°C		[x]	/ / /
[x] Radium-226	9315	[ ]	[x]	4°C		[ ]	/ / /
[x] Radium-228	9320	[ ]	[x]	4°C		[ ]	/ / /
[ ]		[ ]	[ ]			[ ]	/ / /
[ ]		[ ]	[ ]			[ ]	/ / /

NOTES

SIGNATURE:

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ABB ENVIRONMENTAL SERVICES, INC

FIELD DATA RECORD - SURFACE WATER & SEDIMENT

JOB NUMBER: 7555-05 DATE: 2-2-92

SITE: NAS JAX OU1

LOCATION ACTIVITY START: 1026 END: 1120

SW SAMPLE LOCATION ID: J260292SW015

SD SAMPLE LOCATION ID:

SURFACE WATER DATA

WATER DEPTH @ SAMPLE LOCATION: 3' FT

DEPTH OF SAMPLE FROM TOP OF WATER: 6" FT

TEMPERATURE: 13 DEG C.

pH ..... 7.8 UNITS

SPEC. COND. 820 umhos/cm

TYPE OF SURFACE WATER:
- [ ] STREAM
- [ ] RIVER
- [ ] POND/LAKE
- [ ] SEEP
- [x] OTHER Ditch

EQUIPMENT USED FOR COLLECTION:
- [x] Pyrex Beaker
- [ ] NONE, GRAB INTO BOTTLE
- [ ] BOMB SAMPLER
- [ ] PUMP

VELOCITY MEASUREMENTS OBTAINED:
- [ ] YES, SEE FLOW DATA BELOW
- [x] NO

DECONTAMINATION FLUIDS USED:
- [x] LIQUI-NOX
- [x] DEIONIZED WATER
- [ ] TSP SOLUTION
- [ ] HEXANE
- [ ] HNO3 SOLUTION
- [ ] POTABLE WATER
- [ ] NONE
- [x] Iso-Propyl Alcohol

FIELD QC. DATA: [ ] FIELD DUPLICATE COLLECTED DUP. ID _____

SAMPLE LOCATION SKETCH BELOW ?
- [ ] YES
- [x] NO

SEDIMENT DATA

DEPTH OF SEDIMENT SAMPLE: _____ IN

TYPE OF SAMPLE COLLECTED:
- [x] DISCRETE
- [ ] COMPOSITE

SAMPLE OBSERVATIONS:
- [ ] ODOR _____
- [ ] COLORED _____
- [ ] _____

TYPE OF SEDIMENT:
- [ ] CLAY
- [ ] SAND
- [ ] ORGANIC
- [ ] GRAVEL
- [ ] OTHER: _____

EQUIPMENT USED FOR COLLECTION:
- [ ] GRAVITY CORER
- [ ] S.S. SPLIT SPOON
- [ ] HAND SPOON
- [ ] ALUMINUM PANS
- [ ] S.S. BUCKET
- [ ] DREDGE
- [ ] _____

DECONTAMINATION FLUIDS USED
- [ ] LIQUI-NOX
- [ ] DEIONIZED WATER
- [ ] TSP SOLUTION
- [ ] HEXANE
- [ ] HNO3 SOLUTION
- [ ] POTABLE WATER
- [ ] STREAM WATER
- [ ] NONE

FIELD QC DATA: [ ] FIELD DUPLICATE COLLECTED. DUP ID _____

ANALYTICAL PARAMETERS

	METHOD NUMBER	MATRIX SW	MATRIX SED	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	SAMPLE BOTTLE ID NUMBERS
[x] VOC w/TIC	624	[x]	[ ]	HCL	120 ML	[x]	___/___/___/___
[x] Semi-Volatile Organic w/TIC	625	[x]	[ ]	4°C	2L	[x]	___/___/___/___
[x] PCB/PEST	608	[x]	[ ]	4°C	2Liter	[x]	___/___/___/___
[x] TAL/TCL metals		[x]	[ ]	HNO3	1Liter	[x]	___/___/___/___
[x] Cyanide	335.2	[x]	[ ]	NAOH	1/2 gallon	[x]	___/___/___/___
[x] Gross Alpha	9310	[x]	[ ]	HNO3	HNO3	[x]	___/___/___/___
[x] Gross Beta	9310	[x]	[ ]			[x]	___/___/___/___
[x] Radium 226	9315	[x]	[ ]			[x]	___/___/___/___
[x] Radium 228	9320	[x]	[ ]			[x]	___/___/___/___
[ ]		[ ]	[ ]			[ ]	___/___/___/___
[ ]		[ ]	[ ]			[ ]	___/___/___/___
[ ]		[ ]	[ ]			[ ]	___/___/___/___
[ ]		[ ]	[ ]			[ ]	___/___/___/___

NOTES

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SIGNATURE: _____

ABB ENVIRONMENTAL SERVICES, INC

FIELD DATA RECORD - SURFACE WATER & SEDIMENT

JOB NUMBER: 7555-05 DATE: 2-2-92

PROJECT: NAS JAX OU1

LOCATION ACTIVITY START: 1020 END: 1120

SW SAMPLE LOCATION ID:

SD SAMPLE LOCATION ID: J2602925D015

SURFACE WATER DATA

WATER DEPTH @ SAMPLE LOCATION: FT

DEPTH OF SAMPLE FROM TOP OF WATER: FT

TEMPERATURE: DEG C.

pH .....: UNITS

SPEC. COND.: umhos/cm

TYPE OF SURFACE WATER:
- [ ] STREAM
- [ ] RIVER
- [ ] POND/LAKE
- [ ] SEEP
- [x] OTHER Ditch

EQUIPMENT USED FOR COLLECTION:
- [ ] NONE, GRAB INTO BOTTLE
- [ ] BOMB SAMPLER
- [ ] PUMP

VELOCITY MEASUREMENTS OBTAINED:
- [ ] YES, SEE FLOW DATA BELOW
- [x] NO

DECONTAMINATION FLUIDS USED:
- [ ] LIQUI-NOX
- [ ] DEIONIZED WATER
- [ ] TSP SOLUTION
- [ ] HEXANE
- [ ] HNO3 SOLUTION
- [ ] POTABLE WATER
- [ ] NONE

FIELD QC DATA: [ ] FIELD DUPLICATE COLLECTED DUP. ID

SAMPLE LOCATION SKETCH BELOW ?
- [ ] YES
- [x] NO

SEDIMENT DATA

DEPTH OF SEDIMENT SAMPLE: 6-12" IN

TYPE OF SAMPLE COLLECTED:
- [x] DISCRETE
- [x] COMPOSITE

TYPE OF SEDIMENT:
- [ ] CLAY
- [x] SAND
- [ ] ORGANIC
- [ ] GRAVEL
- [ ] OTHER:

EQUIPMENT USED FOR COLLECTION:
- [ ] GRAVITY CORER
- [ ] S.S. SPLIT SPOON
- [ ] HAND SPOON
- [ ] ALUMINUM PANS
- [x] S.S. BUCKET
- [ ] DREDGE

DECONTAMINATION FLUIDS USED
- [x] LIQUI-NOX
- [x] DEIONIZED WATER
- [ ] TSP SOLUTION
- [ ] HEXANE
- [ ] HNO3 SOLUTION
- [ ] POTABLE WATER
- [ ] STREAM WATER
- [ ] NONE
- [x] ISO-PROPYL Alcohol

SAMPLE OBSERVATIONS:
- [ ] ODOR
- [x] COLORED TAN W/BLACK
- [ ]

FIELD QC DATA: [ ] FIELD DUPLICATE COLLECTED. DUP ID

ANALYTICAL PARAMETERS

	METHOD NUMBER	MATRIX SW	MATRIX SED	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	SAMPLE BOTTLE ID NUMBERS
[x] VOC w/TIC	8240	[ ]	[x]	4°C	80Z	[x]	/ / /
[x] Semi-volatile organic	8270	[ ]	[x]	4°C	80Z	[x]	/ / /
[x] PCB/Pest	8080	[ ]	[x]	4°C		[x]	/ / /
[x] TAL/TCL Metals		[ ]	[x]			[x]	/ / /
[x] Cyanide	Digestion	[ ]	[x]	4°C		[x]	/ / /
[x] Gross Alpha	9310	[ ]	[x]	4°C	80Z	[x]	/ / /
[x] Gross Beta	9310	[ ]	[x]	4°C		[x]	/ / /
[x] Radium-226	9315	[ ]	[x]	4°C		[x]	/ / /
[x] Radium-228	9320	[ ]	[x]	4°C		[x]	/ / /
[ ]		[ ]	[ ]			[ ]	/ / /

NOTES

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FIELD DATA RECORD - SURFACE WATER & SEDIMENT

JOB NUMBER: 7555-05 DATE: 2/4/92

SITE: NAS JAX OU1

LOCATION ACTIVITY: START: 0930 END: 1020

SW SAMPLE LOCATION ID: J26029 25W016

SD SAMPLE LOCATION ID:

SURFACE WATER DATA

WATER DEPTH @ SAMPLE LOCATION: 1' FT

DEPTH OF SAMPLE FROM TOP OF WATER: 0-6" FT

TEMPERATURE: 11 DEG C.

pH ..... 7.2 UNITS

SPEC. COND. 800 umhos/cm

TYPE OF SURFACE WATER:
- [ ] STREAM
- [ ] RIVER
- [ ] POND/LAKE
- [ ] SEEP
- [x] OTHER Ditch

EQUIPMENT USED FOR COLLECTION:
- [x] Pyrex Beaker
- [ ] NONE, GRAB INTO BOTTLE
- [ ] BOMB SAMPLER
- [ ] PUMP

VELOCITY MEASUREMENTS OBTAINED:
- [ ] YES, SEE FLOW DATA BELOW
- [x] NO

DECONTAMINATION FLUIDS USED:
- [x] LIQUI-NOX
- [x] DEIONIZED WATER
- [ ] TSP SOLUTION
- [ ] HEXANE
- [ ] HNO3 SOLUTION
- [ ] POTABLE WATER
- [ ] NONE
- [x] Isc-Propyl Alcohol

FIELD QC DATA: [ ] FIELD DUPLICATE COLLECTED DUP. ID

SAMPLE LOCATION SKETCH BELOW ?
- [ ] YES
- [x] NO

SEDIMENT DATA

DEPTH OF SEDIMENT SAMPLE: IN

TYPE OF SAMPLE COLLECTED:
- [x] DISCRETE
- [ ] COMPOSITE

SAMPLE OBSERVATIONS:
- [ ] ODOR
- [ ] COLORED

TYPE OF SEDIMENT:
- [ ] CLAY
- [ ] SAND
- [ ] ORGANIC
- [ ] GRAVEL
- [ ] OTHER:

EQUIPMENT USED FOR COLLECTION:
- [ ] GRAVITY CORER
- [ ] S.S. SPLIT SPOON
- [ ] HAND SPOON
- [ ] ALUMINUM PANS
- [ ] S.S. BUCKET
- [ ] DREDGE

DECONTAMINATION FLUIDS USED
- [ ] LIQUI-NOX
- [ ] DEIONIZED WATER
- [ ] TSP SOLUTION
- [ ] HEXANE
- [ ] HNO3 SOLUTION
- [ ] POTABLE WATER
- [ ] STREAM WATER
- [ ] NONE

FIELD QC DATA: [ ] FIELD DUPLICATE COLLECTED. DUP ID

ANALYTICAL PARAMETERS

	METHOD NUMBER	MATRIX SW	MATRIX SED	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	SAMPLE BOTTLE ID NUMBERS
[x] VOC w/TIC	624	[x]	[ ]	HCL	120 mL	[x]	
[x] Semi-Volatile organic w/TIC	625	[x]	[ ]	4°C	2L	[x]	
[x] PCB/Pest	608	[x]	[ ]	4°C	2Liter	[x]	
[x] TAL/TCL metals		[x]	[ ]	HNO3	1Liter	[x]	
[x] Cyanide	335.2	[x]	[ ]	NAOH	1/2 gallon	[x]	
[x] Gross Alpha	9310	[x]	[ ]	HNO3	HNO3	[x]	
[x] Gross Beta	9310	[x]	[ ]			[x]	
[x] Radium 226	9315	[x]	[ ]			[x]	
[x] Radium 228	9320	[x]	[ ]			[x]	
[ ]		[ ]	[ ]			[ ]	

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FIELD DATA RECORD - SURFACE WATER & SEDIMENT

JOB NUMBER: 7555-05 DATE: 2/4/92

PROJECT: NAS JAX OU1

LOCATION ACTIVITY START: 0930 END: 1020

SW SAMPLE LOCATION ID:

SD SAMPLE LOCATION ID: J2602925D016

SURFACE WATER DATA

WATER DEPTH @ SAMPLE LOCATION: FT

DEPTH OF SAMPLE FROM TOP OF WATER: FT

TEMPERATURE: DEG C.

pH .....: UNITS

SPEC. COND.: umhos/cm

TYPE OF SURFACE WATER:
- [ ] STREAM
- [ ] RIVER
- [ ] POND/LAKE
- [ ] SEEP
- [x] OTHER: DITCH

EQUIPMENT USED FOR COLLECTION:
- [ ] NONE, GRAB INTO BOTTLE
- [ ] BOMB SAMPLER
- [ ] PUMP

VELOCITY MEASUREMENTS OBTAINED:
- [ ] YES, SEE FLOW DATA BELOW
- [x] NO

DECONTAMINATION FLUIDS USED:
- [ ] LIQUI-NOX
- [ ] DEIONIZED WATER
- [ ] TSP SOLUTION
- [ ] HEXANE
- [ ] HNO3 SOLUTION
- [ ] POTABLE WATER
- [ ] NONE

FIELD QC. DATA: [ ] FIELD DUPLICATE COLLECTED DUP. ID

SAMPLE LOCATION SKETCH BELOW ?
- [ ] YES
- [x] NO

SEDIMENT DATA

DEPTH OF SEDIMENT SAMPLE: 0-6" IN

TYPE OF SAMPLE COLLECTED:
- [x] DISCRETE
- [x] COMPOSITE

SAMPLE OBSERVATIONS:
- [ ] ODOR
- [x] COLORED BLACK
- [ ]

TYPE OF SEDIMENT:
- [ ] CLAY
- [ ] SAND
- [ ] ORGANIC
- [ ] GRAVEL
- [x] OTHER: SANDS w/organics + silt

EQUIPMENT USED FOR COLLECTION:
- [ ] GRAVITY CORER
- [ ] S.S. SPLIT SPOON
- [ ] HAND SPOON
- [ ] ALUMINUM PANS
- [x] S.S. BUCKET
- [ ] DREDGE
- [ ]

DECONTAMINATION FLUIDS USED
- [x] LIQUI-NOX
- [x] DEIONIZED WATER
- [ ] TSP SOLUTION
- [ ] HEXANE
- [ ] HNO3 SOLUTION
- [ ] POTABLE WATER
- [ ] STREAM WATER
- [ ] NONE
- [x] ISO-PROPYL ALCOHOL

FIELD QC DATA: [ ] FIELD DUPLICATE COLLECTED. DUP ID

ANALYTICAL PARAMETERS

	METHOD NUMBER	MATRIX SW	MATRIX SED	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	SAMPLE BOTTLE ID NUMBERS
[x] VOC W/TIC	8240	[ ]	[x]	4°C	8 oz	[x]	/ / /
[x] Semi-Volatile Organic	8270	[ ]	[x]	4°C	8 oz	[x]	/ / /
[x] PCB/Pest	8080	[ ]	[x]	4°C		[x]	/ / /
[x] TAL/TCL Metals		[ ]	[x]			[x]	/ / /
[x] Cyanide	Digestion	[ ]	[x]	4°C		[x]	/ / /
[x] Gross Alpha	9310	[ ]	[x]	4°C	8 oz	[x]	/ / /
[x] Gross Beta	9310	[ ]	[x]	4°C		[x]	/ / /
[x] Radium-226	9315	[ ]	[x]	4°C		[x]	/ / /
[x] Radium-228	9320	[ ]	[x]	4°C		[x]	/ / /
[ ]		[ ]	[ ]			[ ]	/ / /

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FIELD DATA RECORD - SURFACE WATER & SEDIMENT

JOB NUMBER: 7555-05 DATE: 2-2-92

PROJECT: NAS JAX OU1

LOCATION ACTIVITY START: 1545 END: 1600

SW SAMPLE LOCATION ID: J260292 SW017

SD SAMPLE LOCATION ID:

SURFACE WATER DATA

WATER DEPTH @ SAMPLE LOCATION: ~~6"~~ FT

DEPTH OF SAMPLE FROM TOP OF WATER: 2" FT

TEMPERATURE: 15 DEG C.

pH ..... 6.2 UNITS

SPEC. COND. 450 umhos/cm

TYPE OF SURFACE WATER:
- [ ] STREAM
- [ ] RIVER
- [ ] POND/LAKE
- [ ] SEEP
- [x] OTHER Ditch

EQUIPMENT USED FOR COLLECTION:
- [x] Pyrex Beaker
- [ ] NONE, GRAB INTO BOTTLE
- [ ] BOMB SAMPLER
- [ ] PUMP

VELOCITY MESUREMENTS OBTAINED:
- [ ] YES, SEE FLOW DATA BELOW
- [x] NO

DECONTAMINATION FLUIDS USED:
- [x] LIQUI-NOX
- [x] DEIONIZED WATER
- [ ] TSP SOLUTION
- [ ] HEXANE
- [ ] HNO3 SOLUTION
- [ ] POTABLE WATER
- [ ] NONE
- [x] Iso-Propyl Alcohol

FIELD QC DATA: [ ] FIELD DUPLICATE COLLECTED DUP. ID

SAMPLE LOCATION SKETCH BELOW ?
- [ ] YES
- [x] NO

SEDIMENT DATA

DEPTH OF SEDIMENT SAMPLE: IN

TYPE OF SAMPLE COLLECTED:
- [x] DISCRETE
- [ ] COMPOSITE

SAMPLE OBSERVATIONS:
- [ ] ODOR
- [ ] COLORED
- [ ]

TYPE OF SEDIMENT:
- [ ] CLAY
- [ ] SAND
- [ ] ORGANIC
- [ ] GRAVEL
- [ ] OTHER:

EQUIPMENT USED FOR COLLECTION:
- [ ] GRAVITY CORER
- [ ] S.S. SPLIT SPOON
- [ ] HAND SPOON
- [ ] ALUMINUM PANS
- [ ] S.S. BUCKET
- [ ] DREDGE
- [ ]

DECONTAMINATION FLUIDS USED
- [ ] LIQUI-NOX
- [ ] DEIONIZED WATER
- [ ] TSP SOLUTION
- [ ] HEXANE
- [ ] HNO3 SOLUTION
- [ ] POTABLE WATER
- [ ] STREAM WATER
- [ ] NONE

FIELD QC DATA: [ ] FIELD DUPLICATE COLLECTED. DUP ID

ANALYTICAL PARAMETERS

	METHOD NUMBER	MATRIX SW	MATRIX SED	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	SAMPLE BOTTLE ID NUMBERS
[x] VOC V/TIC	624	[x]	[ ]	HCL	180 ML	[x]	/ / /
[x] Semi-Volatile Organic V/TIC	625	[x]	[ ]	4°C	2L	[x]	/ / /
[x] PCB/PEST	608	[x]	[ ]	4°C	2 Liter	[x]	/ / /
[x] TAL/TCL METALS		[x]	[ ]	HNO3	1 Liter	[x]	/ / /
[x] Cyanide	335.2	[x]	[ ]	NAOH	1/2 gallon	[x]	/ / /
[x] Gross Alpha	9310	[x]	[ ]	HNO3	HNO3	[x]	/ / /
[x] Gross Beta	9310	[x]	[ ]			[x]	/ / /
[x] Radium 226	9315	[x]	[ ]			[x]	/ / /
[x] Radium 228	9320	[x]	[ ]			[x]	/ / /
[ ]		[ ]	[ ]			[x]	/ / /
[ ]		[ ]	[ ]			[ ]	/ / /
[ ]		[ ]	[ ]			[ ]	/ / /

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FIELD DATA RECORD - SURFACE WATER & SEDIMENT

JOB NUMBER: 7555-05 DATE: 2-2-92

PROJECT: NAS JAX OU1

LOCATION ACTIVITY START: 1545 END: 1600

SW SAMPLE LOCATION ID:

SD SAMPLE LOCATION ID: J2602 92 ~~SW~~ 17 SD ~~SW~~

SURFACE WATER DATA

WATER DEPTH @ SAMPLE LOCATION: FT

DEPTH OF SAMPLE FROM TOP OF WATER: FT

TEMPERATURE: DEG C.

pH .....: UNITS

SPEC. COND.: umhos/cm

TYPE OF SURFACE WATER:
- [ ] STREAM
- [ ] RIVER
- [ ] POND/LAKE
- [ ] SEEP
- [x] OTHER Ditch

EQUIPMENT USED FOR COLLECTION:
- [ ] NONE, GRAB INTO BOTTLE
- [ ] BOMB SAMPLER
- [ ] PUMP

VELOCITY MESUREMENTS OBTAINED:
- [ ] YES, SEE FLOW DATA BELOW
- [x] NO

DECONTAMINATION FLUIDS USED:
- [ ] LIQUI-NOX
- [ ] DEIONIZED WATER
- [ ] TSP SOLUTION
- [ ] HEXANE
- [ ] HNO3 SOLUTION
- [ ] POTABLE WATER
- [ ] NONE

FIELD QC. DATA: [ ] FIELD DUPLICATE COLLECTED DUP. ID

SAMPLE LOCATION SKETCH BELOW ?
- [ ] YES
- [x] NO

SEDIMENT DATA

DEPTH OF SEDIMENT SAMPLE: 6-12" IN

TYPE OF SAMPLE COLLECTED:
- [x] DISCRETE
- [x] COMPOSITE

SAMPLE OBSERVATIONS:
- [ ] ODOR
- [ ] COLORED

TYPE OF SEDIMENT:
- [ ] CLAY
- [x] SAND
- [ ] ORGANIC
- [ ] GRAVEL
- [ ] OTHER:

EQUIPMENT USED FOR COLLECTION:
- [ ] GRAVITY CORER
- [ ] S.S. SPLIT SPOON
- [ ] HAND SPOON
- [ ] ALUMINUM PANS
- [x] S.S. BUCKET
- [ ] DREDGE

DECONTAMINATION FLUIDS USED
- [x] LIQUI-NOX
- [x] DEIONIZED WATER
- [ ] TSP SOLUTION
- [ ] HEXANE
- [ ] HNO3 SOLUTION
- [ ] POTABLE WATER
- [ ] STREAM WATER
- [ ] NONE
- [x] ISO-Propyl Alcohol

FIELD QC DATA: [ ] FIELD DUPLICATE COLLECTED. DUP ID

ANALYTICAL PARAMETERS

	METHOD NUMBER	MATRIX SW	MATRIX SED	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	SAMPLE BOTTLE ID NUMBERS
[x] VOC w/TIC	8240	[ ]	[x]	4°C	80z	[x]	/ / /
[x] Semi-volatile organic	8270	[ ]	[x]	4°C	80z	[x]	/ / /
[x] PCB/Pest	8080	[ ]	[x]	4°C		[x]	/ / /
[x] TAL/TCL Metals		[ ]	[x]			[x]	/ / /
[x] Cyanide	D1/2Extract	[ ]	[x]	4°C		[x]	/ / /
[x] Gross Alpha	9310	[ ]	[x]	4°C	80z	[x]	/ / /
[x] Gross Beta	9310	[ ]	[x]	4°C		[x]	/ / /
[x] Radium-226	9315	[ ]	[x]	4°C		[x]	/ / /
[x] Radium-228	9320	[ ]	[x]	4°C		[x]	/ / /
[ ]		[ ]	[ ]			[ ]	/ / /

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SIGNATURE:

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FIELD DATA RECORD - SURFACE WATER & SEDIMENT

JOB NUMBER: 7555-05 DATE: 2-2-92

PROJECT: NAS JAX OU1

LOCATION ACTIVITY START: 1630 END: 1652

SW SAMPLE LOCATION ID: J2602925W018

SD SAMPLE LOCATION ID:

SURFACE WATER DATA

WATER DEPTH @ SAMPLE LOCATION: 14 FT

DEPTH OF SAMPLE FROM TOP OF WATER: 11 FT

TEMPERATURE: 13 DEG C.

pH ..... 6.9 UNITS

SPEC. COND. 600 umhos/cm

TYPE OF SURFACE WATER:
- [ ] STREAM
- [ ] RIVER
- [ ] POND/LAKE
- [ ] SEEP
- [x] OTHER Ditch

EQUIPMENT USED FOR COLLECTION:
- [x] Pyrex Beaker
- [ ] NONE, GRAB INTO BOTTLE
- [ ] BOMB SAMPLER
- [ ] PUMP

VELOCITY MESUREMENTS OBTAINED:
- [ ] YES, SEE FLOW DATA BELOW
- [x] NO

DECONTAMINATION FLUIDS USED:
- [x] LIQUI-NOX
- [x] DEIONIZED WATER
- [ ] TSP SOLUTION
- [ ] HEXANE
- [ ] HNO3 SOLUTION
- [ ] POTABLE WATER
- [ ] NONE
- [x] Iso-Propyl Alcohol

FIELD QC. DATA: [ ] FIELD DUPLICATE COLLECTED DUP. ID _____

SAMPLE LOCATION SKETCH BELOW ?
- [ ] YES
- [x] NO

SEDIMENT DATA

DEPTH OF SEDIMENT SAMPLE: _____ IN

TYPE OF SAMPLE COLLECTED:
- [x] DISCRETE
- [ ] COMPOSITE

SAMPLE OBSERVATIONS:
- [ ] ODOR _____
- [ ] COLORED _____
- [ ] _____

TYPE OF SEDIMENT:
- [ ] CLAY
- [ ] SAND
- [ ] ORGANIC
- [ ] GRAVEL
- [ ] OTHER: _____

EQUIPMENT USED FOR COLLECTION:
- [ ] GRAVITY CORER
- [ ] S.S. SPLIT SPOON
- [ ] HAND SPOON
- [ ] ALUMINUM PANS
- [ ] S.S. BUCKET
- [ ] DREDGE
- [ ] _____

DECONTAMINATION FLUIDS USED
- [ ] LIQUI-NOX
- [ ] DEIONIZED WATER
- [ ] TSP SOLUTION
- [ ] HEXANE
- [ ] HNO3 SOLUTION
- [ ] POTABLE WATER
- [ ] STREAM WATER
- [ ] NONE

FIELD QC DATA: [ ] FIELD DUPLICATE COLLECTED. DUP ID _____

ANALYTICAL PARAMETERS

	METHOD NUMBER	MATRIX SW	MATRIX SED	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	SAMPLE BOTTLE ID NUMBERS
[x] VOC v/tic	624	[x]	[ ]	HCL	120 ML	[x]	___/___/___/___
[x] Semi-Volatile organic w/tic	625	[x]	[ ]	4°C	2L	[x]	___/___/___/___
[x] PCB/PEST	608	[x]	[ ]	4°C	2 Liter	[x]	___/___/___/___
[x] TAL/TCL metals		[x]	[ ]	HNO3	1 Liter	[x]	___/___/___/___
[x] Cyanide	335.2	[x]	[ ]	NaOH	1/2 gallon	[x]	___/___/___/___
[x] Gross Alpha	9310	[x]	[ ]			[x]	___/___/___/___
[x] Gross Beta	9310	[x]	[ ]	HNO3	HNO3	[x]	___/___/___/___
[x] Radium 226	9315	[x]	[ ]			[x]	___/___/___/___
[x] Radium 228	9320	[x]	[ ]			[x]	___/___/___/___
[ ]		[ ]	[ ]			[ ]	___/___/___/___
[ ]		[ ]	[ ]			[ ]	___/___/___/___
[ ]		[ ]	[ ]			[ ]	___/___/___/___

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SIGNATURE: _____

ABB ENVIRONMENTAL SERVICES, INC

FIELD DATA RECORD - SURFACE WATER & SEDIMENT

JOB NUMBER: 7555-05 DATE: 2-2-92

LOCATION ACTIVITY START: 1630 END: 1652

PROJECT: NAS JAX OU1

SD SAMPLE LOCATION ID: J260292SD018

SW SAMPLE LOCATION ID:

SURFACE WATER DATA

WATER DEPTH @ SAMPLE LOCATION: FT

DEPTH OF SAMPLE FROM TOP OF WATER: FT

TEMPERATURE: DEG C.

pH .....: UNITS

SPEC. COND.: umhos/cm

TYPE OF SURFACE WATER:
- [ ] STREAM
- [ ] RIVER
- [ ] POND/LAKE
- [ ] SEEP
- [x] OTHER Ditch

EQUIPMENT USED FOR COLLECTION:
- [ ] NONE, GRAB INTO BOTTLE
- [ ] BOMB SAMPLER
- [ ] PUMP

VELOCITY MEASUREMENTS OBTAINED:
- [ ] YES, SEE FLOW DATA BELOW
- [x] NO

DECONTAMINATION FLUIDS USED:
- [ ] LIQUI-NOX
- [ ] DEIONIZED WATER
- [ ] TSP SOLUTION
- [ ] HEXANE
- [ ] HNO3 SOLUTION
- [ ] POTABLE WATER
- [ ] NONE

FIELD QC. DATA: [ ] FIELD DUPLICATE COLLECTED DUP. ID

SAMPLE LOCATION SKETCH BELOW ?
- [ ] YES
- [x] NO

SEDIMENT DATA

DEPTH OF SEDIMENT SAMPLE: IN

TYPE OF SAMPLE COLLECTED:
- [x] DISCRETE
- [x] COMPOSITE

SAMPLE OBSERVATIONS:
- [ ] ODOR
- [x] COLORED TAN
- [ ]

TYPE OF SEDIMENT:
- [ ] CLAY
- [x] SAND
- [ ] ORGANIC
- [ ] GRAVEL
- [ ] OTHER:

EQUIPMENT USED FOR COLLECTION:
- [ ] GRAVITY CORER
- [ ] S.S. SPLIT SPOON
- [ ] HAND SPOON
- [ ] ALUMINUM PANS
- [x] S.S. BUCKET
- [ ] DREDGE
- [ ]

DECONTAMINATION FLUIDS USED
- [ ] LIQUI-NOX
- [x] DEIONIZED WATER
- [ ] TSP SOLUTION
- [ ] HEXANE
- [ ] HNO3 SOLUTION
- [ ] POTABLE WATER
- [ ] STREAM WATER
- [ ] NONE
- [x] ISO-Propyl Alcohol

FIELD QC DATA: [ ] FIELD DUPLICATE COLLECTED. DUP ID

ANALYTICAL PARAMETERS

	METHOD NUMBER	MATRIX SW	MATRIX SED	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	SAMPLE BOTTLE ID NUMBERS
[x] VOC w/TIC	8240	[ ]	[x]	4°C	80Z	[x]	/ / /
[x] Semi-Volatile Organic	8270	[ ]	[x]	4°C	80Z	[x]	/ / /
[x] PCB/Pest	8080	[ ]	[x]	4°C		[x]	/ / /
[x] TAL/TCL Metals		[ ]	[x]			[x]	/ / /
[x] Cyanide	DI/Extract	[ ]	[x]	4°C		[x]	/ / /
[x] Gross Alpha	9310	[ ]	[x]	4°C	80Z	[x]	/ / /
[x] Gross Beta	9310	[ ]	[x]	4°C		[x]	/ / /
[x] Radium-226	9315	[ ]	[x]	4°C		[x]	/ / /
[x] Radium-228	9320	[ ]	[x]	4°C		[x]	/ / /
[ ]		[ ]	[ ]			[ ]	/ / /

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SIGNATURE:

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ABB ENVIRONMENTAL SERVICES, INC

FIELD DATA RECORD - SURFACE WATER & SEDIMENT

JOB NUMBER: 7555-05 DATE: 2-2-92

SITE: NAS JAX OU1

LOCATION ACTIVITY: START: 1705 END: 1730

SW SAMPLE LOCATION ID: J260292SW019

SD SAMPLE LOCATION ID:

SURFACE WATER DATA

WATER DEPTH @ SAMPLE LOCATION: 2" FT

DEPTH OF SAMPLE FROM TOP OF WATER: 2" FT

TEMPERATURE: 14 DEG C.

pH: 6.9 UNITS

SPEC. COND.: 350 umhos/cm

TYPE OF SURFACE WATER:
- [ ] STREAM
- [ ] RIVER
- [ ] POND/LAKE
- [ ] SEEP
- [x] OTHER: Ditch

EQUIPMENT USED FOR COLLECTION:
- [x] Pyrex Beaker
- [ ] NONE, GRAB INTO BOTTLE
- [ ] BOMB SAMPLER
- [ ] PUMP

VELOCITY MESURUMENTS OBTAINED:
- [ ] YES, SEE FLOW DATA BELOW
- [x] NO

DECONTAMINATION FLUIDS USED:
- [x] LIQUI-NOX
- [x] DEIONIZED WATER
- [ ] TSP SOLUTION
- [ ] HEXANE
- [ ] HNO3 SOLUTION
- [ ] POTABLE WATER
- [ ] NONE
- [x] Iso-Propyl Alcohol

FIELD QC DATA: [ ] FIELD DUPLICATE COLLECTED DUP. ID _____

SAMPLE LOCATION SKETCH BELOW ?
- [ ] YES
- [x] NO

SEDIMENT DATA

DEPTH OF SEDIMENT SAMPLE: _____ IN

TYPE OF SAMPLE COLLECTED:
- [x] DISCRETE
- [ ] COMPOSITE

SAMPLE OBSERVATIONS:
- [ ] ODOR _____
- [ ] COLORED _____
- [ ] _____

TYPE OF SEDIMENT:
- [ ] CLAY
- [ ] SAND
- [ ] ORGANIC
- [ ] GRAVEL
- [ ] OTHER: _____

EQUIPMENT USED FOR COLLECTION:
- [ ] GRAVITY CORER
- [ ] S.S. SPLIT SPOON
- [ ] HAND SPOON
- [ ] ALUMINUM PANS
- [ ] S.S. BUCKET
- [ ] DREDGE
- [ ] _____

DECONTAMINATION FLUIDS USED
- [ ] LIQUI-NOX
- [ ] DEIONIZED WATER
- [ ] TSP SOLUTION
- [ ] HEXANE
- [ ] HNO3 SOLUTION
- [ ] POTABLE WATER
- [ ] STREAM WATER
- [ ] NONE

FIELD QC DATA: [ ] FIELD DUPLICATE COLLECTED. DUP ID _____

ANALYTICAL PARAMETERS

	METHOD NUMBER	MATRIX SW	MATRIX SED	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	SAMPLE BOTTLE ID NUMBERS
[x] VOC V/TIC	624	[x]	[ ]	HCL	120 ML	[x]	____/____/____/____
[x] Semi-Volatile organic V/TIC	625	[x]	[ ]	4°C	2L	[x]	____/____/____/____
[x] PCB/PEST	608	[x]	[ ]	4°C	2L line	[x]	____/____/____/____
[x] TAL/TCL metals		[x]	[ ]	HNO3	1 Liter	[x]	____/____/____/____
[x] Cyanide	335.2	[x]	[ ]	NAOH	1/2 gallon	[x]	____/____/____/____
[x] Gross Alpha	9310	[x]	[ ]			[x]	____/____/____/____
[x] Gross Beta	9310	[x]	[ ]	HNO3	HNO3	[x]	____/____/____/____
[x] Radium 226	9315	[x]	[ ]			[x]	____/____/____/____
[x] Radium 228	9320	[x]	[ ]			[x]	____/____/____/____
[ ]		[ ]	[ ]			[x]	____/____/____/____
[ ]		[ ]	[ ]			[x]	____/____/____/____
[ ]		[ ]	[ ]			[x]	____/____/____/____
[ ]		[ ]	[ ]			[x]	____/____/____/____

NOTES

MD 8/9/89

SIGNATURE: _____

ABB ENVIRONMENTAL SERVICES, INC

FIELD DATA RECORD - SURFACE WATER & SEDIMENT

JOB NUMBER: 7555-05 DATE: 2-2-92

PROJECT: NAS JAX OU1

LOCATION ACTIVITY START: 1705 END: 1730

SW SAMPLE LOCATION ID:

SD SAMPLE LOCATION ID: J2602925D019

SURFACE WATER DATA

WATER DEPTH @ SAMPLE LOCATION: FT

DEPTH OF SAMPLE FROM TOP OF WATER: FT

TEMPERATURE: DEG C.

pH .....: UNITS

SPEC. COND.: umhos/cm

TYPE OF SURFACE WATER:
- [ ] STREAM
- [ ] RIVER
- [ ] POND/LAKE
- [ ] SEEP
- [x] OTHER: Ditch

EQUIPMENT USED FOR COLLECTION:
- [ ] NONE, GRAB INTO BOTTLE
- [ ] BOMB SAMPLER
- [ ] PUMP

VELOCITY MESUREMENTS OBTAINED:
- [ ] YES, SEE FLOW DATA BELOW
- [x] NO

DECONTAMINATION FLUIDS USED:
- [ ] LIQUI-NOX
- [ ] DEIONIZED WATER
- [ ] TSP SOLUTION
- [ ] HEXANE
- [ ] HNO3 SOLUTION
- [ ] POTABLE WATER
- [ ] NONE

FIELD QC. DATA: [ ] FIELD DUPLICATE COLLECTED DUP. ID

SAMPLE LOCATION SKETCH BELOW ?
- [ ] YES
- [x] NO

SEDIMENT DATA

DEPTH OF SEDIMENT SAMPLE: 4-6" IN

TYPE OF SAMPLE COLLECTED:
- [x] DISCRETE
- [x] COMPOSITE

SAMPLE OBSERVATIONS:
- [ ] ODOR
- [x] COLORED TAN
- [ ]

TYPE OF SEDIMENT:
- [ ] CLAY
- [x] SAND
- [ ] ORGANIC
- [ ] GRAVEL
- [ ] OTHER:

EQUIPMENT USED FOR COLLECTION:
- [ ] GRAVITY CORER
- [ ] S.S. SPLIT SPOON
- [ ] HAND SPOON
- [ ] ALUMINUM PANS
- [x] S.S. BUCKET
- [ ] DREDGE
- [ ]

DECONTAMINATION FLUIDS USED
- [x] LIQUI-NOX
- [x] DEIONIZED WATER
- [ ] TSP SOLUTION
- [ ] HEXANE
- [ ] HNO3 SOLUTION
- [ ] POTABLE WATER
- [ ] STREAM WATER
- [ ] NONE
- [x] ISO-PROPYL Alcohol

FIELD QC DATA: [ ] FIELD DUPLICATE COLLECTED. DUP ID

ANALYTICAL PARAMETERS

	METHOD NUMBER	MATRIX SW	MATRIX SED	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	SAMPLE BOTTLE ID NUMBERS
[x] VOC w/TIC	8240	[ ]	[x]	4°C	80z	[x]	/ / /
[x] Semi-volatile organic	8270	[ ]	[x]	4°C	80z	[x]	/ / /
[x] PCB/Pest	8080	[ ]	[x]	4°C		[x]	/ / /
[x] TAL/TCL Metals		[ ]	[x]			[x]	/ / /
[x] Cyanide	Dis/extract	[ ]	[x]	4°C		[x]	/ / /
[x] Gross Alpha	9310	[ ]	[x]	4°C	80z	[x]	/ / /
[x] Gross Beta	9310	[ ]	[x]	4°C		[x]	/ / /
[x] Radium-226	9315	[ ]	[x]	4°C		[x]	/ / /
[x] Radium-228	9320	[ ]	[x]	4°C		[x]	/ / /
[ ]		[ ]	[ ]			[ ]	/ / /

NOTES

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SIGNATURE:

ABB ENVIRONMENTAL SERVICES, INC

FIELD DATA RECORD - SURFACE WATER & SEDIMENT

JOB NUMBER: 7555-05 DATE: 2-3-92

PROJECT: NAS JAX OU1

LOCATION ACTIVITY START: 0800 END: 0844

SW SAMPLE LOCATION ID: J2602925W020

SD SAMPLE LOCATION ID:

SURFACE WATER DATA

WATER DEPTH @ SAMPLE LOCATION: 8" FT

DEPTH OF SAMPLE FROM TOP OF WATER: 6" FT

TEMPERATURE: 10°C DEG C.

pH ..... 7.3 UNITS

SPEC. COND. 430 umhos/cm

TYPE OF SURFACE WATER:
- [ ] STREAM
- [ ] RIVER
- [ ] POND/LAKE
- [ ] SEEP
- [x] OTHER Ditch

EQUIPMENT USED FOR COLLECTION:
- [x] Pyrex Beaker
- [ ] NONE, GRAB INTO BOTTLE
- [ ] BOMB SAMPLER
- [ ] PUMP

VELOCITY MESUREMENTS OBTAINED:
- [ ] YES, SEE FLOW DATA BELOW
- [x] NO

DECONTAMINATION FLUIDS USED:
- [x] LIQUI-NOX
- [x] DEIONIZED WATER
- [ ] TSP SOLUTION
- [ ] HEXANE
- [ ] HNO3 SOLUTION
- [ ] POTABLE WATER
- [ ] NONE
- [x] Iso-Propyl Alcohol

FIELD QC. DATA: [ ] FIELD DUPLICATE COLLECTED DUP. ID

SAMPLE LOCATION SKETCH BELOW ?
- [ ] YES
- [x] NO

SEDIMENT DATA

DEPTH OF SEDIMENT SAMPLE: IN

TYPE OF SAMPLE COLLECTED:
- [x] DISCRETE
- [ ] COMPOSITE

SAMPLE OBSERVATIONS:
- [ ] ODOR
- [ ] COLORED

TYPE OF SEDIMENT:
- [ ] CLAY
- [ ] SAND
- [ ] ORGANIC
- [ ] GRAVEL
- [ ] OTHER:

EQUIPMENT USED FOR COLLECTION:
- [ ] GRAVITY CORER
- [ ] S.S. SPLIT SPOON
- [ ] HAND SPOON
- [ ] ALUMINUM PANS
- [ ] S.S. BUCKET
- [ ] DREDGE

DECONTAMINATION FLUIDS USED
- [ ] LIQUI-NOX
- [ ] DEIONIZED WATER
- [ ] TSP SOLUTION
- [ ] HEXANE
- [ ] HNO3 SOLUTION
- [ ] POTABLE WATER
- [ ] STREAM WATER
- [ ] NONE

FIELD QC DATA: [ ] FIELD DUPLICATE COLLECTED. DUP ID

ANALYTICAL PARAMETERS

	METHOD NUMBER	MATRIX SW	MATRIX SED	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	SAMPLE BOTTLE ID NUMBERS
[x] VOC V/TIC	624	[x]	[ ]	HCL	120 ML	[x]	
[x] Semi-Volatile Organic V/TIC	625	[x]	[ ]	4°C	2L	[x]	
[x] PCB/PEST	608	[x]	[ ]	4°C	2Liter	[x]	
[x] TAL/TCL Metals		[x]	[ ]	HNO3	1 Liter	[x]	
[x] Cyanide	335.2	[x]	[ ]	NAOH	1/2 gallon	[x]	
[x] Gross Alpha	9310	[x]	[ ]			[x]	
[x] Gross Beta	9310	[x]	[ ]	HNO3	HNO3	[x]	
[x] Radium 226	9315	[x]	[ ]			[x]	
[x] Radium 228	9320	[x]	[ ]			[x]	
[ ]		[ ]	[ ]			[ ]	
[ ]		[ ]	[ ]			[ ]	
[ ]		[ ]	[ ]			[ ]	

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SIGNATURE:

ABB ENVIRONMENTAL SERVICES, INC

FIELD DATA RECORD – SURFACE WATER & SEDIMENT

JOB NUMBER: 7555-05 DATE: 2-3-92

PROJECT: NAS JAX OU1

LOCATION ACTIVITY START: 0800 END: 0844

SW SAMPLE LOCATION ID:

SD SAMPLE LOCATION ID: J2602925D020

SURFACE WATER DATA

WATER DEPTH @ SAMPLE LOCATION: FT

DEPTH OF SAMPLE FROM TOP OF WATER: FT

TEMPERATURE: DEG C.

pH .....: UNITS

SPEC. COND.: umhos/cm

TYPE OF SURFACE WATER:
- [ ] STREAM
- [ ] RIVER
- [ ] POND/LAKE
- [ ] SEEP
- [x] OTHER DITCH

EQUIPMENT USED FOR COLLECTION:
- [ ] NONE, GRAB INTO BOTTLE
- [ ] BOMB SAMPLER
- [ ] PUMP

VELOCITY MEASUREMENTS OBTAINED:
- [ ] YES, SEE FLOW DATA BELOW
- [x] NO

DECONTAMINATION FLUIDS USED:
- [ ] LIQUI-NOX
- [ ] DEIONIZED WATER
- [ ] TSP SOLUTION
- [ ] HEXANE
- [ ] HNO3 SOLUTION
- [ ] POTABLE WATER
- [ ] NONE

FIELD QC DATA: [ ] FIELD DUPLICATE COLLECTED DUP. ID

SAMPLE LOCATION SKETCH BELOW ?
- [ ] YES
- [x] NO

SEDIMENT DATA

DEPTH OF SEDIMENT SAMPLE: 4-6" IN

TYPE OF SAMPLE COLLECTED:
- [x] DISCRETE
- [x] COMPOSITE

SAMPLE OBSERVATIONS:
- [ ] ODOR
- [x] COLORED TAN
- [ ]

TYPE OF SEDIMENT:
- [ ] CLAY
- [x] SAND
- [ ] ORGANIC
- [ ] GRAVEL
- [ ] OTHER: Sands w/silt + Clay

EQUIPMENT USED FOR COLLECTION:
- [ ] GRAVITY CORER
- [ ] S.S. SPLIT SPOON
- [ ] HAND SPOON
- [ ] ALUMINUM PANS
- [x] S.S. BUCKET
- [ ] DREDGE
- [ ]

DECONTAMINATION FLUIDS USED
- [x] LIQUI-NOX
- [x] DEIONIZED WATER
- [ ] TSP SOLUTION
- [ ] HEXANE
- [ ] HNO3 SOLUTION
- [ ] POTABLE WATER
- [ ] STREAM WATER
- [ ] NONE
- [x] Iso-Propyl Alcohol

FIELD QC DATA: [ ] FIELD DUPLICATE COLLECTED. DUP ID

ANALYTICAL PARAMETERS

	METHOD NUMBER	MATRIX SW	MATRIX SED	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	SAMPLE BOTTLE ID NUMBERS
[x] VOC w/TIC	8240	[ ]	[x]	4°C	8oz	[x]	/ / /
[x] Semi-Volatile Organic	8270	[ ]	[x]	4°C	8oz	[x]	/ / /
[x] PCB/Pest	8080	[ ]	[x]	4°C		[x]	/ / /
[x] TAL/TCL Metals		[ ]	[x]	4°C		[x]	/ / /
[x]		[ ]	[ ]			[ ]	/ / /
[x] Cyanide	Digestion	[ ]	[x]	4°C		[x]	/ / /
[x] Gross Alpha	9310	[ ]	[x]	4°C		[x]	/ / /
[x] Gross Beta	9310	[ ]	[x]	4°C	8oz	[x]	/ / /
[x] Radium-226	9315	[ ]	[x]	4°C		[x]	/ / /
[x] Radium-228	9320	[ ]	[x]	4°C		[x]	/ / /
[ ]		[ ]	[ ]			[ ]	/ / /
[ ]							/ / /

NOTES

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SIGNATURE:

ABB ENVIRONMENTAL SERVICES, INC

FIELD DATA RECORD - SURFACE WATER & SEDIMENT

JOB NUMBER: 7555-05 DATE: 2-3-92

SITE: NAS JAX OU1

LOCATION ACTIVITY START: 1000 END: 1039

SW SAMPLE LOCATION ID: J260292SW021

SD SAMPLE LOCATION ID:

SURFACE WATER DATA

WATER DEPTH @ SAMPLE LOCATION: 1' FT

DEPTH OF SAMPLE FROM TOP OF WATER: 6" FT

TEMPERATURE: 12 DEG C.

pH ..... 7.0 UNITS

SPEC. COND. 400 umhos/cm

TYPE OF SURFACE WATER:
- [ ] STREAM
- [ ] RIVER
- [ ] POND/LAKE
- [ ] SEEP
- [x] OTHER Ditch

EQUIPMENT USED FOR COLLECTION:
- [x] Pyrex Beaker
- [ ] NONE, GRAB INTO BOTTLE
- [ ] BOMB SAMPLER
- [ ] PUMP

VELOCITY MESUREMENTS OBTAINED:
- [ ] YES, SEE FLOW DATA BELOW
- [x] NO

DECONTAMINATION FLUIDS USED:
- [x] LIQUI-NOX
- [x] DEIONIZED WATER
- [ ] TSP SOLUTION
- [ ] HEXANE
- [ ] HNO3 SOLUTION
- [ ] POTABLE WATER
- [ ] NONE
- [x] Iso-Propyl Alcohol

FIELD QC DATA: [ ] FIELD DUPLICATE COLLECTED DUP. ID

SAMPLE LOCATION SKETCH BELOW ?
- [ ] YES
- [x] NO

SEDIMENT DATA

DEPTH OF SEDIMENT SAMPLE: IN

TYPE OF SAMPLE COLLECTED:
- [x] DISCRETE
- [ ] COMPOSITE

SAMPLE OBSERVATIONS:
- [ ] ODOR
- [ ] COLORED

TYPE OF SEDIMENT:
- [ ] CLAY
- [ ] SAND
- [ ] ORGANIC
- [ ] GRAVEL
- [ ] OTHER:

EQUIPMENT USED FOR COLLECTION:
- [ ] GRAVITY CORER
- [ ] S.S. SPLIT SPOON
- [ ] HAND SPOON
- [ ] ALUMINUM PANS
- [ ] S.S. BUCKET
- [ ] DREDGE

DECONTAMINATION FLUIDS USED
- [ ] LIQUI-NOX
- [ ] DEIONIZED WATER
- [ ] TSP SOLUTION
- [ ] HEXANE
- [ ] HNO3 SOLUTION
- [ ] POTABLE WATER
- [ ] STREAM WATER
- [ ] NONE

FIELD QC DATA: [ ] FIELD DUPLICATE COLLECTED. DUP ID

ANALYTICAL PARAMETERS

	METHOD NUMBER	MATRIX SW	MATRIX SED	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	SAMPLE BOTTLE ID NUMBERS
[x] VOC v/TIC	624	[x]	[ ]	HCL	120 ML	[x]	
[x] Semi-Volatile Organic v/TIC	625	[x]	[ ]	4°C	2L	[x]	
[x] PCB/Pest	608	[x]	[ ]	4°C	2 Liter	[x]	
[x] TAL/TCL metals		[x]	[ ]	HNO3	1 Liter	[x]	
[x] Cyanide	335.2	[x]	[ ]	NaOH	1/2 gallon	[x]	
[x] Gross Alpha	9310	[x]	[ ]			[x]	
[x] Gross Beta	9310	[x]	[ ]	HNO3	HNO3	[x]	
[x] Radium 226	9315	[x]	[ ]			[x]	
[x] Radium 228	9320	[x]	[ ]			[x]	
[ ]		[ ]	[ ]			[ ]	
[ ]		[ ]	[ ]			[ ]	
[ ]		[ ]	[ ]			[ ]	
[ ]		[ ]	[ ]			[ ]	

NOTES

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SIGNATURE:

FIELD DATA RECORD - SURFACE WATER & SEDIMENT

JOB NUMBER: 7555-05 DATE: 2-3-92

PROJECT: NAS JAX OU1

LOCATION ACTIVITY START: 1000 END: 1039

SW SAMPLE LOCATION ID:

SD SAMPLE LOCATION ID: J260292SD021

SURFACE WATER DATA

WATER DEPTH @ SAMPLE LOCATION: FT

DEPTH OF SAMPLE FROM TOP OF WATER: FT

TEMPERATURE: DEG C.

pH .....: UNITS

SPEC. COND.: umhos/cm

TYPE OF SURFACE WATER:
- [ ] STREAM
- [ ] RIVER
- [ ] POND/LAKE
- [ ] SEEP
- [x] OTHER: DITCH

EQUIPMENT USED FOR COLLECTION:
- [ ] NONE, GRAB INTO BOTTLE
- [ ] BOMB SAMPLER
- [ ] PUMP

VELOCITY MEASUREMENTS OBTAINED:
- [ ] YES, SEE FLOW DATA BELOW
- [x] NO

DECONTAMINATION FLUIDS USED:
- [ ] LIQUI-NOX
- [ ] DEIONIZED WATER
- [ ] TSP SOLUTION
- [ ] HEXANE
- [ ] HNO3 SOLUTION
- [ ] POTABLE WATER
- [ ] NONE

FIELD QC DATA: [ ] FIELD DUPLICATE COLLECTED DUP. ID

SAMPLE LOCATION SKETCH BELOW ?
- [ ] YES
- [x] NO

SEDIMENT DATA

DEPTH OF SEDIMENT SAMPLE: 6" IN

TYPE OF SAMPLE COLLECTED:
- [x] DISCRETE
- [x] COMPOSITE

SAMPLE OBSERVATIONS:
- [ ] ODOR
- [x] COLORED TAN
- [ ]

TYPE OF SEDIMENT:
- [x] CLAY
- [x] SAND
- [ ] ORGANIC
- [ ] GRAVEL
- [ ] OTHER: Sandy CLAY

EQUIPMENT USED FOR COLLECTION:
- [ ] GRAVITY CORER
- [ ] S.S. SPLIT SPOON
- [ ] HAND SPOON
- [ ] ALUMINUM PANS
- [x] S.S. BUCKET
- [ ] DREDGE
- [ ]

DECONTAMINATION FLUIDS USED
- [x] LIQUI-NOX
- [x] DEIONIZED WATER
- [ ] TSP SOLUTION
- [ ] HEXANE
- [ ] HNO3 SOLUTION
- [ ] POTABLE WATER
- [ ] STREAM WATER
- [ ] NONE
- [x] ISO-PROPYL Alcohol

FIELD QC DATA: [ ] FIELD DUPLICATE COLLECTED. DUP ID

ANALYTICAL PARAMETERS

	METHOD NUMBER	MATRIX SW	MATRIX SED	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	SAMPLE BOTTLE ID NUMBERS
[x] VOC w/TIC	8240	[ ]	[x]	4°C	8oz	[x]	/ / /
[x] Semi-Volatile Organic	8270	[ ]	[x]	4°C	8oz	[x]	/ / /
[x] PCB/Pest	8080	[ ]	[x]	4°C		[x]	/ / /
[x] TAL/TCL Metals		[ ]	[x]	4°C		[x]	/ / /
[x]		[ ]	[ ]			[x]	/ / /
[x] Cyanide	DI/Extract	[ ]	[x]	4°C		[x]	/ / /
[x] Gross Alpha	9310	[ ]	[x]	4°C	8oz	[x]	/ / /
[x] Gross Beta	9310	[ ]	[x]	4°C		[x]	/ / /
[x] Radium-226	9315	[ ]	[x]	4°C		[x]	/ / /
[x] Radium-228	9320	[ ]	[x]	4°C		[x]	/ / /
[ ]		[ ]	[ ]			[ ]	/ / /
[ ]		[ ]	[ ]			[ ]	/ / /

NOTES

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SIGNATURE:

ABB ENVIRONMENTAL SERVICES, INC

FIELD DATA RECORD - SURFACE WATER & SEDIMENT

JOB NUMBER: 7555-05 DATE: 2-3-92

PROJECT: NAS JAX OU1

LOCATION ACTIVITY START: 0910 END: 0930

SW SAMPLE LOCATION ID: J260292SW022

SD SAMPLE LOCATION ID:

SURFACE WATER DATA

WATER DEPTH @ SAMPLE LOCATION: 8" FT

DEPTH OF SAMPLE FROM TOP OF WATER: 2" FT

TEMPERATURE: 12 DEG C.

PH ..... 11 UNITS

SPEC. COND. 350 umhos/cm

TYPE OF SURFACE WATER:
- [ ] STREAM
- [ ] RIVER
- [ ] POND/LAKE
- [ ] SEEP
- [x] OTHER Ditch

EQUIPMENT USED FOR COLLECTION:
- [x] Pyrex Beaker
- [ ] NONE, GRAB INTO BOTTLE
- [ ] BOMB SAMPLER
- [ ] PUMP

VELOCITY MESURREMENTS OBTAINED:
- [ ] YES, SEE FLOW DATA BELOW
- [x] NO

DECONTAMINATION FLUIDS USED:
- [x] LIQUI-NOX
- [x] DEIONIZED WATER
- [ ] TSP SOLUTION
- [ ] HEXANE
- [ ] HNO3 SOLUTION
- [ ] POTABLE WATER
- [ ] NONE
- [x] Iso-Propyl Alcohol

FIELD QC DATA:
- [ ] FIELD DUPLICATE COLLECTED DUP. ID _____

SAMPLE LOCATION SKETCH BELOW ?
- [ ] YES
- [x] NO

SEDIMENT DATA

DEPTH OF SEDIMENT SAMPLE: _____ IN

TYPE OF SAMPLE COLLECTED:
- [x] DISCRETE
- [ ] COMPOSITE

SAMPLE OBSERVATIONS:
- [ ] ODOR _____
- [ ] COLORED _____
- [ ] _____

TYPE OF SEDIMENT:
- [ ] CLAY
- [ ] SAND
- [ ] ORGANIC
- [ ] GRAVEL
- [ ] OTHER: _____

EQUIPMENT USED FOR COLLECTION:
- [ ] GRAVITY CORER
- [ ] S.S. SPLIT SPOON
- [ ] HAND SPOON
- [ ] ALUMINUM PANS
- [ ] S.S. BUCKET
- [ ] DREDGE
- [ ] _____

DECONTAMINATION FLUIDS USED
- [ ] LIQUI-NOX
- [ ] DEIONIZED WATER
- [ ] TSP SOLUTION
- [ ] HEXANE
- [ ] HNO3 SOLUTION
- [ ] POTABLE WATER
- [ ] STREAM WATER
- [ ] NONE

FIELD QC DATA: [ ] FIELD DUPLICATE COLLECTED. DUP ID _____

ANALYTICAL PARAMETERS

	METHOD NUMBER	MATRIX SW	MATRIX SED	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	SAMPLE BOTTLE ID NUMBERS
[x] VOC v/TIC	624	[x]	[ ]	HCL	180 ML	[x]	___/___/___/___
[x] Semi-VOLATile organic v/TIC	625	[x]	[ ]	4°C	2L	[x]	___/___/___/___
[x] PCB/PEST	608	[x]	[ ]	4°C	2Liter	[x]	___/___/___/___
[x] TAL/TCL metals		[x]	[ ]	HNO3	1Liter	[x]	___/___/___/___
[x] Cyanide	335.2	[x]	[ ]	NAOH	1/2gallon	[x]	___/___/___/___
[x] Gross ALPHA	9310	[x]	[ ]			[x]	___/___/___/___
[x] Gross BETA	9310	[x]	[ ]	HNO3	HNO3	[x]	___/___/___/___
[x] Radium 226	9315	[x]	[ ]			[x]	___/___/___/___
[x] Radium 228	9320	[ ]	[ ]			[x]	___/___/___/___
[ ]		[ ]	[ ]			[x]	___/___/___/___
[ ]		[ ]	[ ]			[ ]	___/___/___/___
[ ]		[ ]	[ ]			[ ]	___/___/___/___

NOTES

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SIGNATURE: _____

ABB ENVIRONMENTAL SERVICES, INC

FIELD DATA RECORD - SURFACE WATER & SEDIMENT

JOB NUMBER: 7555-05 DATE: 2-3-92

PROJECT: NAS JAX OU1

LOCATION ACTIVITY START: 0910 END: 0930

SW SAMPLE LOCATION ID:

SD SAMPLE LOCATION ID: J260292SD022

SURFACE WATER DATA

WATER DEPTH @ SAMPLE LOCATION: FT

DEPTH OF SAMPLE FROM TOP OF WATER: FT

TEMPERATURE: DEG C.

pH .....: UNITS

SPEC. COND.: umhos/cm

TYPE OF SURFACE WATER:
- [ ] STREAM
- [ ] RIVER
- [ ] POND/LAKE
- [ ] SEEP
- [x] OTHER: Ditch

DECONTAMINATION FLUIDS USED:
- [ ] LIQUI-NOX
- [ ] DEIONIZED WATER
- [ ] TSP SOLUTION
- [ ] HEXANE
- [ ] HNO3 SOLUTION
- [ ] POTABLE WATER
- [ ] NONE

EQUIPMENT USED FOR COLLECTION:
- [ ] NONE, GRAB INTO BOTTLE
- [ ] BOMB SAMPLER
- [ ] PUMP

VELOCITY MESUREMENTS OBTAINED:
- [ ] YES, SEE FLOW DATA BELOW
- [x] NO

FIELD QC. DATA: [ ] FIELD DUPLICATE COLLECTED DUP. ID

SAMPLE LOCATION SKETCH BELOW ?
- [ ] YES
- [x] NO

SEDIMENT DATA

DEPTH OF SEDIMENT SAMPLE: 4-6" IN

TYPE OF SAMPLE COLLECTED:
- [x] DISCRETE
- [x] COMPOSITE

SAMPLE OBSERVATIONS:
- [ ] ODOR
- [x] COLORED TAN
- [ ]

TYPE OF SEDIMENT:
- [ ] CLAY
- [ ] SAND
- [ ] ORGANIC
- [ ] GRAVEL
- [x] OTHER: SANDS TRACE CLAY

EQUIPMENT USED FOR COLLECTION:
- [ ] GRAVITY CORER
- [ ] S.S. SPLIT SPOON
- [ ] HAND SPOON
- [ ] ALUMINUM PANS
- [x] S.S. BUCKET
- [ ] DREDGE
- [ ]

DECONTAMINATION FLUIDS USED
- [x] LIQUI-NOX
- [x] DEIONIZED WATER
- [ ] TSP SOLUTION
- [ ] HEXANE
- [ ] HNO3 SOLUTION
- [ ] POTABLE WATER
- [ ] STREAM WATER
- [ ] NONE
- [x] ISO-Propyl Alcohol

FIELD QC DATA: [ ] FIELD DUPLICATE COLLECTED. DUP ID

ANALYTICAL PARAMETERS

	METHOD NUMBER	MATRIX SW	MATRIX SED	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED	SAMPLE BOTTLE ID NUMBERS
[x] VOC w/TIC	8240	[ ]	[x]	4°C	80Z	[x]	/ / /
[x] Semi-Volatile Organic	8270	[ ]	[x]	4°C	80Z	[x]	/ / /
[x] PCB/Pest	8080	[ ]	[x]	4°C		[x]	/ / /
[x] TAL/TCL Metals		[ ]	[x]			[x]	/ / /
[x] Cyanide	DI/Extract	[ ]	[x]	4°C		[x]	/ / /
[x] Gross Alpha	9310	[ ]	[x]	4°C	80Z	[x]	/ / /
[x] Gross Beta	9310	[ ]	[x]	4°C		[x]	/ / /
[x] Radium-226	9315	[ ]	[x]	4°C		[x]	/ / /
[x] Radium-228	9320	[ ]	[x]	4°C		[x]	/ / /
[ ]		[ ]	[ ]			[ ]	/ / /

NOTES

MD 8/9/89

SIGNATURE:

Appendix B
Chain-of-Custody Records

ANALYSIS REQUESTED REFERENCE SHEET

Note: In all places on the Analysis Request Form and the Chain of Custody Form where the type of analysis is requested or the sample type is requested, there is a number inserted. This number refers to the analysis summaries below.

1) Volatile Organic Compounds w/TIC (VOCs) Method 624/8240
   (3- 40 ml glass w/HCl), (2 - 2 oz glass soil)

2) Semi-Volatile Organic Compounds w/TIC Method 625/8270
   (1- 2 liter amber glass), (1 - 8 oz soil)

3) Polychlorinated Biphenols (PCBs) and PESTICIDES Method 608/8080
   (1- 2 liter amber glass), (1 - 8 oz soil)

4) TAL/TCL Metals CLP ICP AND GRAPHITE FURNACE
   (2 - 1 liter plastic w/HNO_3 , non filtered), (8 oz soil)

5) Cyanide Method 335.2/DI EXTRACT
   (1 - 1/2 gal plastic w/NaOH)

6) Radiological Parameters

Gross Alpha	Method 9310
Gross Beta	Method 9310
Radium - 226	Method 9315
Radium - 228	Method 9320

(2 - 1/2 gal plastic w/HNO^3), (1 - 8 oz glass soil)

(1 2L AMBER DIOXIN & FURANS)

CHAIN OF CUSTODY RECORD

20803

PROJECT NO.: 07555-02

PROJECT NAME: NAS JAX

SAMPLERS (SIGNATURE):

ANALYSIS: GRSAB, RA226, RA228

QC LEVEL: 3H DATE DUE: 2/26/92

REPORT TO: E. RAMUCHAK/LMG

SHIP #: Bus LAB: SSE INIT:

STA. NO.	DATE	TIME	COMP.	GRAB	STATION LOCATION	NO. OF CONTAINERS	1	2	3	4	5	6	2-E-13				REMARKS (INDICATE SOIL/WATER/AIR SEDIMENT/SLUDGE)
J2601925W006	1/29/92	1210		✓	NAS JAX	10	3	1	1	2	1	2				001	SURFACE WATER
J2601925SD006	1/29/92	1210	✓			5	2*			1		1	1			002	SEDIMENT
J2601925W007	1/30/92	1020		✓		10	3	1	1	2	1	2				003	SURFACE WATER
J2601925SD007	1/30/92	1020	✓			5	2*			1		1	1			004	SEDIMENT
J2601925W005		1515		✓		10	3	1	1	2	1	2				005	SURFACE WATER
J2601925SD005		1515	✓			5	2*			1		1	1			006	SEDIMENT
J2601925W001		1525		✓		10	3	1	1	2	1	2				007	SURFACE WATER
J2601925SD001		1525	✓			5	2*			1		1	1			008	SEDIMENT
J2601925W001		1535		✓		10	3	1	1	2	1	2				007	SURFACE WATER
J2601925SD001		1535	✓			5	2*			1		1	1			008	SEDIMENT
J2601925W001		1545		✓		10	3	1	1	2	1	2				007	SURFACE WATER
J2601925SD001		1545	✓			5	2*			1		1	1			008	SEDIMENT
J2601925TB001						3	3									009	—
J2601925EB001		1645		✓		10	3	1	1	2	1	2				010	ASTM TYPE I H_2O
J2601925EB001		1645		✓		5	2*			1		1	1				ASTM TYPE I H_2O

RELINQUISHED BY: (SIGNATURE)	DATE/TIME	RECEIVED BY: (SIGNATURE)	RELINQUISHED BY: (SIGNATURE)	DATE/TIME	RECEIVED BY: (SIGNATURE)
RELINQUISHED BY: (SIGNATURE)	DATE/TIME	RECEIVED BY: (SIGNATURE)	RELINQUISHED BY: (SIGNATURE)	DATE/TIME	RECEIVED BY: (SIGNATURE)
	1/30/92 1920	1/31/92			
RELINQUISHED BY: (SIGNATURE)	DATE/TIME	RECEIVED FOR DISPOSAL BY: (SIGNATURE)	DATE/TIME	REMARKS * = GRAB, SOIL SAMPLES	

Driven To FedX, Shipment Sent OUT 1/30/92
7 Coolers
~~Invoice #~~ Airbill # 1637131246

ABB Environmental Services, Inc.

OH-62

21MS-AMS-C2250777 - 2/2/92

000805

CHAIN OF CUSTODY RECORD

20803

PROJECT NO.: 07555-02

PROJECT NAME: NAS JAX

SAMPLERS (SIGNATURE): [signature]

STA. NO.	DATE	TIME	COMP.	GRAB	STATION LOCATION	NO. OF CONTAINERS	SAMPLE TYPE 1	2	3	4	5	6	2-3					REMARKS INDICATE SOIL/WATER/AIR SEDIMENT/SLUDGE
J260192FB001	1/30/92	1750		✓	NAS JAX	10	3	1	1	2	1	2					Oil	ASTM TYPE I H_2O
J260192FB001	1/30/92	1750		✓	NAS JAX	5	2*			1		1	1					ASTM TYPE I H_2O
					Travel Blank - J260192TB001 [illegible]													

ANALYSIS: Reconnaissance

QC LEVEL _____ DATE DUE _____

REPORT TO E. RAMUCHAKA MG

SHIP # [illegible] LAB 5505 INIT AMS 2/4/92

RELINQUISHED BY: (SIGNATURE)	DATE/TIME	RECEIVED BY: (SIGNATURE)	RELINQUISHED BY: (SIGNATURE)	DATE/TIME	RECEIVED BY: (SIGNATURE)
RELINQUISHED BY: (SIGNATURE) [signature]	DATE/TIME 1/30/92 1920	RECEIVED BY: (SIGNATURE) [signature] 1/31/92 0930	RELINQUISHED BY: (SIGNATURE)	DATE/TIME	RECEIVED BY: (SIGNATURE)
RELINQUISHED BY: (SIGNATURE)	DATE/TIME	RECEIVED FOR DISPOSAL BY: (SIGNATURE)	DATE/TIME	REMARKS * = GRAB SAMPLES	

OH-62

ABB Environmental Services, Inc.

LIMS - AMS

908000

HILL QUALITY ANALYTICS

CHAIN OF CUSTODY RECORD

PROJECT NUMBER	PROJECT NAME: NAS JAX
CLIENT NAME: AGG Environmental	
PROJECT MANAGER	COPY TO:
REQUESTED COMP. DATE	SAMPLING REQUIREMENTS: SDWA ☐ NPDES ☐ RCRA ☐ OTHER ____

CLIENT ADDRESS AND PHONE NUMBER

FOR LAB USE ONLY: LAB# 20803; LAB#; PROJECT NO. 2M633486 XYJA; ACK; VERIFIED; QUOTE#; BY; NO. OF SAMP; PG 3 3

STA NO.	DATE	TIME	COMP	GRAB	SOIL	SAMPLE DESCRIPTIONS (12 CHARACTERS)	# OF CONTAINERS	VOAs 1	SV 2	PCB 3	Metals 4	Cyanide 5	Radiol. 6					LAB ID	REMARKS
	1/30/92					SLRFC01MS		✓	✓	✓	✓	✓	✓					M07	
	↓					SLRFC01MSD		✓	✓	✓					water			D07	
						SLRFC01DUP					✓	✓	✓					P07	
	1/30/92					SDRFC01MS		✓	✓	✓	✓	✓	✓					M08	
						SDRFC01MSD		✓	✓	✓					soil			D08	
	↓					SDRFC01DUP					✓	✓	✓					P08	
	1/31/92					BLK SPK/LCS				✓					water			B12	
	↓					BLK SPK/LCS				✓					soil			B13	
	1/31/92					Method blank					✓	✓	✓					Z41	
	↓					Method blank					✓	✓	✓					Z51	

ANALYSIS: Radiologic

QC LEVEL ____ DATE DUE ____

REPORT TO E. RAMUCHAK/LMG

SHIP # ____ LAB Spec INIT GMS 2/4/92

SAMPLED BY AND TITLE	DATE/TIME	RELINQUISHED BY	DATE/TIME	HAZWRAP/NEESA Y N
RECEIVED BY:	DATE/TIME	RELINQUISHED BY:	DATE/TIME	QC LEVEL 1 2 3; COC; ICE
RECEIVED BY:	DATE/TIME	RELINQUISHED BY:	DATE/TIME	ANA REQ; TEMP; CUST SEAL; SAMPLE COND.
RECEIVED BY LAB: [illegible]	DATE/TIME 1/31/92 0930	SAMPLE SHIPPED VIA: UPS BUS FED-EX HAND OTHER ____	AIR BILL#	

REMARKS

ENTERED INTO LIMS [illegible] 2/2/92 COC REVIEWED ____

000807

CHAIN OF CUSTODY RECORD

PROJECT NO.: C7555-02

PROJECT NAME: NAS JAX

SAMPLERS (SIGNATURE):

20807

STA. NO.	DATE	TIME	COMP.	GRAB	STATION LOCATION	NO. OF CONTAINERS	1	2	3	4	5	6	Z-E-3				REMARKS (INDICATE SOIL/WATER/AIR SEDIMENT/SLUDGE)
J260192SW001	1-31-92	0845		✓	NAS JAX	10	3*	1	1	2	1	2				001	SURFACE WATER
J260192SD001		0845	✓			5	2*			1		1	1			002	SEDIMENT
J260192SW003		0935		✓		10	3	1	1	2	1	2				003	SURFACE WATER
J260192SD003		0935	✓			5	2*			1		1	1			004	SEDIMENT
J260192SW004		1050		✓		10	3	1	1	2	1	2				005	SURFACE WATER
J260192SD004		1050	✓			5	2*			1		1	1			006	SEDIMENT
J260192MS002		1120		✓		10	3	1	1	2	1	2				007	SURFACE WATER
J260192MS002		1120	✓			5	2*			1		1	1			008	SEDIMENT
J260192MSD002		1145		✓		10	3	1	1	2	1	2				007	SURFACE WATER
J260192MSD002		1145	✓			5	2*			1		1	1			008	SEDIMENT
J260192RP002		1215		✓		10	3	1	1	2	1	2				007	SURFACE WATER
J260192RP002		1215	✓			5	2*			1		1	1			008	SEDIMENT
J260192EB002		1400		✓		15	5	1	1	3	1	3	1			001	ASTM TYPE 1 H_2O
J260192EB002		1420		✓		15	5	1	1	3	1	3	1			010	ASTM TYPE 1 H_2O
J260192TB002				✓	NAS JAX		3									011	TRAVEL BLANK (VOC)

ANALYSIS: Radiological

QC LEVEL: 3A DATE DUE: 2/24/92

REPORT TO E. RAMUCHAK/LMQ

SHIP #: LAB: SSE INIT: 2/4/92

RELINQUISHED BY: (SIGNATURE)	DATE/TIME	RECEIVED BY: (SIGNATURE)	RELINQUISHED BY: (SIGNATURE)	DATE/TIME	RECEIVED BY: (SIGNATURE)
	1/31/92 1616				
RELINQUISHED BY: (SIGNATURE)	DATE/TIME	RECEIVED BY: (SIGNATURE)	RELINQUISHED BY: (SIGNATURE)	DATE/TIME	RECEIVED BY: (SIGNATURE)
		2/1/92			
RELINQUISHED BY: (SIGNATURE)	DATE/TIME	RECEIVED FOR DISPOSAL BY: (SIGNATURE)	DATE/TIME	REMARKS * indicates grab samples	
				SENT eight coolers FED X marked for SAT. Delivery Airbill # 1637151250	

OH-62

ABB Environmental Services, Inc.

000925

MHILL QUALITY ANALYTICS

20807

CHAIN OF CUSTODY RECORD

PROJECT NUMBER	PROJECT NAME: NAS JAX
CLIENT NAME: APS Environmental	
PROJECT MANAGER	COPY TO:
REQUESTED COMP. DATE	SAMPLING REQUIREMENTS: SDWA ☐ NPDES ☐ RCRA ☐ OTHER ___

CLIENT ADDRESS AND PHONE NUMBER

FOR LAB USE ONLY: LAB# 20807; LAB#; PROJECT NO. LMG 3348 XYJA; ACK; VERIFIED; QUOTE#; BS; NO. OF SAMP; PG 2 OF 2

ANALYSES REQUESTED

STA NO.	DATE	TIME	COMP	GRAB	SOIL	SAMPLE DESCRIPTIONS (12 CHARACTERS)	# OF CONTAINERS	1 VOAs	2 SV	3 PCBs	4 nitrate	5 cyanide	6 Radiol.				LAB ID
	1/31/92					SWRP002MS		✓	✓	✓	✓	✓	✓			water	M07
	↓					SWRP002MSD		✓	✓	✓							D07
						SWRP002DUP					✓	✓	✓				P07
	1/31/92					SDRP002MS		✓	✓	✓	✓	✓	✓			Soil	M08
	↓					SDRP002MSD		✓	✓	✓							D08
						SDRP002DUP					✓	✓	✓				P08
	2/1/92					BLKSPK/LCS				✓						water	B12
	↓					BLK SPK/LCS				✓						soil	B13
	2/1/92					Method blank					✓	✓	✓				ZW1
	↓					Method blank					✓	✓	✓				ZS1

ANALYSIS: Radiological
QC LEVEL: 3H DATE DUE: 2/26
REPORT TO E. RAMUCHAK/LMG
SHIP #: Bmz LAB: SSJE INIT: AHS 2/4/92

SAMPLED BY AND TITLE	DATE/TIME	RELINQUISHED BY	DATE/TIME
RECEIVED BY:	DATE/TIME	RELINQUISHED BY:	DATE/TIME
RECEIVED BY:	DATE/TIME	RELINQUISHED BY:	DATE/TIME
RECEIVED BY LAB:	DATE/TIME 2/1/92 0930	SAMPLE SHIPPED VIA: UPS BUS FED-EX HAND OTHER ___	AIR BILL#

REMARKS: C225 3/2/92

HAZWRAP/NEESA Y N
QC LEVEL 1 2 3
COC
ANA REQ
CUST SEAL
SAMPLE COND.
ICE
TEMP
PH

ENTERED INTO LIMS ___ COC REVIEWED ___

2/2/92

000926

CHAIN OF CUSTODY RECORD

20815

Page 1 of 1

PROJECT NO. 07555-02

PROJECT NAME NAS JAX

SAMPLERS (SIGNATURE)

STA. NO.	DATE	TIME	COMP.	GRAB	STATION LOCATION	NO. OF CONTAINERS	1	2	3	4	5	6	7	8	9		REMARKS INDICATE SOIL/WATER/AIR SEDIMENT/SLUDGE
S2602925W003	2-1-92			✓	NAS JAX	10	3	1	1	2	1	2				001	SURFACE WATER
S2602925D003			✓			5	2*			1		1	1			002	SEDIMENT
S2602925W002				✓		10	3	1	1	2	1	2				003	SURFACE WATER
S2602925D002			✓			5	2*			1		1	1			004	SEDIMENT
S2602925W012				✓		10	3	1	1	2	1	2				005	SURFACE WATER
S2602925D012			✓			5	2*			1		1	1			006	SEDIMENT
26 (MS) S5W0292FB003				✓		10	3	1	1	2	1	2				007	ASTM TYPE I H_2O
26 (MS) S5D0292FB003				✓		5	2			1		1	1				"
26 (MS) S5W0292EB003				✓		10	3	1	1	2	1	2				008	"
26 (MS) S5D0292EB003				✓		5	2			1		1	1				"
S2602927B003						3	1									009	TRIP BLANK
																ZN1	
																ZS1	
																B10	water
																B11	soil

ANALYSIS Rawlings

QC LEVEL 3A DATE DUE 2/24/92

REPORT TO E. RAMUCHAKA/MG

SHIP VIA Bus LAB SSE INIT AMS 2/4/92

20815

LME-33486 x4.59 AMS 2/4/92

Yes Yes Yes

Yes DOC Yes see above

water/soil

RELINQUISHED BY: (SIGNATURE)	DATE/TIME	RECEIVED BY: (SIGNATURE)	RELINQUISHED BY: (SIGNATURE)	DATE/TIME	RECEIVED BY: (SIGNATURE)
	2/1/92 1549				
RELINQUISHED BY: (SIGNATURE)	DATE/TIME	RECEIVED BY: (SIGNATURE)	RELINQUISHED BY: (SIGNATURE)	DATE/TIME	RECEIVED BY: (SIGNATURE)
RELINQUISHED BY: (SIGNATURE)	DATE/TIME	RECEIVED FOR DISPOSAL BY: (SIGNATURE)	DATE/TIME	REMARKS * INDICATES GRAB SAMPES SENT 5 coolers VIA FEDX 1637151261	

ABB Environmental Services, Inc.

OH-62

LMS-C2365229 - AMS - 2/3/92

0013112

CHAIN OF CUSTODY RECORD

PROJECT NO.

PROJECT NAME: NASJAX

SAMPLERS (SIGNATURE)

LRD # 32092 H_2O
LRD # 32096 SED

STA. NO.	DATE	TIME	COMP.	GRAB	STATION LOCATION	NO. OF CONTAINERS	1	2	3	4	5	6	2 & 3					REMARKS: INDICATE SOIL/WATER/AIR SEDIMENT/SLUDGE
✓ J2602925W015	2-2-92	1100		✓	NASJAX	10	3	1	1	2	1	2						SURFACE WATER
J2602925D015		1100	✓			5	2*			1		1	1					SEDIMENT
✓ J2602925W013		1131		✓		10	3	1	1	2	1	2						SURFACE WATER
J2602925D013		1131	✓			5	2*			1		1	1					SEDIMENT
✓ J2602925W011		1251		✓		10	3	1	1	2	1	2						SURFACE WATER
J2602925D011		1251	✓			TW 15	2*			1		1	1					SEDIMENT
✓ J2602925W014		1515		✓		10	3	1	1	2	1	2						SURFACE WATER
J2602925D014		1515	✓			5	2*			1	1		1					SEDIMENT
✓ J2602925W017		1545		✓		10	3	1	1	2	1	2						SURFACE WATER
J2602925D017		1545	✓			5	2*			1	1		1					SEDIMENT
✓ J2602925W018		1630		✓		10	3	1	1	2	1	2						SURFACE WATER
J2602925D018		1630	✓			5	2*			1	1		1					SEDIMENT
✓ J2602925W019		1705		✓		10	3	1	1	2	1	2						SURFACE WATER
J2602925D019		1705	✓			5	2*			1	1		1					SEDIMENT

RELINQUISHED BY: (SIGNATURE)	DATE/TIME	RECEIVED BY: (SIGNATURE)	RELINQUISHED BY: (SIGNATURE)	DATE/TIME	RECEIVED BY: (SIGNATURE)
	2/3/92 1821			2/5/92 1000	
RELINQUISHED BY: (SIGNATURE)	DATE/TIME	RECEIVED BY: (SIGNATURE)	RELINQUISHED BY: (SIGNATURE)	DATE/TIME	RECEIVED BY: (SIGNATURE)
RELINQUISHED BY: (SIGNATURE)	DATE/TIME	RECEIVED FOR DISPOSAL BY: (SIGNATURE)	DATE/TIME	REMARKS	
				* - GRAB SAMPLES 15 ~~Coolers~~ Ice Chests SENT FED-EXPRESS AIR BILL # 1637151272	

ABB Environmental Services, Inc.

OH-62

001070

CHAIN OF CUSTODY RECORD

PROJECT NO.

PROJECT NAME

SAMPLERS (SIGNATURE)

LRD# 32092 H2O
LRD# 32096 SED

STA. NO.	DATE	TIME	COMP.	GRAB	STATION LOCATION	NO. OF CONTAINERS	1	2	3	4	5	6	2 & 3					REMARKS (INDICATE SOIL/WATER/AIR SEDIMENT/SLUDGE)
JSW0292EB004	2-2-92	1730		✓	NASJAX	10	3	1	1	2	1	2						SURFACE WATER
JSD0292EB004	2-2-92	1730		✓		5	2*			1		1	1					SEDIMENT
J2602925W001	2-3-92	1259		✓		10	3	1	1	2	1	2						SURFACE WATER
J2602925D001	2-3-92	1259	✓			5	2*			1		1	1					SEDIMENT
J2602925W020		0820		✓	broken on receipt	10	3	1	1	2	1	2						SURFACE WATER
J2602925D020		0820	✓			5	2*			1		1	1					SEDIMENT
J2602925W021		1015		✓		10	3	1	1	2	1	2						SURFACE WATER
J2602925D021		1015	✓			5	2*			1		1	1					SEDIMENT
J2602925W022		0910		✓		10	3	1	1	2	1	2						SURFACE WATER
J2602925D022		0910	✓			5	2*			1		1	1					SEDIMENT
J2602925W023		0940		✓		10	3	1	1	2	1	2						SURFACE WATER
J2602925D023		0940	✓			5	2*			1		1	1					SEDIMENT
J2602925W024		1430		✓		10	3	1	1	2	1	2						SURFACE WATER
J2602925D024		1430	✓			5	2*			1		1	1					SEDIMENT

RELINQUISHED BY: (SIGNATURE)	DATE/TIME	RECEIVED BY: (SIGNATURE)	RELINQUISHED BY: (SIGNATURE)	DATE/TIME	RECEIVED BY: (SIGNATURE)
	2/3/92 1842			2/5/92 1000	
RELINQUISHED BY: (SIGNATURE)	DATE/TIME	RECEIVED BY: (SIGNATURE)	RELINQUISHED BY: (SIGNATURE)	DATE/TIME	RECEIVED BY: (SIGNATURE)
RELINQUISHED BY: (SIGNATURE)	DATE/TIME	RECEIVED FOR DISPOSAL BY: (SIGNATURE)	DATE/TIME	REMARKS	

001074

OH-62

ABB Environmental Services, Inc.

CHAIN OF CUSTODY RECORD

PROJECT NO.: 07555-02

PROJECT NAME: NASJAX

SAMPLERS (SIGNATURE):

LRD# 32092 H2O
LRD# 32096 SED

STA. NO.	DATE	TIME	COMP.	GRAB	STATION LOCATION	NO. OF CONTAINERS	1	2	3	4	5	6	7	8	9	10	11	REMARKS (INDICATE SOIL/WATER/AIR SEDIMENT/SLUDGE)
✓J2602925W025	1450			✓		10	3	1	1	2	1	2						SURFACE WATER
J2602925D025	1450		✓			5	2*			1		1	1					SEDIMENT
✓J2602925W026	1510			✓		10	3	1	1	2	1	2						SURFACE WATER
J2602925D026	1510		✓			5	2*			1		1	1					SEDIMENT
✓JSW0292RP003	1530			✓		10	3	1	1	2	1	2						SURFACE WATER
JSD0292RP003	1530		✓			5	2*			1		1	1					SEDIMENT
✓JSW0292EB005	1700			✓		10	3	1	1	2	1	2						ASTM TYPE I H_2O
JSD0292EB005	1700			✓		5	2*			1		1	1					ASTM TYPE I H_2O
✓J2602927B004						3	3											—
J2602927B005						3	3											—

RELINQUISHED BY: (SIGNATURE)	DATE/TIME	RECEIVED BY: (SIGNATURE)	RELINQUISHED BY: (SIGNATURE)	DATE/TIME	RECEIVED BY: (SIGNATURE)
	2/3/92 1841			2/5/92 1000	
RELINQUISHED BY: (SIGNATURE)	DATE/TIME	RECEIVED BY: (SIGNATURE)	RELINQUISHED BY: (SIGNATURE)	DATE/TIME	RECEIVED BY: (SIGNATURE)
RELINQUISHED BY: (SIGNATURE)	DATE/TIME	RECEIVED FOR DISPOSAL BY: (SIGNATURE)	DATE/TIME	REMARKS	

ABB Environmental Services, Inc.

OH-6

001072

CHAIN OF CUSTODY RECORD

Water 32114 / Soil 32115

PROJECT NO.: 07555-02

PROJECT NAME: NAS JAX

SAMPLERS (SIGNATURE): [signature]

STA. NO.	DATE	TIME	COMP.	GRAB	STATION LOCATION	NO. OF CONTAINERS	1	2	3	4	5	6	2 & 3				Water 32114	Soil 32115	REMARKS INDICATE SOIL/WATER/AIR SEDIMENT/SLUDGE
JSW ~~JSD~~0292 EB006	2/4/92	1800		✓	NAS JAX	5	2*			1		1	1				2		WATER
JSW0292 TB006	—	—		✓	NAS JAX	3	3										11		WATER
J260292 SW032	2/4/92	1501		✓	NAS JAX	10	3	1	1	2	1	2					9		Surface WATER
J260292 SD032	2/4/92	1501	✓		NAS JAY	5	2*			1		1	1						SEDiment
J260292 SW033	2/4/92	1535		✓	NAS JAX	10	3	1	1	2	1	2					10		Surface water
J260292 SD033	2/4/92	1535	✓		NAS JAX	5	2*			1		1	1						SEDiment.

RELINQUISHED BY: (SIGNATURE)	DATE / TIME	RECEIVED BY: (SIGNATURE)	RELINQUISHED BY: (SIGNATURE)	DATE / TIME	RECEIVED BY: (SIGNATURE)
[signature]	2/4/92 1345			2/5/92 1000	Cindy Barba
RELINQUISHED BY: (SIGNATURE)	DATE / TIME	RECEIVED BY: (SIGNATURE)	RELINQUISHED BY: (SIGNATURE)	DATE / TIME	RECEIVED BY: (SIGNATURE)
RELINQUISHED BY: (SIGNATURE)	DATE / TIME	RECEIVED FOR DISPOSAL BY: (SIGNATURE)	DATE / TIME	REMARKS * Indicates GRAB Fed Ex 1924254452	

009008

C-E Environmental, Inc.

CHAIN OF CUSTODY RECORD

water 32114 / soil 32115

PROJECT NO.: 07555-02

PROJECT NAME: NAS JAX

SAMPLERS (SIGNATURE):

STA. NO.	DATE	TIME	COMP.	GRAB	STATION LOCATION	NO. OF CONTAINERS	1	2	3	4	5	6	2 & 3				Water 32114	Soil 32115	REMARKS INDICATE SOIL/WATER/AIR SEDIMENT/SLUDGE
J260292SW01	2/4/92	930		✓	NAS JAX	10	3	1	1	2	1	2					3		Surface water
J260292SD01	2/4/92	930	✓		NAS JAX	5	2*			1		1	1						Sediment
J260292SW03	2/4/92	1208		✓	NAS JAX no container for cyanide received	10	~~3~~ 2	1	1	2	(1)	2					8		Surface water
J260292-SD031	2/4/92	1208	✓		NAS JAX	5	2*			1		1	1						Sediment
J260292 SW028	2/4/92	1225		✓	NAS JAX	10	3	1	1	2	1	2					5		Surface water
J260292 SD028	2/4/92	1225	✓		NAS JAX	5	2*			1		1	1						Sediment
J260292 SW029	2/4/92	1252		✓	NAS JAX	10	3	1	1	2	1	2					6		Surface water
J260292 SD029	2/4/92	1252	✓		NAS JAX	5	2*			1		1	1						Sediment
J260292 SW030	2/4/92	1400		✓	NAS JAX	10	3	1	1	2	1	2					7		Surface water
J260292 SD030	2/4/92	1400	✓		NAS JAX	5	2*			1		1	1						Sediment
J260292 SW027	2/4/92	1455		✓	NAS JAX broken on receipt	10	3	(1)	1	2	1	2					4		Surface water
J260292 SD027	2/4/92	1455	✓		NAS JAX	5	2*			1		1	1						Sediment
SW → J260292 RP004	2/4/92			✓	NAS JAX	10	3	1	1	2	1	2					1		Surface water
SD → J260292 RP004	2/4/92		✓		NAS JAX	5	2*			1		1	1					1	Sediment
J260292 EB000	2/4/92	1800		✓	NAS JAX	10	3	1	1	2	1	2					2		WATER

RELINQUISHED BY: (SIGNATURE)	DATE / TIME	RECEIVED BY: (SIGNATURE)	RELINQUISHED BY: (SIGNATURE)	DATE / TIME	RECEIVED BY: (SIGNATURE)
	2/4/92 1845			2/5/92 1000	LAB Cindy Baba
RELINQUISHED BY: (SIGNATURE)	DATE / TIME	RECEIVED BY: (SIGNATURE)	RELINQUISHED BY: (SIGNATURE)	DATE / TIME	RECEIVED BY: (SIGNATURE)
RELINQUISHED BY: (SIGNATURE)	DATE / TIME	RECEIVED FOR DISPOSAL BY: (SIGNATURE)	DATE / TIME	REMARKS * Indicates grab sample. 9 Coolers SENT via fed X Airbill # 192425445	

F-9000

C-E Environmental, Inc.

CH2M HILL QUALITY ANALYTICS

CHAIN OF CUSTODY RECORD

NOTE 2 COOLERS

PROJECT NUMBER	PROJECT NAME
7555.02	NAS JAX OU1

CLIENT NAME: ABB-ES

PROJECT MANAGER: GREG BROWN

COPY TO:

REQUESTED COMP. DATE: 21 WORKING DAYS

SAMPLING REQUIREMENTS: SDWA ☐ NPDES ☐ RCRA ☐ OTHER ____

CLIENT ADDRESS AND PHONE NUMBER: 1-800 462-3073
ABB-ES
2590 Executive Cntr E
TALL, FLA 32301

ANALYSES REQUESTED

STA NO.	DATE	TIME	COMP	GRAB	SOIL	SAMPLE DESCRIPTIONS (12 CHARACTERS)	# OF CONTAINERS	VOAS Analysis #1	Semi VOAS Analysis #2	PCBs Pest Analysis #3	TAL TCL METALS Analysis #4	CYANIDE Analysis #5	RADIOLOGICAL Analysis #6					LAB ID	REMARKS
	2/10/92	1300				JSD0292EB001	10	3	1	1	2	1	2					1	Equip Blank after 031 (Sediment) Spoon, Bowl, Auger
	2/10/92	1335				J2602925D011	5	2	1	1	1		1					2	2nd Sample @ Site 011 for QC on Equipment Blanks (Sediment)
	2/10/92	1600				JSD0292EB002	~~5~~ 10	~~2~~ 3	~~1~~ 1	~~1~~ 1	~~1~~ 2	1	~~1~~ 2					3	Equip Blank after site 011 (Sediment) spoon, bowl, auger
	2/10/92	1420				JSW0292SW031 (26)	1					1							Surface water for cyanide preserved with NaOH

FOR LAB USE ONLY

LAB#	32152
LAB#	
PROJECT NO.	
ACK	VERIFIED
QUOTE#	BS
NO. OF SAMP	PG / OF

SAMPLED BY AND TITLE: Kathy Like FOL	DATE/TIME: 2-10-92 1300-1420 P.M.	RELINQUISHED BY: Kathy Wainwright	DATE/TIME: 2-10-92 1800 P.M.
RECEIVED BY:	DATE/TIME	RELINQUISHED BY:	DATE/TIME
RECEIVED BY:	DATE/TIME	RELINQUISHED BY:	DATE/TIME
RECEIVED BY LAB: Bryan Jones	DATE/TIME: 2-12-92 0930	SAMPLE SHIPPED VIA: UPS BUS FED-EX HAND OTHER ____	AIR BILL#: 1924254124

HAZWRAP/NEESA Y N
QC LEVEL 1 2 3
COC Y ICE Y
ANA REQ Y TEMP 2°C
CUST SEAL Y Ph
SAMPLE COND.

REMARKS: Attn MARK CICHY

ENTERED INTO LIMS: COC

Appendix C-1
Analytical Summary Tables
For
Volatile Organic Compounds

APPENDIX C-1
SUMMARY OF SURFACE WATER ANALYTICAL RESULTS
VOLATILE ORGANIC COMPOUNDS
NAVAL AIR STATION, JACKSONVILLE FLORIDA, OPERABLE UNIT 1
FEBRUARY 1992

Sample ID No.	1,1,1-Tri-chloroethane	1,1,2,2-Tetra-chloroethane	1,1,2-Tri-chloroethane	1,1-Dichloro-ethane	1,1-Dichloro-ethene	1,2-Dichloro-ethane	1,2-Dichloro-ethene	1,2-Dichloro-propane	2-Butanone	2-Hexanone
Florida Class II(a)/ Florida MCL(b)	*173000/ 200 ug/L*	*10.8/ --- ug/L*	*---/ ---*	*---/ ---*	*3.2/ 7 ug/L*	*---/ 3 ug/L*	*---/ ---*	*---/ ---*	*---/ ---*	*---/ ---*
Federal CWA(c)/ Federal MCL(d)	*18400/ 200 ug/L*	*0.17/ --- ug/L*	*0.6/ 5 ug/L*	*---/ ---*	*0.033/ 7 ug/L*	*0.94 5 ug/L*	*---/ 70 ug/L*	*---/ 5 ug/L*	*---/ ---*	*---/ ---*
SW001	<5	<5	<5	<5	<5	<5	<5	<5	<10	<10
SW002	<5	<5	<5	<5	<5	<5	<5	<5	<10	<10
SW003	<5	<5	<5	<5	<5	<5	19	<5	<10	<10
SW004	<5	<5	<5	<5	<5	<5	<5	<5	<10	<10
SW005	<5	<5	<5	<5	<5	<5	4 J	<5	<10	<10
SW006	<5	<5	<5	<5	<5	<5	<5	<5	<10	<10
SW007	<5	<5	<5	<5	<5	<5	<5	<5	<10	<10
SW008	<5	<5	<5	<5	<5	<5	<5	<5	<10	<10
SW009	<5	<5	<5	<5	<5	<5	<5	<5	<10	<10
SW011	<5	<5	<5	<5	<5	<5	28	<5	<10	<10
SW012	<5	<5	<5	<5	<5	<5	<5	<5	<10	<10
SW013	<5	<5	<5	<5	<5	<5	9	<5	<10	<10
SW014	<5	<5	<5	<5	<5	<5	12	<5	<10	<10
SW015	<5	<5	<5	<5	<5	<5	1 J	<5	<10 UJ	<10
SW016	<5	<5	<5	<5	<5	<5	<5	<5	<10	<10
SW017	<5	1 J	<5	<5	<5	<5	13	<5	<10 UJ	<10
SW018	<5	<5	<5	<5	<5	<5	<5	<5	<10 UJ	<10
SW019	<5	2 J	<5	<5	<5	<5	8	<5	<10 UJ	<10
SW020	<5	<5	<5	<5	<5	<5	2 J	<5	<10 UJ	<10
SW021	<5	<5	<5	<5	<5	<5	4 J	<5	<10 UJ	<10
SW022	<5	<5	<5	<5	<5	<5	<5	<5	<10 UJ	<10
SW023	<5	<5	<5	<5	<5	<5	2 J	<5	<10 UJ	<10
SW024	<5	<5	<5	<5	<5	<5	<5	<5	<10 UJ	<10
SW025	<5	<5	<5	<5	<5	<5	<5	<5	<10 UJ	<10
SW026	<5	<5	<5	<5	<5	<5	<5	<5	<10 UJ	<10
SW027	<5	<5	<5	<5	<5	<5	<5	<5	<10	<10
SW028	<5	<5	<5	<5	<5	<5	<5	<5	<10	<10
SW029	<5	<5	<5	<5	<5	<5	<5	<5	<10	<10
SW030	<5	<5	<5	<5	<5	<5	<5	<5	<10	<10
SW031	<5	<5	<5	<5	<5	<5	<5	<5	<10	<10
SW032	<5	<5	<5	<5	<5	<5	<5	<5	<10	<10
SW033	<5	<5	<5	<5	<5	<5	<5	<5	<10	<10

Notes:
1. All results are reported in micrograms per liter (ug/L). The less-than sign (<) signifies the compound was not detected at the contract required quantitation limit (CRQL) or at the detection limit (DL). The number following the '<' sign is the actual CRQL or DL.
2. The shaded values represent positive detections of the particular compound.
(a) Florida Department of Environmental Regulation Chapter 17.302 Florida Administrative Code (FAC), "Surface Water Quality Standards," February 1992.
(b) Florida Department of Environmental Regulation Chapter 17.550 Florida Administrative Code (FAC), "Safe Drinking Water Act," January 1991.
(c) U.S. Environmental Protection Agency, "Water Quality Criteria Summary," Office of Science and Technology, Health and Ecological Criteria Division, Washington, D.C., May 1991.
(d) U.S. Environmental Protection Agency, SDWA National Primary Drinking Water Regulations per 40 CFR 141: Maximum Contaminant Levels. Last updated on July 17, 1992.
"UJ" Signifies the quantitation limit was estimated and the compound was not detected. The estimated limit follows the '<' sign.
"J" Signifies the compound was detected at an estimated concentration.
"R" Signifies that the data point was rejected during data validation under the Contract Lab Program (CLP).

APPENDIX C–1
SUMMARY OF SURFACE WATER ANALYTICAL RESULTS
VOLATILE ORGANIC COMPOUNDS
NAVAL AIR STATION, JACKSONVILLE FLORIDA, OPERABLE UNIT 1
FEBRUARY 1992

Sample ID No.	4–Methyl–2–pentanone	Acetone	Benzene	Bromoform	Bromomethane	Carbon Disulfide	Carbon tetra–chloride	Chlorobenzene	Chloroethane	Chloroform
Florida Class II(a)/ Florida MCL(b)	---/ ---	---/ ---	*71.28/ 1 ug/L*	*470.8/ 100 ug/L*	---/ ---	---/ ---	*4.42/ 3 ug/L*	---/ ---	---/ ---	*470.8/ 100 ug/L*
Federal CWA(c)/ Federal MCL(d)	---/ ---	---/ ---	*0.66/ 5 ug/L*	---/ *100 ug/L*	---/ ---	---/ ---	*0.4/ 5 ug/L*	*50/ 100 ug/L*	---/ ---	*0.19/ 100 ug/L*
SW001	<10	<10	<5	<5	<10	<5	<5	<5	<10	<5
SW002	<10	<10	<5	<5	<10	<5	<5	<5	<10	<5
SW003	<10	<10	<5	<5	<10	<5	<5	<5	<10	<5
SW004	<10	<10	<5	<5	<10	<5	<5	<5	<10	<5
SW005	<10	<10	<5	<5	<10	<5	<5	<5	<10	<5
SW006	<10	<10	<5	<5	<10	<5	<5	<5	<10	<5
SW007	<10	<10	<5	<5	<10	<5	<5	<5	<10	<5
SW008	<10	<10	<5	<5	<10	<5	<5	<5	<10	<5
SW009	<10	<10	<5	<5	<10	<5	<5	<5	<10	<5
SW011	**10**	<23	<5	<5	<10	<5	<5	**2** J	<10	<5
SW012	<10	<10	<5	<5	<10	<5	<5	<5	<10	<5
SW013	<10	<10	<5	<5	<10	<5	<5	<5	<10	<5
SW014	<10	<10	**4** J	<5	<10	<5	<5	**1** J	<10	<5
SW015	<10	**7** J	<5	<5	<10	<5	<5	<5	<10	<5
SW016	<10	<10	<5	<5	<10	<5	<5	<5	<10	<5
SW017	<10	**4** J	<5	<5	<10	<5	<5	<5	<10	<5
SW018	<10	**3** J	<5	<5	<10	<5	<5	<5	<10	<5
SW019	<10	**4** J	<5	<5	<10	<5	<5	<5	<10	<5
SW020	<10	**18** J	<5	<5	<10	<5	<5	<5	<10	<5
SW021	<10	**4** J	<5	<5	<10	<5	<5	<5	<10	<5
SW022	<10	**4** J	<5	<5	<10	<5	<5	<5	<10	<5
SW023	<10	**6** J	<5	<5	<10	<5	<5	<5	<10	<5
SW024	<10	<10 UJ	<5	<5	<10	<5	<5	<5	<10	<5
SW025	<10	**7** J	<5	<5	<10	<5	<5	<5	<10	<5
SW026	<10	**5** J	<5	<5	<10	<5	<5	<5	<10	<5
SW027	<10	<10	<5	<5	<10	<5	<5	<5	<10	<5
SW028	<10	<10	<5	<5	<10	<5	<5	<5	<10	<5
SW029	<10	<10	<5	<5	<10	<5	<5	<5	<10	<5
SW030	<10	<10	<5	<5	<10	<5	<5	<5	<10	<5
SW031	<10	<10	<5	<5	<10	<5	<5	<5	<10	<5
SW032	<10	<18	<5	<5	<10	<5	<5	<5	<10	<5
SW033	<10	<10	<5	<5	<10	<5	<5	<5	<10	<5

Notes:
1. All results are reported in micrograms per liter (ug/L). The less–than sign (<) signifies the compound was not detected at the contract required quantitation limit (CRQL) or at the detection limit (DL). The number following the '<' sign is the actual CRQL or DL.
2. The shaded values represent positive detections of the particular compound.

(a) Florida Department of Environmental Regulation Chapter 17.302 Florida Administrative Code (FAC), "Surface Water Quality Standards," February 1992.
(b) Florida Department of Environmental Regulation Chapter 17.550 Florida Administrative Code (FAC), "Safe Drinking Water Act," January 1991.
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APPENDIX C-1
SUMMARY OF SURFACE WATER ANALYTICAL RESULTS
VOLATILE ORGANIC COMPOUNDS
NAVAL AIR STATION, JACKSONVILLE FLORIDA, OPERABLE UNIT 1
FEBRUARY 1992

Sample ID No.	Chloromethane	Dibromo-chloromethane	Dichloro-bromomethane	Ethyl acetate	Ethylbenzene	Methylene chloride	Styrene	Tetrachloro-ethene	Toluene	Trichloro-ethene
Florida Class II(a)/	*470.8/*	*470.8/*	*470.8/*	*---/*	*---/*	*1580/*	*---/*	*---/*	*---/*	*80.7/*
Florida MCL(b)	*--- ug/L*	*100 ug/L*	*100 ug/L*	*---*	*---*	*--- ug/L*	*---*	*3 ug/L*	*---*	*3 ug/L*
Federal CWA(c)/	*---/*	*---/*	*---/*	*---/*	*1400/*	*---/*	*---*	*0.8/*	*14300/*	*2.7/*
Federal MCL(d)	*---*	*100 ug/L*	*100 ug/L*	*---*	*700 ug/L*	*5 ug/L*	*100 ug/L*	*5 ug/L*	*1000 ug/L*	*5 ug/L*
SW001	<10	<5	<5	<50	<5	<15	<5	<5	<5	<5
SW002	<10	<5	<5	<50	<5	<5	<5	<5	<5	<5
SW003	<10	<5	<5	<50	<5	<5	<5	17	<5	14
SW004	<10	<5	<5	<50	<5	<5	<5	<5	<5	<5
SW005	<10	<5	<5	<50	<5	<9	<5	<5	<5	<5
SW006	<10	<5	<5	<50	<5	<5	<5	<5	<5	<5
SW007	<10	<5	<5	<50	<5	<5	<5	<5	<5	<5
SW008	<10	<5	<5	<50	<5	<5	<5	<5	<5	<5
SW009	<10	<5	<5	<50	<5	<5	<5	<5	<5	<5
SW011	<10	<5	<5	<50	<5	<150	<5	<5	2 J	1 J
SW012	<10	<5	<5	<50	<5	<5	<5	<5	<5	<5
SW013	<10	<5	<5	<50	<5	<40	<5	<5	<5	<5
SW014	<10	<5	<5	<50	2 J	<10	<5	<5	<5	3 J
SW015	<10	<5	<5	<50	<5	<10 UJ	<5	<5	<5	<5
SW016	<10	<5	<5	<50	<5	<9	<5	<5	<5	<5
SW017	<10	<5	<5	<50	<5	<9 UJ	<5	<5	<5	37
SW018	<10	<5	<5	<50	<5	<9 UJ	<5	<5	<5	<5
SW019	<10	<5	<5	<50	<5	<9 UJ	<5	<5	<5	22
SW020	<10	<5	<5	<50	<5	<10 UJ	<5	<5	<5	5
SW021	<10	<5	<5	<50	<5	<10 UJ	<5	<5	<5	1 J
SW022	<10	<5	<5	<50	<5	<9 UJ	<5	<5	<5	<5
SW023	<10	<5	<5	<50	<5	<13 UJ	<5	<5	<5	<5
SW024	<10	<5	<5	<50	<5	<13 UJ	<5	<5	<5	<5
SW025	<10	<5	<5	<50	<5	<12 UJ	<5	<5	<5	<5
SW026	<10	<5	<5	<50	<5	<13 UJ	<5	<5	<5	<5
SW027	<10	<5	<5	<50	<5	<14	<5	<5	<5	<5
SW028	<10	<5	<5	<50	<5	<13	<5	<5	<5	<5
SW029	<10	<5	<5	<50	<5	<13	<5	<5	<5	<5
SW030	<10	<5	<5	<50	<5	<14	<5	<5	<5	<5
SW031	<10	<5	<5	<50	<5	<14	<5	<5	<5	<5
SW032	<10	<5	<5	<50	<5	<15	<5	<5	<5	<5
SW033	<10	<5	<5	<50	<5	<13	<5	<5	<5	<5

Notes:
1. All results are reported in micrograms per liter (ug/L). The less-than sign (<) signifies the compound was not detected at the contract required quantitation limit (CRQL) or at the detection limit (DL). The number following the '<' sign is the actual CRQL or DL.
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(b) Florida Department of Environmental Regulation Chapter 17.550 Florida Administrative Code (FAC), "Safe Drinking Water Act," January 1991.
(c) U.S. Environmental Protection Agency, "Water Quality Criteria Summary," Office of Science and Technology, Health and Ecological Criteria Division, Washington, D.C., May 1991.
(d) U.S. Environmental Protection Agency, SDWA National Primary Drinking Water Regulations per 40 CFR 141: Maximum Contaminant Levels. Last updated on July 17, 1992.
"UJ" Signifies the quantitation limit was estimated and the compound was not detected. The estimated limit follows the '<' sign.
"J" Signifies the compound was detected at an estimated concentration.
"R" Signifies that the data point was rejected during data validation under the Contract Lab Program (CLP).

APPENDIX C-1
SUMMARY OF SURFACE WATER ANALYTICAL RESULTS
VOLATILE ORGANIC COMPOUNDS
NAVAL AIR STATION, JACKSONVILLE FLORIDA, OPERABLE UNIT 1
FEBRUARY 1992

Sample ID No.	Vinyl Acetate	Vinyl chloride	Xylenes (total)	cis-1,3-Di-chloropropene	n-Butyl acetate	trans-1,3-Di-chloropropene
Florida Class II(a)/	---/	---/	---/	---/	---/	---/
Florida MCL(b)	---	*1 ug/L*	---	---	---	---
Federal CWA(c)/	---/	2/	---/	---/	---/	---/
Federal MCL(d)	---	*2 ug/L*	*10000 ug/L*	---	---	---
SW001	<10	<10	<5	<5	<50	<5
SW002	<10	<10	<5	<5	<50	<5
SW003	<10	<10	<5	<5	<50	<5
SW004	<10	<10	<5	<5	<50	<5
SW005	<10	<10	<5	<5	<50	<5
SW006	<10	<10	<5	<5	<50	<5
SW007	<10	<10	<5	<5	<50	<5
SW008	<10	<10	<5	<5	<50	<5
SW009	<10	<10	<5	<5	<50	<5
SW011	<10	5 J	<5	<5	<50	<5
SW012	<10	<10	<5	<5	<50	<5
SW013	<10	<10	<5	<5	<50	<5
SW014	<10	7 J	<5	<5	<50	<5
SW015	<10	<10	<5	<5	<50	<5
SW016	<10	<10	<5	<5	<50	<5
SW017	<10	<10	<5	<5	<50	<5
SW018	<10	<10	<5	<5	<50	<5
SW019	<10	<10	<5	<5	<50	<5
SW020	<10	<10	<5	<5	<50	<5
SW021	<10	<10	<5	<5	<50	<5
SW022	<10	<10	<5	<5	<50	<5
SW023	<10	<10	<5	<5	<50	<5
SW024	<10	<10	<5	<5	<50	<5
SW025	<10	<10	<5	<5	<50	<5
SW026	<10	<10	<5	<5	<50	<5
SW027	<10	<10	<5	<5	<50	<5
SW028	<10	<10	<5	<5	<50	<5
SW029	<10	<10	<5	<5	<50	<5
SW030	<10	<10	<5	<5	<50	<5
SW031	<10	<10	<5	<5	<50	<5
SW032	<10	<10	<5	<5	<50	<5
SW033	<10	<10	<5	<5	<50	<5

Notes:
1. All results are reported in micrograms per liter (ug/L). The less-than sign (<) signifies the compound was not detected at the contract required quantitation limit (CRQL) or at the detection limit (DL). The number following the '<' sign is the actual CRQL or DL.
2. The shaded values represent positive detections of the particular compound.
(a) Florida Department of Environmental Regulation Chapter 17.302 Florida Administrative Code (FAC), "Surface Water Quality Standards," February 1992.
(b) Florida Department of Environmental Regulation Chapter 17.550 Florida Administrative Code (FAC), "Safe Drinking Water Act," January 1991.
(c) U.S. Environmental Protection Agency, "Water Quality Criteria Summary," Office of Science and Technology, Health and Ecological Criteria Division, Washington, D.C., May 1991.
(d) U.S. Environmental Protection Agency, SDWA National Primary Drinking Water Regulations per 40 CFR 141: Maximum Contaminant Levels. Last updated on July 17, 1992.
"UJ" Signifies the quantitation limit was estimated and the compound was not detected. The estimated limit follows the '<' sign.
"J" Signifies the compound was detected at an estimated concentration.
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APPENDIX C-1
SUMMARY OF SEDIMENT ANALYTICAL RESULTS
VOLATILE ORGANIC COMPOUNDS
NAVAL AIR STATION, JACKSONVILLE FLORIDA, OPERABLE UNIT 1
FEBRUARY 1992

Sample ID No.	1,1,1-Tri-chloroethane	1,1,2,2-Tetra-chloroethane	1,1,2-Tri-chloroethane	1,1-Dichloro-ethane	1,1-Dichloro-ethene	1,2-Dichloro-ethane	1,2-Dichloro-ethene	1,2-Dichloro-propane	2-Butanone	2-Hexanone
Florida Sediment Qual. Guideline(a)	---	---	---	---	---	---	---	---	---	---
SD001	<7	<7	<7	<7	<7	<7	<7	<7	14 R	<14
SD002	<6	<6	<6	<6	<6	<6	<6	<6	<13	<13
SD003	<6	<6	<6	<6	<6	<6	<6	<6	22	<12
SD004	<7	<7	<7	<7	<7	<7	<7	<7	<13	<13
SD005	<7	<7	<7	<7	<7	<7	<7	<7	<15	<14
SD006	<6	<6	<6	<6	<6	<6	<6	<6	<18	<13
SD007	<19	<19	<19	<19	<19	<19	<19	<19	<39	<39
SD008	<6	<6	<6	<6	<6	<6	<6	<6	<13	<13
SD009	<6	<6	<6	<6	<6	<6	<6	<6	<12	<12
SD011	<6	<6	<6	<6	<6	<6	<6	<6	<12	<12
SD011	<6	<6	<6	<6	<6	<6	<6	<6	<13	<13
SD012	<7	<7	<7	<7	<7	<7	<7	<7	22	<14
SD013	<7	<7	<7	<7	<7	<7	<7	<7	<13	<13
SD014	<7	<7	<7	<7	<7	<7	7	<7	14 R	<14
SD015	<7	<7	<7	<7	<7	<7	<7	<7	14 R	<14
SD016	<6	<6	<6	<6	<6	<6	<6	<6	<13	<13
SD017	<6	<6	<6	<6	<6	<6	<6	<6	12 R	<12
SD018	<6	<6	<6	<6	<6	<6	<6	<6	13 R	<13
SD019	<6	<6	<6	<6	<6	<6	<6	<6	13 R	<13
SD020	<7	<7	<7	<7	<7	<7	<7	<7	13 R	<13
SD021	<6	<6	<6	<6	<6	<6	<6	<6	13 R	<13
SD022	<7	<7	<7	<7	<7	<7	<7	<7	13 R	<13
SD023	<7	<7	<7	<7	<7	<7	<7	<7	14 R	<14
SD024	<9	<9	<9	<9	<9	<9	<9	<9	16 J	<18
SD025	<7	<7	<7	<7	<7	<7	<7	<7	<14	<14
SD026	<7	<7	<7	<7	<7	<7	<7	<7	<14	<14
SD027	<8	<8	<8	<8	<8	<8	<8	<8	<16	<16
SD028	<7	<7	<7	<7	<7	<7	<7	<7	<14	<14
SD029	<7	<7	<7	<7	<7	<7	<7	<7	<13	<13
SD030	<7	<7	<7	<7	<7	<7	<7	<7	<14	<14
SD031	<7	<7	<7	<7	<7	<7	<7	<7	<14	<14
SD032	<7	<7	<7	<7	<7	<7	<7	<7	<13	<13
SD033	<7	<7	<7	<7	<7	<7	<7	<7	<13	<13

Notes:
1. All results are reported in micrograms per kilogram (ug/kg). The less-than sign (<) signifies the compound was not detected at the contract required quantitation limit (CRQL) or at the detection limit (DL). The number following the '<' sign is the actual CRQL or DL.
2. The shaded values represent positive detections of the particular compound.
(a) Florida Department of Environmental Regulation, "Development of an Approach to the Assessment of Sediment Quality in Florida Coastal Waters," May 1992. Currently there are no state regulations or guidelines concerning volatile organic compounds found in sediment.
"UJ" Signifies the quantitation limit was estimated and the compound was not detected. The estimated limit follows the '<' sign.
"J" Signifies the compound was detected at an estimated concentration.
"R" Signifies that the data point was rejected during data validation under the Contract Lab Program (CLP).

APPENDIX C-1
SUMMARY OF SEDIMENT ANALYTICAL RESULTS
VOLATILE ORGANIC COMPOUNDS
NAVAL AIR STATION, JACKSONVILLE FLORIDA, OPERABLE UNIT 1
FEBRUARY 1992

Sample ID No.	4-Methyl-2-pentanone	Acetone	Benzene	Bromoform	Bromomethane	Carbon Disulfide	Carbon tetra-chloride	Chlorobenzene	Chloroethane	Chloroform
Florida Sediment Qual. Guideline(a)	---	---	---	---	---	---	---	---	---	---
SD001	<14	<28	<7	<7	<14	<7	<7	<7	<14	<7
SD002	<13	<40	<6	<6	<13	<6	<6	<6	<13	<6
SD003	<12	<71	<6	<6	<12	<6	<6	<6	<12	<6
SD004	<13	<26	2 J	<7	<13	<7	<7	<7	<13	<7
SD005	<14	<43	<7	<7	<14	<7	<7	<7	<14	<7
SD006	<13	<74	<6	<6	<13	<6	<6	<6	<13	<6
SD007	<39	410	<19	<19	<39	<19	<19	<19	<39	<19
SD008	<13	<13	<6	<6	<13	<6	<6	<6	<13	<6
SD009	<12	<16	<6	<6	<12	<6	<6	<6	<12	<6
SD011	<12	73	<6	<6	<12	<6	<6	<7	<12	<6
SD011	<13	<47	2 J	<6	<13	<6	<6	4 J	<13	<6
SD012	<14	<91	<7	<7	<14	<7	<7	<7	<14	<7
SD013	<13	<25	<7	<7	<13	<7	<7	<7	<13	<7
SD014	<14	63	2 J	<7	<14	<7	<7	<7	<14	<7
SD015	<14	<33	<7	<7	<14	<7	<7	<7	<14	<7
SD016	<13	<25	<6	<6	<13	<6	<6	<6	<13	<6
SD017	<12	<24	<6	<6	<12	<6	<6	<6	<12	<6
SD018	<13	<13	<6	<6	<13	<6	<6	<6	<13	<6
SD019	<13	<34	<6	<6	<13	<6	<6	<6	<13	<6
SD020	<13	<17	<7	<7	<13	<7	<7	<7	<13	<7
SD021	<13	<31	<6	<6	<13	<6	<6	<6	<13	<6
SD022	<13	<24	<7	<7	<13	<7	<7	<7	<13	<7
SD023	<14	<40	<7	<7	<14	<7	<7	<7	<14	<7
SD024	<18	<56	<9	<9	<18	<9	<9	<9	<18	<9
SD025	<14	<18	<7	<7	<14	3 J	<7	<7	<14	<7
SD026	<14	<14	<7	<7	<14	<7	<7	<7	<14	<7
SD027	<16	<19	<8	<8	<16	<8	<8	<8	<16	<8
SD028	<14	<14	<7	<7	<14	<7	<7	<7	<14	<7
SD029	<13	<13	<7	<7	<13	<7	<7	<7	<13	<7
SD030	<14	<14	<7	<7	<14	<7	<7	<7	<14	<7
SD031	<14	<23	<7	<7	<14	2 J	<7	<7	<14	<7
SD032	<13	<13	<7	<7	<13	<7	<7	<7	<13	<7
SD033	<13	<13	<7	<7	<13	<7	<7	<7	<13	<7

Notes:

1. All results are reported in micrograms per kilogram (ug/kg). The less-than sign (<) signifies the compound was not detected at the contract required quantitation limit (CRQL) or at the detection limit (DL). The number following the '<' sign is the actual CRQL or DL.
2. The shaded values represent positive detections of the particular compound.

(a) Florida Department of Environmental Regulation, "Development of an Approach to the Assessment of Sediment Quality in Florida Coastal Waters," May 1992. Currently there are no state regulations or guidelines concerning volatile organic compounds found in sediment.

"UJ" Signifies the quantitation limit was estimated and the compound was not detected. The estimated limit follows the '<' sign.

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APPENDIX C-1
SUMMARY OF SEDIMENT ANALYTICAL RESULTS
VOLATILE ORGANIC COMPOUNDS
NAVAL AIR STATION, JACKSONVILLE FLORIDA, OPERABLE UNIT 1
FEBRUARY 1992

Sample ID No.	Chloromethane	Dibromo-chloromethane	Dichloro-bromomethane	Ethyl acetate	Ethylbenzene	Methylene chloride	Styrene	Tetrachloro-ethene	Toluene	Trichloro-ethene
Florida Sediment Qual. Guideline(a)	---	---	---	---	---	---	---	---	---	---
SD001	<14	<7	<7	<70	<7	<7	<7	<7	<7	<7
SD002	<13	<6	<6	<64	<6	<10	<6	<6	<6	<6
SD003	<12	<6	<6	<62	<6	<62	<6	<6	<6	<6
SD004	<13	<7	<7	<66	<7	<27	<7	<7	2 J	<7
SD005	<14	<7	<7	<68	<7	<13	<7	<7	<7	<7
SD006	<13	<6	<6	<65	<6	<14	<6	<6	<6	<6
SD007	<39	<19	<19	<190	<19	<250	<19	<19	12 J	<19
SD008	<13	<6	<6	<65	<6	85	<6	<6	4 J	<6
SD009	<12	<6	<6	<62	<6	<16	<6	<6	<6	<6
SD011	<12	<6	<6	<62	<6	<8	<6	<6	2 J	<6
SD011	<13	<6	<6	<63	<6	<16	<6	<6	3 J	<6
SD012	<14	<7	<7	<68	<7	<26	<7	<7	5 J	<7
SD013	<13	<7	<7	<66	<7	<17	<7	<7	<7	<7
SD014	<14	<7	<7	<68	<7	<7	<7	<7	4 J	<7
SD015	<14	<7	<7	<68	<7	<7	<7	<7	5 J	<7
SD016	<13	<6	<6	<63	<6	<14	<6	<6	<6	<6
SD017	<12	<6	<6	<62	<6	<8	<6	<6	2 J	<6
SD018	<13	<6	<6	<64	<6	<7	<6	<6	<6	<6
SD019	<13	<6	<6	<64	<6	<9	<6	<6	12	5 J
SD020	<13	<7	<7	<66	<7	<9	<7	<7	6 J	<7
SD021	<13	<6	<6	<65	<6	<6	<6	<6	<6	<6
SD022	<13	<7	<7	<66	<7	<7	<7	<7	1 J	<7
SD023	<14	<7	<7	<71	<7	<14	<7	<7	<7	<7
SD024	<18	<9	<9	<88	<9	<21	<9	<9	2 J	<9
SD025	<14	<7	<7	<71	<7	<25	<7	<7	3 J	<7
SD026	<14	<7	<7	<70	<7	<22	<7	<7	2 J	<7
SD027	<16	<8	<8	<81	<8	<13	<8	<8	<8	<8
SD028	<14	<7	<7	<69	<7	<16	<7	<7	<7	<7
SD029	<13	<7	<7	<66	<7	<17	<7	<7	<7	<7
SD030	<14	<7	<7	<69	<7	<16	<7	<7	<7	<7
SD031	<14	<7	<7	<71	<7	<21	<7	<7	<7	<7
SD032	<13	<7	<7	<67	<7	<17	<7	<7	<7	<7
SD033	<13	<7	<7	<65	<7	<22	<7	<7	<7	<7

Notes:
1. All results are reported in micrograms per kilogram (ug/kg). The less-than sign (<) signifies the compound was not detected at the contract required quantitation limit (CRQL) or at the detection limit (DL). The number following the '<' sign is the actual CRQL or DL.
2. The shaded values represent positive detections of the particular compound.
(a) Florida Department of Environmental Regulation, "Development of an Approach to the Assessment of Sediment Quality in Florida Coastal Waters," May 1992. Currently there are no state regulations or guidelines concerning volatile organic compounds found in sediment.
"UJ" Signifies the quantitation limit was estimated and the compound was not detected. The estimated limit follows the '<' sign.
"J" Signifies the compound was detected at an estimated concentration.
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APPENDIX C-1
SUMMARY OF SEDIMENT ANALYTICAL RESULTS
VOLATILE ORGANIC COMPOUNDS
NAVAL AIR STATION, JACKSONVILLE FLORIDA, OPERABLE UNIT 1
FEBRUARY 1992

Sample ID No.	Vinyl Acetate	Vinyl chloride	Xylenes (total)	cis-1,3-Di-chloropropene	n-Butyl acetate	trans-1,3-Di-chloropropene
Florida Sediment Qual. Guideline(a)	---	---	---	---	---	---
SD001	<14	<14	<7	<7	<70	<7
SD002	<13	<13	2 J	<6	<64	<6
SD003	<12	<12	4 J	<6	<62	<6
SD004	<13	<13	<7	<7	<66	<7
SD005	<14	<14	<7	<7	<68	<7
SD006	<13	<13	<6	<6	<65	<6
SD007	<39	<39	<19	<19	<190	<19
SD008	<13	<13	6 J	<6	<65	<6
SD009	<12	<12	<6	<6	<62	<6
SD011	<12	<12	<6	<6	<62	<6
SD011	<13	<13	<6	<6	<63	<6
SD012	<14	<14	2 J	<7	<68	<7
SD013	<13	<13	<7	<7	<66	<7
SD014	<14	3 J	<7	<7	<68	<7
SD015	<14	<14	<7	<7	<68	<7
SD016	<13	<13	<6	<6	<63	<6
SD017	<12	<12	<6	<6	<62	<6
SD018	<13	<13	<6	<6	<64	<6
SD019	<13	<13	<6	<6	<64	<6
SD020	<13	<13	<7	<7	<66	<7
SD021	<13	<13	<6	<6	<65	<6
SD022	<13	<13	<7	<7	<66	<7
SD023	<14	<14	<7	<7	<71	<7
SD024	<18	<18	<9	<9	<88	<9
SD025	<14	<14	<7	<7	<71	<7
SD026	<14	<14	<7	<7	<70	<7
SD027	<16	<16	<8	<8	<81	<8
SD028	<14	<14	<7	<7	<69	<7
SD029	<13	<13	<7	<7	<66	<7
SD030	<14	<14	<7	<7	<69	<7
SD031	<14	<14	<7	<7	<71	<7
SD032	<13	<13	<7	<7	<67	<7
SD033	<13	<13	<7	<7	<65	<7

Notes:
1. All results are reported in micrograms per kilogram (ug/kg). The less-than sign (<) signifies the compound was not detected at the contract required quantitation limit (CRQL) or at the detection limit (DL). The number following the '<' sign is the actual CRQL or DL.
2. The shaded values represent positive detections of the particular compound.

(a) Florida Department of Environmental Regulation, "Development of an Approach to the Assessment of Sediment Quality in Florida Coastal Waters," May 1992. Currently there are no state regulations or guidelines concerning volatile organic compounds found in sediment.

"UJ" Signifies the quantitation limit was estimated and the compound was not detected. The estimated limit follows the '<' sign.

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"R" Signifies that the data point was rejected during data validation under the Contract Lab Program (CLP).

Appendix C-2
Analytical Summary Tables
For
Semi-volatile Organic Compounds

APPENDIX C-2
SUMMARY OF SURFACE WATER ANALYTICAL RESULTS
SEMIVOLATILE COMPOUNDS AND POLYNUCLEAR AROMATIC HYDROCARBONS
NAVAL AIR STATION, JACKSONVILLE FLORIDA, OPERABLE UNIT1
FEBRUARY 1992

Sample ID No.	1,2,4-Tri-chlorobenzene	1,2-Di-chlorobenzene	1,3-Di-chlorobenzene	1,4-Di-chlorobenzene	2,4,5-Tri-chlorophenol	2,4,6-Tri-chlorophenol	2,4-Di-chlorophenol	2,4-Di-methylphenol	2,4-Di-nitrophenol	2,4-Dinitro-toluene
Florida Class II(a)/	---/	---/	---/	---/	1/	1/	0.3/	---/	14260/	9.1/
Florida MCL(b)	---	---	---	75 ug/L	--- ug/L	--- ug/L	--- ug/L	---	--- ug/L	--- ug/L
Federal CWA(c)/	50/	50/	50/	50/	63/	1.2/	350/	---/	70/	---/
Federal MCL(d)	70 ug/L	600 ug/L	600 ug/L	75 ug/L	--- ug/L	--- ug/L	--- ug/L	---	--- ug/L	---
SW001	<10	<10	<10	<10	<50	<10	<10	<10	<50	<10
SW002	<10	<10	<10	<10	<50	<10	<10	<10	<50	<10
SW003	<10	<10	<10	<10	<50	<10	<10	<10	<50	<10
SW004	<10	<10	<10	<10	<50	<10	<10	<10	<50	<10
SW005	<10	<10	<10	<10	<50	<10	<10	<10	<50	<10
SW006	<10	<10	<10	<10	<50	<10	<10	<10	<50	<10
SW007	<10	<10	<10	<10	<50	<10	<10	<10	<50	<10
SW008	<10	<10	<10	<10	<50	<10	<10	<10	<50	<10
SW009	<10	<10	<10	<10	<50	<10	<10	<10	<50	<10
SW011	<10	<10	<10	<10	<50	<10	<10	<10	<50	<10
SW012	<10	<10	<10	<10	<50	<10	<10	<10	<50	<10
SW013	<10	<10	<10	<10	<50	<10	<10	<10	<50	<10
SW014	<10	<10	<10	<10	<50	<10	<10	<10	<50	<10
SW015	<10	<10	<10	<10	<50	<10	<10	<10	<50	<10
SW016	<10	<10	<10	<10	<50	<10	<10	<10	<50	<10
SW017	<10	<10	<10	<10	<50	<10	<10	<10	<50	<10
SW018	<10	<10	<10	<10	<50	<10	<10	<10	<50	<10
SW019	<10	<10	<10	<10	<50	<10	<10	<10	<50	<10
SW020	<10	<10	<10	<10	<50	<10	<10	<10	<50	<10
SW021	<10	<10	<10	<10	<50	<10	<10	<10	<50	<10
SW022	<10	<10	<10	<10	<50	<10	<10	<10	<50	<10
SW023	<10	<10	<10	<10	<50	<10	<10	<10	<50	<10
SW024	<10	<10	<10	<10	<50	<10	<10	<10	<50	<10
SW025	<10	<10	<10	<10	<50	<10	<10	<10	<50	<10
SW026	<10	<10	<10	<10	<50	<10	<10	<10	<50	<10
SW027	<10	<10	<10	<10	<50	<10	<10	<10	<50	<10
SW028	<10	<10	<10	<10	<50	<10	<10	<10	<50	<10
SW029	<10	<10	<10	<10	<50	<10	<10	<10	<50	<10
SW030	<10	<10	<10	<10	<50	<10	<10	<10	<50	<10
SW031	<10	<10	<10	<10	<50	<10	<10	<10	<50	<10
SW032	<10	<10	<10	<10	<50	<10	<10	<10	<50	<10
SW033	<10	<10	<10	<10	<50	<10	<10	<10	<50	<10

Notes:
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NAVAL AIR STATION, JACKSONVILLE FLORIDA, OPERABLE UNIT1
FEBRUARY 1992

Sample ID No.	2,6–Dinitro–toluene	2–Chloro–naphthalene	2–Chloro–phenol	2–Methyl–naphthalene	2–Methyl–phenol	2–Nitroaniline	2–Nitro–phenol	3,3'–Dichloro–benzidine	3–Nitroaniline	4,6–Dinitro–2–Methyl–phenol
Florida Class II(a)/	---/	---/	0.1/	---/	---/	---/	---/	---/	---/	---/
Florida MCL(b)	---	---	--- ug/L	100 ug/L	---	---	---	---	---	---
Federal CWA(c)/	---/	---/	---/	---/	---/	---/	150/	0.0103/	---/	---/
Federal MCL(d)	---	---	---	---	---	---	--- ug/L	--- ug/L	---	---
SW001	<10	<10	<10	<10	<10	<50	<10	<20	<50	<50
SW002	<10	<10	<10	<10	<10	<50	<10	<20	<50	<50
SW003	<10	<10	<10	<10	<10	<50	<10	<20	<50	<50
SW004	<10	<10	<10	<10	<10	<50	<10	<20	<50	<50
SW005	<10	<10	<10	<10	<10	<50	<10	<20	<50	<50
SW006	<10	<10	<10	<10	<10	<50	<10	<20	<50	<50
SW007	<10	<10	<10	<10	<10	<50	<10	<20	<50	<50
SW008	<10	<10	<10	<10	<10	<50	<10	<20	<50	<50
SW009	<10	<10	<10	<10	<10	<50	<10	<20	<50	<50
SW011	<10	<10	<10	<10	<10	<50	<10	<20	<50	<50
SW012	<10	<10	<10	<10	<10	<50	<10	<20	<50	<50
SW013	<10	<10	<10	<10	<10	<50	<10	<20	<50	<50
SW014	<10	<10	<10	<10	<10	<50	<10	<20	<50	<50
SW015	<10	<10	<10	<10	<10	<50	<10	<20	<50	<50
SW016	<10	<10	<10	<10	<10	<50	<10	<20	<50	<50
SW017	<10	<10	<10	<10	<10	<50	<10	<20	<50	<50
SW018	<10	<10	<10	<10	<10	<50	<10	<20	<50	<50
SW019	<10	<10	<10	<10	<10	<50	<10	<20	<50	<50
SW020	<10	<10	<10	<10	<10	<50	<10	<20	<50	<50
SW021	<10	<10	<10	<10	<10	<50	<10	<20	<50	<50
SW022	<10	<10	<10	<10	<10	<50	<10	<20	<50	<50
SW023	<10	<10	<10	<10	<10	<50	<10	<20	<50	<50
SW024	<10	<10	<10	<10	<10	<50	<10	<20	<50	<50
SW025	<10	<10	<10	<10	<10	<50	<10	<20	<50	<50
SW026	<10	<10	<10	<10	<10	<50	<10	<20	<50	<50
SW027	<10	<10	<10	<10	<10	<50	<10	<20	<50	<50
SW028	<10	<10	<10	<10	<10	<50	<10	<20	<50	<50
SW029	<10	<10	<10	<10	<10	<50	<10	<20	<50	<50
SW030	<10	<10	<10	<10	<10	<50	<10	<20	<50	<50
SW031	<10	<10	<10	<10	<10	<50	<10	<20	<50	<50
SW032	<10	<10	<10	<10	<10	<50	<10	<20	<50	<50
SW033	<10	<10	<10	<10	<10	<50	<10	<20	<50	<50

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NAVAL AIR STATION, JACKSONVILLE FLORIDA, OPERABLE UNIT1
FEBRUARY 1992

Sample ID No.	4-Bromo-phenyl-phenylether	4-Chloro-3-methyl-phenol	4-Chloro-aniline	4-Chloro-phenyl-phenylether	4-Methyl-phenol	4-Nitroaniline	4-Nitro-phenol	Acenaphthene	Acenaphthylene	Anthracene
Florida Class II(a)/	---/	1/	---/	---/	---/	---/	---/	20/	0.031/	0.031/
Florida MCL(b)	---	--- ug/L	---	---	---	---	---	--- ug/L	--- ug/L	--- ug/L
Federal CWA(c)/	---/	---/	---/	---/	---/	---/	150/	520/	---/	---/
Federal MCL(d)	---	---	---	---	---	---	--- ug/L	--- ug/L	---	---
SW001	<10	<10	<10	<10	<10	<50	<50	<10	<10	<10
SW002	<10	<10	<10	<10	<10	<50	<50 UJ	<10	<10	<10
SW003	<10	<10	<10	<10	<10	<50	<50 UJ	<10	<10	<10
SW004	<10	<10	<10	<10	<10	<50	<50	<10	<10	<10
SW005	<10	<10	<10	<10	<10	<50	<50	<10	<10	<10
SW006	<10	<10	<10	<10	<10	<50	<50	<10	<10	<10
SW007	<10	<10	<10	<10	<10	<50	<50	<10	<10	<10
SW008	<10	<10	<10	<10	<10	<50	<50	<10	<10	<10
SW009	<10	<10	<10	<10	<10	<50	<50	<10	<10	<10
SW011	<10	<10	<10	<10	<10	<50	<50	<10	<10	<10
SW012	<10	<10	<10	<10	<10	<50	<50	<10	<10	<10
SW013	<10	<10	<10	<10	<10	<50	<50	<10	<10	<10
SW014	<10	<10	<10	<10	<10	<50	<50	<10	<10	<10
SW015	<10	<10	<10	<10	<10	<50	<50	<10	<10	<10
SW016	<10	<10	<10	<10	<10	<50	<50	<10	<10	<10
SW017	<10	<10	<10	<10	<10	<50	<50	<10	<10	<10
SW018	<10	<10	<10	<10	<10	<50	<50	<10	<10	<10
SW019	<10	<10	<10	<10	<10	<50	<50	<10	<10	<10
SW020	<10	<10	<10	<10	<10	<50	<50	<10	<10	<10
SW021	<10	<10	<10	<10	<10	<50	<50	<10	<10	<10
SW022	<10	<10	<10	<10	<10	<50	<50	<10	<10	<10
SW023	<10	<10	<10	<10	<10	<50	<50	<10	<10	<10
SW024	<10	<10	<10	<10	<10	<50	<50	<10	<10	<10
SW025	<10	<10	<10	<10	<10	<50	<50	<10	<10	<10
SW026	<10	<10	<10	<10	<10	<50	<50	<10	<10	<10
SW027	<10	<10	<10	<10	<10	<50	<50	<10	<10	<10
SW028	<10	<10	<10	<10	<10	<50	<50	<10	<10	<10
SW029	<10	<10	<10	<10	<10	<50	<50	<10	<10	<10
SW030	<10	<10	<10	<10	<10	<50	<50	<10	<10	<10
SW031	<10	<10	<10	<10	<10	<50	<50	<10	<10	<10
SW032	<10	<10	<10	<10	<10	<50	<50	<10	<10	<10
SW033	<10	<10	<10	<10	<10	<50	<50	<10	<10	<10

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NAVAL AIR STATION, JACKSONVILLE FLORIDA, OPERABLE UNIT1
FEBRUARY 1992

Sample ID No.	Benzo (a) anthracene	Benzo (a) pyrene	Benzo (b) fluoranthene	Benzo (g,h,i) perylene	Benzo (k) fluoranthene	Benzoic acid	Benzyl Alcohol	Butylbenzyl-phthalate	Chrysene	Di-n-butyl-phthalate
Florida Class II(a)/ Florida MCL(b)	*0.031/ --- ug/L*	*0.031/ --- ug/L*	*0.031/ --- ug/L*	*0.031/ --- ug/L*	*0.031/ --- ug/L*	*---/ ---*	*---/ ---*	*---/ ---*	*0.031/ --- ug/L*	*---/ ---*
Federal CWA(c)/ Federal MCL(d)	*---/ 0.1 ug/L*	*---/ 0.2 ug/L*	*---/ 0.2 ug/L*	*---/ ---*	*---/ 0.2 ug/L*	*---/ ---*	*---/ ---*	*---/ 100 ug/L*	*---/ 0.2 ug/L*	*---/ ---*
SW001	<10	<10	<10	<10	<10	<50	<10	<10	<10	<10
SW002	<10	<10	<10	<10	<10	<50 UJ	<10	<10	<10	<10
SW003	<10	<10	<10	<10	<10	<50 UJ	<10	<10	<10	<13
SW004	<10	<10	<10	<10	<10	<50	<10	<10	<10	<10
SW005	<10	<10	<10	<10	<10	<50	<10	<10	<10	<10
SW006	<10	<10	<10	<10	<10	<50	<10	<10	<10	<10
SW007	<10	<10	<10	<10	<10	<50	<10	<10	<10	<10
SW008	<10	<10	<10	<10	<10	<50	<10	<10	<10	<10
SW009	<10	<10	<10	<10	<10	<50	<10	<10	<10	<10
SW011	<10	<10	<10	<10	<10	<50	<10	<10	<10	<10
SW012	<10	<10	<10	<10	<10	<50	<10	<10	<10	16
SW013	<10	<10	<10	<10	<10	<50	<10	<10	<10	<10
SW014	<10	<10	<10	<10	<10	<50	<10	<10	<10	<10
SW015	<10	<10	<10	<10	<10	<50	<10	<10	<10	<10
SW016	<10	<10	<10	<10	<10	<50	<10	<10	<10	<10
SW017	<10	<10	<10	<10	<10	<50	<10	<10	<10	<10
SW018	<10	<10	<10	<10	<10	<50	<10	<10	<10	<10
SW019	<10	<10	<10	<10	<10	<50	<10	<10	<10	<10
SW020	<10	<10	<10	<10	<10	<50	<10	<10	<10	<10
SW021	<10	<10	<10	<10	<10	<50	<10	<10	<10	<10
SW022	<10	<10	<10	<10	<10	<50	<10	<10	<10	<10
SW023	<10	<10	<10	<10	<10	<50	<10	<10	<10	<10
SW024	<10	<10	<10	<10	<10	<50	<10	<10	<10	<10
SW025	<10	<10	<10	<10	<10	<50	<10	<10	<10	<10
SW026	<10	<10	<10	<10	<10	<50	<10	<10	<10	<10
SW027	<10	<10	<10	<10	<10	<50	<10	<10	<10	<10
SW028	<10	<10	<10	<10	<10	<50	<10	<10	<10	<10
SW029	<10	<10	<10	<10	<10	<50	<10	<10	<10	<10
SW030	<10	<10	<10	<10	<10	<50	<10	<10	<10	<10
SW031	<10	<10	<10	<10	<10	<50	<10	<10	<10	<10
SW032	<10	<10	<10	<10	<10	<50	<10	<10	<10	<10
SW033	<10	<10	<10	<10	<10	<50	<10	<10	<10	<10

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Sample ID No.	Di-n-octyl-phthalate	Dibenz (a,h) anthracene	Dibenzofuran	Diethyl-phthalate	Dimethyl-phthalate	Fluoranthene	Fluorene	Hexachloro-benzene	Hexachloro-butadiene	Hexachloro-cyclopenta-diene
Florida Class II(a)/	---/	0.031 ug/L	---/	---/	---/	54/	0.031/	---/	49.7/	---/
Florida MCL(b)	---	---	---	---	---	--- ug/L	--- ug/L	---	--- ug/L	---
Federal CWA(c)/	---/	---/	---/	350000/	313000/	42/	---/	0.00072/	0.45/	5.2/
Federal MCL(d)	---	0.3 ug/L	---	--- ug/L	--- ug/L	--- ug/L	---	1 ug/L	--- ug/L	50 ug/L
SW001	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
SW002	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
SW003	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
SW004	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
SW005	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
SW006	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
SW007	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
SW008	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
SW009	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
SW011	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
SW012	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
SW013	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
SW014	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
SW015	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
SW016	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
SW017	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
SW018	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
SW019	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
SW020	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
SW021	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
SW022	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
SW023	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
SW024	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
SW025	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
SW026	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
SW027	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
SW028	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
SW029	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
SW030	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
SW031	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
SW032	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
SW033	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10

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Sample ID No.	Hexachloro-ethane	Indeno (1,2,3-cd) pyrene	Isophorone	N-Nitroso-di-n-propyl-amine	N-Nitroso-diphenyl-amine (1)	Naphthalene	Nitrobenzene	Pentachloro-phenol	Phenanthrene	Phenol
Florida Class II(a)/	---/	0.031/	---/	---/	---/	---/	---/	7.9/	0.031/	300/
Florida MCL(b)	---	--- ug/L	---	---	---	100 ug/L	---	--- ug/L	--- ug/L	--- ug/L
Federal CWA(c)/	1.9/	---/	5200/	---/	4.9	620/	19800	13/	6.3/	2560/
Federal MCL(d)	--- ug/L	0.4 ug/L	--- ug/L	---	--- ug/L	--- ug/L	--- ug/L	1 ug/L	--- ug/L	--- ug/L
SW001	<10	<10	<10	<10	<10	<10	<10	<50	<10	<10
SW002	<10	<10	<10	<10	<10	<10	<10	<50	<10	<10
SW003	<10	<10	<10	<10	<10	<10	<10	<50	<10	<10
SW004	<10	<10	<10	<10	<10	<10	<10	<50	<10	<10
SW005	<10	<10	<10	<10	<10	<10	<10	<50	<10	<10
SW006	<10	<10	<10	<10	<10	<10	<10	<50	<10	<10
SW007	<10	<10	<10	<10	<10	<10	<10	<50	<10	<10
SW008	<10	<10	<10	<10	<10	<10	<10	<50	<10	<10
SW009	<10	<10	<10	<10	<10	<10	<10	<50	<10	<10
SW011	<10	<10	<10	<10	<10	<10	<10	<50	<10	<10
SW012	<10	<10	<10	<10	<10	<10	<10	<50	<10	<10
SW013	<10	<10	<10	<10	<10	<10	<10	<50	<10	<10
SW014	<10	<10	<10	<10	<10	<10	<10	<50	<10	<10
SW015	<10	<10	<10	<10	<10	<10	<10	<50	<10	<10
SW016	<10	<10	<10	<10	<10	<10	<10	<50	<10	<10
SW017	<10	<10	<10	<10	<10	<10	<10	<50	<10	<10
SW018	<10	<10	<10	<10	<10	<10	<10	<50	<10	<10
SW019	<10	<10	<10	<10	<10	<10	<10	<50	<10	<10
SW020	<10	<10	<10	<10	<10	<10	<10	<50	<10	<10
SW021	<10	<10	<10	<10	<10	<10	<10	<50	<10	<10
SW022	<10	<10	<10	<10	<10	<10	<10	<50	<10	<10
SW023	<10	<10	<10	<10	<10	<10	<10	<50	<10	<10
SW024	<10	<10	<10	<10	<10	<10	<10	<50	<10	<10
SW025	<10	<10	<10	<10	<10	<10	<10	<50	<10	<10
SW026	<10	<10	<10	<10	<10	<10	<10	<50	<10	<10
SW027	<10	<10	<10	<10	<10	<10	<10	<50	<10	<10
SW028	<10	<10	<10	<10	<10	<10	<10	<50	<10	<10
SW029	<10	<10	<10	<10	<10	<10	<10	<50	<10	<10
SW030	<10	<10	<10	<10	<10	<10	<10	<50	<10	<10
SW031	<10	<10	<10	<10	<10	<10	<10	<50	<10	<10
SW032	<10	<10	<10	<10	<10	<10	<10	<50	<10	<10
SW033	<10	<10	<10	<10	<10	<10	<10	<50	<10	<10

Notes:
1. All results are reported in micrograms per liter (ug/L). The less-than sign (<) signifies the compound was not detected at the contract required quantitation limit (CRQL) or at the detection limit (DL). The number following the '<' sign is the actual CRQL or DL.
2. The shaded values represent positive detections of the particular compound.
(a) Florida Department of Environmental Regulation Chapter 17.302 Florida Administrative Code (FAC), "Surface Water Quality Standards," February 1992.
(b) Florida Department of Environmental Regulation Chapter 17.550 Florida Administrative Code (FAC), "Safe Drinking Water Act," January 1991.
(c) U.S. Environmental Protection Agency, "Water Quality Criteria Summary," Office of Science and Technology, Health and Ecological Criteria Division, Washington, D.C., May 1991.
(d) U.S. Environmental Protection Agency, SDWA National Primary Drinking Water Regulations per 40 CFR 141: Maximum Contaminant Levels. Last updated on July 17, 1992.
"UJ" Signifies the quantitation limit was estimated and the compound was not detected. The estimated limit follows the '<' sign.
"J" Signifies the compound was detected at an estimated concentration.
"R" [illegible]ifies that the data point was rejected during data validation under the Contract Lab Program(C[illegible]

APPENDIX C–2
SUMMARY OF SURFACE WATER ANALYTICAL RESULTS
SEMIVOLATILE COMPOUNDS AND POLYNUCLEAR AROMATIC HYDROCARBONS
NAVAL AIR STATION, JACKSONVILLE FLORIDA, OPERABLE UNIT1
FEBRUARY 1992

Sample ID No.	Pyrene	bis(2–Chloro–ethoxy) methane	bis(2–Chloro–ethyl) ether	bis(2–Chloro–isopropyl) ether	bis(2–Ethyl–hexyl) phthalate
Florida Class II(a)/	*0.031/*	---/	---/	---/	---/
Florida MCL(b)	--- *ug/L*	---	---	---	---
Federal CWA(c)/	---/	---/	*0.03/*	---/	*360/*
Federal MCL(d)	---	---	--- *ug/L*	---	*6 ug/L*
SW001	<10	<10	<10	<10	<10
SW002	<10	<10	<10	<10	4 J
SW003	<10	<10	<10	<10	5 J
SW004	<10	<10	<10	<10	<10
SW005	<10	<10	<10	<10	<10
SW006	<10	<10	<10	<10	<10
SW007	<10	<10	<10	<10	<10
SW008	<10	<10	<10	<10	<10
SW009	<10	<10	<10	<10	3 J
SW011	<10	<10	<10	<10	3 J
SW012	<10	<10	<10	<10	13
SW013	<10	<10	<10	<10	8 J
SW014	<10	<10	<10	<10	<10
SW015	<10	<10	<10	<10	<10
SW016	<10	<10	<10	<10	<10
SW017	<10	<10	<10	<10	<10
SW018	<10	<10	<10	<10	<10
SW019	<10	<10	<10	<10	<10
SW020	<10	<10	<10	<10	3 J
SW021	<10	<10	<10	<10	<10
SW022	<10	<10	<10	<10	<10
SW023	<10	<10	<10	<10	<10
SW024	<10	<10	<10	<10	<10
SW025	<10	<10	<10	<10	<10
SW026	<10	<10	<10	<10	<10
SW027	<10	<10	<10	<10	<10
SW028	<10	<10	<10	<10	<10
SW029	<10	<10	<10	<10	<10
SW030	<10	<10	<10	<10	3 J
SW031	<10	<10	<10	<10	<10
SW032	<10	<10	<10	<10	<10
SW033	<10	<10	<10	<10	<10

Notes:
1. All results are reported in micrograms per liter (ug/L).The less–than sign (<) signifies the compound was not detected at the contract required quantitation limit (CRQL) or at the detection limit (DL). The number following the '<' sign is the actualCRQL or DL.
2. The shaded values represent positive detections of the particular compound.

(a) Florida Departmen tof Environmental Regulation Chapter 17.302 Florida Administrative Code (FAC), "Surface Water Quality Standards," February 1992.
(b) Florida Department of EnvironmentalRegulation Chapter 17.550 Florida Administrative Code (FAC), "Safe Drinking Water Act," January 1991.
(c) U.S. Environmental Protection Agency, "Water Quality Criteria Summary," Office of Science and Technology, Healthand Ecological Criteria Division, Washington, D.C., May 1991.
(d) U.S. Environmental Protection Agency, SDWA National Primary Drinking Water Regulations per 40 CFR 141: MaximunContaminant Levels. Last updated on July 17, 1992.
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"J" Signifies the compound was detected at an estimated concentration.
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APPENDIX C-2
SUMMARY OF SEDIMENT ANALYTICAL RESULTS
SEMIVOLATILE COMPOUNDS AND POLYNUCLEAR AROMATIC HYDROCARBONS
NAVAL AIR STATION, JACKSONVILLE FLORIDA, OPERABLE UNIT 1
FEBRUARY 1992

Sample ID No.	1,2,4-Tri-chlorobenzene	1,2-Di-chlorobenzene	1,3-Di-chlorobenzene	1,4-Di-chlorobenzene	2,4,5-Tri-chlorophenol	2,4,6-Tri-chlorophenol	2,4-Di-chlorophenol	2,4-Di-methylphenol	2,4-Di-nitrophenol	2,4-Dinitro-toluene
Florida Sediment Qual. Guideline(a)	---	---	---	---	---	---	---	---	---	---
SD001	<930	<930	<930	<930	<4500	<930	<930	<930	<4500	<930
SD002	<440	<440	<440	<440	<2100	<440	<440	<440	<2100	<440
SD003	<410	<410	<410	<410	<2000	<410	<410	<410	<2000	<410
SD004	<430	<430	<430	<430	<2100	<430	<430	<430	<2100	<430
SD005	<420	<420	<420	<420	<2000	<420	<420	<420	<2000	<420
SD006	<420	<420	<420	<420	<2000	<420	<420	<420	<2000	<420
SD007	<430	<430	<430	<430	<2100	<430	<430	<430	<2100	<430
SD008	<430	<430	<430	<430	<2100	<430	<430	<430	<2100	<430
SD009	<400	<400	<400	<400	<1900	<400	<400	<400	<1900	<400
SD011	<840	<840	<840	<840	<4100	<840	<840	<840	<4100	<840
SD011	<810	<810	<810	<810	<4000	<810	<810	<810	<4000	<810
SD012	<450	<450	<450	<450	<2200	<450	<450	<450	<2200	<450
SD013	<870	<870	<870	<870	<4200	<870	<870	<870	<4200	<870
SD014	<900	<900	<900	<900	<4400	<900	<900	<900	<4400	<900
SD015	<890	<890	<890	<890	<4300	<890	<890	<890	<4300	<890
SD016	<840	<840	<840	<840	<4100	<840	<840	<840	<4100	<840
SD017	<810	<810	<810	<810	<4000	<810	<810	<810	<4000	<810
SD018	<850	<850	<850	<850	<4100	<850	<850	<850	<4100	<850
SD019	<850	<850	<850	<850	<4100	<850	<850	<850	<4100	<850
SD020	<870	<870	<870	<870	<4200	<870	<870	<870	<4200	<870
SD021	<860	<860	<860	<860	<4200	<860	<860	<860	<4200	<860
SD022	<870	<870	<870	<870	<4200	<870	<870	<870	<4200	<870
SD023	<940	<940	<940	<940	<4600	<940	<940	<940	<4600	<940
SD024	<1200	<1200	<1200	<1200	<5600	<1200	<1200	<1200	<5600	<1200
SD025	<940	<940	<940	<940	<4600	<940	<940	<940	<4600	<940
SD026	<930	<930	<930	<930	<4500	<930	<930	<930	<4500	<930
SD027	<1100	<1100	<1100	<1100	<5200	<1100	<1100	<1100	<5200	<1100
SD028	<920	<920	<920	<920	<4400	<920	<920	<920	<4400	<920
SD029	<870	<870	<870	<870	<4200	<870	<870	<870	<4200	<870
SD030	<920	<920	<920	<920	<4400	<920	<920	<920	<4400	<920
SD031	<940	<940	<940	<940	<4600	<940	<940	<940	<4600	<940
SD032	<880	<880	<880	<880	<4300	<880	<880	<880	<4300	<880
SD033	<860	<860	<860	<860	<4200	<860	<860	<860	<4200	<860

Notes:
1. All results are reported in micrograms per kilogram (ug/kg). The less-than sign (<) signifies the compound was not detected at the contract required quantitation limit (CRQL) or at the detection limit (DL). The number following the '<' sign is the actual CRQL or DL.
2. The shaded values represent positive detections of the particular compound.

(a) Florida Department of Environmental Regulation, "Development of an Approach to the Assessment of Sediment Quality in Florida Coastal Waters," May 1992.
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APPENDIX C–2
SUMMARY OF SEDIMENT ANALYTICAL RESULTS
SEMIVOLATILE COMPOUNDS AND POLYNUCLEAR AROMATIC HYDROCARBONS
NAVAL AIR STATION, JACKSONVILLE FLORIDA, OPERABLE UNIT 1
FEBRUARY 1992

Sample ID No.	2,6–Dinitro–toluene	2–Chloro–naphthalene	2–Chloro–phenol	2–Methyl–naphthalene	2–Methyl–phenol	2–Nitroaniline	2–Nitro–phenol	3,3'–Dichloro–benzidine	3–Nitroaniline	4,6–Dinitro–2–Methyl–phenol
Florida Sediment Qual. Guideline(a)	---	---	---	*ID in low concentration*	---	---	---	---	---	---
SD001	<930	<930	<930	<930	<930	<4500	<930	<1900	<4500	<4500
SD002	<440	<440	<440	<440	<440	<2100 UJ	<440	<880	<2100	<2100
SD003	<410	<410	<410	<410	<410	<2000 UJ	<410	<820	<2000	<2000
SD004	<430	<430	<430	<430	<430	<2100	<430	<870	<2100	<2100
SD005	<420	<420	<420	<420	<420	<2000	<420	<840	<2000	<2000
SD006	<420	<420	<420	<420	<420	<2000	<420	<840	<2000	<2000
SD007	<430	<430	<430	<430	<430	<2100	<430	<860	<2100	<2100
SD008	<430	<430	<430	<430	<430	<2100	<430	<860	<2100	<2100
SD009	<400	<400	<400	<400	<400	<1900	<400	<800	<1900	<1900
SD011	<840	<840	<840	<840	<840	<4100	<840	<1700	<4100	<4100
SD011	<810	<810	<810	<810	<810	<4000	<810	<1600	<4000	<4000
SD012	<450	<450	<450	<450	<450	<2200 UJ	<450	<890	<2200	<2200
SD013	<870	<870	<870	<870	<870	<4200	<870	<1700	<4200	<4200
SD014	<900	<900	<900	<900	<900	<4400	<900	<1800	<4400	<4400
SD015	<890	<890	<890	<890	<890	<4300	<890	<1800	<4300	<4300
SD016	<840	<840	<840	<840	<840	<4100	<840	<1700	<4100	<4100
SD017	<810	<810	<810	<810	<810	<4000	<810	<1600	<4000	<4000
SD018	<850	<850	<850	<850	<850	<4100	<850	<1700	<4100	<4100
SD019	<850	<850	<850	<850	<850	<4100	<850	<1700	<4100	<4100
SD020	<870	<870	<870	<870	<870	<4200	<870	<1700	<4200	<4200
SD021	<860	<860	<860	<860	<860	<4200	<860	<1700	<4200	<4200
SD022	<870	<870	<870	<870	<870	<4200	<870	<1700	<4200	<4200
SD023	<940	<940	<940	<940	<940	<4600	<940	<1900	<4600	<4600
SD024	<1200	<1200	<1200	<1200	<1200	<5600	<1200	<2300	<5600	<5600
SD025	<940	<940	<940	<940	<940	<4600	<940	<1900	<4600	<4600
SD026	<930	<930	<930	<930	<930	<4500	<930	<1900	<4500	<4500
SD027	<1100	<1100	<1100	<1100	<1100	<5200	<1100	<2100	<5200	<5200
SD028	<920	<920	<920	<920	<920	<4400	<920	<1800	<4400	<4400
SD029	<870	<870	<870	<870	<870	<4200	<870	<1700	<4200	<4200
SD030	<920	<920	<920	<920	<920	<4400	<920	<1800	<4400	<4400
SD031	<940	<940	<940	<940	<940	<4600	<940	<1900	<4600	<4600
SD032	<880	<880	<880	<880	<880	<4300	<880	<1800	<4300	<4300
SD033	<860	<860	<860	<860	<860	<4200	<860	<1700	<4200	<4200

Notes:
1. All results are reported in micrograms per kilogram (ug/kg). The less–than sign (<) signifies the compound was not detected at the contract required quantitation limit (CRQL) or at the detection limit (DL). The number following the '<' sign is the actual CRQL or DL.
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APPENDIX C-2
SUMMARY OF SEDIMENT ANALYTICAL RESULTS
SEMIVOLATILE COMPOUNDS AND POLYNUCLEAR AROMATIC HYDROCARBONS
NAVAL AIR STATION, JACKSONVILLE FLORIDA, OPERABLE UNIT 1
FEBRUARY 1992

Sample ID No.	4-Bromo-phenyl-phenylether	4-Chloro 3-methyl-phenol	4-Chloro-aniline	4-Chloro-phenyl-phenylether	4-Methyl-phenol	4-Nitroaniline	4-Nitro-phenol	Acenaphthene	Acenaphthylene	Anthracene
Florida Sediment Qual. Guideline(a)	---	---	---	---	---	---	---	*22 ug/kg*	*ID in low concentrations*	*85 ug/kg*
SD001	<930	<930	<930	<930	<930	<4500	<4500	<930	<930	<930
SD002	<440	<440	<440	<440	<440	<2100	<2100	<440	<440	<440
SD003	<410	<410	<410	<410	<410	<2000	<2000	<410	<410	<410
SD004	<430	<430	<430	<430	<430	<2100	<2100	<430	<430	<430
SD005	<420	<420	<420	<420	<420	<2000	<2000	<420	<420	<420
SD006	<420	<420	<420	<420	<420	<2000	<2000	<420	<420	<420
SD007	<430	<430	<430	<430	<430	<2100	<2100	<430	<430	<430
SD008	<430	<430	<430	<430	<430	<2100	<2100	<430	<430	<430
SD009	<400	<400	<400	<400	<400	<1900	<1900	<400	<400	<400
SD011	<840	<840	<840	<840	<840	<4100	<4100	<840	<840	<840
SD011	<810	<810	<810	<810	<810	<4000	<4000	<810	<810	<810
SD012	<450	<450	<450	<450	<450	<2200	<2200	<450	<450	<450
SD013	<870	<870	<870	<870	<870	<4200	<4200	<870	<870	<870
SD014	<900	<900	<900	<900	<900	<4400	<4400	<900	<900	<900
SD015	<890	<890	<890	<890	<890	<4300	<4300	<890	<890	<890
SD016	<840	<840	<840	<840	<840	<4100	<4100	<840	<840	<840
SD017	<810	<810	<810	<810	<810	<4000	<4000	<810	<810	<810
SD018	<850	<850	<850	<850	<850	<4100	<4100	<850	<850	<850
SD019	<850	<850	<850	<850	<850	<4100	<4100	<850	<850	<850
SD020	<870	<870	<870	<870	<870	<4200	<4200	<870	<870	<870
SD021	<860	<860	<860	<860	<860	<4200	<4200	<860	<860	<860
SD022	<870	<870	<870	<870	<870	<4200	<4200	<870	<870	<870
SD023	<940	<940	<940	<940	<940	<4600	<4600	<940	<940	<940
SD024	<1200	<1200	<1200	<1200	<1200	<5600	<5600	<1200	<1200	<1200
SD025	<940	<940	<940	<940	<940	<4600	<4600	<940	<940	<940
SD026	<930	<930	<930	<930	<930	<4500	<4500	<930	<930	<930
SD027	<1100	<1100	<1100	<1100	<1100	<5200	<5200	110 J	<1100	<1100
SD028	<920	<920	<920	<920	<920	<4400	<4400	<920	<920	<920
SD029	<870	<870	<870	<870	<870	<4200	<4200	<870	<870	<870
SD030	<920	<920	<920	<920	<920	<4400	<4400	<920	<920	<920
SD031	<940	<940	<940	<940	<940	<4600	<4600	<940	<940	<940
SD032	<880	<880	<880	<880	<880	<4300	<4300	<880	<880	<880
SD033	<860	<860	<860	<860	<860	<4200	<4200	<860	<860	<860

Notes:
1. All results are reported in micrograms per kilogram (ug/kg). The less-than sign (<) signifies the compound was not detected at the contract required quantitation limit (CRQL) or at the detection limit (DL). The number following the '<' sign is the actual CRQL or DL.
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APPENDIX C-2
SUMMARY OF SEDIMENT ANALYTICAL RESULTS
SEMIVOLATILE COMPOUNDS AND POLYNUCLEAR AROMATIC HYDROCARBONS
NAVAL AIR STATION, JACKSONVILLE FLORIDA, OPERABLE UNIT 1
FEBRUARY 1992

Sample ID No.	Benzo (a) anthracene	Benzo (a) pyrene	Benzo (b) fluoranthene	Benzo (g,h,i) perylene	Benzo (k) fluoranthene	Benzoic acid	Benzyl Alcohol	Butylbenzyl-phthalate	Chrysene	Di-n-butyl-phthalate
Florida Sediment Qual. Guideline(a)	*160 ug/kg*	*230 ug/kg*	---	---	---	---	---	---	*220 ug/kg*	*ID in low concentrations*
SD001	<930	<930	<930	<930	<930	<4500	<930	<930	<930	<930
SD002	<440	<440	<440	<440	<440	<2100	<440	<440	<440	<440
SD003	<410	<410	<410	<410	<410	<2000	<410	<410	<410	<410
SD004	<430	<430	<430	<430	<430	<2100	<430	<430	<430	<430
SD005	<420	<420	<420	<420	<420	<2000	<420	<420	<420	<420
SD006	190 J	160 J	180 J	130 J	160 J	<2000	<420	<420	170 J	<420
SD007	<430	<430	<430	<430	<430	<2100	<430	<430	<430	<430
SD008	<430	<430	<430	<430	<430	<2100	<430	<430	<430	<430
SD009	<400	<400	<400	<400	<400	<1900	<400	<400	<400	<400
SD011	<840	<840	<840	<840	<840	<4100	<840	<840	<840	<840
SD011	<810	<810	<810	<810	<810	<4000	<810	<810	<810	<810
SD012	100 J	82 J	120 J	100 J	100 J	<2200	<450	<450	150 J	<450
SD013	<870	<870	<870	<870	<870	<4200	<870	<870	<870	<870
SD014	240 J	290 J	530 J	170 J	370 J	<4400	<900	<900	650 J	<900
SD015	<890	<890	<890	<890	<890	<4300	<890	<890	<890	<890
SD016	<840	<840	<840	<840	<840	<4100	<840	<840	<840	<840
SD017	<810	<810	<810	<810	<810	<4000	<810	<810	<810	<810
SD018	<850	<850	<850	<850	<850	<4100	<850	<850	<850	<850
SD019	<850	<850	<850	<850	<850	<4100	<850	<850	<850	<850
SD020	<870	<870	<870	<870	<870	<4200	<870	<870	<870	<870
SD021	<860	<860	<860	<860	<860	<4200	<860	<860	<860	<860
SD022	<870	<870	<870	<870	<870	<4200	<870	<870	<870	<870
SD023	<940	<940	<940	<940	<940	<4600	<940	<940	<940	<940
SD024	<1200	<1200	<1200	<1200	<1200	<5600	<1200	<1200	<1200	<1200
SD025	<940	<940	<940	<940	<940	<4600	<940	<940	<940	<940
SD026	<930	100 J	<930	<930	<930	<4500	<930	<930	<930	<930
SD027	120 J	<1100	110 J	<1100	<1100	<5200	<1100	<1100	160 J	<1100
SD028	<920	<920	<920	<920	<920	<4400	<920	<920	<920	<920
SD029	<870	<870	<870	<870	<870	<4200	<870	<870	<870	<870
SD030	<920	<920	<920	<920	<920	<4400	<920	<920	<920	<920
SD031	<940	<940	<940	<940	<940	<4600	<940	<940	<940	<940
SD032	<880	<880	<880	<880	<880	<4300	<880	<880	<880	<880
SD033	<860	<860	<860	<860	<860	<4200	<860	<860	<860	<860

Notes:
1. All results are reported in micrograms per kilogram (ug/kg). The less-than sign (<) signifies the compound was not detected at the contract required quantitation limit (CRQL) or at the detection limit (DL). The number following the '<' sign is the actual CRQL or DL.
2. The shaded values represent positive detections of the particular compound.
(a) Florida Department of Environmental Regulation, "Development of an Approach to the Assessment of Sediment Quality in Florida Coastal Waters," May 1992.
"UJ" Signifies the quantitation limit was estimated and the compound was not detected. The estimated limit follows the '<' sign.
"J" Signifies the compound was detected at an estimated concentration.
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APPENDIX C-2
SUMMARY OF SEDIMENT ANALYTICAL RESULTS
SEMIVOLATILE COMPOUNDS AND POLYNUCLEAR AROMATIC HYDROCARBONS
NAVAL AIR STATION, JACKSONVILLE FLORIDA, OPERABLE UNIT 1
FEBRUARY 1992

Sample ID No.	Di-n-octyl-phthalate	Dibenz (a,h) anthracene	Dibenzofuran	Diethyl-phthalate	Dimethyl-phthalate	Fluoranthene	Fluorene	Hexachloro-benzene	Hexachloro-butadiene	Hexachloro-cyclopenta-diene
Florida Sediment Qual. Guideline(a)	---	*31 ug/kg*	---	---	*ID in low concentrations*	*380 ug/kg*	*18 ug/kg*	---	---	---
SD001	<930	<930	<930	<930	<930	<930	<930	<930	<930	<930
SD002	<440	<440	<440	<440	<440	<440	<440	<440	<440	<440
SD003	<410	<410	<410	<410	<410	<410	<410	<410	<410	<410
SD004	<430	<430	<430	<430	<430	<430	<430	<430	<430	<430
SD005	<420	<420	<420	<420	<420	<420	<420	<420	<420	<420
SD006	<420	<420	<420	<420	<420	130 J	<420	<420	<420	<420
SD007	<430	<430	<430	<430	<430	<430	<430	<430	<430	<430
SD008	<430	<430	<430	<430	<430	<430	<430	<430	<430	<430
SD009	<400	<400	<400	<400	<400	<400	<400	<400	<400	<400
SD011	<840	<840	<840	<840	<840	<840	<840	<840	<840	<840
SD011	<810	<810	<810	100 J	160 J	<810	<810	<810	<810	<810
SD012	<450	<450	<450	<450	<450	140 J	<450	<450	<450	<450
SD013	<870	<870	<870	<870	<870	<870	<870	<870	<870	<870
SD014	<900	<900	<900	<900	<900	1700	<900	<900	<900	<900
SD015	<890	<890	<890	<890	<890	<890	<890	<890	<890	<890
SD016	<840	<840	<840	<840	<840	<840	<840	<840	<840	<840
SD017	<810	<810	<810	<810	<810	<810	<810	<810	<810	<810
SD018	<850	<850	<850	<850	<850	<850	<850	<850	<850	<850
SD019	<850	<850	<850	<850	<850	<850	<850	<850	<850	<850
SD020	<870	<870	<870	<870	<870	<870	<870	<870	<870	<870
SD021	<860	<860	<860	<860	<860	<860	<860	<860	<860	<860
SD022	<870	<870	<870	<870	<870	<870	<870	<870	<870	<870
SD023	<940	<940	<940	<940	<940	<940	<940	<940	<940	<940
SD024	<1200	<1200	<1200	<1200	<1200	<1200	<1200	<1200	<1200	<1200
SD025	<940	<940	<940	<940	<940	<940	<940	<940	<940	<940
SD026	<930	<930	<930	<930	<930	150 J	<930	<930	<930	<930
SD027	<1100	<1100	<1100	<1100	<1100	380 J	<1100	<1100	<1100	<1100
SD028	<920	<920	<920	<920	<920	<920	<920	<920	<920	<920
SD029	<870	<870	<870	<870	<870	<870	<870	<870	<870	<870
SD030	<920	<920	<920	<920	<920	<920	<920	<920	<920	<920
SD031	<940	<940	<940	<940	<940	<940	<940	<940	<940	<940
SD032	<880	<880	<880	<880	<880	<880	<880	<880	<880	<880
SD033	<860	<860	<860	<860	<860	<860	<860	<860	<860	<860

Notes:
1. All results are reported in micrograms per kilogram (ug/kg). The less-than sign (<) signifies the compound was not detected at the contract required quantitation limit (CRQL) or at the detection limit (DL). The number following the '<' sign is the actual CRQL or DL.
2. The shaded values represent positive detections of the particular compound.

(a) Florida Department of Environmental Regulation, "Development of an Approach to the Assessment of Sediment Quality in Florida Coastal Waters," May 1992.
"UJ" Signifies the quantitation limit was estimated and the compound was not detected. The estimated limit follows the '<' sign.
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APPENDIX C-2
SUMMARY OF SEDIMENT ANALYTICAL RESULTS
SEMIVOLATILE COMPOUNDS AND POLYNUCLEAR AROMATIC HYDROCARBONS
NAVAL AIR STATION, JACKSONVILLE FLORIDA, OPERABLE UNIT 1
FEBRUARY 1992

Sample ID No.	Hexachloro-ethane	Indeno (1,2,3-cd) pyrene	Isophorone	N-Nitroso-di-n-propyl-amine	N-Nitroso-diphenyl-amine (1)	Naphthalene	Nitrobenzene	Pentachloro-phenol	Phenanthrene	Phenol
Florida Sediment Qual. Guideline(a)	---	---	---	---	---	*130 ug/kg*	---	*ID in low concentrations*	*140 ug/kg*	---
SD001	<930	<930	<930	<930	<930	<930	<930	<4500	<930	<930
SD002	<440	<440	<440	<440	<440	<440	<440	<2100	<440	<440
SD003	<410	<410	<410	<410	<410	<410	<410	<2000	<410	<410
SD004	<430	<430	<430	<430	<430	<430	<430	<2100	<430	<430
SD005	<420	<420	<420	<420	<420	<420	<420	<2000	<420	<420
SD006	<420	120 J	<420	<420	<420	<420	<420	<2000	<420	<420
SD007	<430	<430	<430	<430	<430	<430	<430	<2100	<430	<430
SD008	<430	<430	<430	<430	<430	<430	<430	<2100	<430	<430
SD009	<400	<400	<400	<400	<400	<400	<400	<1900	<400	<400
SD011	<840	<840	<840	<840	<840	<840	<840	<4100	<840	<840
SD011	<810	<810	<810	<810	<810	<810	<810	<4000	<810	<810
SD012	<450	87 J	<450	<450	<450	<450	<450	<2200	<450	<450
SD013	<870	<870	<870	<870	<870	<870	<870	<4200	<870	<870
SD014	<900	220 J	<900	<900	<900	<900	<900	<4400	1200	<900
SD015	<890	<890	<890	<890	<890	<890	<890	<4300	<890	<890
SD016	<840	<840	<840	<840	<840	<840	<840	<4100	<840	<840
SD017	<810	<810	<810	<810	<810	<810	<810	<4000	<810	<810
SD018	<850	<850	<850	<850	<850	<850	<850	<4100	<850	<850
SD019	<850	<850	<850	<850	<850	<850	<850	<4100	<850	<850
SD020	<870	<870	<870	<870	<870	<870	<870	<4200	<870	<870
SD021	<860	<860	<860	<860	<860	<860	<860	<4200	<860	<860
SD022	<870	<870	<870	<870	<870	<870	<870	<4200	<870	<870
SD023	<940	<940	<940	<940	<940	<940	<940	<4600	<940	<940
SD024	<1200	<1200	<1200	<1200	<1200	<1200	<1200	<5600	<1200	<1200
SD025	<940	<940	<940	<940	<940	<940	<940	<4600	<940	<940
SD026	<930	<930	<930	<930	<930	<930	<930	<4500	<930	<930
SD027	<1100	<1100	<1100	<1100	<1100	<1100	<1100	<5200	<1100	<1100
SD028	<920	<920	<920	<920	<920	<920	<920	<4400	<920	<920
SD029	<870	<870	<870	<870	<870	<870	<870	<4200	<870	<870
SD030	<920	<920	<920	<920	<920	<920	<920	<4400	<920	<920
SD031	<940	<940	<940	<940	<940	<940	<940	<4600	<940	<940
SD032	<880	<880	<880	<880	<880	<880	<880	<4300	<880	<880
SD033	<860	<860	<860	<860	<860	<860	<860	<4200	<860	<860

Notes:
1. All results are reported in micrograms per kilogram (ug/kg). The less-than sign (<) signifies the compound was not detected at the contract required quantitation limit (CRQL) or at the detection limit (DL). The number following the '<' sign is the actual CRQL or DL.
2. The shaded values represent positive detections of the particular compound.
(a) Florida Department of Environmental Regulation, "Development of an Approach to the Assessment of Sediment Quality in Florida Coastal Waters," May 1992.
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APPENDIX C-2
SUMMARY OF SEDIMENT ANALYTICAL RESULTS
SEMIVOLATILE COMPOUNDS AND POLYNUCLEAR AROMATIC HYDROCARBONS
NAVAL AIR STATION, JACKSONVILLE FLORIDA, OPERABLE UNIT 1
FEBRUARY 1992

Sample ID No.	Pyrene	bis(2-Chloro-ethoxy) methane	bis(2-Chloro-ethyl) ether	bis(2-Chloro-isopropyl) ether	bis(2-Ethyl-hexyl) phthalate
Florida Sediment Qual. Guideline(a)	*290 ug/kg*	---	---	---	*ID in low concentrations*
SD001	<930	<930	<930	<930	<930
SD002	<440	<440	<440	<440	270 J
SD003	<410	<410	<410	<410	<410
SD004	<430	<430	<430	<430	<430
SD005	<420	<420	<420	<420	<420
SD006	130 J	<420	<420	<420	81 J
SD007	<430	<430	<430	<430	170 J
SD008	<430	<430	<430	<430	<430
SD009	<400	<400	<400	<400	<400
SD011	<840	<840	<840	<840	<1800
SD011	100 J	<810	<810	<810	4100
SD012	110 J	<450	<450	<450	490
SD013	<870	<870	<870	<870	<870
SD014	1200	<900	<900	<900	<900
SD015	<890	<890	<890	<890	<890
SD016	<840	<840	<840	<840	380 J
SD017	<810	<810	<810	<810	<810
SD018	<850	<850	<850	<850	<850
SD019	<850	<850	<850	<850	<850
SD020	<870	<870	<870	<870	<870
SD021	<860	<860	<860	<860	<860
SD022	<870	<870	<870	<870	<870
SD023	<940	<940	<940	<940	<940
SD024	<1200	<1200	<1200	<1200	<1200
SD025	<940	<940	<940	<940	<940
SD026	210 J	<930	<930	<930	<930
SD027	340 J	<1100	<1100	<1100	<1100
SD028	<920	<920	<920	<920	<920
SD029	<870	<870	<870	<870	<870
SD030	<920	<920	<920	<920	<920
SD031	<940	<940	<940	<940	<940
SD032	<880	<880	<880	<880	<880
SD033	<860	<860	<860	<860	<860

Notes:
1. All results are reported in micrograms per kilogram (ug/kg). The less-than sign (<) signifies the compound was not detected at the contract required quantitation limit (CRQL) or at the detection limit (DL). The number following the '<' sign is the actual CRQL or DL.
2. The shaded values represent positive detections of the particular compound.
(a) Florida Department of Environmental Regulation, "Development of an Approach to the Assessment of Sediment Quality in Florida Coastal Waters," May 1992.
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Appendix C-3
Analytical Summary Tables
For
Pesticides and PCBs

APPENDIX C-3
SUMMARY OF SURFACE WATER ANALYTICAL RESULTS
PESTICIDES AND POLYCHLORINATED BIPHENYLS
NAVAL AIR STATION, JACKSONVILLE FLORIDA, OPERABLE UNIT 1
FEBRUARY 1992

Sample ID No.	4,4'-DDD	4,4'-DDE	4,4'-DDT	Aldrin	Aroclor-1016	Aroclor-1221	Aroclor-1232	Aroclor-1242	Aroclor-1248	Aroclor-1254
Florida Class II(a)/ Florida MCL(b)	---/ ---	---/ ---	*0.00059/ --- ug/L*	*0.00014/ --- ug/L*	*0.000045/ --- ug/L*	*0.000045/ --- ug/L*	*0.000045/ --- ug/L*	*0.000045/ --- ug/L*	*0.000045/ --- ug/L*	*0.000045/ --- ug/L*
Federal CWA(c)/ Federal MCL(d)	---/ ---	---/ ---	*0.000024/ --- ug/L*	*0.000074/ --- ug/L*	*0.000079/ 0.5 ug/L*	*0.000079/ 0.5 ug/L*	*0.000079/ 0.5 ug/L*	*0.000079/ 0.5 ug/L*	*0.000079/ 0.5 ug/L*	*0.000079/ 0.5 ug/L*
SW001	<0.1	<0.04	<0.1	<0.04	<0.5	<1.2	<1.2	<0.5	<0.2	<0.2
SW002	<0.1	<0.04	<0.1	<0.04	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
SW003	<0.1	<0.04	<0.1	<0.04	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
SW004	<0.1	<0.04	<0.1	<0.04	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
SW005	<0.1	**0.015** J	<0.1	<0.04	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
SW006	<0.1	<0.04	<0.1	<0.04	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
SW007	<0.1	<0.04	<0.1	<0.04	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
SW008	<0.1	<0.04	<0.1	<0.04	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
SW009	<0.1	<0.04	<0.1	<0.04	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
SW011	<0.1	<0.04	<0.1	<0.04	<0.5	<1.2	<1.2	<0.5	**2**	<0.2
SW012	<0.1	<0.04	<0.1	<0.04	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
SW013	<0.1	<0.04	<0.1	<0.04	<0.5	<1.2	<1.2	<0.5	**8.4**	<0.2
SW014	<0.1	<0.04	<0.1	<0.04	<0.5	<1.2	<1.2	<0.5	<0.2	<0.2
SW015	<0.1	<0.04	<0.1	<0.04	<0.5	<1.2	<1.2	<0.5	**0.98**	<0.2
SW016	<0.1	<0.04	<0.1	<0.04	<0.5	<1.2	<1.2	<0.5	<0.2	<0.2
SW017	<0.1	<0.04	<0.1	<0.04	<0.5	<1.2	<1.2	<0.5	<0.2	<0.2
SW018	<0.1	<0.04	<0.1	<0.04	<0.5	<1.2	<1.2	<0.5	<0.2	<0.2
SW019	<0.1	<0.04	<0.1	<0.04	<0.5	<1.2	<1.2	<0.5	<0.2	<0.2
SW020	<0.1	<0.04	<0.1	<0.04	<0.5	<1.2	<1.2	<0.5	<0.2	<0.2
SW021	<0.1	<0.04	<0.1	<0.04	<0.5	<1.2	<1.2	<0.5	<0.2	<0.2
SW022	<0.1	<0.04	<0.1	<0.04	<0.5	<1.2	<1.2	<0.5	<0.2	<0.2
SW023	<0.1	<0.04	<0.1	<0.04	<0.5	<1.2	<1.2	<0.5	<0.2	<0.2
SW024	<0.1	<0.04	<0.1	<0.04	<0.5	<1.2	<1.2	<0.5	<0.2	<0.2
SW025	<0.1	<0.04	<0.1	<0.04	<0.5	<1.2	<1.2	<0.5	<0.2	<0.2
SW026	<0.1	<0.04	<0.1	<0.04	<0.5	<1.2	<1.2	<0.5	<0.2	<0.2
SW027	<0.1	<0.04	<0.1	<0.04	<0.5	<1.2	<1.2	<0.5	<0.2	<0.2
SW028	<0.1	<0.04	<0.1	<0.04	<0.5	<1.2	<1.2	<0.5	<0.2	<0.2
SW029	<0.1	<0.04	<0.1	<0.04	<0.5	<1.2	<1.2	<0.5	<0.2	<0.2
SW030	<0.1	<0.04	<0.1	<0.04	<0.5	<1.2	<1.2	<0.5	<0.2	<0.2
SW031	<0.1	<0.04	<0.1	<0.04	<0.5	<1.2	<1.2	<0.5	<0.2	<0.2
SW032	<0.1	<0.04	<0.1	<0.04	<0.5	<1.2	<1.2	<0.5	<0.2	<0.2
SW033	<0.1	<0.04	<0.1	<0.04	<0.5	<1.2	<1.2	<0.5	<0.2	<0.2

Notes:
1. All results are reported in micrograms per liter (ug/L). The less-than sign (<) signifies the compound was not detected at the contract required quantitation limit (CRQL) or at the detection limit (DL). The number following the '<' sign is the actual CRQL or DL.
2. The shaded values represent positive detections of the particular compound.
(a) Florida Department of Environmental Regulation Chapter 17.302 Florida Administrative Code (FAC), "Surface Water Quality Standards," February 1992.
(b) Florida Department of Environmental Regulation Chapter 17.550 Florida Administrative Code (FAC), "Safe Drinking Water Act," January 1991.
(c) U.S. Environmental Protection Agency, "Water Quality Criteria Summary," Office of Science and Technology, Health and Ecological Criteria Division, Washington, D.C., May 1991.
(d) U.S. Environmental Protection Agency, SDWA National Primary Drinking Water Regulations per 40 CFR 141: Maximum Contaminant Levels. Last updated on July 17, 1992.
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PESTICIDES AND POLYCHLORINATED BIPHENYLS
NAVAL AIR STATION, JACKSONVILLE FLORIDA, OPERABLE UNIT 1
FEBRUARY 1992

Sample ID No.	Aroclor-1260	Dieldrin	Endosulfan I	Endosulfan II	Endosulfan sulfate	Endrin	Endrin ketone	Heptachlor	Heptachlor epoxide	Methoxychlor
Florida Class II(a)/ Florida MCL(b)	*0.000045/ --- ug/L*	*0.00014 --- ug/L*	*0.0087/ --- ug/L*	*0.0087/ --- ug/L*	*---/ ---*	*0.00023/ 0.2 ug/L*	*---/ ---*	*0.00021/ --- ug/L*	*---/ ---*	*0.03/ 100 ug/L*
Federal CWA(c)/ Federal MCL(d)	*0.000079/ 0.5 ug/L*	*0.000071/ --- ug/L*	*0.056/ --- ug/L*	*0.056/ --- ug/L*	*---/ ---*	*0.0023/ 2 ug/L*	*---/ ---*	*0.00028/ 0.4 ug/L*	*0.0038/ 0.2 ug/L*	*100/ 40 ug/L*
SW001	<0.2	<0.02	<0.05	<0.04	<0.1	<0.06	<0.1	<0.03	<0.05	<0.5
SW002	<0.5	<0.02	<0.05	<0.04	<0.1	<0.06	<0.1	<0.03	<0.05	<0.5
SW003	<0.5	<0.02	<0.05	<0.04	<0.1	<0.06	<0.1	<0.03	<0.05	<0.5
SW004	<0.5	<0.02	<0.05	<0.04	<0.1	<0.06	<0.1	<0.03	<0.05	<0.5
SW005	<0.5	<0.02	<0.05	<0.04	<0.1	<0.06	<0.1	<0.03	<0.05	<0.5
SW006	<0.5	<0.02	<0.05	<0.04	<0.1	<0.06	<0.1	<0.03	<0.05	<0.5
SW007	<0.5	<0.02	<0.05	<0.04	<0.1	<0.06	<0.1	<0.03	<0.05	<0.5
SW008	<0.5	<0.02	<0.05	<0.04	<0.1	<0.06	<0.1	<0.03	<0.05	<0.5
SW009	<0.5	<0.02	<0.05	<0.04	<0.1	<0.06	<0.1	<0.03	<0.05	<0.5
SW011	<0.2	<0.02	<0.05	<0.04	<0.1	<0.06	<0.1	<0.03	<0.05	<0.5
SW012	<0.5	<0.02	<0.05	<0.04	<0.1	<0.06	<0.1	<0.03	<0.05	<0.5
SW013	<0.2	<0.02	<0.05	<0.04	<0.1	<0.06	<0.1	<0.03	<0.05	<0.5
SW014	<0.2	<0.02	<0.05	<0.04	<0.1	<0.06	<0.1	<0.03	<0.05	<0.5
SW015	<0.2	<0.02	<0.05	<0.04	<0.1	<0.06	<0.1	<0.03	<0.05	<0.5
SW016	<0.2	<0.02	<0.05	<0.04	<0.1	<0.06	<0.1	<0.03	<0.05	<0.5
SW017	<0.2	<0.02	<0.05	<0.04	<0.1	<0.06	<0.1	<0.03	<0.05	<0.5
SW018	<0.2	<0.02	<0.05	<0.04	<0.1	<0.06	<0.1	<0.03	<0.05	<0.5
SW019	<0.2	<0.02	<0.05	<0.04	<0.1	<0.06	<0.1	<0.03	<0.05	<0.5
SW020	<0.2	<0.02	<0.05	<0.04	<0.1	<0.06	<0.1	<0.03	<0.05	<0.5
SW021	<0.2	<0.02	<0.05	<0.04	<0.1	<0.06	<0.1	<0.03	<0.05	<0.5
SW022	<0.2	<0.02	<0.05	<0.04	<0.1	<0.06	<0.1	<0.03	<0.05	<0.5
SW023	<0.2	<0.02	<0.05	<0.04	<0.1	<0.06	<0.1	<0.03	<0.05	<0.5
SW024	<0.2	<0.02	<0.05	<0.04	<0.1	<0.06	<0.1	<0.03	<0.05	<0.5
SW025	<0.2	<0.02	<0.05	<0.04	<0.1	<0.06	<0.1	<0.03	<0.05	<0.5
SW026	<0.2	<0.02	<0.05	<0.04	<0.1	<0.06	<0.1	<0.03	<0.05	<0.5
SW027	<0.2	<0.02	<0.05	<0.04	<0.1	<0.06	<0.1	<0.03	<0.05	<0.5
SW028	<0.2	<0.02	<0.05	<0.04	<0.1	<0.06	<0.1	<0.03	<0.05	<0.5
SW029	<0.2	<0.02	<0.05	<0.04	<0.1	<0.06	<0.1	<0.03	<0.05	<0.5
SW030	<0.2	<0.02	<0.05	<0.04	<0.1	<0.06	<0.1	<0.03	<0.05	<0.5
SW031	<0.2	<0.02	<0.05	<0.04	<0.1	<0.06	<0.1	<0.03	<0.05	<0.5
SW032	<0.2	<0.02	<0.05	<0.04	<0.1	<0.06	<0.1	<0.03	<0.05	<0.5
SW033	<0.2	<0.02	<0.05	<0.04	<0.1	<0.06	<0.1	<0.03	<0.05	<0.5

Notes:
1. All results are reported in micrograms per liter (ug/L). The less-than sign (<) signifies the compound was not detected at the contract required quantitation limit (CRQL) or at the detection limit (DL). The number following the '<' sign is the actual CRQL or DL.
2. The shaded values represent positive detections of the particular compound.
(a) Florida Department of Environmental Regulation Chapter 17.302 Florida Administrative Code (FAC), "Surface Water Quality Standards," February 1992.
(b) Florida Department of Environmental Regulation Chapter 17.550 Florida Administrative Code (FAC), "Safe Drinking Water Act," January 1991.
(c) U.S. Environmental Protection Agency, "Water Quality Criteria Summary," Office of Science and Technology, Health and Ecological Criteria Division, Washington, D.C., May 1991.
(d) U.S. Environmental Protection Agency, SDWA National Primary Drinking Water Regulations per 40 CFR 141: Maximum Contaminant Levels. Last updated on July 17, 1992.
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"R" Signifies t[illegible]e data point was rejected during data validation but may be usable (see text for discussion o[illegible]ted data, section).

APPENDIX C-3
SUMMARY OF SURFACE WATER ANALYTICAL RESULTS
PESTICIDES AND POLYCHLORINATED BIPHENYLS
NAVAL AIR STATION, JACKSONVILLE FLORIDA, OPERABLE UNIT 1
FEBRUARY 1992

Sample ID No.	Toxaphene	alpha-BHC	alpha-Chlordane	beta-BHC	delta-BHC	gamma-BHC (Lindane)	gamma-Chlordane
Florida Class II(a)/ Florida MCL(b)	*0.0002/ 5 ug/L*	---/ ---	---/ ---	*0.046/ --- ug/L*	---/ ---	*0.063/ 4 ug/L*	---/ ---
Federal CWA(c)/ Federal MCL(d)	*0.00071/ 3 ug/L*	---/ ---	---/ ---	*100 --- ug/L*	---/ ---	*0.0186/ 0.2 ug/L*	---/ ---
SW001	<1	<0.03	<0.05	<0.05	<0.05	<0.04	<0.05
SW002	<1	<0.03	<0.05	<0.05	<0.05	<0.04	<0.05
SW003	<1	<0.03	<0.05	<0.05	<0.05	<0.04	<0.05
SW004	<1	<0.03	<0.05	<0.05	<0.05	<0.04	<0.05
SW005	<1	<0.03	<0.05	<0.05	<0.05	<0.04	<0.05
SW006	<1	<0.03	<0.05	<0.05	<0.05	<0.04	<0.05
SW007	<1	<0.03	<0.05	<0.05	<0.05	<0.04	<0.05
SW008	<1	<0.03	<0.05	<0.05	<0.05	<0.04	<0.05
SW009	<1	<0.03	<0.05	<0.05	<0.05	<0.04	<0.05
SW011	<1	<0.03	<0.05	<0.05	<0.05	<0.04	<0.05
SW012	<1	<0.03	<0.05	<0.05	<0.05	<0.04	<0.05
SW013	<1	<0.03	<0.05	<0.05	<0.05	<0.04	<0.05
SW014	<1	<0.03	<0.05	<0.05	<0.05	<0.04	<0.05
SW015	<1	<0.03	<0.05	<0.05	<0.05	<0.04	<0.05
SW016	<1	<0.03	<0.05	<0.05	<0.05	<0.04	<0.05
SW017	<1	<0.03	<0.05	<0.05	<0.05	<0.04	<0.05
SW018	<1	<0.03	<0.05	<0.05	<0.05	<0.04	<0.05
SW019	<1	<0.03	<0.05	<0.05	<0.05	<0.04	<0.05
SW020	<1	<0.03	<0.05	<0.05	<0.05	<0.04	<0.05
SW021	<1	<0.03	<0.05	<0.05	<0.05	<0.04	<0.05
SW022	<1	<0.03	<0.05	<0.05	<0.05	<0.04	<0.05
SW023	<1	<0.03	<0.05	<0.05	<0.05	<0.04	<0.05
SW024	<1	<0.03	<0.05	<0.05	<0.05	<0.04	<0.05
SW025	<1	<0.03	<0.05	<0.05	<0.05	<0.04	<0.05
SW026	<1	<0.03	<0.05	<0.05	<0.05	<0.04	<0.05
SW027	<1	<0.03	<0.05	<0.05	<0.05	<0.04	<0.05
SW028	<1	<0.03	<0.05	<0.05	<0.05	<0.04	<0.05
SW029	<1	<0.03	<0.05	<0.05	<0.05	<0.04	<0.05
SW030	<1	<0.03	<0.05	<0.05	<0.05	<0.04	<0.05
SW031	<1	<0.03	<0.05	<0.05	<0.05	<0.04	<0.05
SW032	<1	<0.03	<0.05	<0.05	<0.05	<0.04	<0.05
SW033	<1	<0.03	<0.05	<0.05	<0.05	<0.04	<0.05

Notes:
1. All results are reported in micrograms per liter (ug/L). The less-than sign (<) signifies the compound was not detected at the contract required quantitation limit (CRQL) or at the detection limit (DL). The number following the '<' sign is the actual CRQL or DL.
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APPENDIX C–3
SUMMARY OF SEDIMENT ANALYTICAL RESULTS
PESTICIDES AND POLYCHLORINATED BIPHENYLS
NAVAL AIR STATION, JACKSONVILLE FLORIDA, OPERABLE UNIT 1
FEBRUARY 1992

Sample ID No.	4,4'–DDD	4,4'–DDE	4,4'–DDT (total)	Aldrin	Aroclor–1016	Aroclor–1221	Aroclor–1232	Aroclor–1242	Aroclor–1248	Aroclor–1254
Florida Sediment Qual. Guideline(a)	*ID in low concentrations*	*1.7 ug/kg*	*4.5 ug/kg*	*ID in low concentrations*	*24 ug/kg Total PCBs*	*24 ug/kg Total PCBs*	*24 ug/kg Total PCBs*	*24 ug/kg Total PCBs*	*24 ug/kg Total PCBs*	*24 ug/kg Total PCBs*
SD001	<52	<19	240	<19	<230	<560	<560	<230	<230	<110
SD002	7.9 J	7	<11	<3.6	<43	<110	<110	<43	<21	<21
SD003	<9.2	<3.4	<10	<3.4	<40	<100	<100	<40	<20	<20
SD004	<9.7	3.9	<11	<3.6	<42	<110	<110	<42	<21	<21
SD004R	<97	<36	<110	<36	<420	<1100	<1100	<420	<210	<210
SD005	130	120	25	<3.4	<41	<100	<100	<41	<20	<20
SD005DL	100 J	110	<51	<17	<200	<510	<510	<200	<100	<100
SD005DL	100	110 J	<51	<17	<200	<510	<510	<200	<100	<100
SD006	73	50	12	<3.4	<41	<100	<100	<41	<20	<20
SD006DL	55 J	35	<100	<34	<410	<1000	<1000	<410	<200	<200
SD007	3.7 J	4.4	<10	<3.5	<42	<100	<100	<42	<21	<21
SD007DL	<19	5 J	<21	<7	<83	<210	<210	<83	<42	<42
SD008	<9.6	4.8	<10	<3.5	<42	<100	<100	<42	<21	<21
SD009	<8.9	1.6 J	<9.6	<3.3	<39	<96	<96	<39	<19	<19
SD011	<9.4	<3.4	<10	<3.4	<41	<100	<100	<41	<41	<20
SD011	<9.1	<3.3	<9.9	<3.3	<40	<99	<99	<40	<40	<20
SD012	64	58	<11	<3.6	<43	<110	<110	<43	<22	<22
SD012DL	49 J	48	<54	<18	<220	<540	<540	<220	<110	<110
SD013	<9.9	2.9 J	<11	<3.6	<43	<110	<110	<43	<43	<21
SD014	<10	<3.7	<11	<3.7	<44	<110	<110	<44	<44	<22

Notes:
1. All results are reported in micrograms per kilogram (ug/kg). The less–than sign (<) signifies the compound was not detected at the contract required quantitation limit (CRQL) or at the detection limit (DL). The number following the '<' sign is the actual CRQL or DL.
2. The shaded values represent positive detections of the particular compound.

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"J" Signifies the compound was detected at an estimated concentration.
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APPENDIX C-3
SUMMARY OF SEDIMENT ANALYTICAL RESULTS
PESTICIDES AND POLYCHLORINATED BIPHENYLS
NAVAL AIR STATION, JACKSONVILLE FLORIDA, OPERABLE UNIT 1
FEBRUARY 1992

Sample ID No.	Aroclor-1260	Dieldrin	Endosulfan I	Endosulfan II	Endosulfan sulfate	Endrin	Endrin ketone	Heptachlor	Heptachlor epoxide	Methoxychlor
Florida Sediment Qual. Guideline(a)	*24 ug/kg Total PCBs*	*ID in low concentrations*	*ID in low concentrations*	*ID in low concentrations*	---	*ID in low concentrations*	---	*ID in low concentrations*	*ID in low concentrations*	---
SD001	<110	<9.2	<28	<19	<56	<28	<56	<14	<28	<110
SD002	180	<1.7	<5.3	<3.6	<11	<5.3	<11	<2.7	<5.3	<21
SD003	62	<1.6	<5	<3.4	<10	<5	<10	<2.5	<5	<20
SD004	<21	0.91 J	<5.3	<3.6	<11	<5.3	<11	<2.6	<5.3	<21
SD004R	<210	<17	<53	<36	<110	<53	<110	<26	<53	<210
SD005	200	<1.6	<5.1	<3.4	<10	<5.1	<10	<2.5	<5.1	<20
SD005DL	190 J	<8.2	<25	<17	<51	<25	<51	<13	<25	<100
SD005DL	190	<8.2	<25	<17	<51	<25	<51	<13	<25	<100
SD006	1800	<1.6	<5.1	<3.4	<10	<5.1	<10	<2.5	<5.1	<20
SD006DL	1400	<16	<51	<34	<100	<51	<100	<25	<51	<200
SD007	330	<1.7	<5.2	<3.5	<10	<5.2	<10	<2.6	<5.2	<21
SD007DL	310	<3.4	<10	<7	<21	<10	<21	<5.2	<10	<42
SD008	<21	<1.7	<5.2	<3.5	<10	<5.2	<10	<2.6	<5.2	<21
SD009	<19	<1.6	<4.8	<3.3	<9.6	<4.8	<9.6	<2.4	<4.8	<19
SD011	1200	<1.6	<5.1	<3.4	<10	<5.1	<10	<2.5	<5.1	<20
SD011	830	<1.6	<4.9	<3.3	<9.9	<4.9	<9.9	<2.5	<4.9	<20
SD012	610	<1.8	<5.4	<3.6	<11	<5.4	<11	<2.7	<5.4	<22
SD012DL	580	<8.8	<27	<18	<54	<27	<54	<14	<27	<110
SD013	<21	<1.7	<5.3	<3.6	<11	<5.3	<11	<2.7	<5.3	<21
SD014	130	<1.8	<5.5	<3.7	<11	<5.5	<11	<2.7	<5.5	<22

Notes:
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2. The shaded values represent positive detections of the particular compound.

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APPENDIX C-3
SUMMARY OF SEDIMENT ANALYTICAL RESULTS
PESTICIDES AND POLYCHLORINATED BIPHENYLS
NAVAL AIR STATION, JACKSONVILLE FLORIDA, OPERABLE UNIT 1
FEBRUARY 1992

Sample ID No.	Toxaphene	alpha-BHC	alpha-Chlordane	beta-BHC	delta-BHC	gamma-BHC (Lindane)	gamma-Chlordane
Florida Sediment Qual. Guideline(a)	*ID in low concentrations*	*ID in low concentrations*	---	---	---	*ID in low concentrations*	*ID in low concentrations*
SD001	<460	<14	<23	<28	<28	<19	<23
SD002	<89	<2.7	<4.4	<5.3	<5.3	<3.6	<4.4
SD003	<84	<2.5	<4.1	<5	<5	<3.4	<4.1
SD004	<88	<2.6	2.3 J	<5.3	<5.3	<3.6	2.4 J
SD004R	<880	<26	<43	<53	<53	<36	<43
SD005	<85	<2.5	<4.2	<5.1	<5.1	<3.4	<4.2
SD005DL	<420	<13	<21	<25	<25	<17	<21
SD005DL	<420	<13	<21	<25	<25	<17	<21
SD006	<85	<2.5	<4.2	<5.1	<5.1	<3.4	<4.2
SD006DL	<850	<25	<42	<51	<51	<34	<42
SD007	<87	<2.6	<4.3	<5.2	<5.2	<3.5	<4.3
SD007DL	<170	<5.2	<8.6	<10	<10	<7	<8.6
SD008	<87	<2.6	<4.3	<5.2	<5.2	<3.5	<4.3
SD009	<81	<2.4	<4	<4.8	<4.8	<3.3	<4
SD011	<84	<2.5	<4.2	<5.1	<5.1	<3.4	<4.2
SD011	<81	<2.5	2.2 J	<4.9	<4.9	<3.3	<4.1
SD012	<91	<2.7	<4.5	<5.4	<5.4	<3.6	<4.5
SD012DL	<450	<14	<22	<27	<27	<18	<22
SD013	<88	<2.7	<4.4	<5.3	<5.3	<3.6	<4.4
SD014	<90	<2.7	2.9 J	<5.5	<5.5	<3.7	2.8 J

Notes:
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APPENDIX C-3
SUMMARY OF SEDIMENT ANALYTICAL RESULTS
PESTICIDES AND POLYCHLORINATED BIPHENYLS
NAVAL AIR STATION, JACKSONVILLE FLORIDA, OPERABLE UNIT 1
FEBRUARY 1992

Sample ID No.	4,4'-DDD	4,4'-DDE	4,4'-DDT (total)	Aldrin	Aroclor-1016	Aroclor-1221	Aroclor-1232	Aroclor-1242	Aroclor-1248	Aroclor-1254
Florida Sediment Qual. Guideline(a)	*ID in low concentrations*	*1.7 ug/kg*	*4.5 ug/kg*	*ID in low concentrations*	*24 ug/kg Total PCBs*	*24 ug/kg Total PCBs*	*24 ug/kg Total PCBs*	*24 ug/kg Total PCBs*	*24 ug/kg Total PCBs*	*24 ug/kg Total PCBs*
SD015	<10	<3.6	<11	6.1	<43	<110	<110	<43	<43	<22
SD016	<9.4	<3.4	<10	<3.4	<41	<100	<100	<41	<41	<20
SD017	<460	<170	<490	<170	<2000	<4900	<4900	<2000	<2000	<990
SD017DL	<46	<17	<49	<17	<200	<490	<490	<200	<200	<99
SD018	<9.5	<3.5	<10	<3.5	<41	<100	<100	<41	<41	<21
SD019	<9.5	<3.5	<10	<3.5	<41	<100	<100	<41	<41	<21
SD020	<9.7	<3.6	<11	<3.6	<42	<110	<110	<42	<42	<21
SD021	<9.6	<3.5	<10	<3.5	<42	<100	<100	<42	<42	<21
SD022	<9.7	2.5 J	<11	<3.6	<42	<110	<110	<42	<42	<21
SD023	<53	<19	<57	<19	<230	<570	<570	<230	<230	<110
SD024	<13	<4.7	<14	<4.7	<56	<140	<140	<56	<56	<28
SD025	<11	5.1	<11	<3.9	<46	<110	<110	<46	<46	<23
SD026	<100	<38	<110	<38	<450	<1100	<1100	<450	<450	<230
SD027	<12 UJ	<4.4 UJ	<13	<4.4	<52	<130	<130	<52	<52	<26
SD028	<10 UJ	<3.7 UJ	<11	<3.7	<44	<110	<110	<44	<44	<22
SD029	<9.7	<3.6	<11	<3.6	<42	<110	<110	<42	<42	<21
SD030	<10	2.5 J	<11	<3.7	<44	<110	<110	<44	<44	<22
SD031	<11 UJ	<3.9 UJ	<11	<3.9	<46	<110	<110	<46	<46	<23
SD032	<9.9	<3.6	<11	<3.6	<43	<110	<110	<43	<43	<21
SD033	<9.6	<3.5	<10	<3.5	<42	<100	<100	<42	<42	<21

Notes:
1. All results are reported in micrograms per kilogram (ug/kg). The less-than sign (<) signifies the compound was not detected at the contract required quantitation limit (CRQL) or at the detection limit (DL). The number following the '<' sign is the actual CRQL or DL.
2. The shaded values represent positive detections of the particular compound.

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APPENDIX C-3
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PESTICIDES AND POLYCHLORINATED BIPHENYLS
NAVAL AIR STATION, JACKSONVILLE FLORIDA, OPERABLE UNIT 1
FEBRUARY 1992

Sample ID No.	Aroclor-1260	Dieldrin	Endosulfan I	Endosulfan II	Endosulfan sulfate	Endrin	Endrin ketone	Heptachlor	Heptachlor epoxide	Methoxychlor
Florida Sediment Qual. Guideline(a)	*24 ug/kg Total PCBs*	*ID in low concentrations*	*ID in low concentrations*	*ID in low concentrations*	---	*ID in low concentrations*	---	*ID in low concentrations*	*ID in low concentrations*	---
SD015	560	<1.8	<5.4	<3.6	<11	<5.4	<11	<2.7	<5.4	<22
SD016	<20	<1.6	<5.1	<3.4	<10	<5.1	<10	<2.5	<5.1	<20
SD017	14000	<80	<250	<170	<490	<250	<490	<120	<250	<990
SD017DL	15000	<8	<25	<17	<49	<25	<49	<12	<25	<99
SD018	310	<1.7	<5.1	<3.5	<10	<5.1	<10	<2.6	<5.1	<21
SD019	290	<1.7	<5.1	<3.5	<10	<5.1	<10	<2.6	<5.1	<21
SD020	600	<1.7	<5.3	<3.6	<11	<5.3	<11	<2.6	<5.3	<21
SD021	<21	<1.7	<5.2	<3.5	<10	<5.2	<10	<2.6	<5.2	<21
SD022	<21	<1.7	<5.3	<3.6	<11	<5.3	<11	<2.6	<5.3	<21
SD023	<110	<9.3	<29	<19	<57	<29	<57	<14	<29	<110
SD024	<28	<2.3	<7	<4.7	<14	<7	<14	<3.5	<7	<28
SD025	<23	<1.9	<5.7	<3.9	6 J	<5.7	<11	<2.9	<5.7	<23
SD026	2200	<18	<56	<38	<110	<56	<110	<28	<56	<230
SD027	310	<2.1 UJ	<6.5	<4.4	<13 UJ	<6.5	<13	<3.2	<6.5	<26
SD028	58	<1.8	<5.6	<3.7 UJ	<11	<5.6 UJ	<11	<2.8	<5.6	<22
SD029	<21	<1.7	<5.3	<3.6	<11	<5.3	<11	<2.6	<5.3	<21
SD030	<22	<1.8	<5.6	<3.7	<11	<5.6	<11	<2.8	<5.6	<22
SD031	200	<1.9	<5.7	<3.9 UJ	<11	<5.7 UJ	<11	<2.9	<5.7	<23
SD032	<21	<1.7	<5.3	<3.6	<11	<5.3	<11	<2.7	<5.3	<21
SD033	<21	<1.7	<5.2	<3.5	<10	<5.2	<10	<2.6	<5.2	<21

Notes:
1. All results are reported in micrograms per kilogram (ug/kg). The less-than sign (<) signifies the compound was not detected at the contract required quantitation limit (CRQL) or at the detection limit (DL). The number following the '<' sign is the actual CRQL or DL.
2. The shaded values represent positive detections of the particular compound.
(a) Florida Department of Environmental Regulation, "Development of an Approach to the Assessment of Sediment Quality in Florida Coastal Waters," May 1992.
"UJ" Signifies the quantitation limit was estimated and the compound was not detected. The estimated limit follows the '<' sign.
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"R" Signifies that the data point was rejected during data validation under the Contract Lab Program (CLP).

APPENDIX C-3
SUMMARY OF SEDIMENT ANALYTICAL RESULTS
PESTICIDES AND POLYCHLORINATED BIPHENYLS
NAVAL AIR STATION, JACKSONVILLE FLORIDA, OPERABLE UNIT 1
FEBRUARY 1992

Sample ID No.	Toxaphene	alpha-BHC	alpha-Chlordane	beta-BHC	delta-BHC	gamma-BHC (Lindane)	gamma-Chlordane
Florida Sediment Qual. Guideline(a)	*ID in low concentrations*	*ID in low concentrations*	---	---	---	*ID in low concentrations*	*ID in low concentrations*
SD015	<89	<2.7	<4.5	<5.4	<5.4	<3.6	<4.5
SD016	<84	<2.5	<4.2	<5.1	<5.1	<3.4	<4.2
SD017	<4100	<120	<200	<250	<250	<170	<200
SD017DL	<410	<12	<20	<25	<25	<17	<20
SD018	<85	<2.6	<4.2	<5.1	<5.1	<3.5	<4.2
SD019	<85	<2.6	<4.2	<5.1	<5.1	<3.5	<4.2
SD020	<87	<2.6	<4.3	<5.3	<5.3	<3.6	<4.3
SD021	<86	<2.6	<4.3	<5.2	<5.2	<3.5	<4.3
SD022	<87	<2.6	<4.3	<5.3	<5.3	<3.6	<4.3
SD023	<470	<14	<24	<29	<29	<19	<24
SD024	<120	<3.5	<5.8	<7	<7	<4.7	<5.8
SD025	<94	<2.9	<4.7	<5.7	<5.7	<3.9	<4.7
SD026	<930	<28	46 J	<56	<56	<38	61 J
SD027	<110	<3.2	4 J	<6.5	<6.5	<4.4	3.3 J
SD028	<92	<2.8	<4.6	<5.6	<5.6	<3.7	<4.6
SD029	<87	<2.6	<4.3	<5.3	<5.3	2 J	<4.3
SD030	<92	<2.8	<4.6	<5.6	<5.6	<3.7	<4.6
SD031	<94	<2.9	<4.7	<5.7	<5.7	<3.9	<4.7
SD032	<88	<2.7	<4.4	<5.3	<5.3	<3.6	<4.4
SD033	<86	<2.6	<4.3	<5.2	<5.2	<3.5	<4.3

Notes:
1. All results are reported in micrograms per kilogram (ug/kg). The less-than sign (<) signifies the compound was not detected at the contract required quantitation limit (CRQL) or at the detection limit (DL). The number following the '<' sign is the actual CRQL or DL.
2. The shaded values represent positive detections of the particular compound.
(a) Florida Department of Environmental Regulation, "Development of an Approach to the Assessment of Sediment Quality in Florida Coastal Waters," May 1992.
"UJ" Signifies the quantitation limit was estimated and the compound was not detected. The estimated limit follows the '<' sign.
"J" Signifies the compound was detected at an estimated concentration.
"R" Signifies that the data point was rejected during data validation under the Contract Lab Program (CLP).

Appendix C-4
Analytical Summary Tables
For Inorganics

APPENDIX C-4
SUMMARY OF SURFACE WATER ANALYTICAL RESULTS
INORGANICS, TARGET ANALYTE LIST
NAVAL AIR STATION, JACKSONVILLE FLORIDA, OPERABLE UNIT 1
FEBRUARY 1992

Sample ID No.	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Calcium	Chromium	Cobalt	Copper
Florida Class II(a)/ Florida MCL(b)	*1500/ --- ug/L*	*4300/ 5 ug/L*	*50/ 50 ug/L*	*---/ 1000 ug/L*	*0.13/ 1 ug/L*	*9.3/ 10 ug/L*	*---/ ---*	*---/ 50 ug/L*	*---/ ---*	*2.9/ 1300 ug/L*
Federal CWA(c)/ Federal MCL(d)	*---/ ---*	*30/ 5 ug/L*	*0.0022/ 50 ug/L*	*1000/ 2000 ug/L*	*0.0037/ 1 ug/L*	*1.1/ 5 ug/L*	*---/ ---*	*---/ 100 ug/L*	*---/ ---*	*12/ 1300 ug/L*
SW001	86.9 J	<10.1	0.9 J	69.5 J	<0.3	0.56 J	36300	<2	<3.1	4.7 J
SW002	1100	<40	6.4 J	167 J	<0.19	3.4	71000	5.9 J	<5.1	<35.4
SW003	440	<40	3.1 J	142 J	<0.19	<0.43	76100	2.7 J	<5.1	<7.3
SW004	81.6 J	<10.9	12.8	17.9 J	<0.19	<0.32	41100	<2.1	<3.6	<21.1
SW005	257	<10.9	1.7 J	264	<0.19	<0.75	152000	2.2 J	<3.6	<10.9
SW006	83.7 J	<10.9	0.76 J	105 J	<0.19	<0.62	88200	2.9 J	<3.6	<7.1
SW007	126 J	<10.9	<0.69	104 J	<0.19	<0.23	75500	<2.1	<3.6	<8.1
SW008	211	<10.9	23.9	36.5 J	<0.19	1	65600	<2.1	<3.6	<15
SW009	394	<10.9	8.3 J	94.1 J	<0.19	<0.72	138000	2.9 J	<3.6	<43.9
SW011	268	<10.1	0.9 J	305	<0.3	0.31 J	143000	<2	<3.1	<1.4
SW012	298	<40	14.2	212	<0.19	<1.2	99100	2.4 J	<5.1	<12.1
SW013	33.1 J	<10.1	1.3 J	311	<0.3	<0.1	130000	<2	<3.1	<1.4
SW014	198 J	<10.1	9.8 J	84 J	<0.3	0.4 J	17700	<2	<3.1	1.5 J
SW015	54.2 J	12.8 J	0.7 J	302	<0.3	0.12 J	115000	<2	<3.1	<1.4
SW016	<14.3	<10.1	<1.6	120 J	<0.3	0.44 J	80000	<2	<3.1	1.7 J
SW017	254	12 J	1.3 J	124 J	<0.3	<0.1	36600	<2	<3.1	<1.4
SW018	74.6 J	<10.1	0.9 J	114 J	<0.3	<0.1	56300	<2	<3.1	<1.4
SW019	81.1 J	<10.1	0.6 J	150 J	<0.3	<0.1	28700	<2	<3.1	<1.4
SW020	364	<10.1	<0.4	139 J	<0.3	0.11 J	32000	<2	<3.1	<1.4
SW021	28.5 J	<10.1	<0.4	86.6 J	<0.3	<0.1	52000	<2	<3.1	2.1 J
SW022	133 J	<10.1	0.6 J	49.3 J	<0.3	<0.1	18200	<2	<3.1	1.5 J
SW023	21 J	<10.1	<0.4	72.3 J	<0.3	<0.1	49800	<2	<3.1	<1.4
SW024	54.5 J	<10.1	<0.4	63.8 J	<0.3	<0.1	44900	<2	<3.1	<1.4
SW025	696	<10.1	0.9 J	41.3 J	<0.3	<0.1	4490 J	<2	3.3 J	<1.4
SW026	559	<10.1	<0.4	65.1 J	<0.3	0.31 J	44600	<2	<3.1	3.9 J
SW027	283 J	<10.1	<0.8	49.6 J	<0.32	0.13 J	44400	<2	<3.1	4.2 J
SW028	90.1 J	<10.1	<1.1	13 J	<0.66	<0.1	34600	<2	<3.1	1.4 J
SW029	125 J	<10.1	<1.2	12.3 J	<0.66	<0.1	34400	<2	<3.1	1.4 J
SW030	102 J	11.5 J	<1.5	12.1 J	<0.32	<0.1	34200	<2	6.3 J	1.4 J
SW031	107 J	<10.1	<1.3	12.7 J	<0.66	<0.1	34400	<2	5.5 J	1.7 J
SW032	130 J	<10.1	<1.1	12.3 J	<0.66	<0.1	36400	<2	<3.1	<1.4
SW033	87.2 J	<10.1	<1	12.3 J	<0.33	<0.1	34100	<2	<3.1	2.4 J

Notes:
1. All results are reported in micrograms per liter (ug/L). The less-than sign (<) signifies the compound was not detected at the contract required quantitation limit (CRQL) or at the detection limit (DL). The number following the '<' sign is the actual CRQL or DL.
2. The shaded values represent positive detections of the particular compound.
(a) Florida Department of Environmental Regulation Chapter 17.302 Florida Administrative Code (FAC), "Surface Water Quality Standards," February 1992.
(b) Florida Department of Environmental Regulation Chapter 17.550 Florida Administrative Code (FAC), "Safe Drinking Water Act," January 1991.
(c) U.S. Environmental Protection Agency, "Water Quality Criteria Summary," Office of Science and Technology, Health and Ecological Criteria Division, Washington, D.C., May 1991.
(d) U.S. Environmental Protection Agency, SDWA National Primary Drinking Water Regulations per 40 CFR 141: Maximum Contaminant Levels. Last updated on July 17, 1992.
"UJ" Signifies the quantitation limit was estimated and the compound was not detected. The estimated limit follows the '<' sign.
"J" Signifies the compound was detected at an estimated concentration.
"R" Signifies that the data point was rejected during data validation but may be usable (see text for discussion of rejected data, section).

APPENDIX C-4
SUMMARY OF SURFACE WATER ANALYTICAL RESULTS
INORGANICS, TARGET ANALYTE LIST
NAVAL AIR STATION, JACKSONVILLE FLORIDA, OPERABLE UNIT 1
FEBRUARY 1992

Sample ID No.	Cyanide	Iron	Lead	Magnesium	Manganese	Mercury	Nickel	Potassium	Selenium	Silver
Florida Class II(a)/ Florida MCL(b)	1/ 200 ug/L	300/ --- ug/L	5.6/ 50 ug/L	---/ ---	100/ --- ug/L	0.025/ 2 ug/L	8.3/ 100 ug/L	---/ ---	71/ 10 ug/L	0.05/ 50 ug/L
Federal CWA(c)/ Federal MCL(d)	5.2/ 200 ug/L	300/ --- ug/L	3.2/ 50 ug/L	---/ ---	50/ --- ug/L	0.012/ 2 ug/L	13.4 100 ug/L	---/ ---	5/ 50 ug/L	0.12/ --- ug/L
SW001	<3 UJ	928	2.6 J	11900	34.7 J	<0.1	<6.5	8290	<0.6	<0.2
SW002	<1.8	4310	31.4 J	25600	281	<0.16 UJ	10.2 J	15400	<1.3	<0.86 UJ
SW003	<1.8	2610	4 J	25700	258	<0.16 UJ	<7	13800	<1.3	<0.46 UJ
SW004	<10	156 J	1.9 J	8120	131	<0.16 UJ	<3.8	12600	<1.3	<0.2 UJ
SW005	3.1 J	1710	22.8 J	38800	218	<0.16	10 J	19100	1.3 R	<0.23 UJ
SW006	16.7	1310	1.6 J	21000	129	<0.16	6.4 J	11500	<1.3	<0.23 UJ
SW007	<1.8	495	0.93 J	20600	53	<0.16	5.3 J	11500	1.4 J	<0.23 UJ
SW008	<10	166 J	4.7	13400	16.6	<0.16 UJ	<3.8	17300	<1.3	<0.15 UJ
SW009	<10	5280 J	10.9	37700	174	<0.16 UJ	16.4 J	26500	<1.3	<0.23 UJ
SW011	<3 UJ	1370	2.3 J	39600	170 J	<0.1	<6.5	20500	<0.6	<0.2 UJ
SW012	2.8 J	1490	9.4 J	42200	133	<0.16 UJ	9 J	33000	<1.3	<0.2 UJ
SW013	<3 UJ	502	1 J	40300	210 J	<0.1	11.3 J	21500	<0.6	0.22 J
SW014	<3 UJ	16700	4.4	8560	23.9 J	<0.1	<6.5	1680 J	<0.6	0.33 J
SW015	<3 UJ	232	0.9 J	40700	86.3 J	<0.1	<6.5	22500	<0.6	0.26 J
SW016	<3	1290	<0.7	36700	140 J	<0.1	<6.5	25900	<0.6	0.2 R
SW017	<3 UJ	5240	1.2 J	17700	86.6 J	<0.1	8.1 J	4770 J	<0.6	<0.2 UJ
SW018	<3 UJ	1300	1 J	24600	138 J	<0.1	<6.5	15400	<0.6	0.25 J
SW019	<3 UJ	1690	1.1 J	15900	71.6 J	<0.1	<6.5	4150 J	<0.6	0.26 J
SW020	<3 UJ	1900	1.7 J	16300	118 J	<0.1	<6.5	6410	<0.6	0.34 J
SW021	<3 UJ	1290	<0.7	14700	61.2 J	<0.1	<6.5	4190 J	<0.6	0.32 J
SW022	<3 UJ	1520	0.8 J	3240 J	20.4 J	<0.1	<6.5	847 J	<0.6	<0.2
SW023	<3 UJ	1080	1.3 J	13300	53.5 J	<0.1	<6.5	3590 J	<0.6	<0.2
SW024	<3 UJ	965	1.2 J	11900	36.8 J	<0.1	<6.5	3110 J	<0.6	<0.2
SW025	<3 UJ	4360	1 J	1560 J	38.5 J	<0.1	<6.5	1020 J	<0.6	0.2 J
SW026	<3 UJ	2160	26.6	12300	40.6 J	<0.1	<6.5	3100 J	<0.6	<0.2
SW027	<3	1310	4.2	14100	49.1 J	<0.1	<6.5	3860 J	<0.6	0.2 R
SW028	<3	281	<0.7	14100	8.1 J	<0.1	<6.5	4350 J	<0.6	0.2 R
SW029	<3	327	1 J	14200	8.8 J	<0.1	<6.5	4520 J	<0.6	0.2 R
SW030	<3	283	0.7 J	14000	7.3 J	<0.1	<6.5	4360 J	<0.6	0.2 R
SW031	<3	308	1.2 J	13900	9.7 J	<0.1	<6.5	4430 J	<0.6	0.2 R
SW032	<3	316	0.9 J	19800	7 J	<0.1	<6.5	6140	<0.6	0.2 R
SW033	<3	264	<0.7	14100	7.4 J	<0.1	<6.5	4440 J	<0.6	0.2 R

Notes:
1. All results are reported in micrograms per liter (ug/L). The less-than sign (<) signifies the compound was not detected at the contract required quantitation limit (CRQL) or at the detection limit (DL). The number following the '<' sign is the actual CRQL or DL.
2. The shaded values represent positive detections of the particular compound.
(a) Florida Department of Environmental Regulation Chapter 17.302 Florida Administrative Code (FAC), "Surface Water Quality Standards," February 1992.
(b) Florida Department of Environmental Regulation Chapter 17.550 Florida Administrative Code (FAC), "Safe Drinking Water Act," January 1991.
(c) U.S. Environmental Protection Agency, "Water Quality Criteria Summary," Office of Science and Technology, Health and Ecological Criteria Division, Washington, D.C., May 1991.
(d) U.S. Environmental Protection Agency, SDWA National Primary Drinking Water Regulations per 40 CFR 141: Maximum Contaminant Levels. Last updated on July 17, 1992.
"UJ" Signifies the quantitation limit was estimated and the compound was not detected. The estimated limit follows the '<' sign.
"J" Signifies the compound was detected at an estimated concentration.
"R" Signifie[illegible] the data point was rejected during data validation but may be usable (see text for discussion [illegible]cted data, section).

APPENDIX C-4
SUMMARY OF SURFACE WATER ANALYTICAL RESULTS
INORGANICS, TARGET ANALYTE LIST
NAVAL AIR STATION, JACKSONVILLE FLORIDA, OPERABLE UNIT 1
FEBRUARY 1992

Sample ID No.	Sodium	Thallium	Vanadium	Zinc
Florida Class II(a)/	---/	48/	---/	86/
Florida MCL(b)	160,000 ug/L	1 ug/L	---	--- ug/L
Federal CWA(c)/	---/	---/	---/	110/
Federal MCL(d)	---	1 ug/L	---	--- ug/L
SW001	27500	<0.9	2.2 J	14.7 J
SW002	37900	<1.4	4 J	109
SW003	31700	<1.4	<2.7	<29.7
SW004	7340 J	<1.4 UJ	<1.7 UJ	<16.6
SW005	29800	<1.4	<1.7 UJ	<46.5
SW006	19400	<1.4	<1.7 UJ	82.8
SW007	19800	<1.4	<1.7 UJ	<30.4
SW008	10000 J	1.5 J	<1.7 UJ	<47.1
SW009	22000 J	<1.4	3.4 J	<39.8
SW011	31100	<0.9	3.3 J	5.3 J
SW012	75500	<1.4	<2.7	<44.1
SW013	32100	<0.9	1.5 J	4.4 J
SW014	26800	<0.9	3.8 J	9.8 J
SW015	32600	<0.9	2.4 J	5.3 J
SW016	71700	<0.9	3.1 J	18.5 J
SW017	28600	<0.9	<1.2	7.4 J
SW018	57900	<0.9	<1.2	4.1 J
SW019	29900	<0.9	<1.2	9.5 J
SW020	35100	<0.9	2.4 J	5.9 J
SW021	28600	<0.9	1.9 J	18.6 J
SW022	10500	<0.9	<1.2	7.1 J
SW023	24200	<0.9	<1.2	12.6 J
SW024	22400	<0.9	<1.2	9.5 J
SW025	9010	<0.9	2.7 J	18 J
SW026	25300	<0.9	2.5 J	32.6
SW027	38700	<0.9	5.5 J	15.5 J
SW028	95800	<0.9	3.7 J	<2.3
SW029	96900	<0.9	4.1 J	<3.8
SW030	96500	<0.9	4.9 J	<2
SW031	94500	<0.9	4.5 J	<2.3
SW032	148000	<0.9	3.7 J	<2
SW033	96900	<0.9	3.7 J	<4.7

Notes:
1. All results are reported in micrograms per liter (ug/L). The less-than sign (<) signifies the compound was not detected at the contract required quantitation limit (CRQL) or at the detection limit (DL). The number following the '<' sign is the actual CRQL or DL.
2. The shaded values represent positive detections of the particular compound.

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(b) Florida Department of Environmental Regulation Chapter 17.550 Florida Administrative Code (FAC), "Safe Drinking Water Act," January 1991.
(c) U.S. Environmental Protection Agency, "Water Quality Criteria Summary," Office of Science and Technology, Health and Ecological Criteria Division, Washington, D.C., May 1991.
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"UJ" Signifies the quantitation limit was estimated and the compound was not detected. The estimated limit follows the '<' sign.
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APPENDIX C-4
SUMMARY OF SEDIMENT ANALYTICAL RESULTS
INORGANICS, TARGET ANALYTE LIST
NAVAL AIR STATION, JACKSONVILLE FLORIDA, OPERABLE UNIT 1
FEBRUARY 1992

Sample ID No.	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Calcium	Chromium	Cobalt	Copper
Florida Sediment Qual. Guidelines(a)	---	---	*8 mg/kg*	---	---	*1 mg/kg*	---	*33 mg/kg*	---	*28 mg/kg*
SD001	2640 J	8.2 J	5.2	47.5 J	<0.08	9.4	3710	17.1	4.1 J	104
SD002	3250	<10.5	1.9 J	49.1 J	0.16 J	4	1620	50.3	1.5 J	1210
SD003	2320	<9.9	0.58 J	14.1 J	0.07 J	<0.73 UJ	1240 J	4.8	<1.3	1.5 J
SD004	2260 J	<3	0.55 J	11.5 J	0.09 J	<0.82	3740 J	4.2	<1	3.3 J
SD005	2640 J	<2.9 UJ	0.82 J	13 J	0.13 J	<0.78	4310 J	4.9 J	1.2 J	<3.5
SD006	468 J	<2.8 UJ	1.5 J	8.3 J	<0.05	1.2 J	276 J	15 J	<0.91	11.8 J
SD007	6400 J	<2.9 UJ	1.1 J	13.6 J	0.06 J	<0.79	798 J	9.3 J	<0.95	6.3 J
SD008	849 J	<3	1 J	3.6 J	<0.05	<0.8	579 J	2.9	<0.97	5 J
SD009	926 J	<2.9	0.47 J	1.8 J	<0.05	<0.77	285 J	4.9	<0.94	<2.2
SD011	9560 J	<2.6	0.74 J	19.7 J	<0.08	<0.25	939 J	13	<0.79	2.2 J
SD011	6960	<2.5 UJ	0.27 J	13.6 J	0.22 J	<0.25	951 J	9.3	1.2 J	2.4 J
SD012	1510	<10.7	3.5	50.2	0.06 J	3.7 J	4940	17.1	<1.4	40.3
SD013	4800 J	<2.7	0.82 J	22.6 J	<0.08	0.35 J	1990	6.7	1.4 J	3.5 J
SD014	1630 J	<2.8	2.1 J	11.4 J	<0.08	2.2	11200	3.1	<0.85	4.4 J
SD015	757 J	1560	0.3 J	5.9 J	<0.08	<0.27	504 J	4.1	<0.84	6.2 J
SD016	5600 J	<2.6	0.53 J	20.7 J	<0.15	<0.25	466 J	6.9	<0.79	1.5 J
SD017	5450 J	<2.5	0.12 J	23.7 J	<0.07	<0.25	140 J	7.4	0.88 J	<1.4
SD018	1000 J	<2.6	0.18 J	3.6 J	<0.08	<0.26	207 J	2 J	<0.79	<1.5
SD019	618 J	<2.6	0.2 J	3.7 J	<0.08	<0.26	138 J	2.2 J	<0.79	<0.97
SD020	2930 J	<2.6	0.63 J	13 J	<0.08	0.53 J	453 J	5	<0.81	1.9 J
SD021	5850 J	2.8 J	0.88 J	15.9 J	<0.08	<0.26	1670	8.7	<0.8	<1.1
SD022	1880 J	<2.6	0.16 J	9.6 J	<0.08	<0.26	1140 J	2.9	3 J	<1.3
SD023	1370 J	<2.9	0.34 J	14.2 J	<0.09	0.37 J	1490	3.2	<0.89	3.8 J
SD024	1260 J	<3.5	0.35 J	12.9 J	<0.11	0.41 J	1890	2.2 J	<1.1	2.5 J
SD025	1260 J	<2.9	0.72 J	7.5 J	<0.09	<0.29	188 J	1.8 J	<0.89	<1.2
SD026	1020 J	<2.8	0.76 J	6.1 J	<0.08	0.73 J	748 J	5.6	<0.87	5.9 J
SD027	1770 J	<3.3	0.97 J	10.8 J	<0.21	0.41 J	2010	7.5	1.2 J	7.1 J
SD028	593 J	<2.8	0.42 J	3 J	3.1	<0.28	519 J	3.3	<0.86	2.4 J
SD029	514 J	<2.7	0.34 J	0.76 J	<0.17	<0.26	312 J	2.4 J	<0.82	3.4 J
SD030	364 J	<2.8	0.36 J	0.75 J	<0.18	<0.28	403 J	3	<0.86	1.7 J
SD031	665 J	<2.9	0.51 J	2.8 J	<0.18	<0.28	481 J	4.7	<0.88	3 J
SD032	450 J	<2.7	0.35 J	0.77 J	<0.18	<0.27	279 J	2.1 J	<0.83	1.8 J
SD033	352 J	<2.6	0.23 J	0.75 J	<0.17	<0.26	238 J	2.5 J	<0.81	1.5 J

Notes:
1. All results are reported in milligrams per kilogram (mg/kg). The less-than sign (<) signifies the compound was not detected at the contract required quantitation limit (CRQL) or at the detection limit (DL). The number following the '<' sign is the actual CRQL or DL.
2. The shaded values represent positive detections of the particular compound.

(a) Florida Department of Environmental Regulation, "Development of an Approach to the Assessment of Sediment Quality in Florida Coastal Waters," May 1992.
"UJ" Signifies the quantitation limit was estimated and the compound was not detected. The estimated limit follows the '<' sign.
"J" Signifies the compound was detected at an estimated concentration.
"R" Signifies that the data point was rejected during data validation under the Contract Lab Program (CLP).

APPENDIX C-4
SUMMARY OF SEDIMENT ANALYTICAL RESULTS
INORGANICS, TARGET ANALYTE LIST
NAVAL AIR STATION, JACKSONVILLE FLORIDA, OPERABLE UNIT 1
FEBRUARY 1992

Sample ID No.	Cyanide	Iron	Lead	Magnesium	Manganese	Mercury	Nickel	Potassium	Selenium	Silver
Florida Sediment Qual. Guidelines(a)	---	---	*21 mg/kg*	---	---	*0.1 mg/kg*	*trace ID*	---	---	*0.5 mg/kg*
SD001	<0.21	50300	18.5	355 J	189	0.48	75.4	<81.4	0.2 J	4
SD002	<0.47	5580	5.7	428 J	35.5	0.32	57.3	301 J	<0.34 UJ	4.7
SD003	<0.45	799	4	131 J	5.8	<0.06	<1.7	<176	<0.32 UJ	<0.57
SD004	<0.5	1460	5.9	154 J	5.9	<0.08	3.1 J	<199	0.63 J	0.5 J
SD005	<0.48	17100 J	6.7 J	134 J	7.5 J	<0.09	1.3 J	<189	0.34 R	<0.46
SD006	<0.46	1330 J	3.9 J	42.4 J	4.3 J	<0.06	1.4 J	<181	0.33 R	<0.44
SD007	<0.47	6800 J	7.3 J	206 J	10 J	<0.08	4.8 J	<190	0.34 R	<0.46
SD008	<0.49	412	18.3	42.8 J	8	<0.07	<1	<194	0.43 J	<0.47
SD009	<0.47	3160	2.6	46.1 J	0.9 J	0.46	<1	<187	<0.34	0.57
SD011	<0.19	5520	5.8	354 J	13.8	<0.1	2.1 J	313 J	0.18 J	<0.31
SD011	<0.18	2040	4.9 J	232 J	5.6	<0.08	3 J	235 J	<5	<10
SD012	<0.48	3510	4.2	348 J	31.4	<0.08	6.6 J	<190	<0.34 UJ	<0.62
SD013	<0.2	4840	7.5	340 J	14.4	<0.1	2.3 J	390 J	<0.16	<0.32
SD014	<0.21	7920	12.1	162 J	4.1	<0.07	4.7 J	<48.7	<0.16	<0.33
SD015	<0.2	477	12.1	85.4 J	3.9 J	<0.1	<1.8	<72.5	<0.16	0.32 J
SD016	<0.19	1870	4.1	290 J	7.8	<0.08	<1.7	324 J	<0.15	<0.31
SD017	<0.18	1490	3.2	230 J	4.6	<0.06	1.8 J	196 J	<0.15	<0.3
SD018	<0.19	574	4.2	57.2 J	4.4	<0.05	<1.7	<45.4	<0.15	<0.31
SD019	<0.19	470	1.6	40.3 J	3.3 J	<0.06	<1.7	<45.4	<0.15	<0.31
SD020	<0.2	5570	6.3	200 J	3.6 J	<0.08	<1.7	<76	<0.16	<0.31
SD021	<0.19	9530	6.2	557 J	11.1	<0.08	<1.7	<153	0.52 J	<0.31
SD022	<0.2	819	3.6	107 J	1.6 J	<0.05	<1.7	<64.5	<0.16	<0.31
SD023	<0.21	2710	6.9	188 J	11.4	<0.12	<1.9	<55.9	<0.17	<0.34
SD024	<0.26	783	5.5	495 J	11	<0.14	<2.3	<62.3	0.24 J	<0.42
SD025	<0.21	1210	3.5	79.8 J	2.2 J	<0.08	3.4 J	<50.9	<0.17	<0.34
SD026	<0.21	1860	6.4	204 J	5.5	<0.09	<1.8	<71.6	<0.17	<0.34
SD027	<0.24	3680	18.6	603 J	17.9	<0.12	<2.1	205 J	0.21 J	<0.39
SD028	<0.21	1100	5.7	176 J	6.2	<0.08	<1.8	116 J	<0.17	<0.33
SD029	<0.2	499	3.5	138 J	5.6	<0.06	<1.7	100 J	<0.16	<0.32
SD030	<0.21	403	2.9	118 J	4 J	<0.09	<1.8	117 J	<0.17	<0.33
SD031	<0.21	985	5.5	186 J	7.7	<0.1	<1.8	125 J	<0.17	<0.34
SD032	<0.2	528	2.9	146 J	4 J	<0.07	<1.7	95.1 J	<0.16	<0.32
SD033	<0.2	360	2.7	84.8 J	3.7 J	<0.1	<1.7	85.1 J	<0.16	<0.31

Notes:
1. All results are reported in milligrams per kilogram (mg/kg). The less-than sign (<) signifies the compound was not detected at the contract required quantitation limit (CRQL) or at the detection limit (DL). The number following the '<' sign is the actual CRQL or DL.
2. The shaded values represent positive detections of the particular compound.

(a) Florida Department of Environmental Regulation, "Development of an Approach to the Assessment of Sediment Quality in Florida Coastal Waters," May 1992.
"UJ" Signifies the quantitation limit was estimated and the compound was not detected. The estimated limit follows the '<' sign.
"J" Signifies the compound was detected at an estimated concentration.
"R" Signifies that the data point was rejected during data validation under the Contract Lab Program (CLP).

APPENDIX C-4
SUMMARY OF SEDIMENT ANALYTICAL RESULTS
INORGANICS, TARGET ANALYTE LIST
NAVAL AIR STATION, JACKSONVILLE FLORIDA, OPERABLE UNIT 1
FEBRUARY 1992

Sample ID No.	Sodium	Thallium	Vanadium	Zinc
Florida Sediment Qual. Guidelines(a)	---	---	---	*68 mg/kg*
SD001	158 J	<0.25	6.2 J	361
SD002	<556	0.52 J	7.1 J	164
SD003	<269	<0.35	<3.4	5.8
SD004	<211	<0.39	4.8 J	14.3
SD005	<190	<0.37	12.2 J	26.1 J
SD006	<190	<0.36	1.6 J	37.7 J
SD007	<188	<0.38	15.3 J	22.8 J
SD008	<173	<0.38 UJ	2.4 J	15.2
SD009	159 J	<0.37 UJ	2.5 J	2.6 J
SD011	106 J	<0.23	14.3	5.1
SD011	128 J	<10 UJ	9.9 J	2.6 J
SD012	<401	0.4 J	4 J	147
SD013	118 J	<0.24	15.9	9.9
SD014	128 J	<0.25	4.7 J	11.9
SD015	100 J	<0.24	1.4 J	11.6
SD016	144 J	<0.23	7.1 J	3.6 J
SD017	123 J	0.27 J	6.4 J	2.9 J
SD018	118 J	<0.23	1.7 J	8.1
SD019	84.7 J	<0.23	2 J	2.2 J
SD020	113 J	<0.24	6.7 J	8.3
SD021	129 J	<0.23	18	4.6 J
SD022	106 J	<0.24	6.2 J	3.1 J
SD023	135 J	<0.26	1.9 J	13.7
SD024	369 J	<0.32	2 J	8.5
SD025	119 J	<0.26	10.7 J	4.9 J
SD026	328 J	0.28 J	3.2 J	42.7
SD027	536 J	<0.29	4.9 J	38.6
SD028	166 J	<0.25	2.8 J	8.7
SD029	250 J	<0.24	2.4 J	4.1 J
SD030	234 J	<0.25 UJ	1.9 J	4.5 J
SD031	247 J	<0.26	3 J	12
SD032	266 J	<0.24	<1.7	4.9 J
SD033	212 J	<0.23 UJ	2 J	3.3 J

Notes:
1. All results are reported in milligrams per kilogram (mg/kg). The less-than sign (<) signifies the compound was not detected at the contract required quantitation limit (CRQL) or at the detection limit (DL) The number following the '<' sign is the actual CRQL or DL.
2. The shaded values represent positive detections of the particular compound.

(a) Florida Department of Environmental Regulation, "Development of an Approach to the Assessment of Sediment Quality in Florida Coastal Waters," May 1992.
"UJ" Signifies the quantitation limit was estimated and the compound was not detected. The estimated limit follows the '<' sign.
"J" Signifies the compound was detected at an estimated concentration.
"R" Signifies that the data point was rejected during data validation under the Contract Lab Program (CLP).

Appendix C-5
Analytical Summary Tables
For Radionuclides

APPENDIX C–5
SUMMARY OF SURFACE WATER ANALYTICAL RESULTS
RADIONUCLIDES
NAVAL AIR STATION, JACKSONVILLE FLORIDA, OPERABLE UNIT 1
FEBRUARY 1992

Sample ID No.	Gross alpha	Gross alpha (alpha and Radium–226)	Gross beta	Radium–226	Radium–228	Total Radium
Florida Surface Water Class II(a)	---	*15pCi/L*	*50pCi/L (b)*	---	---	*5pCi/L*
SW001	1.8	2	12.2	0.2	0.4	0.6
SW002	0.1	0.1	25.9			0
SW003	4.7	5.2	16.4	0.5		0.5
SW004	1.5	2.1	14.6	0.6	0.4	1
SW005	4.4	5	30.4	0.6		0.6
SW006	0.1	0.9	19.2	0.8		0.8
SW007	1.7	2.1	13.8	0.4		0.4
SW008	4.6	4.6	16.2			0
SW009	0.1	0.6	41.4	0.5	0.5	1
SW011	4.2	4.9	29	0.7		0.7
SW012	3.2	4.3	26.1	1.1		1.1
SW013	0.1	0.7	14.6	0.6	0.5	1.1
SW014	19.9	21	33.6	1.1	0.7	1.8
SW015	14.5	15.5	55.8	1	0.4	1.4
SW016	0.1	0.5	38.3	0.4		0.4
SW017	12.4	14.2	23.5	1.8	1.4	3.2
SW018	11.3	12.1	43.8	0.8	0.9	1.7
SW019	27.9	30.1	37.7	2.2	1.4	3.6
SW020	17.1	18.6	35.3	1.5	0.9	2.4
SW021	0.1	0.6		0.5		0.5
SW022		0.5		0.5	0.5	1
SW023	0.1	0.6		0.5		0.5
SW024	11.4	12	18.6	0.6		0.6
SW025	9.4	9.4	15.2			0
SW026	3.4	4.2	5.5	0.8		0.8
SW027	0.1	0.1	4.6			0
SW028	0.1	0.1	7.3		0.4	0.4
SW029	1.2	1.9	6.5	0.7	0.4	1.1
SW030	0.6	0.6	17.3			0
SW031	0.1	0.7	14.2	0.6		0.6
SW032	3.5	4.4	12.5	0.9		0.9
SW033	0.5	1.1	11.2	0.6		0.6

Notes:
1. All results are reported in picocuries per liter (pCi/L).
2. The shaded values represent positive detections that violate the state standards for the particular radionuclide.
(a) Florida Department of Environmental Regulation Chapter 17.302 Florida Administrative Code (FAC), "Surface Water Quality Standards," February 1992.
(b) Florida Department of Environmental Regulation Chapter 17.550 Florida Administrative Code (FAC), "Safe Drinking Water Act," January 1991.

APPENDIX C-5
SUMMARY OF SEDIMENT ANALYTICAL RESULTS
RADIONUCLIDES
NAVAL AIR STATION, JACKSONVILLE FLORIDA, OPERABLE UNIT 1
FEBRUARY 1992

Sample ID No.	Gross alpha	Gross alpha (alpha and Radium-226)	Gross beta	Radium-226	Radium-228	Total Radium
Florida Sediment Qual. Guidelines(a)	---	---	---	---	---	---
SD001	0.6	1.3	1.1	0.7		0.7
SD002	2.2	3.3	1.9	1.1		1.1
SD003	1.7	2.2	0.5	0.5		0.5
SD004	1.9	2.4	1.1	0.5	0.8	1.3
SD005	1.7	2.2	1.6	0.5	0.4	0.9
SD006	1	1.6	0.4	0.6		0.6
SD007	2	3.5	2	1.5		1.5
SD008	1	1.4	1.3	0.4		0.4
SD009	1.1	1.5	1.3	0.4		0.4
SD011	2.5	3.3	1.8	0.8		0.8
SD011	5	6.2	3.8	1.2		1.2
SD012	0.4	1	0.4	0.6		0.6
SD013	2.3	3.7	2.1	1.4		1.4
SD014	0.4	0.9	0.4	0.5		0.5
SD015	0.4	0.8	0.4	0.4		0.4
SD016	1.2	2	1.4	0.8	0.4	1.2
SD017	3.5	6.3	1.9	2.8		2.8
SD018	0.9	1.6	0.5	0.7		0.7
SD019	2.6	3.3	1.2	0.7		0.7
SD020	1.6	2.7	1	1.1		1.1
SD021	3.3	4.6	1.7	1.3		1.3
SD022	1.5	2	0.8	0.5		0.5
SD023	2.3	2.9	1.4	0.6		0.6
SD024	2.5	3.1	1	0.6		0.6
SD025	1.9	2.5	0.9	0.6	0.4	1
SD026	1.5	2	1	0.5	0.4	0.9
SD027	2.3	3.1	3	0.8		0.8
SD028	1.9	2.5	1.3	0.6		0.6
SD029	1.5	2.1	0.8	0.6		0.6
SD030	0.8	1.2	1.3	0.4		0.4
SD031	1.9	2.3	1	0.4		0.4
SD032	1.1	1.5	0.7	0.4	0.6	1
SD033	1.5	1.9	0.5	0.4	0.4	0.8

Notes:
1. All results are reported in picocuries per gram (pCi/g).
(a) Florida Department of Environmental Regulation, "Development of an Approach to the Assessment of Sediment Quality in Florida Coastal Waters," May 1992. Currently there are no state regulations or guidelines concerning radionuclides found in sediment.

Appendix C-6
Analytical Summary Tables
For
Tentatively Identified Compounds

APPENDIX C-6
SUMMARY OF SURFACE WATER ANALYTICAL RESULTS
TENTATIVELY IDENTIFIED COMPOUNDS
NAVAL AIR STATION, JACKSONVILLE FLORIDA, OPERABLE UNIT 1
FEBRUARY 1992

Sample ID No.	Date Taken	Compound(s) Identified	Concentration, ug/L	Qualifier	Comments
SW001	03-FEB-92	Cyclopentasiloxane, Decameth	9	J	Column degradation product; CAS 541-02-6
		Cyclotetrasiloxane, Octameth	19	R	Column degradation product; CAS 556-67-2
		Cyclotrisiloxane, hexamethyl	23	R	Column degradation product; CAS 541-05-9
SW006	30-JAN-92	Sulfur, Mol. (S8)	30	J	CAS 10544-55-0
SW011	02-FEB-92	Cyclotetrasiloxane, Octameth	18	R	Column degradation product; CAS 556-67-2
		Cyclotrisiloxane, hexamethyl	12	R	Column degradation product; CAS 541-05-9
SW013	02-FEB-92	Cyclotetrasiloxane, Octameth	18	R	Column degradation product; CAS 556-67-2
		Cyclotrisiloxane, hexamethyl	21	R	Column degradation product; CAS 541-05-9
		Hexadecanoic Acid	15	J	Naturally occuring fatty acid; CAS 57-10-3
SW014	02-FEB-92	Cyclotetrasiloxane, Docedamet	9	J	Column degradation product; CAS 141-63-9
		Cyclopentasiloxane, Decameth	8	J	Column degradation product; CAS 541-02-6
		Cyclotetrasiloxane, Octameth	18	R	Column degradation product; CAS 556-67-2
		Cyclotrisiloxane, hexamethyl	13	R	Column degradation product; CAS 541-05-9
SW015	02-FEB-92	Cyclotetrasiloxane, Octameth	19	R	Column degradation product; CAS 556-67-2
		Cyclotrisiloxane, hexamethyl	13	R	Column degradation product; CAS 541-05-9
SW016	04-FEB-92	2,3-Butanedione	10	R	Substituted ketone; CAS 431-03-8
		Cyclopentasiloxane, Decameth	12	R	Column degradation product; CAS 541-02-6
		Cyclotetrasiloxane, Octameth	27	R	Column degradation product; CAS 556-67-2
		Cyclotrisiloxane, hexamethyl	27	R	Column degradation product; CAS 541-05-9
		Tetrachloroethene TIC	9	J	Solvent for fats, greases, waxes, rubber; CAS 127-18-4
SW017	02-FEB-92	Cyclotetrasiloxane, Octameth	12	R	Column degradation product; CAS 556-67-2
		Cyclotrisiloxane, hexamethyl	15	R	Column degradation product; CAS 541-05-9
		Tetrachloroethene TIC	9	J	Solvent for fats, greases, waxes, rubber; CAS 127-18-4
SW018	02-FEB-92	Cyclotetrasiloxane, Octameth	16	R	Column degradation product; CAS 556-67-2
		Cyclotrisiloxane, hexamethyl	13	R	Column degradation product; CAS 541-05-9
SW019	02-FEB-92	Cyclotetrasiloxane, Octameth	16	R	Column degradation product; CAS 556-67-2
		Cyclotrisiloxane, hexamethyl	17	R	Column degradation product; CAS 541-05-9

Notes:
CAS = Chemical Abstracts Service. CAS numbers not available for all listed compounds.
"J" signifies the compound was detected at an estimated concentration.
"R" Signifies that the data point was rejected during data validation under the Contract Lab Program (CLP).
All rejected concentrations are shaded.

APPENDIX C-6
SUMMARY OF SURFACE WATER ANALYTICAL RESULTS
TENTATIVELY IDENTIFIED COMPOUNDS
NAVAL AIR STATION, JACKSONVILLE FLORIDA, OPERABLE UNIT 1
FEBRUARY 1992

Sample ID No.	Date Taken	Compound(s) Identified	Concentration, ug/L	Qualifier	Comments
SW020	03-FEB-92	Cyclotetrasiloxane, Octameth	19	R	Column degradation product; CAS 556-67-2
		Cyclotrisiloxane, hexamethyl	30	R	Column degradation product; CAS 541-05-9
SW021	03-FEB-92	Cyclotetrasiloxane, Octameth	19	R	Column degradation product; CAS 556-67-2
		Cyclotrisiloxane, hexamethyl	20	R	Column degradation product; CAS 541-05-9
		Tetrachloroethene TIC	8	R	Solvent for fats, greases, waxes, rubber; CAS 127-18-4
SW022	03-FEB-92	Cyclotetrasiloxane, Octameth	20	R	Column degradation product; CAS 556-67-2
		Cyclotrisiloxane, hexamethyl	18	R	Column degradation product; CAS 541-05-9
		Tetrachloroethene TIC	10	R	Solvent for fats, greases, waxes, rubber; CAS 127-18-4
SW023	03-FEB-92	Cyclotetrasiloxane, Octameth	20	R	Column degradation product; CAS 556-67-2
		Cyclotrisiloxane, hexamethyl	27	R	Column degradation product; CAS 541-05-9
		Tetrachloroethene TIC	10	R	Solvent for fats, greases, waxes, rubber; CAS 127-18-4
SW024	03-FEB-92	Cyclotetrasiloxane, Octameth	20	R	Column degradation product; CAS 556-67-2
		Cyclotrisiloxane, hexamethyl	18	R	Column degradation product; CAS 541-05-9
		Tetrachloroethene TIC	11	R	Solvent for fats, greases, waxes, rubber; CAS 127-18-4
SW026	03-FEB-92	Cyclotetrasiloxane, Octameth	17	R	Column degradation product; CAS 556-67-2
		Cyclotrisiloxane, hexamethyl	28	R	Column degradation product; CAS 541-05-9
SW027	04-FEB-92	Cyclopentasiloxane, Decameth	11	R	Column degradation product; CAS 541-02-6
		Cyclotetrasiloxane, Octameth	27	R	Column degradation product; CAS 556-67-2
		Cyclotrisiloxane, hexamethyl	35	R	Column degradation product; CAS 541-05-9
		Limonene	11	J	Petroleum contaminant; CAS 138-86-3
		Nonanol	6	J	Degradation of n-Nonane CAS 111-84-2
SW028	04-FEB-92	Cyclopentasiloxane, Decameth	12	R	Column degradation product; CAS 541-02-6
		Cyclotetrasiloxane, Octameth	26	R	Column degradation product; CAS 556-67-2
		Cyclotrisiloxane, hexamethyl	17	R	Column degradation product; CAS 541-05-9
		Limonene	8	J	Petroleum contaminant; CAS 138-86-3

Notes:
CAS = Chemical Abstracts Service. CAS numbers not available for all listed compounds.
"J" signifies the compound was detected at an estimated concentration.
"R" Signifies that the data point was rejected during data validation under the Contract Lab Program (CLP).
All rejected concentrations are shaded.

APPENDIX C-6
SUMMARY OF SURFACE WATER ANALYTICAL RESULTS
TENTATIVELY IDENTIFIED COMPOUNDS
NAVAL AIR STATION, JACKSONVILLE FLORIDA, OPERABLE UNIT 1
FEBRUARY 1992

Sample ID No.	Date Taken	Compound(s) Identified	Concentration, ug/L	Qualifier	Comments
SW029	04-FEB-92	Cyclopentasiloxane, Decameth	9	R	Column degradation product; CAS 541-02-6
		Cyclotetrasiloxane, Octameth	25	R	Column degradation product; CAS 556-67-2
		Cyclotrisiloxane, hexamethyl	16	R	Column degradation product; CAS 541-05-9
		Limonene	8	J	Petroleum contaminant; CAS 138-86-3
		Tetrachloroethene TIC	11	J	Solvent for fats, greases, waxes, rubber; CAS 127-18-4
SW030	04-FEB-92	Cyclotetrasiloxane, Dodecameth	8	J	Column degradation product; CAS 141-63-9
		Cyclopentasiloxane, Decameth	12	R	Column degradation product; CAS 541-02-6
		Cyclotetrasiloxane, Octameth	30	R	Column degradation product; CAS 556-67-2
		Cyclotrisiloxane, hexamethyl	17	R	Column degradation product; CAS 541-05-9
		Limonene	11	J	Petroleum contaminant; CAS 138-86-3
		Nonanol	5	J	Degradation of n-Nonane CAS 111-84-2
SW031	04-FEB-92	Cyclopentasiloxane, Decameth	9	R	Column degradation product; CAS 541-02-6
		Cyclotetrasiloxane, Octameth	26	R	Column degradation product; CAS 556-67-2
		Cyclotrisiloxane, hexamethyl	24	R	Column degradation product; CAS 541-05-9
		Limonene	10	J	Petroleum contaminant; CAS 138-86-3
		Nonanol	5	J	Degradation of n-Nonane CAS 11-84-2
		Tetrachloroethene TIC	11	J	Solvent for fats, greases, waxes, rubber; CAS 127-18-4
SW032	04-FEB-92	1-Decene	11	J	Degradation of n-Decane CAS 124-18-5
		Cyclopentasiloxane, Decameth	8	R	Column degradation product; CAS 541-02-6
		Cyclotetrasiloxane, Octameth	24	R	Column degradation product; CAS 556-67-2
		Cyclotrisiloxane, hexamethyl	16	R	Column degradation product; CAS 541-05-9
		Limonene	21	J	Petroleum contaminant; CAS 138-86-3
		Tetrachloroethene TIC	11	J	Solvent for fats, greases, waxes, rubber; CAS 127-18-4
SW033	04-FEB-92	1-Decene	9	J	Degradation of n-Decane CAS 124-18-5
		Cyclopentasiloxane, Decameth	12	R	Column degradation product; CAS 541-02-6
		Cyclotetrasiloxane, Octameth	28	R	Column degradation product; CAS 556-67-2
		Cyclotrisiloxane, hexamethyl	16	R	Column degradation product; CAS 541-05-9
		Limonene	17	J	Petroleum contaminant; CAS 138-86-3

Notes:
CAS = Chemical Abstracts Service. CAS numbers not available for all listed compounds.
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All rejected concentrations are shaded.

APPENDIX C-6
SUMMARY OF SEDIMENT ANALYTICAL RESULTS
TENTATIVELY IDENTIFIED COMPOUNDS
NAVAL AIR STATION, JACKSONVILLE FLORIDA, OPERABLE UNIT 1
FEBRUARY 1992

Sample ID No.	Date Taken	Compound(s) Identified	Concentration, ug/kg	Qualifier	Comments
SD001	03-FEB-92	3-Heptanone, 2,4-dimethyl-	1800	R	Substituted ketone; CAS 18641-71-9
		Acetic acid, 1-methylethyl e	1200	R	Isopropyl acetate; CAS 108-21-4 (solvent)
		Decane, 2,3,5-Trimethyl-	1810	J	Petroleum contaminant; CAS 62238-11-3
		Decane, 2,3,7-trimethyl-	3190	J	Petroleum contaminant; CAS 62238-13-5
		Ether, Heptyl Hexyl	880	J	CAS 7289-40-9
		Hexadecanoic Acid	1500	R	Naturally occuring fatty acid; CAS 57-10-3
		Octane, 2,3,7-trimethyl-	620	J	Petroleum contaminant; CAS 62016-34-6
		Undecane, 2,10-Dimethyl-	1800	J	Petroleum contaminant; CAS 17301-27-8
		.alpha.-Pinene (ACN)	8.7	J	Petroleum contaminant; CAS 80-56-8
SD002	01-FEB-92	2(5H)-Furanone, 5,5-dimethyl	470	J	Substituted ketone; CAS 20019-64-1
		Sulfur, Mol. (S8)	7400	J	CAS 10544-55-0
SD003	01-FEB-92	2(5H)-Furanone, 5,5-dimethyl	320	J	Substituted ketone; CAS 20019-64-1
		M-Menthane, (1S,3S)-(+)-	48000	J	Petroleum contaminant; CAS 13837-67-7
		Sulfur, Mol. (S8)	3700	J	CAS 10544-55-0
SD004	31-JAN-92	3-Heptanone, 2,4-dimethyl-	450	J	Substituted ketone; CAS 18641-71-9
		5-Hexen-2-One, 5-Methyl-	550	J	CAS 3240-09-3
SD005	30-JAN-92	3-Heptanone, 2,4-dimethyl-	410	J	Substituted ketone; CAS 18641-71-9
		5-Hexen-2-One, 5-Methyl-	520	J	CAS 3240-09-3
		Sulfur, Mol. (S8)	430	J	CAS 10544-55-0
SD006	30-JAN-92	2,3-Butanedione	660	J	Substituted ketone; CAS 431-03-8
		5-Hexen-2-One, 5-Methyl-	700	J	CAS 3240-09-3
		Arsenous Acid, Tris(Trimethy	6.7	J	CAS 1327-53-3
		Sulfur, Mol. (S8)	1500	J	CAS 10544-55-0
SD007	30-JAN-92	3-Heptanone, 2,4-dimethyl-	1500	J	Substituted ketone; CAS 18641-71-9
		5-Hexen-2-One, 5-Methyl-	540	R	CAS 3240-09-3
		Sulfur, Mol. (S8)	1600	J	CAS 10544-55-0

Notes:
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All rejected concentrations are shaded.

APPENDIX C-6
SUMMARY OF SEDIMENT ANALYTICAL RESULTS
TENTATIVELY IDENTIFIED COMPOUNDS
NAVAL AIR STATION, JACKSONVILLE FLORIDA, OPERABLE UNIT 1
FEBRUARY 1992

Sample ID No.	Date Taken	Compound(s) Identified	Concentration, ug/kg	Qualifier	Comments
SD008	31-JAN-92	3-Heptanone, 2,4-dimethyl-	480	J	Substituted ketone; CAS 18641-71-9
		3-Hexene-2,5-Dione	620	J	Petroleum contaminant; CAS 4436-75-3
SD009	31-JAN-92	5-Hexen-2-One, 5-Methyl-	370	J	CAS 3240-09-3
SD011	02-FEB-92	1H-Indene, octahydro-2,2,4,4	18200	J	Petroleum contaminant; CAS 54832-83-6
		1H-Indene, octahydro-2,2,4,4	21600	J	Petroleum contaminant; CAS 54832-83-6
		1-Pentanol, 4-methyl-2-propy	24000	J	Substituted phenol
		1-Pentanol, 4-methyl-2-propy	230	J	Substituted phenol
		2,6-Adamantanedione, 4-Iodo-	4000	J	Substituted ketone; CAS 19305-95-4
		Cyclohexane, 1,1,3-Trimethyl	4800	J	Component of jet fuel
		Cyclohexane, 1,1,3,5-Tetrame	490	J	Petroleum contaminant; CAS 50876-31-8
		Cyclohexane, 2-Butyl-1,1,3-T	14000	J	Petroleum contaminant
		Cyclopropane, 1-Methyl-2-(3-	6600	J	Petroleum contaminant; CAS 6069-98-3
		Decane, 2,3,7-trimethyl-	13000	J	Component of jet fuel; CAS 62238-13-5
		Hexane, 3,3,4-Trimethyl-	41	J	Petroleum contaminant
		Naphthalene, decahydro-2-met	8700	J	Solvent for oils, fats, waxes, resins, rubbers
SD012	01-FEB-92	Decane, 2,5,6-trimethyl-	630	J	Petroleum contaminant; CAS 62108-23-0
		Heptane, 5-ethyl-2-methyl-	1000	J	Petroleum contaminant; CAS 13475-78-0
		Sulfur, Mol. (S8)	21000	J	CAS 10544-55-0
SD013	02-FEB-92	1-Decanol, 2-ethyl-	480	J	Substituted phenol; CAS 21078-65-9
		1,3,5-Cycloheptatriene	990	R	Petroleum contaminant; CAS 544-25-2
		3-Heptanone, 2,4-dimethyl-	4100	R	Substituted ketone; CAS 18641-71-9
		Acetic acid, 1-methylethyl e	1200	R	Isopropyl acetate; CAS 108-21-4 (solvent)
		Cyclopentasiloxane, Decameth	810	J	Column degradation product; CAS 541-02-6
		Cyclotrisiloxane, hexamethyl	830	R	Column degradation product; CAS 541-05-9
		Hexadecanoic Acid	850	R	Naturally occuring fatty acid; CAS 57-10-3
		Octane, 2,4,6-trimethyl-	1100	J	Petroleum contaminant; CAS 62016-37-9

Notes:
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APPENDIX C-6
SUMMARY OF SEDIMENT ANALYTICAL RESULTS
TENTATIVELY IDENTIFIED COMPOUNDS
NAVAL AIR STATION, JACKSONVILLE FLORIDA, OPERABLE UNIT 1
FEBRUARY 1992

Sample ID No.	Date Taken	Compound(s) Identified	Concentration, ug/kg	Qualifier	Comments
SD014	02-FEB-92	2-Heptenal, (Z)-	680	R	CAS 57266-86-1
		Acetic acid, 1-methylethyl e	1800	R	Isopropyl acetate; CAS 108-21-4 (solvent)
		Benzene, Methyl	1100	R	Toluene CAS 108-88-3
		Cyclotrisiloxane, hexamethyl	750	R	Column degradation product; CAS 541-05-9
		Decane, 1-fluoro-	460	J	Petroleum contaminant; CAS 334-56-5
		Hexadecanoic Acid	1200	R	Naturally occuring fatty acid; CAS 57-10-3
		Phenanthrene, 2,4,5,7-tetram	690	J	Petroleum contaminant; CAS 7396-38-5
SD015	02-FEB-92	2-Heptenal, (Z)-	760	R	CAS 57266-86-1
		Acetic acid, 1-methylethyl e	2400	R	Isopropyl acetate; CAS 108-21-4 (solvent)
		Benzene, Methyl	1200	R	Toluene CAS 108-88-3
		Cyclopentasiloxane, Decameth	460	J	Column degradation product; CAS 541-02-6
		Cyclotrisiloxane, hexamethyl	850	R	Column degradation product; CAS 541-05-9
		Decane, 1-fluoro-	480	J	Petroleum contaminant; CAS 334-56-5
		Hexadecanoic Acid	1600	R	Naturally occuring fatty acid; CAS 57-10-3
		Pentane, 1-(Ethenyloxy)-	390	J	Petroleum contaminant; CAS 5363-63-3
SD016	04-FEB-92	2-Heptenal, (Z)-	570	R	CAS 57266-86-1
		3-Heptanone, 2,4-dimethyl-	2500	J	Substituted ketone; CAS 18641-71-9
		Acetic acid, 1-methylethyl e	2500	R	Isopropyl acetate; CAS 108-21-4 (solvent)
		Cyclopentasiloxane, Decameth	420		Column degradation product; CAS 541-02-6
		Cyclotrisiloxane, hexamethyl	490	R	Column degradation product; CAS 541-05-9
		Toluene TIC	980	R	Organic solvent; CAS 108-88-3
SD017	02-FEB-92	1,1'-Biphenyl, 2,2',3,3',4,6	810	J	CAS 52663-65-7
		1,1'-Biphenyl, 2,2',3,4,4',5	340	J	CAS 52663-69-1
		1,1'-Biphenyl, 2,3,3',4,4',5	1210	J	CAS 39635-31-9
		1,1'-Biphenyl, 2,3',4,4',5,5	2030	J	CAS 52663-72-6
		1,3,5-Cycloheptatriene	930	R	Petroleum contaminant; CAS 544-25-2
		2-Heptenal, (Z)-	630	R	CAS 57266-86-1
		Acetic acid, 1-methylethyl e	1900	R	Isopropyl acetate; CAS 108-21-4 (solvent)
		Cyclotrisiloxane, hexamethyl	1820	R	Column degradation product; CAS 541-05-9
		Hexadecanoic Acid	1100	R	Naturally occuring fatty acid; CAS 57-10-3

Notes:
CAS = Chemical Abstracts Service. CAS numbers not available for all listed compounds.
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All rejected concentrations are shaded.

APPENDIX C-6
SUMMARY OF SEDIMENT ANALYTICAL RESULTS
TENTATIVELY IDENTIFIED COMPOUNDS
NAVAL AIR STATION, JACKSONVILLE FLORIDA, OPERABLE UNIT 1
FEBRUARY 1992

Sample ID No.	Date Taken	Compound(s) Identified	Concentration, ug/kg	Qualifier	Comments
SD018	02-FEB-92	2-Heptenal, (Z)-	650	R	CAS 57266-86-1
		Acetic acid, 1-methylethyl e	2000	R	Isopropyl acetate; CAS 108-21-4 (solvent)
		Benzene, Methyl	930	R	Toluene CAS 108-88-3
		Cyclotrisiloxane, hexamethyl	2060	R	Column degradation product; CAS 541-05-9
		Hexadecanoic Acid	960	R	Naturally occuring fatty acid; CAS 57-10-3
SD019	02-FEB-92	Acetic acid, 1-methylethyl e	2100	R	Isopropyl acetate; CAS 108-21-4 (solvent)
		Benzene, 1-methyl-3-(1-methy	11	J	CAS 535-77-3
		Benzene, Methyl	1000	R	Toluene CAS 108-88-3
		Cyclotrisiloxane, hexamethyl	1000	R	Column degradation product; CAS 541-05-9
		Hexadecanoic Acid	1000	R	Naturally occuring fatty acid; CAS 57-10-3
SD020	03-FEB-92	Acetic acid, 1-methylethyl e	1900	R	Isopropyl acetate; CAS 108-21-4 (solvent)
		Cyclotrisiloxane, hexamethyl	1620	R	Column degradation product; CAS 541-05-9
		Hexadecanoic Acid	920	R	Naturally occuring fatty acid; CAS 57-10-3
		Silane, trichloroeicosyl-	400	R	Petroleum contaminant; CAS 18733-57-8
SD021	03-FEB-92	Acetic acid, 1-methylethyl e	1900	R	Isopropyl acetate; CAS 108-21-4 (solvent)
		Benzene, Methyl	1100	R	Toluene CAS 108-88-3
		Cyclopentasiloxane, Decameth	390	R	Column degradation product; CAS 541-02-6
		Cyclotrisiloxane, hexamethyl	1700	R	Column degradation product; CAS 541-05-9
		Hexadecanoic Acid	670	R	Naturally occuring fatty acid; CAS 57-10-3
SD022	03-FEB-92	1-Phenanthrenecarboxaldehyde	4000	J	CAS 24035-50-5
		1,3,5-Cycloheptatriene	1000	R	Petroleum contaminant; CAS 544-25-2
		Acetic acid, 1-methylethyl e	2100	R	Isopropyl acetate; CAS 108-21-4 (solvent)
		Benzene, 1-methyl-3-(1-methy	7.1	J	CAS 535-77-3
		Cyclohexane, 1-methyl-4-(1-m	5.9	J	Petroleum contaminant; CAS 6069-98-3
		Cyclopentasiloxane, Decameth	410	R	Column degradation product; CAS 541-02-6
		Cyclotrisiloxane, hexamethyl	840	R	Column degradation product; CAS 541-05-9
		Hexadecanoic Acid	1000	R	Naturally occuring fatty acid; CAS 57-10-3
		Phenanthrene, 2,4,5,7-tetram	1200	J	Petroleum contaminant; CAS 7396-38-5
		.alpha.-Pinene (ACN)	9.8	J	Petroleum contaminant; CAS 80-56-8

Notes:
CAS = Chemical Abstracts Service. CAS numbers not available for all listed compounds.
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All rejected concentrations are shaded.

APPENDIX C-6
SUMMARY OF SEDIMENT ANALYTICAL RESULTS
TENTATIVELY IDENTIFIED COMPOUNDS
NAVAL AIR STATION, JACKSONVILLE FLORIDA, OPERABLE UNIT 1
FEBRUARY 1992

Sample ID No.	Date Taken	Compound(s) Identified	Concentration, ug/kg	Qualifier	Comments
SD023	03-FEB-92	1,3,5-Cycloheptatriene	990	R	Petroleum contaminant; CAS 544-25-2
		Acetic acid, 1-methylethyl e	2100	R	Isopropyl acetate; CAS 108-21-4 (solvent)
		Cyclotrisiloxane, hexamethyl	2080	R	Column degradation product; CAS 541-05-9
		Decane, 1-fluoro-	480	J	Petroleum contaminant; CAS 334-56-5
		Glycine, N-methyl-N-(1-oxodo	910	R	CAS 97-78-9
		Phenanthrene, 2,4,5,7-tetram	640	J	Petroleum contaminant; CAS 7396-38-5
		Undecane, 3,8-dimethyl-	1860	J	Petroleum contaminant; CAS 17301-30-3
SD024	03-FEB-92	1-Dodecanol, 2-Methyl-, (S)-	3200	J	Substituted phenol; CAS 57289-26-6
		3-Eicosene, (E)-	3400	J	Petroleum contaminant; CAS 74685-33-9
		Acetic acid, 1-methylethyl e	2700	R	Isopropyl acetate; CAS 108-21-4 (solvent)
		Hexadecanoic Acid	2200	R	Naturally occuring fatty acid; CAS 57-10-3
		Iron, Tricarbonyl[N-(Phenyl-	3500	J	CAS 74764-11-7
		Silane, trichloroeicosyl-	5100	J	Petroleum contaminant; CAS 18733-57-8
		Undecane, 3,8-dimethyl-	2500	J	Petroleum contaminant; CAS 17301-30-3
SD025	03-FEB-92	Cyclotrisiloxane, hexamethyl	840	R	Column degradation product; CAS 541-05-9
		Decane, 6-Ethyl-2-Methyl-	870	J	Petroleum contaminant; CAS 62108-21-8
		Hexadecanoic Acid	1400	R	Naturally occuring fatty acid; CAS 57-10-3
		Phenanthrene, 2,4,5,7-tetram	3700	J	Petroleum contaminant; CAS 7396-38-5
		Undecane, 3,8-dimethyl-	1400	J	Petroleum contaminant; CAS 17301-30-3
SD026	03-FEB-92	Benzene, 1-methyl-3-(1-methy	11	J	CAS 535-77-3
		Cyclohexane, 1,1,3,5-Tetrame	10	J	Petroleum contaminant; CAS 50876-31-8
		Decane, 2,3,7-trimethyl-	4900	J	Petroleum contaminant; CAS 62238-13-5
		Decane, 3-Bromo-	4500	J	Petroleum contaminant; CAS 30571-71-2
SD027	04-FEB-92	Toluene TIC	1100	R	Organic solvent; CAS 108-88-3
		Nonane, 3-Methyl-5-Propyl-	1900	J	Petroleum contaminant; CAS 31081-18-2
		Acetic acid, 1-methylethyl e	2900	R	Isopropyl acetate; CAS 108-21-4 (solvent)
		Hexadecanoic Acid	1100	J	Naturally occuring fatty acid; CAS 57-10-3
		2-Phenanthrenol, 4B,5,6,7,8,	1100	J	Substituted phenols; CAS 511-15-9
		1-Decanol, 2-ethyl-	1100	R	Substituted phenols; CAS 21078-65-9
		Decane, 3,8-Dimethyl-	1000	J	Petroleum contaminant; CAS 17312-55-9

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APPENDIX C-6
SUMMARY OF SEDIMENT ANALYTICAL RESULTS
TENTATIVELY IDENTIFIED COMPOUNDS
NAVAL AIR STATION, JACKSONVILLE FLORIDA, OPERABLE UNIT 1
FEBRUARY 1992

Sample ID No.	Date Taken	Compound(s) Identified	Concentration, ug/kg	Qualifier	Comments
SD028	04-FEB-92	1,3,5-Cycloheptatriene	1500	R	Petroleum contaminant; CAS 544-25-2
		Acetic acid, 1-methylethyl e	2700	R	Isopropyl acetate; CAS 108-21-4 (solvent)
		Cyclotrisiloxane, hexamethyl	540	R	Column degradation product; CAS 541-05-9
		Ethanone, 1-Oxiranyl-	560	J	Substituted ketone; CAS 4401-11-0
SD029	04-FEB-92	1-Decanol, 2-ethyl-	370	R	Substituted phenol; CAS 21078-65-9
		1-Pentanol, 3,4-Dimethyl-	760	R	Substituted phenol; CAS 6570-87-2
		2-Hexanone, 6-(acetyloxy)-	610	R	Substituted ketone; CAS 4305-26-4
		Acetic acid, 1-methylethyl e	2600	R	Isopropyl acetate; CAS 108-21-4 (solvent)
		Cyclotrisiloxane, hexamethyl	570	R	Column degradation product; CAS 541-05-9
		Hexadecanoic Acid	540	J	Naturally occuring fatty acid; CAS 57-10-3
		Toluene TIC	1200	R	Organic solvent; CAS 108-88-3
SD030	04-FEB-92	1,3,5-Cycloheptatriene		R	Petroleum contaminant; CAS 544-25-2
		3-Heptanone, 2,4-dimethyl-	2600	R	Substituted ketone; CAS 18641-71-9
		Acetic acid, 1-methylethyl e	2600	R	Isopropyl acetate; CAS 108-21-4 (solvent)
		Cyclotrisiloxane, hexamethyl	580	R	Column degradation product; CAS 541-05-9
		Hexadecanoic Acid	550	J	Naturally occuring fatty acid; CAS 57-10-3
SD031	04-FEB-92	2-Furanmethanol, Tetrahydro-	550	J	Substituted phenol; CAS 637-64-9
		Acetic acid, 1-methylethyl e	2700	R	Isopropyl acetate; CAS 108-21-4 (solvent)
		Cyclotrisiloxane, hexamethyl	710	R	Column degradation product; CAS 541-05-9
		Hexadecanoic Acid	770	J	Naturally occuring fatty acid; CAS 57-10-3
		Toluene TIC	1100	R	Organic solvent; CAS 108-88-3
SD032	04-FEB-92	2-Hexanone, 6-(acetyloxy)-	520	R	Substituted ketone; CAS 4305-26-4
		Acetic acid, 1-methylethyl e	2400	R	Isopropyl acetate; CAS 108-21-4 (solvent)
		Cyclotrisiloxane, hexamethyl	600	R	Column degradation product; CAS 541-05-9
		Hexadecanoic Acid	770	J	Naturally occuring fatty acid; CAS 57-10-3
		Toluene TIC	1000	R	Organic solvent; CAS 108-88-3
SD033	04-FEB-92	1,3,5-Cycloheptatriene	960	R	Petroleum contaminant; CAS 544-25-2
		Acetic acid, 1-methylethyl e	2500	R	Isopropyl acetate; CAS 108-21-4 (solvent)
		Cyclotrisiloxane, hexamethyl	750	R	Column degradation product; CAS 541-05-9
		Ethanone, 1-Oxiranyl-	360	J	Substituted ketone; CAS 4401-11-0
		Hexadecanoic Acid	650	J	Naturally occuring fatty acid; CAS 57-10-3

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Appendix D
Data Validation Summary

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APPENDICES

Appendix D-1	Data Validation Summary Tables For Volatile Organic Compounds
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Appendix D-3	Data Validation Summary Tables For Pesticides and PCBs
Appendix D-4	Data Validation Summary Tables For Inorganics

1.0 VOLATILE ORGANIC COMPOUNDS

The data validation by Heartland of VOC data for the surface water and sediment samples consisted of review of:

- analytical holding times;
- tuning;
- Initial calibration;
- continuing calibration and;
- method blanks; and
- matrix spike and matrix spike duplicates.

Analytical Holding Times. The analytical holding time criteria is the maximum time that a sample can be stored from the date of collection until the sample is analyzed. Technical requirements have only been established for water matrices. The contractual analytical holding time criteria for volatile organic samples is analysis of samples within 10 days upon receipt by the laboratory and the technical criteria is analysis within 14 days of sample collection. The contractual criteria was met with one exception.

Sample SD027 from SDG 32115 which was analyzed outside of the 10 day contractual criteria but within the 14 technical criteria (Appendix D-1). No qualifications of any of the samples were required.

Tuning. Tuning of the instrumentation is required to establish mass resolution and identification of the target analytes and sensitivity of the instrumentation. Conformance is determined using standard materials; therefore, theses criteria should be met in all circumstances. The analysis of instrument performance checks must be performed at the beginning of each 12-hour period during which samples of standards are analyzed. The instrument performance check, bromofluorobenzene (BFB) for volatile analysis, must meet ion abundance criteria. If mass assignment is in error all associated data is classified as unusable (R Qualifier).

Each SDG met the functional guideline criteria for tuning, therefore no qualifications were required.

Initial Calibration. Initial calibration demonstrates that the instrument is capable of acceptable performance in the beginning of the analytical run and of producing a linear calibration curve. Initial calibration standard Relative Response Factors (RRFs) for volatile organic compounds must be greater than or equal to 0.05. The Percent Relative Standard Deviation (%RSD) from the initial calibration must be less than or equal to 30 percent for all compounds.

Historical performance data indicate poor response and/or erratic behavior for the following compounds.

Acetone	1,2-Dichloropropane
2-Butanone	2-Hexanone

Carbon disulfide	Methylene chloride
Chloroethane	4-Methyl-2-pentanone
Chloromethane	Toluene-d_8
1,2-Dichloroethene (total)	1,2-Dichloroethane-d_4
Trans-1,2-Dichloroethene	1,2-Dibromo-3-chloropropane
cis-1,2-Dichloroethene	

Contractually, the above compounds do not have a maximum %RSD although they must meet a minimum RRF criteria of 0.01. For data review purposes the greater than or equal to 0.05 RRF criteria is applied to all volatile compounds.

2-Butanone and methylene chloride were outside of the initial calibration functional guideline criteria for SDGs 32096, 32114, 32115 and 32152 (Appendix D-1). No qualifications were required for the initial calibration criteria since none of the surface water and sediment samples were analyzed after the initial calibration sample.

Continuing Calibration. Continuing calibrations are conducted to establish that the instrumentation is capable of producing acceptable quantitative data and to document daily maintenance and adjustments to maintain data quality. Continuing Calibration establishes the 12-hour RRFs on which the quantitations are based and checks satisfactory performance of the instrument on a day-to-day basis.

Continuing calibration standards contain both target compounds and system monitoring compounds (surrogates) which are analyzed at the beginning of each 12-hour analysis period following the analysis of the instrument performance check and prior to the analysis of the method blanks and samples. Surrogate recovery is conducted by the laboratory with the addition (spike) of non-target constituents, which have similar analytical properties, to some of the samples. The recovery of the spiked compounds is used as another means to evaluate the accuracy of the analytical data. The continuing calibration RRF for volatile organic compounds and surrogates must be greater than or equal to 0.05. The percent difference (%D) between the initial calibration RRF and the continuing calibration RRF must be within plus or minus 25 percent.

Each SDG had some data qualified because some of the continuing calibration criteria was not met. Qualified target constituents were 1,2-dichloroethane, 2-butanone, 2-hexanone, 4-methyl-2-pentanone, acetone, bromoform, carbon disulfide, carbon tetrachloride, methylene chloride and vinyl acetate (Appendix D-1). The detected values of these constituents was qualified as estimated (J qualifier) for some of the surface water and sediment samples. Only the non detection values for 2-Butanone were qualified as rejected (R Qualifier) for sediment samples SD001, SD014, SD015, SD017 and SD018 through SD023 (Appendix C-1).

Method Blanks. The purpose of the analytical method blanks are to: (1) assess the existence and magnitude of contamination problems resulting from laboratory or field activities; and (2) to determine if there is any inherent vari-

ability in the data. 2-Butanone, acetone, toluene and methylene chloride are common laboratory contaminants. Method blanks analysis must be performed after the calibration standards and once for every 12-hour time period beginning with the injection of BFB for tuning. No contaminants should be found in the method blanks.

2-Butanone, acetone and methylene chloride were detected in some of the laboratory method blanks (Appendix D-1). Qualifications were made to some of the data because of the detection of these compounds. Tentatively identified compounds (TICs, Appendix C-6) detected in the laboratory method blanks, and in the surface water and sediment samples were qualified as rejected (R Qualifier).

Matrix Spike/Matrix Spike Duplicate. Matrix spike and matrix spike duplicate (MS/MSD) data is used to assess accuracy and precision of the analytical method in relation to the sample matrix. Data for MS/MSD are generated to determine long-term precision and accuracy of the analytical method on various matrices and to demonstrate acceptable compound recovery by the laboratory at the time of sample analysis.

No qualifications were required for this criteria as the functional guidelines were met.

2.0 SEMI-VOLATILE ORGANIC COMPOUNDS

The data validation of the base, neutral and acid extractable (BNA) data for the surface water and sediment samples consisted of review of:

- analytical holding times;
- tuning;
- initial calibration;
- Continuing calibration;
- method blanks; and
- matrix spike and matrix spike duplicates.

Analytical Holding Time. The analytical holding time criteria is the maximum time that a sample can be stored from the date of collection until the sample is analyzed. Technical requirements have only been established for water matrices. The technical analytical holding time criteria is for the extraction of each sample within 7 days of collection and analysis within 40 days of collection. The contractual holding time criteria is for the extraction within 5 and 10 days of collection for soil and water matrices, respectively. The contractual holding time for analysis is within 40 days of sample collection.

No qualifications were required.

Tuning. Tuning of the instrumentation is required to establish mass resolution and identification of the target analytes and sensitivity of the instrumentation. The analysis of instrument performance checks must be performed at the beginning of each 12-hour period during which samples of standards are analyzed. The instrument performance check, decafluorotriphenylphosphine (DFTPP) for semi-volatile analysis, must meet ion abundance criteria. If mass assignment is in error all associated data is classified as unusable (R Qualifier).

Each SDG met the functional guideline criteria for tuning.

Initial Calibration. Initial calibration demonstrates that the instrument is capable of acceptable performance in the beginning of the analytical run and of producing a linear calibration curve. Initial calibration standards contain both semi-volatile target compounds and surrogates at concentrations of 20, 50, 80, 120 and 160 ug/l at the beginning of each analytical sequence or as necessary if continuing calibration acceptance criteria are not met. Minimum RRF criteria must be greater than or equal to 0.05. The %RSD for the RRFs in the initial calibration must be greater than 30 percent.

Historical performance data indicate poor response and/or erratic behavior for the following compounds.

2,2'-oxybis(1-chloropropane)	Diethylphthalate
4-Chloroaniline	4-Nitroaniline
Hexachlorobutadeine	4,6-Dinitro-w-methylphenol

Hexachlorocyclopentadiene
2-Nitroaniline
Dimethylphthalate
3-Nitroaniline
2,4-Dinitrophenol
4-Nitrophenol
Carbazole
Nitrobenzene-d_8
N-Nitrosodipheynylamine
Di-n-butylphtahalate
Butylbenzylphthalate
3,3'-Dichlorobenzidine
bis(2-ethylhexyl)phthalate
Di-n-octylphthalate
Di-n-ocrylphhtalate

Contractually, the above compounds must meet a minimum RRF criteria of 0.01, however, for data review purposes, the greater than or equal to 0.05 criteria is applied to all semi-volatile compounds.

No qualifications were required for the initial calibration criteria as the functional guidelines for this criteria were met.

Continuing Calibration. Continuing calibration are conducted to establish that the instrumentation is capable of producing acceptable quantitative data and to document daily maintenance and adjustments to maintain data quality. Continuing calibration establishes the 12-hour RRFs on which the quantitation are based and checks satisfactory performance of the instrument on a day-to-day basis.

Continuing calibration standards contain both target compounds and system monitoring compounds (surrogates) which are analyzed at the beginning of each 12-hour analysis period following the analysis of the instrument performance check and prior to the analysis of the method blanks and samples. Surrogate recovery is conducted by the laboratory by the addition of non-target constituents,which have similar analytical properties, to some of the samples. The recovery of the spiked compounds is used as another means to evaluate the accuracy of the analytical data. The continuing calibration RRF for volatile organic compounds and surrogates must be greater than or equal to 0.05. The percent difference (%D) between the initial calibration RRF and the continuing calibration RRF must be within plus or minus 25 percent.

Each SDG had some data qualified because some of the continuing calibration criteria was not met. Qualified target constituents were 2,4,6-tribromophenol, 2,4-dinitrophenol, 2,4-dinitrotoluene, 2-nitroanaline, 3-nitroanaline, 3,3-dichlorobenzidine, 4-nitroanaline, 4-nitrophenol, benzoic acid, benzo(a)-anthracene, benzo(b)fluoranthene, benzo(g,h,i)perylene, bis(2-ethylhexyl)-phthalate, bis(2-chloroethoxy)methane, bis(2-chloroisopropyl)ether, butyl-benzylphthalate, chrysene, dibenzo(a,h)anthracene, hexachlorobenzene, hexa-chloro cyclopentadiene, ideno(1,2,3,cd)pyrene and terphynyl-d (Appendix D-2). The detected values of these constituents was qualified as estimated (J qualifier) for some of the surface water and sediment samples. None of the surface water and sediment data were qualified as rejected (R qualifier) for continuing calibration criteria (Appendix C-2).

Method Blanks. The purpose of the analytical method blanks are to: (1) assess the existence and magnitude of contamination problems resulting from laboratory or field activities; and (2) to determine if there is any inherent vari-

ability in the data. Phthalate esters are common laboratory contaminants. Method blanks analysis must be performed after the calibration standards and once for every 12-hour time period beginning with the injection of BFB for tuning. No contaminants should be found in the method blanks.

Di-n-butylphthalate and bis(2-ethylhexyl)phthalate were detected in some of the laboratory method blanks (Appendix D-2). Qualifications were made to some of the data because of the detection of these phthalate compounds. Tentatively identified compounds (TICs, Appendix C-6) detected in the laboratory method blanks and in surface water and sediment samples were qualified as rejected (R qualifier).

Matrix Spike and Matrix Spike Duplicates. Matrix spike and matrix spike duplicate (MS/MSD) data is used to assess accuracy and precision of the analytical method in relation to the sample matrix. Data for MS/MSD are generated to determine long-term precision and accuracy of the analytical method on various matrices and to demonstrate acceptable compound recovery by the laboratory at the time of sample analysis.

No qualifications were required for this criteria as the functional guidelines were met.

3.0 PESTICIDES AND PCBs

The data validation of the pesticides/PCB data for the surface water and sediment samples consisted of review of;

- analytical holding times;
- tuning;
- initial calibration;
- continuing calibration;
- method blanks; and
- matrix spiked matrix spike duplicates.

The functional guidelines for validation of the pesticide and PCB data were met (Appendix D-3). The functional guideline criteria for the pesticides and PCBs are similar to the semi-volatile compounds. There were no qualifications of these data (Appendix C-3).

4.0 INORGANICS

The data validation of inorganics data for the surface water and sediment samples consisted of review of:

- analytical holding times;
- preparation blanks;
- matrix spike analysis and spike recovery;
- laboratory control samples
- graphite furnace atomic absorption (GFAA) spiking; and
- serial dilution.

Analytical Holding Time. The analytical holding time criteria is the maximum time that a sample can be stored from the date of collection until the sample is analyzed. Technical requirements for holding times have only been established for water matrices. The following are the technical requirements:

- Metals must be analyzed within 6 months of collection when preserved to a pH of less than 2;

- Mercury must be analyzed within 28 days when preserved to a pH of less than 2; and

- Cyanide must be analyzed within 14 days when preserved to a pH of greater than 12.

No qualifications of the inorganic data were required for holding times.

Preparation Blanks. The purpose of the analytical preparation blanks are to assess the existence and magnitude of contamination problems and to determine if there is any inherent variability in the data. No contaminants should be in the blanks.

Arsenic, barium, beryllium, cadmium, calcium, copper, iron, manganese, mercury, potassium, silver, sodium, vanadium, and zinc were detected in some of the laboratory preparation blanks (Appendix D-4). Qualifications were made to some of the data because of the detection of these compounds (Appendix C-4).

Matrix Spike Analysis and Matrix Spike Recovery. Matrix spike data is used to assess accuracy and precision of the analytical method in relation to the sample matrix. The matrix spike sample analysis provides information about the effect of each sample matrix on the sample digestion and measurement methodology. Field Blanks can not be used for spike analysis. Spike recovery (%R) must be within the limits of 75 to 125 percent. Spike recovery criteria do not apply when the sample concentration exceeds the spike by a factor of 4 or more.

Qualifications were required for some of the samples as the functional guidelines for spike recovery were not met for aluminum, antimony, lead,

selenium and silver for some of the sample delivery groups (Appendix D-4). Non detected values for selenium in samples SD005, SD006 and SD007 (SDG 20803) were qualified as rejected (R qualifier). Non detected values for silver in samples SW016, and SW027 through SW032 (SDG 32114) were qualified as rejected (R qualifier).

Laboratory Control Samples. Laboratory control samples (LCS) are used to monitor the overall performance of the analytical procedures and sample preservation. All aqueous matrix LCS samples must fall within control limits of 80 to 120 percent recovery (%R), except Antimony (Sb) and Silver (Ag) which have no control limits.

Qualifications were required for some of the samples for this criteria as functional guidelines for aluminum, cadmium, lead and manganese were not met for some of the sample delivery groups (Appendix D-4).

Graphite Furnace Atomic Absorption Spiking. Graphite furnace atomic absorption (GFAA) spiking is conducted to establish precision and accuracy of individual analytical determinations. For samples with concentrations greater than the contract required detection limit (CRDL), duplicate injections must agree within plus or minus 20 percent relative standard deviation (RSD). The Spike recovery (%R), comparison of true spike value with recovered value, must be within 85 to 115 percent.

Qualifications were required for some of the samples for this criteria as functional guidelines for selenium, silver, and thallium were not met for some of the sample delivery groups (Appendix D-4).

Serial Dilution. Serial dilution is used to determine whether significant physical or chemical interferences exist because of the sample matrix. If an analyte concentration has a value of 50 above the instrument detection limit (IDL), then an analysis of a 5-fold dilution must agree within 10 percent of the original value.

Qualifications were required for some of the samples for this criteria as functional guidelines for aluminum, barium, calcium, iron, manganese and sodium were not met for some of the sample delivery groups (Appendix D-4).

5.0 RADIONUCLIDES

None of the Radiological data was qualified (Appendix C-5), however some general comments were provided by the data validation contractor. The general comments concerning analysis of the radiological parameters indicate that six of the Radium 226 analyses contain positive results and the corresponding Gross Alpha analyses do not confirm the reported Radium 226 activity. The difference in the analytical results was attributed to the counting error of the analytical procedure, which would indicate a false positive result for Radium 226 or a poor extraction for the gross Alpha analyses. In addition nine of the Radium 226 analysis do not indicate a positive result and the corresponding gross Alpha do not indicate any activity. The level of activity that is present may be attributable to other isotopes.

Reported results for Radium 228 and corresponding gross Alpha do not indicate a problem with the results. Four of the Radium 228 analyses contain positive results and the corresponding gross Beta analyses do not confirm the reported Radium 228 activity. The difference in the analytical results was attributed to the counting error of the analytical procedure, which would indicate a false positive result for Radium 228 or a poor extraction for the gross Beta analyses. In addition 29 of the Radium 228 analysis do not indicate a positive result and the corresponding gross Beta do not indicate any activity. The level of activity that is present may be attributable to other isotopes.

Appendix D-1
Data Validation Summary Tables for Volatile Organic Compounds

APPENDIX D-1
VOLATILE ORGANICS DATA VALIDATION SUMMARY
SAMPLE DELIVERY GROUP 20803
NAVAL SIR STATION, JACKSONVILLE, FLORIDA

SAMPLE NUMBERS	ANALYTICAL HOLDING TIME (a.)	INITIAL CALIBRATIONS (b.)	CONTINUING CALIBRATION (c.)	CONTINUING CALIBRATION (d.)	CONSTITUENTS DETECTED IN METHOD BLANKS (e.)
SD005	MET	ACCEPTABLE	ACCEPTABLE	1,2-DICHLOROETHANE	2-BUTANONE
SDOO6				2-BUTANONE	ACETONE
SDOO7				2-HEXANONE	METHYLENE CHLORIDE
SW005				4-METHYL-2-PENTANONE	
SW006				ACETONE	
SW007				CARBON DISULFIDE	
EB001				CARBON TETRACHLORIDE	
FB001				VINYL ACETATE	
TB001					

a. HOLDING TIME = Analysis within 10 days upon receipt by Laboratory or within 14 days of sample collection.
b. INITIAL CALIBRATION = Relative Response Factor (RRF) greater than or equal 0.05 and Percent Difference (%D) less than or equal 25.
1. The RRFs were greater than 0.05 for the target analytes.
2. The %Ds for the target analytes were less than 30%.
No qualifications were required.
c. CONTINUING CALIBRATION = Relative Response Factor (RRF) greater than or equal 0.05 and Percent Difference (%D) less than or equal 25.
(J) Qualifier is assigned to positive detected target analytes.
(R) Qualifier is assigned to non detected target analytes.
d. CONTINUING CALIBRATION = Percent Difference (%D) greater than or equal 25 or less than or equal 50
(J) Qualifier is assigned to Positive detected target analytes.
e. METHOD BLANKS = Positive detection of target analytes
(U) Qualifier is assigned to positive detected target analytes greater than the contract required quantitation limit and less than 10 times the value detected in the Method Blank.
(R) Qualifier is assigned if contaminant value is less than the CRQL and 10 times the value detected in the Method Blank.
No qualification is made if the target analyte value is greater than 10 times the Method Blank value.

APPENDIX D–1 (Continued)
VOLATILE ORGANICS DATA VALIDATION SUMMARY
SAMPLE DELIVERY GROUP 20807
NAVAL SIR STATION, JACKSONVILLE, FLORIDA

SAMPLE NUMBERS	ANALYTICAL HOLDING TIME (a.)	INITIAL CALIBRATIONS (b.)	CONTINUING CALIBRATION (c.)	CONTINUING CALIBRATION (d.)	CONSTITUENTS DETECTED IN METHOD BLANKS (e.)
SD004 SD008 SD009 SW004 SW008 SW009 EBOO2 FB002 TB002	MET	ACCEPTABLE	ACCEPTABLE	1,2–DICHLOROETHANE 2–BUTANONE 2–HEXANONE 4–METHYL–2–PENTANONE CARBON DISULFIDE VINYL ACETATE	2–BUTANONE ACETONE METHYLENE CHLORIDE

a. HOLDING TIME = Analysis within 10 days upon receipt by Laboratory or within 14 days of sample collection.
b. INITIAL CALIBRATION = Relative Response Factor (RRF) greater than or equal 0.05 and Percent Difference (%D) less than or equal 25.
1. The RRFs were greater than 0.05 for the target analytes.
2. The %Ds for the target analytes were less than 30%.
No qualifications were required.
c. CONTINUING CALIBRATION = Relative Response Factor (RRF) greater than or equal 0.05 and Percent Difference (%D) less than or equal 25.
(J) Qualifier is assigned to positive detected target analytes.
(R) Qualifier is assigned to non detected target analytes.
d. CONTINUING CALIBRATION = Percent Difference (%D) greater than or equal 25 or less than or equal 50
(J) Qualifier is assigned to Positive detected target analytes.
e. METHOD BLANKS = Positive detection of target analytes
(U) Qualifier is assigned to positive detected target analytes greater than the contract required quantitation limit and less than 10 times the value detected in the Method Blank.
(R) Qualifier is assigned if contaminant value is less than the CRQL and 10 times the value detected in the Method Blank. No qualification is made if the target analyte value is greater than 10 times the Method Blank value.

APPENDIX D–1 (Continued)
VOLATILE ORGANICS DATA VALIDATION SUMMARY
SAMPLE DELIVERY GROUP 20815
NAVAL SIR STATION, JACKSONVILLE, FLORIDA

SAMPLE NUMBERS	ANALYTICAL HOLDING TIME (a.)	INITIAL CALIBRATIONS (b.)	CONTINUING CALIBRATION (c.)	CONTINUING CALIBRATION (d.)	CONSTITUENTS DETECTED IN METHOD BLANKS (e.)
SD002 SD003 SD012 SW002 SW003 SW012 EB003 FB003 TB003	MET	ACCEPTABLE	ACCEPTABLE	1,2–DICHLOROETHANE CARBON DISULFIDE	2–BUTANONE ACETONE METHYLENE CHLORIDE

a. HOLDING TIME = Analysis within 10 days upon receipt by Laboratory or within 14 days of sample collection.
b. INITIAL CALIBRATION = Relative Response Factor (RRF) greater than or equal 0.05 and Percent Difference (%D) less than or equal 25.
1. The RRFs were greater than 0.05 for the target analytes.
2. The %Ds for the target analytes were less than 30%.
No qualifications were required.
c. CONTINUING CALIBRATION = Relative Response Factor (RRF) greater than or equal 0.05 and Percent Difference (%D) less than or equal 25.
(J) Qualifier is assigned to positive detected target analytes.
(R) Qualifier is assigned to non detected target analytes.
d. CONTINUING CALIBRATION = Percent Difference (%D) greater than or equal 25 or less than or equal 50
(J) Qualifier is assigned to Positive detected target analytes.
e. METHOD BLANKS = Positive detection of target analytes
(U) Qualifier is assigned to positive detected target analytes greater than the contract required quantitation limit and less than 10 times the value detected in the Method Blank.
(R) Qualifier is assigned if contaminant value is less than the CRQL and 10 times the value detected in the Method Blank.
No qualification is made if the target analyte value is greater than 10 times the Method Blank value.

APPENDIX D-1 (Continued)
VOLATILE ORGANICS DATA VALIDATION SUMMARY
SAMPLE DELIVERY GROUP 32092
NAVAL SIR STATION, JACKSONVILLE, FLORIDA

SAMPLE NUMBERS	ANALYTICAL HOLDING TIME (a.)	INITIAL CALIBRATIONS (b.)	CONTINUING CALIBRATION (c.)	CONTINUING CALIBRATION (d.)	CONSTITUENTS DETECTED IN METHOD BLANKS (e.)
SW001	MET	ACCEPTABLE	ACCEPTABLE	2-BUTANONE	ACETONE
SW011				2-HEXANONE	METHYLENE CHLORIDE
SW013				4-METHYL-2-PENTANONE	
SW014				ACETONE	
SW015				METHYLENE CHLORIDE	
SW017				VINYL ACETATE	
SW018					
SW019					
SW020					
SW021					
SW022					
SW023					
SW024					
SW025					
SW026					
EB004					
EB005					
TB004					
TB005					

a. HOLDING TIME = Analysis within 10 days upon receipt by Laboratory or within 14 days of sample collection.
b. INITIAL CALIBRATION = Relative Response Factor (RRF) greater than or equal 0.05 and Percent Difference (%D) less than or equal 25.
1. The RRFs were greater than 0.05 for the target analytes.
2. The %Ds for the target analytes were less than 30%.
No qualifications were required.
c. CONTINUING CALIBRATION = Relative Response Factor (RRF) greater than or equal 0.05 and Percent Difference (%D) less than or equal 25.
(J) Qualifier is assigned to positive detected target analytes.
(R) Qualifier is assigned to non detected target analytes.
d. CONTINUING CALIBRATION = Percent Difference (%D) greater than or equal 25 or less than or equal 50
(J) Qualifier is assigned to Positive detected target analytes.
e. METHOD BLANKS = Positive detection of target analytes
(U) Qualifier is assigned to positive detected target analytes greater than the contract required quantitation limit and less than 10 times the value detected in the Method Blank.
(R) Qualifier is assigned if contaminant value is less than the CRQL and 10 times the value detected in the Method Blank.
No qualification is made if the target analyte value is greater than [illegible] times the Method Blank value.

APPENDIX D – 1 (Continued)
VOLATILE ORGANICS DATA VALIDATION SUMMARY
SAMPLE DELIVERY GROUP 32096
NAVAL SIR STATION, JACKSONVILLE, FLORIDA

SAMPLE NUMBERS	ANALYTICAL HOLDING TIME (a.)	INITIAL CALIBRATIONS (b.)	CONTINUING CALIBRATION (c.)	CONTINUING CALIBRATION (d.)	CONSTITUENTS DETECTED IN METHOD BLANKS (e.)
SD001	MET	2-BUTANONE (1)	2-BUTANONE	BROMOFORM	ACETONE
SD011		METHYLENE CHLORIDE (2)		CARBON DISULFIDE	METHYLENE CHLORIDE
SD013					
SD015					
SD017					
SD018					
SD019					
SD020					
SD021					
SD022					
SD023					
SD024					
SD025					
SD026					
EB004					
EB005					
TB004					
TB005					

a. HOLDING TIME = Analysis within 10 days upon receipt by Laboratory or within 14 days of sample collection.
b. INITIAL CALIBRATION = Relative Response Factor (RRF) greater than or equal 0.05 and Percent Difference (%D) less than or equal 25.
1. The RRF was less than 0.05 for this target analyte.
2. The %D for this target analyte was greater than 30%.
No qualifications were required for these criteria since samples for this Sample Delivery Group were analyzed after the initial calibration sample.
c. CONTINUING CALIBRATION = Relative Response Factor (RRF) greater than or equal 0.05 and Percent Difference (%D) less than or equal 25.
(J) Qualifier is assigned to positive detected target analytes.
(R) Qualifier is assigned to non detected target analytes.
d. CONTINUING CALIBRATION = Percent Difference (%D) greater than or equal 25 or less than or equal 50
(J) Qualifier is assigned to Positive detected target analytes.
e. METHOD BLANKS = Positive detection of target analytes
(U) Qualifier is assigned to positive detected target analytes greater than the contract required quantitation limit and less than 10 times the value detected in the Method Blank.
(R) Qualifier is assigned if contaminant value is less than the CRQL and 10 times the value detected in the Method Blank.
No qualification is made if the target analyte value is greater than 10 times the Method Blank value.

APPENDIX D–1 (Continued)
VOLATILE ORGANICS DATA VALIDATION SUMMARY
SAMPLE DELIVERY GROUP 32114
NAVAL SIR STATION, JACKSONVILLE, FLORIDA

SAMPLE NUMBERS	ANALYTICAL HOLDING TIME (a.)	INITIAL CALIBRATIONS (b.)	CONTINUING CALIBRATION (c.)	CONTINUING CALIBRATION (d.)	CONSTITUENTS DETECTED IN METHOD BLANKS (e.)
SW016 SW027 SW028 SW029 SW030 SW031 SW032 SW033 EB006 TB006	MET	2–BUTANONE (1.)	2–BUTANONE	2–BUTANONE 4–METHYL–2–PENTANONE ACETONE BROMOFORM METHYLENE CHLORIDE	ACETONE ACETONE METHYLENMETHYLENE CHL(

a. HOLDING TIME = Analysis within 10 days upon receipt by Laboratory or within 14 days of sample collection.
b. INITIAL CALIBRATION = Relative Response Factor (RRF) greater than or equal 0.05 and Percent Difference (%D) less than or equal 25.
1. The RRF was less than 0.05 for this target analyte.
2. The %Ds were less than 30%.
No qualifications were required for these criteria since samples for this Sample Delivery Group were analyzed after the initial calibration sample.
c. CONTINUING CALIBRATION = Relative Response Factor (RRF) greater than or equal 0.05 and Percent Difference (%D) less than or equal 25.
(J) Qualifier is assigned to positive detected target analytes.
(R) Qualifier is assigned to non detected target analytes.
d. CONTINUING CALIBRATION = Percent Difference (%D) greater than or equal 25 or less than or equal 50
(J) Qualifier is assigned to Positive detected target analytes.
e. METHOD BLANKS = Positive detection of target analytes
(U) Qualifier is assigned to positive detected target analytes greater than the contract required quantitation limit and less than 10 times the value detected in the Method Blank.
(R) Qualifier is assigned if contaminant value is less than the CRQL and 10 times the value detected in the Method Blank.
No qualification is made if the target analyte value is greater than 10 times the Method Blank value.

APPENDIX D–1 (Continued)
VOLATILE ORGANICS DATA VALIDATION SUMMARY
SAMPLE DELIVERY GROUP 32115
NAVAL SIR STATION, JACKSONVILLE, FLORIDA

SAMPLE NUMBERS	ANALYTICAL HOLDING TIME (a.)	INITIAL CALIBRATIONS (b.)	CONTINUING CALIBRATION (c.)	CONTINUING CALIBRATION (d.)	CONSTITUENTS DETECTED IN METHOD BLANKS (e.)
SD016	MET	METHYLENE CHLORIDE (;	ACCEPTABLE	CARBON DISULFIDE	ACETONE
SD027	EXCEPT SD027			METHYLENE CHLORIDE	METHYLENE CHLORIDE
SD028					
SD029					
SD030					
SD031					
SD032					
SD033					
EB006					
TB006					

a. HOLDING TIME = Analysis within 10 days upon receipt by Laboratory or within 14 days of sample collection.
Sample SD027 was analyzed greater than 10 days after receipt by lab but within the 14 day period.
No qualifications were required.

b. INITIAL CALIBRATION = Relative Response Factor (RRF) greater than or equal 0.05 and Percent Difference (%D) less than or equal 25.
1. The RRF was greater than 0.05 for the target analytes.
2. The %D for this target analyte was greater than 30%.
No qualifications were required for these criteria since samples for this Sample Delivery Group were analyzed after the initial calibration sample.

c. CONTINUING CALIBRATION = Relative Response Factor (RRF) greater than or equal 0.05 and Percent Difference (%D) less than or equal 25.
(J) Qualifier is assigned to positive detected target analytes.
(R) Qualifier is assigned to non detected target analytes.

d. CONTINUING CALIBRATION = Percent Difference (%D) greater than or equal 25 or less than or equal 50
(J) Qualifier is assigned to Positive detected target analytes.

e. METHOD BLANKS = Positive detection of target analytes
(U) Qualifier is assigned to positive detected target analytes greater than the contract required quantitation limit and less than 10 times the value detected in the Method Blank.
(R) Qualifier is assigned if contaminant value is less than the CRQL and 10 times the value detected in the Method Blank.
No qualification is made if the target analyte value is greater than 10 times the Method Blank value.

APPENDIX D-1 (Continued)
VOLATILE ORGANICS DATA VALIDATION SUMMARY
SAMPLE DELIVERY GROUP 32152
NAVAL SIR STATION, JACKSONVILLE, FLORIDA

SAMPLE NUMBERS	ANALYTICAL HOLDING TIME (a.)	INITIAL CALIBRATIONS (b.)	CONTINUING CALIBRATION (c.)	CONTINUING CALIBRATION (d.)	CONSTITUENTS DETECTED IN METHOD BLANKS (e.)
SD011 SW031 EB001 EB002	MET	METHYLENE CHLORIDE (;	ACCEPTABLE	4-METHYL2-PENTANONE	ACETONE METHYLENE CHLORIDE

a. HOLDING TIME = Analysis within 10 days upon receipt by Laboratory or within 14 days of sample collection.
b. INITIAL CALIBRATION = Relative Response Factor (RRF) greater than or equal 0.05 and Percent Difference (%D) less than or equal 25.
1. The RRF was greater than 0.05 for the target analytes.
2. The %D for this target analyte was greater than 30%.
No qualifications were required for these criteria since samples for this Sample Delivery Group were analyzed after the initial calibration sample.
c. CONTINUING CALIBRATION = Relative Response Factor (RRF) greater than or equal 0.05 and Percent Difference (%D) less than or equal 25.
(J) Qualifier is assigned to positive detected target analytes.
(R) Qualifier is assigned to non detected target analytes.
d. CONTINUING CALIBRATION = Percent Difference (%D) greater than or equal 25 or less than or equal 50
(J) Qualifier is assigned to Positive detected target analytes.
e. METHOD BLANKS = Positive detection of target analytes
(U) Qualifier is assigned to positive detected target analytes greater than the contract required quantitation limit and less than 10 times the value detected in the Method Blank.
(R) Qualifier is assigned if contaminant value is less than the CRQL and 10 times the value detected in the Method Blank.
No qualification is made if the target analyte value is greater than 10 times the Method Blank value.

Appendix D-2
Data Validation Summary Tables for Semi-volatile Organic Compounds

APPENDIX D-2
SEMIVOLATILE ORGANICS DATA VALIDATION SUMMARY
SAMPLE DELIVERY GROUP 20803
NAVAL SIR STATION, JACKSONVILLE, FLORIDA

SAMPLE NUMBERS	ANALYTICAL HOLDING TIME (a.)	INITIAL and CONTINUING CALIBRATION (b.)	CONTINUING CALIBRATION (c.)	CONTINUING CALIBRATION (d.)	CONTINUING CALIBRATION (e.)	CONSTITUENTS DETECTED IN METHOD BLANKS (f.)
SD005 SD006 SD007 SW005 SW006 SW007 EB001 FB001 TB001	MET	ACCEPTABLE	2-NITROANALINE 4-NITROPHENOL BENZOIC ACID	NO VALUES IN THIS RANGE	NO VALUES IN THIS RANGE	DI-N-BUTYLPHTHALATE BIS(2-ETHYLHEXYL)PHTHALATE TICs

a. HOLDING TIME = Samples should be extracted within 7 days and the extract analyzed within 40 days.
b. INITIAL AND CONTINUING CALIBRATION = Relative Response Factor (RRF) greater than or equal 0.05 and Percent Difference (%D) less than or equal 25.
1. The RRFs were greater than 0.05 for the target analytes.
2. The %Ds for the target analytes were less than 30%.
No qualifications were required.
c. CONTINUING CALIBRATION = Percent Difference (%D) greater than or equal 25 or less than or equal 50.
(J) Qualifier is assigned to Positive detected target analytes.
d. CONTINUING CALIBRATION = Percent Difference (%D) greater than or equal 50 or less than or equal 90.
(J) Qualifier is assigned to Positive detected target analytes.
(UJ) Qualifier is assigned to non detect target compounds.
e. CONTINUING CALIBRATION = Percent Difference (%D) greater than or equal 90.
(J) Qualifier is assigned to Positive detected target analytes.
(R) Qualifier is assigned to non detected target analytes.
f. METHOD BLANKS = Positive detection of target analytes
(U) Qualifier is assigned to positive detected target analytes greater than the contract required quantitation limit and less than 10 times the value detected in the Method Blank.
(R) Qualifier is assigned if contaminant value is less than the CRQL and 10 times the value detected in the Method Blank.
(R) Qualifier is assigned to Tentatively Identified Compounds (TICs) detected in the Method Blanks.
No qualification is made if the target analyte value is greater than 10 times the Method Blank value.

APPENDIX D-2 (Continued)
SEMIVOLATILE ORGANICS DATA VALIDATION SUMMARY
SAMPLE DELIVERY GROUP 20807
NAVAL SIR STATION, JACKSONVILLE, FLORIDA

SAMPLE NUMBERS	ANALYTICAL HOLDING TIME (a.)	INITIAL and CONTINUING CALIBRATION (b.)	CONTINUING CALIBRATION (c.)	CONTINUING CALIBRATION (d.)	CONTINUING CALIBRATION (e.)	CONSTITUENTS DETECTED IN METHOD BLANKS (f.)
SD004 SD008 SD009 SW004 SW008 SW009 EB002 FB002 TB002	MET	ACCEPTABLE	2-NITROANALINE 4-NITROANALINE BENZOIC ACID	NO VALUES IN THIS RANGE	NO VALUES IN THIS RANGE	DI-N-BUTYLPHTHALATE TICs

a. HOLDING TIME = Samples should be extracted within 7 days and the extract analyzed within 40 days.
b. INITIAL AND CONTINUING CALIBRATION = Relative Response Factor (RRF) greater than or equal 0.05 and Percent Difference (%D) less than or equal 25.
1. The RRFs were greater than 0.05 for the target analytes.
2. The %Ds for the target analytes were less than 30%.
No qualifications were required.
c. CONTINUING CALIBRATION = Percent Difference (%D) greater than or equal 25 or less than or equal 50.
(J) Qualifier is assigned to Positive detected target analytes.
d. CONTINUING CALIBRATION = Percent Difference (%D) greater than or equal 50 or less than or equal 90.
(J) Qualifier is assigned to Positive detected target analytes.
(UJ) Qualifier is assigned to non detect target compounds.
e. CONTINUING CALIBRATION = Percent Difference (%D) greater than or equal 90.
(J) Qualifier is assigned to Positive detected target analytes.
(R) Qualifier is assigned to non detected target analytes.
f. METHOD BLANKS = Positive detection of target analytes
(U) Qualifier is assigned to positive detected target analytes greater than the contract required quantitation limit and less than 10 times the value detected in the Method Blank.
(R) Qualifier is assigned if contaminant value is less than the CRQL and 10 times the value detected in the Method Blank.
(R) Qualifier is assigned to Tentatively Identified Compounds (TICs) detected in the Method Blanks.
No qualification is made if the target analyte value is greater than 10 times the Method Blank value.

APPENDIX D-2 (Continued)
SEMIVOLATILE ORGANICS DATA VALIDATION SUMMARY
SAMPLE DELIVERY GROUP 20815
NAVAL SIR STATION, JACKSONVILLE, FLORIDA

SAMPLE NUMBERS	ANALYTICAL HOLDING TIME (a.)	INITIAL and CONTINUING CALIBRATION (b.)	CONTINUING CALIBRATION (c.)	CONTINUING CALIBRATION (d.)	CONTINUING CALIBRATION (e.)	CONSTITUENTS DETECTED IN METHOD BLANKS (f.)
SD002 SD003 SD012 SW002 SW003 SW012 EB003 FB003 TB003	MET	ACCEPTABLE	2,4,6-TRIBROMOHENOL 2,4-DINITROPHENOL 2-NITROANALINE 3-NITROANALINE 4-NITROANALINE 4-NITROPHENOL BENZO(B)FLUOROANTHENE BENZO(G,H,I,)PERYLENE BIS(2-CHLOROETHOXY)METHANE BIS(2-CHLOROISOPROPYL)ETHER CHRYSENE DIBENZO(A,H)ANTHRACENE HEXACHLOROBENZENE IDENO(1,2,3,CD)PYRENE	2-NITROANALINE 4-NITROPHENOL BENZIC ACID	2,4-DINITROTOLUENE	DI-N-BUTYLPHTHALATE TICs

a. HOLDING TIME = Samples should be extracted within 7 days and the extract analyzed within 40 days.
b. INITIAL AND CONTINUING CALIBRATION = Relative Response Factor (RRF) greater than or equal 0.05 and Percent Difference (%D) less than or equal 25.
1. The RRFs were greater than 0.05 for the target analytes.
2. The %Ds for the target analytes were less than 30%.
No qualifications were required.
c. CONTINUING CALIBRATION = Percent Difference (%D) greater than or equal 25 or less than or equal 50.
(J) Qualifier is assigned to Positive detected target analytes.
d. CONTINUING CALIBRATION = Percent Difference (%D) greater than or equal 50 or less than or equal 90.
(J) Qualifier is assigned to Positive detected target analytes.
(UJ) Qualifier is assigned to non detect target compounds.
e. CONTINUING CALIBRATION = Percent Difference (%D) greater than or equal 90.
(J) Qualifier is assigned to Positive detected target analytes.
(R) Qualifier is assigned to non detected target analytes.
f. METHOD BLANKS = Positive detection of target analytes
(U) Qualifier is assigned to positive detected target analytes greater than the contract required quantitation limit and less than 10 times the value detected in the Method Blank.
(R) Qualifier is assigned if contaminant value is less than the CRQL and 10 times the value detected in the Method Blank.
(R) Qualifier is assigned to Tentatively Identified Compounds (TICs) detected in the Method Blanks.
No qualification is made if the target analyte value is greater than 10 times the Method Blank value.

APPENDIX D-2 (Continued)
SEMIVOLATILE ORGANICS DATA VALIDATION SUMMARY
SAMPLE DELIVERY GROUP 32092
NAVAL SIR STATION, JACKSONVILLE, FLORIDA

SAMPLE NUMBERS	ANALYTICAL HOLDING TIME (a.)	INITIAL and CONTINUING CALIBRATION (b.)	CONTINUING CALIBRATION (c.)	CONTINUING CALIBRATION (d.)	CONTINUING CALIBRATION (e.)	CONSTITUENTS DETECTED IN METHOD BLANKS (f.)
SW001	MET	ACCEPTABLE	2,4-DINITROPHENOL	NO VALUES IN THIS RANGE	NO VALUES IN THIS RANGE	TICs
SW011			BENZO(A)ANTHRACENE			
SW013			HEXACHLORO-CYCLOPENTADIENE			
SW014			PYRENE			
SW015			TERPHYNYL-D			
SW017						
SW018						
SW019						
SW020						
SW021						
SW022						
SW023						
SW024						
SW025						
SW026						
EB004						
EB005						
TB004						
TB005						

a. HOLDING TIME = Samples should be extracted within 7 days and the extract analyzed within 40 days.
b. INITIAL AND CONTINUING CALIBRATION = Relative Response Factor (RRF) greater than or equal 0.05 and Percent Difference (%D) less than or equal 25.
1. The RRFs were greater than 0.05 for the target analytes.
2. The %Ds for the target analytes were less than 30%.
No qualifications were required.
c. CONTINUING CALIBRATION = Percent Difference (%D) greater than or equal 25 or less than or equal 50.
(J) Qualifier is assigned to Positive detected target analytes.
d. CONTINUING CALIBRATION = Percent Difference (%D) greater than or equal 50 or less than or equal 90.
(J) Qualifier is assigned to Positive detected target analytes.
(UJ) Qualifier is assigned to non detect target compounds.
e. CONTINUING CALIBRATION = Percent Difference (%D) greater than or equal 90.
(J) Qualifier is assigned to Positive detected target analytes.
(R) Qualifier is assigned to non detected target analytes.
f. METHOD BLANKS = Positive detection of target analytes
(U) Qualifier is assigned to positive detected target analytes greater than the contract required quantitation limit and less than 10 times the value detected in the Method Blank.
(R) Qualifier is assigned if contaminant value is less than the CRQL and 10 times the value detected in the Method Blank.
(R) Qualifier is assigned to Tentatively Identified Compounds (TICs) detected in the Method Blanks.
No qualification is made if the target analyte value is greater than 10 times the Method Blank value.

APPENDIX D-2 (Continued)
SEMIVOLATILE ORGANICS DATA VALIDATION SUMMARY
SAMPLE DELIVERY GROUP 32096
NAVAL SIR STATION, JACKSONVILLE, FLORIDA

SAMPLE NUMBERS	ANALYTICAL HOLDING TIME (a.)	INITIAL and CONTINUING CALIBRATION (b.)	CONTINUING CALIBRATION (c.)	CONTINUING CALIBRATION (d.)	CONTINUING CALIBRATION (e.)	CONSTITUENTS DETECTED IN METHOD BLANKS (f.)
SD001	MET	ACCEPTABLE	NO VALUES IN THIS RANGE	NO VALUES IN THIS RANGE	NO VALUES IN THIS RANGE	BIS(2-ETHYLHEXYL)PHTHALATE TICs
SD011						
SD013						
SD015						
SD017						
SD018						
SD019						
SD020						
SD021						
SD022						
SD023						
SD024						
SD025						
SD026						
EB004						
EB005						
TB004						
TB005						

a. HOLDING TIME = Samples should be extracted within 7 days and the extract analyzed within 40 days.
b. INITIAL AND CONTINUING CALIBRATION = Relative Response Factor (RRF) greater than or equal 0.05 and Percent Difference (%D) less than or equal 25.
1. The RRFs were greater than 0.05 for the target analytes.
2. The %Ds for the target analytes were less than 30%.
No qualifications were required.
c. CONTINUING CALIBRATION = Percent Difference (%D) greater than or equal 25 or less than or equal 50.
(J) Qualifier is assigned to Positive detected target analytes.
d. CONTINUING CALIBRATION = Percent Difference (%D) greater than or equal 50 or less than or equal 90.
(J) Qualifier is assigned to Positive detected target analytes.
(UJ) Qualifier is assigned to non detect target compounds.
e. CONTINUING CALIBRATION = Percent Difference (%D) greater than or equal 90.
(J) Qualifier is assigned to Positive detected target analytes.
(R) Qualifier is assigned to non detected target analytes.
f. METHOD BLANKS = Positive detection of target analytes
(U) Qualifier is assigned to positive detected target analytes greater than the contract required quantitation limit and less than 10 times the value detected in the Method Blank.
(R) Qualifier is assigned if contaminant value is less than the CRQL and 10 times the value detected in the Method Blank.
(R) Qualifier is assigned to Tentatively Identified Compounds (TICs) detected in the Method Blanks.
No qualification is made if the target analyte value is greater than 10 times the Method Blank value.

APPENDIX D-2 (Continued)
SEMIVOLATILE ORGANICS DATA VALIDATION SUMMARY
SAMPLE DELIVERY GROUP 32114
NAVAL SIR STATION, JACKSONVILLE, FLORIDA

SAMPLE NUMBERS	ANALYTICAL HOLDING TIME (a.)	INITIAL and CONTINUING CALIBRATION (b.)	CONTINUING CALIBRATION (c.)	CONTINUING CALIBRATION (d.)	CONTINUING CALIBRATION (e.)	CONSTITUENTS DETECTED IN METHOD BLANKS (f.)
SW016	MET	ACCEPTABLE	BIS(2-ETHYLHEXYL)PHTHALATE	NO VALUES IN THIS RANGE	NO VALUES IN THIS RANGE	TICs
SW027			BUTYLBENZYLPHTHALATE			
SW028			DIBENZO(A,H)ANTHRACENE			
SW029			PYRENE			
SW030			TERYLPHYNL-D			
SW031						
SW032						
SW033						
EB006						
TB006						

a. HOLDING TIME = Samples should be extracted within 7 days and the extract analyzed within 40 days.
b. INITIAL AND CONTINUING CALIBRATION = Relative Response Factor (RRF) greater than or equal 0.05 and Percent Difference (%D) less than or equal 25.
1. The RRFs were greater than 0.05 for the target analytes.
2. The %Ds for the target analytes were less than 30%.
No qualifications were required.
c. CONTINUING CALIBRATION = Percent Difference (%D) greater than or equal 25 or less than or equal 50.
(J) Qualifier is assigned to Positive detected target analytes.
d. CONTINUING CALIBRATION = Percent Difference (%D) greater than or equal 50 or less than or equal 90.
(J) Qualifier is assigned to Positive detected target analytes.
(UJ) Qualifier is assigned to non detect target compounds.
e. CONTINUING CALIBRATION = Percent Difference (%D) greater than or equal 90.
(J) Qualifier is assigned to Positive detected target analytes.
(R) Qualifier is assigned to non detected target analytes.
f. METHOD BLANKS = Positive detection of target analytes
(U) Qualifier is assigned to positive detected target analytes greater than the contract required quantitation limit and less than 10 times the value detected in the Method Blank.
(R) Qualifier is assigned if contaminant value is less than the CRQL and 10 times the value detected in the Method Blank.
(R) Qualifier is assigned to Tentatively Identified Compounds (TICs) detected in the Method Blanks.
No qualification is made if the target analyte value is greater than 10 times the Method Blank value.

APPENDIX D-2 (Continued)
SEMIVOLATILE ORGANICS DATA VALIDATION SUMMARY
SAMPLE DELIVERY GROUP 32115
NAVAL SIR STATION, JACKSONVILLE, FLORIDA

SAMPLE NUMBERS	ANALYTICAL HOLDING TIME (a.)	INITIAL and CONTINUING CALIBRATION (b.)	CONTINUING CALIBRATION (c.)	CONTINUING CALIBRATION (d.)	CONTINUING CALIBRATION (e.)	CONSTITUENTS DETECTED IN METHOD BLANKS (f.)
SD016	MET	ACCEPTABLE	2,4-DINITROPHENOL	NO VALUES IN THIS RANGE	NO VALUES IN THIS RANGE	BIS(2-ETHYLHEXYL)PHTHALATE
SD027			2,4-DINITROTOLUENE			TICs
SD028			4-NITROANALINE			
SD029			BIS(2-ETHYLHEXYL)PHTHALATE			
SD030			BUTYLBENZYLPHTHALATE			
SD031			DIBENZO(A,H)ANTHRACENE			
SD032			PYRENE			
SD033			TERPHYNYL-D			
EB006						
TB006						

a. HOLDING TIME = Samples should be extracted within 7 days and the extract analyzed within 40 days.
b. INITIAL AND CONTINUING CALIBRATION = Relative Response Factor (RRF) greater than or equal 0.05 and Percent Difference (%D) less than or equal 25.
1. The RRFs were greater than 0.05 for the target analytes.
2. The %Ds for the target analytes were less than 30%.
No qualifications were required.
c. CONTINUING CALIBRATION = Percent Difference (%D) greater than or equal 25 or less than or equal 50.
(J) Qualifier is assigned to Positive detected target analytes.
d. CONTINUING CALIBRATION = Percent Difference (%D) greater than or equal 50 or less than or equal 90.
(J) Qualifier is assigned to Positive detected target analytes.
(UJ) Qualifier is assigned to non detect target compounds.
e. CONTINUING CALIBRATION = Percent Difference (%D) greater than or equal 90.
(J) Qualifier is assigned to Positive detected target analytes.
(R) Qualifier is assigned to non detected target analytes.
f. METHOD BLANKS = Positive detection of target analytes
(U) Qualifier is assigned to positive detected target analytes greater than the contract required quantitation limit and less than 10 times the value detected in the Method Blank.
(R) Qualifier is assigned if contaminant value is less than the CRQL and 10 times the value detected in the Method Blank.
(R) Qualifier is assigned to Tentatively Identified Compounds (TICs) detected in the Method Blanks.
No qualification is made if the target analyte value is greater than 10 times the Method Blank value.

APPENDIX D-2 (Continued)
SEMIVOLATILE ORGANICS DATA VALIDATION SUMMARY
SAMPLE DELIVERY GROUP 32152
NAVAL SIR STATION, JACKSONVILLE, FLORIDA

SAMPLE NUMBERS	ANALYTICAL HOLDING TIME (a.)	INITIAL and CONTINUING CALIBRATION (b.)	CONTINUING CALIBRATION (c.)	CONTINUING CALIBRATION (d.)	CONTINUING CALIBRATION (e.)	CONSTITUENTS DETECTED IN METHOD BLANKS (f.)
SD011 SW031 EB001 EB002	MET	ACCEPTABLE	3,3'-DICHLOROBENZIDINE BENZOIC ACID	NO VALUES IN THIS RANGE	NO VALUES IN THIS RANGE	N-NITROSODIPHENYLAMENE TICs

a. HOLDING TIME = Samples should be extracted within 7 days and the extract analyzed within 40 days.
b. INITIAL AND CONTINUING CALIBRATION = Relative Response Factor (RRF) greater than or equal 0.05 and Percent Difference (%D) less than or equal 25.
1. The RRFs were greater than 0.05 for the target analytes.
2. The %Ds for the target analytes were less than 30%.
No qualifications were required.
c. CONTINUING CALIBRATION = Percent Difference (%D) greater than or equal 25 or less than or equal 50.
(J) Qualifier is assigned to Positive detected target analytes.
d. CONTINUING CALIBRATION = Percent Difference (%D) greater than or equal 50 or less than or equal 90.
(J) Qualifier is assigned to Positive detected target analytes.
(UJ) Qualifier is assigned to non detect target compounds.
e. CONTINUING CALIBRATION = Percent Difference (%D) greater than or equal 90.
(J) Qualifier is assigned to Positive detected target analytes.
(R) Qualifier is assigned to non detected target analytes.
f. METHOD BLANKS = Positive detection of target analytes
(U) Qualifier is assigned to positive detected target analytes greater than the contract required quantitation limit and less than 10 times the value detected in the Method Blank.
(R) Qualifier is assigned if contaminant value is less than the CRQL and 10 times the value detected in the Method Blank.
(R) Qualifier is assigned to Tentatively Identified Compounds (TICs) detected in the Method Blanks.
No qualification is made if the target analyte value is greater than 10 times the Method Blank value.

Appendix D-3
Data Validation Summary Tables for Pesticides and PCBs

APPENDIX D-3
PESTICIDE AND PCB DATA VALIDATION SUMMARY
SAMPLE DELIVERY GROUP 20803
NAVAL SIR STATION, JACKSONVILLE, FLORIDA

SAMPLE NUMBERS	ANALYTICAL HOLDING TIME (a.)	INITIAL and CONTINUING CALIBRATION (b.)	CONTINUING CALIBRATION (c.)	CONTINUING CALIBRATION (d.)	CONTINUING CALIBRATION (e.)	CONSTITUENTS DETECTED IN METHOD BLANKS (f.)
SD005 SD006 SD007 SW005 SW006 SW007 EB001 FB001 TB001	ACCEPTABLE	ACCEPTABLE	NO VALUES IN THIS RANGE	NO VALUES IN THIS RANGE	NO VALUES IN THIS RANGE	NONE DETECTED

a. HOLDING TIME = Samples should be extracted within 7 days and the extract analyzed within 40 days.
No extraction records were included and the holding time was met.
No qualifications were required.

b. INITIAL AND CONTINUING CALIBRATION = Relative Response Factor (RRF) greater than or equal 0.05 and relative standard deviations were less than 10 percent.
1. The RRFs were greater than 0.05 for the target analytes.
2. The %Ds for the target analytes were less than 30%.
No qualifications were required.

c. CONTINUING CALIBRATION = Percent Difference (%D) greater than or equal 25 or less than or equal 50.
(J) Qualifier is assigned to Positive detected target analytes.

d. CONTINUING CALIBRATION = Percent Difference (%D) greater than or equal 50 or less than or equal 90.
(J) Qualifier is assigned to Positive detected target analytes.
(UJ) Qualifier is assigned to non detect target compounds.

e. CONTINUING CALIBRATION = Percent Difference (%D) greater than or equal 90.
(J) Qualifier is assigned to Positive detected target analytes.
(R) Qualifier is assigned to non detected target analytes.

f. METHOD BLANKS = Positive detection of target analytes
(U) Qualifier is assigned to positive detected target analytes greater than the contract required quantitation limit and less than 10 times the value detected in the Method Blank.
(R) Qualifier is assigned if contaminant value is less than the CRQL and 10 times the value detected in the Method Blank.
(R) Qualifier is assigned to Tentatively Identified Compounds (TICs) detected in the Method Blanks.
No qualification is made if the target analyte value is greater than 10 times the Method Blank value.

APPENDIX D–3 (Continued)
PESTICIDE AND PCB DATA VALIDATION SUMMARY
SAMPLE DELIVERY GROUP 20807
NAVAL SIR STATION, JACKSONVILLE, FLORIDA

SAMPLE NUMBERS	ANALYTICAL HOLDING TIME (a.)	INITIAL and CONTINUING CALIBRATION (b.)	CONTINUING CALIBRATION (c.)	CONTINUING CALIBRATION (d.)	CONTINUING CALIBRATION (e.)	CONSTITUENTS DETECTED IN METHOD BLANKS (f.)
SD004	ACCEPTABLE	ACCEPTABLE	NO VALUES IN THIS RANGE	NO VALUES IN THIS RANGE	NO VALUES IN THIS RANGE	NONE DETECTED
SD008						
SD009						
SW004						
SW008						
SW009						
EB002						
FB002						
TB002						

a. HOLDING TIME = Samples should be extracted within 7 days and the extract analyzed within 40 days.
No extraction records were included and the holding time was met.
No qualifications were required.

b. INITIAL AND CONTINUING CALIBRATION = Relative Response Factor (RRF) greater than or equal 0.05 and Percent Difference (%D) less than or equal 25.
1. The RRFs were greater than 0.05 for the target analytes.
2. The %Ds for the target analytes were less than 30%.
No qualifications were required.

c. CONTINUING CALIBRATION = Percent Difference (%D) greater than or equal 25 or less than or equal 50.
(J) Qualifier is assigned to Positive detected target analytes.

d. CONTINUING CALIBRATION = Percent Difference (%D) greater than or equal 50 or less than or equal 90.
(J) Qualifier is assigned to Positive detected target analytes.
(UJ) Qualifier is assigned to non detect target compounds.

e. CONTINUING CALIBRATION = Percent Difference (%D) greater than or equal 90.
(J) Qualifier is assigned to Positive detected target analytes.
(R) Qualifier is assigned to non detected target analytes.

f. METHOD BLANKS = Positive detection of target analytes
(U) Qualifier is assigned to positive detected target analytes greater than the contract required quantitation limit and less than 10 times the value detected in the Method Blank.
(R) Qualifier is assigned if contaminant value is less than the CRQL and 10 times the value detected in the Method Blank.
(R) Qualifier is assigned to Tentatively Identified Compounds (TICs) detected in the Method Blanks.
No qualification is made if the target analyte value is greater than 10 times the Method Blank value.

APPENDIX D-3 (Continued)
PESTICIDE AND PCB DATA VALIDATION SUMMARY
SAMPLE DELIVERY GROUP 20815
NAVAL SIR STATION, JACKSONVILLE, FLORIDA

SAMPLE NUMBERS	ANALYTICAL HOLDING TIME (a.)	INITIAL and CONTINUING CALIBRATION (b.)	CONTINUING CALIBRATION (c.)	CONTINUING CALIBRATION (d.)	CONTINUING CALIBRATION (e.)	CONSTITUENTS DETECTED IN METHOD BLANKS (f.)
SD002 SD003 SD012 SW002 SW003 SW012 EB003 FB003 TB003	ACCEPTABLE	ACCEPTABLE	NO VALUES IN THIS RANGE	NO VALUES IN THIS RANGE	NO VALUES IN THIS RANGE	NONE DETECTED

a. HOLDING TIME = Samples should be extracted within 7 days and the extract analyzed within 40 days.
No extraction records were included and the holding time was met.
No qualifications were required.

b. INITIAL AND CONTINUING CALIBRATION = Relative Response Factor (RRF) greater than or equal 0.05 and Percent Difference (%D) less than or equal 25.
1. The RRFs were greater than 0.05 for the target analytes.
2. The %Ds for the target analytes were less than 30%.
No qualifications were required.

c. CONTINUING CALIBRATION = Percent Difference (%D) greater than or equal 25 or less than or equal 50.
(J) Qualifier is assigned to Positive detected target analytes.

d. CONTINUING CALIBRATION = Percent Difference (%D) greater than or equal 50 or less than or equal 90.
(J) Qualifier is assigned to Positive detected target analytes.
(UJ) Qualifier is assigned to non detect target compounds.

e. CONTINUING CALIBRATION = Percent Difference (%D) greater than or equal 90.
(J) Qualifier is assigned to Positive detected target analytes.
(R) Qualifier is assigned to non detected target analytes.

f. METHOD BLANKS = Positive detection of target analytes
(U) Qualifier is assigned to positive detected target analytes greater than the contract required quantitation limit and less than 10 times the value detected in the Method Blank.
(R) Qualifier is assigned if contaminant value is less than the CRQL and 10 times the value detected in the Method Blank.
(R) Qualifier is assigned to Tentatively Identified Compounds (TICs) detected in the Method Blanks.
No qualification is made if the target analyte value is greater than 10 times the Method Blank value.

APPENDIX D-3 (Continued)
PESTICIDE AND PCB DATA VALIDATION SUMMARY
SAMPLE DELIVERY GROUP 32092
NAVAL SIR STATION, JACKSONVILLE, FLORIDA

SAMPLE NUMBERS	ANALYTICAL HOLDING TIME (a.)	INITIAL and CONTINUING CALIBRATION (b.)	CONTINUING CALIBRATION (c.)	CONTINUING CALIBRATION (d.)	CONTINUING CALIBRATION (e.)	CONSTITUENTS DETECTED IN METHOD BLANKS (f.)
SW001	ACCEPTABLE	ACCEPTABLE	NO VALUES IN THIS RANGE	NO VALUES IN THIS RANGE	NO VALUES IN THIS RANGE	NONE DETECTED
SW011						
SW013						
SW014						
SW015						
SW017						
SW018						
SW019						
SW020						
SW021						
SW022						
SW023						
SW024						
SW025						
SW026						
EB004						
EB005						
TB004						
TB005						

a. HOLDING TIME = Samples should be extracted within 7 days and the extract analyzed within 40 days.
No extraction records were included and the holding time was met.
No qualifications were required.

b. INITIAL AND CONTINUING CALIBRATION = Relative Response Factor (RRF) greater than or equal 0.05 and Percent Difference (%D) less than or equal 25.
1. The RRFs were greater than 0.05 for the target analytes.
2. The %Ds for the target analytes were less than 30%.
No qualifications were required.

c. CONTINUING CALIBRATION = Percent Difference (%D) greater than or equal 25 or less than or equal 50.
(J) Qualifier is assigned to Positive detected target analytes.

d. CONTINUING CALIBRATION = Percent Difference (%D) greater than or equal 50 or less than or equal 90.
(J) Qualifier is assigned to Positive detected target analytes.
(UJ) Qualifier is assigned to non detect target compounds.

e. CONTINUING CALIBRATION = Percent Difference (%D) greater than or equal 90.
(J) Qualifier is assigned to Positive detected target analytes.
(R) Qualifier is assigned to non detected target analytes.

f. METHOD BLANKS = Positive detection of target analytes
(U) Qualifier is assigned to positive detected target analytes greater than the contract required quantitation limit and less than 10 times the value detected in the Method Blank.
(R) Qualifier is assigned if contaminant value is less than the CRQL and 10 times the value detected in the Method Blank.
(R) Qualifier is assigned to Tentatively Identified Compounds (TICs) detected in the Method Blanks.
No qualification is made if the target analyte value is greater than 10 times the Method Blank value.

APPENDIX D-3 (Continued)
PESTICIDE AND PCB DATA VALIDATION SUMMARY
SAMPLE DELIVERY GROUP 32096
NAVAL SIR STATION, JACKSONVILLE, FLORIDA

SAMPLE NUMBERS	ANALYTICAL HOLDING TIME (a.)	INITIAL and CONTINUING CALIBRATION (b.)	CONTINUING CALIBRATION (c.)	CONTINUING CALIBRATION (d.)	CONTINUING CALIBRATION (e.)	CONSTITUENTS DETECTED IN METHOD BLANKS (f.)
SD001	ACCEPTABLE	ACCEPTABLE	NO VALUES IN THIS RANGE	NO VALUES IN THIS RANGE	NO VALUES IN THIS RANGE	NONE DETECTED
SD011						
SD013						
SD015						
SD017						
SD018						
SD019						
SD020						
SD021						
SD022						
SD023						
SD024						
SD025						
SD026						
EB004						
EB005						
TB004						
TB005						

a. HOLDING TIME = Samples should be extracted within 7 days and the extract analyzed within 40 days.
No extraction records were included and the holding time was met.
No qualifications were required.

b. INITIAL AND CONTINUING CALIBRATION = Relative Response Factor (RRF) greater than or equal 0.05 and Percent Difference (%D) less than or equal 25.
1. The RRFs were greater than 0.05 for the target analytes.
2. The %Ds for the target analytes were less than 30%.
No qualifications were required.

c. CONTINUING CALIBRATION = Percent Difference (%D) greater than or equal 25 or less than or equal 50.
(J) Qualifier is assigned to Positive detected target analytes.

d. CONTINUING CALIBRATION = Percent Difference (%D) greater than or equal 50 or less than or equal 90.
(J) Qualifier is assigned to Positive detected target analytes.
(UJ) Qualifier is assigned to non detect target compounds.

e. CONTINUING CALIBRATION = Percent Difference (%D) greater than or equal 90.
(J) Qualifier is assigned to Positive detected target analytes.
(R) Qualifier is assigned to non detected target analytes.

f. METHOD BLANKS = Positive detection of target analytes
(U) Qualifier is assigned to positive detected target analytes greater than the contract required quantitation limit and less than 10 times the value detected in the Method Blank.
(R) Qualifier is assigned if contaminant value is less than the CRQL and 10 times the value detected in the Method Blank.
(R) Qualifier is assigned to Tentatively Identified Compounds (TICs) detected in the Method Blanks.
No qualification is made if the target analyte value is greater than 10 times the Method Blank value.

Appendix D-4
Data Validation Summary Tables for Inorganics

APPENDIX D-4
INORGANICS DATA VALIDATION SUMMARY
SAMPLE DELIVERY GROUP 20803
NAVAL SIR STATION, JACKSONVILLE, FLORIDA

SAMPLE NUMBERS	ANALYTICAL HOLDING TIME (a.)	PREPARATION BLANKS (b.)	MATRIX SPIKE RECOVERY (c.)	LABORATORY CONTROL SAMPLE (d.)	GFAA SPIKING (e.)	SERIAL DILUTION (f.)
SD005	MET	BARIUM	ANTIMONY	MANGANESE	SELENIUM	ALUMINUM
SDOO6		CADMIUM	LEAD		SILVER	CALCIUM
SDOO7		CALCIUM	SELINIUM		THALLIUM	IRON
SW005		COPPER	SILVER			SODIUM
SW006		IRON				
SW007		MANGANESE				
EB001		SILVER				
FB001		SODIUM				
TB001		ZINC				

a. HOLDING TIME = METALS 6 months preserved to a pH < 2, MERCURY 28 days preserved to a pH of 2, and .

b. PREPARATION BLANKS = Positive detection of target analytes

(U) Qualifier is assigned to positive detected target analytes greater than the contract required quantitation limit and less than 10 times the value detected in the Preparation Blank.

(R) Qualifier is assigned if contaminant value is less than the CRQL and 10 times the value detected in the Preparation Blank.

No qualification is made if the target analyte value is greater than 10 times the Preparation value.

c. MATRIX SPIKE RECOVERY = The spike recovery (%R) of the matrix spike analytes must be between 75 to 125.

(J) Qualifier is assigned to positive detected target analytes if %R < 75 or > 125.

(UJ) Qualifier is assigned to non detected target analytes if %R > 30 and < 75.

(R) Qualifier is assigned to non detected target analytes if %R < 30.

d. LABORATORY CONTROL SAMPLE (LCS) = Percent recovery (%R) must range between 80 to 120.

Aqueous Matrix

(J) Qualifier is assigned to %R results > 50 or < 79 or >120.

(UJ) Qualifier is assigned to non detected target analytes if %R > 50 and < 79.

(R) Qualifier is assigned to %R results < 50.

Solid Matrix

(J) Qualifier is assigned to %R results outside EPA control limits.

(UJ) Qualifier is assigned to %R results lower than the lower control limit.

e. GFAA SPIKING = Graphite Furnace Atomic Absorption post digestion spike recovery (%R) must be between 85 and 115.

Sample absorbance less than 50% of the post digestion spike absorbance

(J) Qualifier is assigned to detected analytes if %R results are not between 85 to 115.

(UJ) Qualifier is assigned to non detected analytes if %R results are not between 85 and 115.

f. SERIAL DILUTION = Analyte concentrations that are a factor of 50 above the instrument detection limit are diluted (5 times) and the percent difference (%D) must be within 10% of the original result.

(J) qualifier is assigned when the criteria are not met.

APPENDIX D-4 (Continued)
INORGANICS DATA VALIDATION SUMMARY
SAMPLE DELIVERY GROUP 20807
NAVAL SIR STATION, JACKSONVILLE, FLORIDA

SAMPLE NUMBERS	ANALYTICAL HOLDING TIME (a.)	PREPARATION BLANKS (b.)	MATRIX SPIKE RECOVERY (c.)	LABORATORY CONTROL SAMPLE (d.)	GFAA SPIKING (e.)	SERIAL DILUTION (f.)
SD004	MET	CADMIUM	SILVER	NO DEFICIENCY	SILVER	NO DEFICIENCY
SD008		CALCIUM			THALLIUM	
SD009		COPPER				
SW004		IRON				
SW008		MANGANESE				
SW009		SILVER				
EBOO2		SODIUM				
FB002		ZINC				
TB002						

a. HOLDING TIME = METALS 6 months preserved to a pH < 2, MERCURY 28 days preserved to a pH of 2, and .

b. PREPARATION BLANKS = Positive detection of target analytes

(U) Qualifier is assigned to positive detected target analytes greater than the contract required quantitation limit and less than 10 times the value detected in the Preparation Blank.

(R) Qualifier is assigned if contaminant value is less than the CRQL and 10 times the value detected in the Preparation Blank.

No qualification is made if the target analyte value is greater than 10 times the Preparation value.

c. MATRIX SPIKE RECOVERY = The spike recovery (%R) of the matrix spike analytes must be between 75 to 125.

(J) Qualifier is assigned to positive detected target analytes if %R < 75 or > 125.

(UJ) Qualifier is assigned to non detected target analytes if %R > 30 and < 75.

(R) Qualifier is assigned to non detected target analytes if %R < 30.

d. LABORATORY CONTROL SAMPLE (LCS) = Percent recovery (%R) must range between 80 to 120.

Aqueous Matrix

(J) Qualifier is assigned to %R results > 50 or < 79 or >120.

(UJ) Qualifier is assigned to non detected target analytes if %R > 50 and < 79.

(R) Qualifier is assigned to %R results < 50.

Solid Matrix

(J) Qualifier is assigned to %R results outside EPA control limits.

(UJ) Qualifier is assigned to %R results lower than the lower control limit.

e. GFAA SPIKING = Graphite Furnace Atomic Absorption post digestion spike recovery (%R) must be between 85 and 115.

Sample absorbance less than 50% of the post digestion spike absorbance

(J) Qualifier is assigned to detected analytes if %R results are not between 85 to 115.

(UJ) Qualifier is assigned to non detected analytes if %R results are not between 85 and 115.

f. SERIAL DILUTION = Analyte concentrations that are a factor of 50 above the instrument detection limit are diluted (5 times) and the percent difference (%D) must be within 10% of the original result.

(J) qualifier is assigned when the criteria are not met.

APPENDIX D-4 (Continued)
INORGANICS DATA VALIDATION SUMMARY
SAMPLE DELIVERY GROUP 20815
NAVAL SIR STATION, JACKSONVILLE, FLORIDA

SAMPLE NUMBERS	ANALYTICAL HOLDING TIME (a.)	PREPARATION BLANKS (b.)	MATRIX SPIKE RECOVERY (c.)	LABORATORY CONTROL SAMPLE (d.)	GFAA SPIKING (e.)	SERIAL DILUTION (f.)
SD002	MET	BARIUM	LEAD	NO DEFICIENCY	SILVER	NO DEFICIENCY
SD003		CADMIUM	SELENIUM		THALLIUM	
SD012		CALCIUM	SILVER			
SW002		COPPER				
SW003		SELENIUM				
SW012		SILVER				
EB003		SODIUM				
FB003						
TB003						

a. HOLDING TIME = METALS 6 months preserved to a pH < 2, MERCURY 28 days preserved to a pH of 2, and .

b. PREPARATION BLANKS = Positive detection of target analytes

(U) Qualifier is assigned to positive detected target analytes greater than the contract required quantitation limit and less than 10 times the value detected in the Preparation Blank.

(R) Qualifier is assigned if contaminant value is less than the CRQL and 10 times the value detected in the Preparation Blank.

No qualification is made if the target analyte value is greater than 10 times the Preparation value.

c. MATRIX SPIKE RECOVERY = The spike recovery (%R) of the matrix spike analytes must be between 75 to 125.

(J) Qualifier is assigned to positive detected target analytes if %R < 75 or > 125.

(UJ) Qualifier is assigned to non detected target analytes if %R > 30 and < 75.

(R) Qualifier is assigned to non detected target analytes if %R < 30.

d. LABORATORY CONTROL SAMPLE (LCS) = Percent recovery (%R) must range between 80 to 120.

Aqueous Matrix

(J) Qualifier is assigned to %R results > 50 or < 79 or >120.

(UJ) Qualifier is assigned to non detected target analytes if %R > 50 and < 79.

(R) Qualifier is assigned to %R results < 50.

Solid Matrix

(J) Qualifier is assigned to %R results outside EPA control limits.

(UJ) Qualifier is assigned to %R results lower than the lower control limit.

e. GFAA SPIKING = Graphite Furnace Atomic Absorption post digestion spike recovery (%R) must be between 85 and 115.

Sample absorbance less than 50% of the post digestion spike absorbance

(J) Qualifier is assigned to detected analytes if %R results are not between 85 to 115.

(UJ) Qualifier is assigned to non detected analytes if %R results are not between 85 and 115.

f. SERIAL DILUTION = Analyte concentrations that are a factor of 50 above the instrument detection limit are diluted (5 times) and the percent difference (%D) must be within 10% of the original result.

(J) qualifier is assigned when the criteria are not met.

APPENDIX D-4 (Continued)
INORGANICS DATA VALIDATION SUMMARY
SAMPLE DELIVERY GROUP 32092
NAVAL SIR STATION, JACKSONVILLE, FLORIDA

SAMPLE NUMBERS	ANALYTICAL HOLDING TIME (a.)	PREPARATION BLANKS (b.)	MATRIX SPIKE RECOVERY (c.)	LABORATORY CONTROL SAMPLE (d.)	GFAA SPIKING (e.)	SERIAL DILUTION (f.)
SW001	MET	CALCIUM	NO DEFICIENCY	CADMIUM	SILVER	MANGANESE
SW011		SODIUM				
SW013						
SW014						
SW015						
SW017						
SW018						
SW019						
SW020						
SW021						
SW022						
SW023						
SW024						
SW025						
SW026						
EB004						
EB005						
TB004						
TB005						

NO INITIAL CALIBRATION DATA FOR CYANIDE ALL DATA QULAIFIED AS ESTIMATED (J).

a. HOLDING TIME = METALS 6 months preserved to a pH < 2, MERCURY 28 days preserved to a pH of 2, and .

b. PREPARATION BLANKS = Positive detection of target analytes

(U) Qualifier is assigned to positive detected target analytes greater than the contract required quantitation limit and less than 10 times the value detected in the Preparation Blank.

(R) Qualifier is assigned if contaminant value is less than the CRQL and 10 times the value detected in the Preparation Blank.

No qualification is made if the target analyte value is greater than 10 times the Preparation value.

c. MATRIX SPIKE RECOVERY = The spike recovery (%R) of the matrix spike analytes must be between 75 to 125.

(J) Qualifier is assigned to positive detected target analytes if %R < 75 or > 125.

(UJ) Qualifier is assigned to non detected target analytes if %R > 30 and < 75.

(R) Qualifier is assigned to non detected target analytes if %R < 30.

d. LABORATORY CONTROL SAMPLE (LCS) = Percent recovery (%R) must range between 80 to 120.

Aqueous Matrix

(J) Qualifier is assigned to %R results > 50 or < 79 or >120.

(UJ) Qualifier is assigned to non detected target analytes if %R > 50 and < 79.

(R) Qualifier is assigned to %R results < 50.

Solid Matrix

(J) Qualifier is assigned to %R results outside EPA control limits.

(UJ) Qualifier is assigned to %R results lower than the lower control limit.

e. GFAA SPIKING = Graphite Furnace Atomic Absorption post digestion spike recovery (%R) must be between 85 and 115.

Sample absorbance less than 50% of the post digestion spike absorbance

(J) Qualifier is assigned to detected analytes if %R results are not between 85 to 115.

(UJ) Qualifier is assigned to non detected analytes if %R results are not between 85 and 115.

f. SERIAL DILUTION = Analyte concentrations that are a factor of 50 above the instrument detection limit are diluted (5 times) and the percent difference (%D) must be within 10% of the original result.

(J) qualifier is assigned when the criteria are not met.

APPENDIX D-4 (Continued)
INORGANICS DATA VALIDATION SUMMARY
SAMPLE DELIVERY GROUP 32096
NAVAL SIR STATION, JACKSONVILLE, FLORIDA

SAMPLE NUMBERS	ANALYTICAL HOLDING TIME (a.)	PREPARATION BLANKS (b.)	MATRIX SPIKE RECOVERY (c.)	LABORATORY CONTROL SAMPLE (d.)	GFAA SPIKING (e.)	SERIAL DILUTION (f.)
SD001	MET	BARIUM	NO DEFICIENCY	NO DEFICIENCY	THALLIUM	BARIUM
SD011		CALCIUM				
SD013		COPPER				
SD015		MERCURY				
SD017		POTASSIUM				
SD018		SODIUM				
SD019						
SD020						
SD021						
SD022						
SD023						
SD024						
SD025						
SD026						
EB004						
EB005						
TB004						
TB005						

a. HOLDING TIME = METALS 6 months preserved to a pH < 2, MERCURY 28 days preserved to a pH of 2, and .

b. PREPARATION BLANKS = Positive detection of target analytes

(U) Qualifier is assigned to positive detected target analytes greater than the contract required quantitation limit and less than 10 times the value detected in the Preparation Blank.

(R) Qualifier is assigned if contaminant value is less than the CRQL and 10 times the value detected in the Preparation Blank.

No qualification is made if the target analyte value is greater than 10 times the Preparation value.

c. MATRIX SPIKE RECOVERY = The spike recovery (%R) of the matrix spike analytes must be between 75 to 125.

(J) Qualifier is assigned to positive detected target analytes if %R < 75 or > 125.

(UJ) Qualifier is assigned to non detected target analytes if %R > 30 and < 75.

(R) Qualifier is assigned to non detected target analytes if %R < 30.

d. LABORATORY CONTROL SAMPLE (LCS) = Percent recovery (%R) must range between 80 to 120.

Aqueous Matrix

(J) Qualifier is assigned to %R results > 50 or < 79 or >120.

(UJ) Qualifier is assigned to non detected target analytes if %R > 50 and < 79.

(R) Qualifier is assigned to %R results < 50.

Solid Matrix

(J) Qualifier is assigned to %R results outside EPA control limits.

(UJ) Qualifier is assigned to %R results lower than the lower control limit.

e. GFAA SPIKING = Graphite Furnace Atomic Absorption post digestion spike recovery (%R) must be between 85 and 115.

Sample absorbance less than 50% of the post digestion spike absorbance

(J) Qualifier is assigned to detected analytes if %R results are not between 85 to 115.

(UJ) Qualifier is assigned to non detected analytes if %R results are not between 85 and 115.

f. SERIAL DILUTION = Analyte concentrations that are a factor of 50 above the instrument detection limit are diluted (5 times) and the percent difference (%D) must be within 10% of the original result.

(J) qualifier is assigned when the criteria are not met.

APPENDIX D-4 (Continued)
INORGANICS DATA VALIDATION SUMMARY
SAMPLE DELIVERY GROUP 32096
NAVAL SIR STATION, JACKSONVILLE, FLORIDA

SAMPLE NUMBERS	ANALYTICAL HOLDING TIME (a.)	PREPARATION BLANKS (b.)	MATRIX SPIKE RECOVERY (c.)	LABORATORY CONTROL SAMPLE (d.)	GFAA SPIKING (e.)	SERIAL DILUTION (f.)
SD001	MET	BARIUM	NO DEFICIENCY	NO DEFICIENCY	THALLIUM	BARIUM
SD011		CALCIUM				
SD013		COPPER				
SD015		MERCURY				
SD017		POTASSIUM				
SD018		SODIUM				
SD019						
SD020						
SD021						
SD022						
SD023						
SD024						
SD025						
SD026						
EB004						
EB005						
TB004						
TB005						

a. HOLDING TIME = METALS 6 months preserved to a pH < 2, MERCURY 28 days preserved to a pH of 2, and .

b. PREPARATION BLANKS = Positive detection of target analytes

(U) Qualifier is assigned to positive detected target analytes greater than the contract required quantitation limit and less than 10 times the value detected in the Preparation Blank.

(R) Qualifier is assigned if contaminant value is less than the CRQL and 10 times the value detected in the Preparation Blank.

No qualification is made if the target analyte value is greater than 10 times the Preparation value.

c. MATRIX SPIKE RECOVERY = The spike recovery (%R) of the matrix spike analytes must be between 75 to 125.

(J) Qualifier is assigned to positive detected target analytes if %R < 75 or > 125.

(UJ) Qualifier is assigned to non detected target analytes if %R > 30 and < 75.

(R) Qualifier is assigned to non detected target analytes if %R < 30.

d. LABORATORY CONTROL SAMPLE (LCS) = Percent recovery (%R) must range between 80 to 120.

Aqueous Matrix

(J) Qualifier is assigned to %R results > 50 or < 79 or >120.

(UJ) Qualifier is assigned to non detected target analytes if %R > 50 and < 79.

(R) Qualifier is assigned to %R results < 50.

Solid Matrix

(J) Qualifier is assigned to %R results outside EPA control limits.

(UJ) Qualifier is assigned to %R results lower than the lower control limit.

e. GFAA SPIKING = Graphite Furnace Atomic Absorption post digestion spike recovery (%R) must be between 85 and 115.

Sample absorbance less than 50% of the post digestion spike absorbance

(J) Qualifier is assigned to detected analytes if %R results are not between 85 to 115.

(UJ) Qualifier is assigned to non detected analytes if %R results are not between 85 and 115.

f. SERIAL DILUTION = Analyte concentrations that are a factor of 50 above the instrument detection limit are diluted (5 times) and the percent difference (%D) must be within 10% of the original result.

(J) qualifier is assigned when the criteria are not met.

APPENDIX D-4 (Continued)
INORGANICS DATA VALIDATION SUMMARY
SAMPLE DELIVERY GROUP 32114
NAVAL SIR STATION, JACKSONVILLE, FLORIDA

SAMPLE NUMBERS	ANALYTICAL HOLDING TIME (a.)	PREPARATION BLANKS (b.)	MATRIX SPIKE RECOVERY (c.)	LABORATORY CONTROL SAMPLE (d.)	GFAA SPIKING (e.)	SERIAL DILUTION (f.)
SW016	MET	ARSENIC	SILVER	ALUMINUM	NO DEFICIENCY	MANGANESE
SW027		BERYLLIUM				
SW028		CALCIUM				
SW029		SODIUM				
SW030		ZINC				
SW031						
SW032						
SW033						
EB006						
TB006						

a. HOLDING TIME = METALS 6 months preserved to a pH < 2, MERCURY 28 days preserved to a pH of 2, and .

b. PREPARATION BLANKS = Positive detection of target analytes

(U) Qualifier is assigned to positive detected target analytes greater than the contract required quantitation limit and less than 10 times the value detected in the Preparation Blank.

(R) Qualifier is assigned if contaminant value is less than the CRQL and 10 times the value detected in the Preparation Blank.

No qualification is made if the target analyte value is greater than 10 times the Preparation value.

c. MATRIX SPIKE RECOVERY = The spike recovery (%R) of the matrix spike analytes must be between 75 to 125.

(J) Qualifier is assigned to positive detected target analytes if %R < 75 or > 125.

(UJ) Qualifier is assigned to non detected target analytes if %R > 30 and < 75.

(R) Qualifier is assigned to non detected target analytes if %R < 30.

d. LABORATORY CONTROL SAMPLE (LCS) = Percent recovery (%R) must range between 80 to 120.

Aqueous Matrix

(J) Qualifier is assigned to %R results > 50 or < 79 or >120.

(UJ) Qualifier is assigned to non detected target analytes if %R > 50 and < 79.

(R) Qualifier is assigned to %R results < 50.

Solid Matrix

(J) Qualifier is assigned to %R results outside EPA control limits.

(UJ) Qualifier is assigned to %R results lower than the lower control limit.

e. GFAA SPIKING = Graphite Furnace Atomic Absorption post digestion spike recovery (%R) must be between 85 and 115.

Sample absorbance less than 50% of the post digestion spike absorbance

(J) Qualifier is assigned to detected analytes if %R results are not between 85 to 115.

(UJ) Qualifier is assigned to non detected analytes if %R results are not between 85 and 115.

f. SERIAL DILUTION = Analyte concentrations that are a factor of 50 above the instrument detection limit are diluted (5 times) and the percent difference (%D) must be within 10% of the original result.

(J) qualifier is assigned when the criteria are not met.

APPENDIX D-4 (Continued)
INORGANICS DATA VALIDATION SUMMARY
SAMPLE DELIVERY GROUP 32115
NAVAL SIR STATION, JACKSONVILLE, FLORIDA

SAMPLE NUMBERS	ANALYTICAL HOLDING TIME (a.)	PREPARATION BLANKS (b.)	MATRIX SPIKE RECOVERY (c.)	LABORATORY CONTROL SAMPLE (d.)	GFAA SPIKING (e.)	SERIAL DILUTION (f.)
SD016	MET	BERYLLIUM	NO DEFICIENCY	NO DEFICIENCY	THALLIUM	ALUMINUM
SD027		CALCIUM				SODIUM
SD028		MERCURY				
SD029		SODIUM				
SD030		VANADIUM				
SD031						
SD032						
SD033						
EB006						
TB006						

a. HOLDING TIME = METALS 6 months preserved to a pH < 2, MERCURY 28 days preserved to a pH of 2, and .

b. PREPARATION BLANKS = Positive detection of target analytes

(U) Qualifier is assigned to positive detected target analytes greater than the contract required quantitation limit and less than 10 times the value detected in the Preparation Blank.

(R) Qualifier is assigned if contaminant value is less than the CRQL and 10 times the value detected in the Preparation Blank.

No qualification is made if the target analyte value is greater than 10 times the Preparation value.

c. MATRIX SPIKE RECOVERY = The spike recovery (%R) of the matrix spike analytes must be between 75 to 125.

(J) Qualifier is assigned to positive detected target analytes if %R < 75 or > 125.

(UJ) Qualifier is assigned to non detected target analytes if %R > 30 and < 75.

(R) Qualifier is assigned to non detected target analytes if %R < 30.

d. LABORATORY CONTROL SAMPLE (LCS) = Percent recovery (%R) must range between 80 to 120.

Aqueous Matrix

(J) Qualifier is assigned to %R results > 50 or < 79 or >120.

(UJ) Qualifier is assigned to non detected target analytes if %R > 50 and < 79.

(R) Qualifier is assigned to %R results < 50.

Solid Matrix

(J) Qualifier is assigned to %R results outside EPA control limits.

(UJ) Qualifier is assigned to %R results lower than the lower control limit.

e. GFAA SPIKING = Graphite Furnace Atomic Absorption post digestion spike recovery (%R) must be between 85 and 115.

Sample absorbance less than 50% of the post digestion spike absorbance

(J) Qualifier is assigned to detected analytes if %R results are not between 85 to 115.

(UJ) Qualifier is assigned to non detected analytes if %R results are not between 85 and 115.

f. SERIAL DILUTION = Analyte concentrations that are a factor of 50 above the instrument detection limit are diluted (5 times) and the percent difference (%D) must be within 10% of the original result.

(J) qualifier is assigned when the criteria are not met.

APPENDIX D-4 (Continued)
INORGANICS DATA VALIDATION SUMMARY
SAMPLE DELIVERY GROUP 32152
NAVAL SIR STATION, JACKSONVILLE, FLORIDA

SAMPLE NUMBERS	ANALYTICAL HOLDING TIME (a.)	PREPARATION BLANKS (b.)	MATRIX SPIKE RECOVERY (c.)	LABORATORY CONTROL SAMPLE (d.)	GFAA SPIKING (e.)	SERIAL DILUTION (f.)
SD011 SW031 EB001 EB002	MET	BARIUM MERCURY	ALUMINUM SILVER	LEAD	SILVER THALLIUM	NO DEFICIENCY

a. HOLDING TIME = METALS 6 months preserved to a pH < 2, MERCURY 28 days preserved to a pH of 2, and .

b. PREPARATION BLANKS = Positive detection of target analytes

(U) Qualifier is assigned to positive detected target analytes greater than the contract required quantitation limit and less than 10 times the value detected in the Preparation Blank.

(R) Qualifier is assigned if contaminant value is less than the CRQL and 10 times the value detected in the Preparation Blank.

No qualification is made if the target analyte value is greater than 10 times the Preparation value.

c. MATRIX SPIKE RECOVERY = The spike recovery (%R) of the matrix spike analytes must be between 75 to 125.

(J) Qualifier is assigned to positive detected target analytes if %R < 75 or > 125.

(UJ) Qualifier is assigned to non detected target analytes if %R > 30 and < 75.

(R) Qualifier is assigned to non detected target analytes if %R < 30.

d. LABORATORY CONTROL SAMPLE (LCS) = Percent recovery (%R) must range between 80 to 120.

Aqueous Matrix

(J) Qualifier is assigned to %R results > 50 or < 79 or >120.

(UJ) Qualifier is assigned to non detected target analytes if %R > 50 and < 79.

(R) Qualifier is assigned to %R results < 50.

Solid Matrix

(J) Qualifier is assigned to %R results outside EPA control limits.

(UJ) Qualifier is assigned to %R results lower than the lower control limit.

e. GFAA SPIKING = Graphite Furnace Atomic Absorption post digestion spike recovery (%R) must be between 85 and 115.

Sample absorbance less than 50% of the post digestion spike absorbance

(J) Qualifier is assigned to detected analytes if %R results are not between 85 to 115.

(UJ) Qualifier is assigned to non detected analytes if %R results are not between 85 and 115.

f. SERIAL DILUTION = Analyte concentrations that are a factor of 50 above the instrument detection limit are diluted (5 times) and the percent difference (%D) must be within 10% of the original result.

(J) qualifier is assigned when the criteria are not met.