N60201.AR.000722
NS MAYPORT
5090.3a

LETTER REPORT REGARDING SOIL SAMPLING AT SOLID WASTE MANAGEMENT UNIT 45 NS MAYPORT FL

5/3/2004

TETRA TECH NUS

TETRA TECH NUS, INC.
8640 Philips Highway, Suite 16 • Jacksonville, FL 32256
Tel 904.636.6125 • Fax 904.636.6165 • www.tetratech.com

Document Tracking Number 04JAX0121

May 3, 2004

Project Number N0123

Commander, Southern Division
Naval Facilities Engineering Command
ATTN: Adrienne Wilson (Code ES31)
2155 Eagle Drive
North Charleston, South Carolina 29406

Reference: CLEAN Contract Number N62467-94-D-0888
Contract Task Order Number 0091

Subject: Soil Sampling Letter Report
For Solid Waste Management Unit (SWMU) 45
Naval Station (NAVSTA) Mayport, Mayport, Florida

Dear Ms. Wilson:

Tetra Tech NUS, Inc. (TtNUS) is providing this transmittal letter to address a misprint in the original Soil Sampling Letter Report dated April 16, 2004. The last sentence in the Conclusions section stated, "The SCTL exceedances in soil samples A1 (TRPH), B3 (TRPH), and D3 (PAHs and TRPH) will not be covered by the temporary building or its associated parking lot." Soil sample A1 should be replaced by soil sample A4 so that the final sentence in the Conclusions section reads: "The SCTL exceedances in soil samples A4 (TRPH), B3 (TRPH), and D3 (PAHs and TRPH) will not be covered by the temporary building or its associated parking lot."

If you have any questions regarding this correction, or if I can be of assistance in any way, please contact me at (850) 385-9866 or via e-mail at hansent@ttnus.com.

Sincerely,

Charles Mc for

Terry Hansen P.G.
Task Order Manager

c: Mr. J. Cason, FDEP (2 copies)
Ms. C. Mitchell, NAVSTA Mayport
Ms. D. Lancaster, NAVSTA Mayport
Mr. C. Benedikt, USEPA
Mr. M. Halil, CCI
Ms. D. Wroblewski, TtNUS
Mr. M. Perry, TtNUS
Mr. Mike Albert, TtNUS
Project File

TETRA TECH NUS, INC.
8640 Philips Highway, Suite 16 • Jacksonville, FL 32256
Tel 904.636.6125 • Fax 904.636.6165 • www.tetratech.com

Document No. 04JAX0108

April 16, 2004

Project Number N0123

Commander, Southern Division
Naval Facilities Engineering Command
ATTN: Ms. Adrienne Wilson (Code 31)
2155 Eagle Drive
North Charleston, South Carolina 29406

Reference: CLEAN Contract Number N62467-94-D-0888
Contract Task Order (CTO) Number 0091

Subject: Soil Sampling Letter Report
Solid Waste Management Unit (SWMU) 45
Naval Station (NS) Mayport, Mayport, Florida

Dear Ms. Wilson:

Tetra Tech NUS, Inc. (TtNUS) is pleased to submit the Soil Sampling Letter Report for the field activities that were performed at SWMU 45. This soil sampling letter report was prepared for the United States Navy (Navy) Southern Division, Naval Facilities Engineering Command under CTO 0091 for the Comprehensive Long-term Environmental Action Navy (CLEAN) Contract Number N62467-94-D-0888. The objective of this letter report will be to provide SWMU 45 surface and subsurface soil data that was collected in support of the Group IV SWMUs Resource Conservation Recovery Act (RCRA) Facility Investigation (RFI). The appendices for the letter report will be included on compact disc only.

Background Information

The NS Mayport wastewater treatment facility was expanded in 1972 to include a secondary treatment facility using an activated sludge system and two sludge drying beds. Both sludge drying beds were constructed with concrete curbs and sand bottoms and were to have received digested sludge from the wastewater treatment plant's aerobic digesters. Effluent that passed through the drying beds was intended to be collected by an underdrain system, which flowed to the influent pumping station. However, personnel from the NS Mayport wastewater treatment plant indicated that the underdrain system did not exist [ABB Environmental Services, Inc. (ABB-ES), 1996]. The sludge drying beds were identified as SWMU 45 during the RCRA Facility Assessment (RFA).

SWMU 45, shown on Figure 1, occupies an approximate 200 feet by 110 feet area adjacent to the wastewater treatment plant. Attachment A contains information on SWMU 45 from the RFI Report Group III SWMUs (ABB-ES, 1996) and provides previous investigation results. The SWMU 45 area contained two sludge drying beds prior to the beds being demolished and the associated debris removed in May 2003. The report for the sludge drying beds removal is included as Attachment B. Soil sampling was proposed in the area of the former sludge drying beds to confirm if contaminants were present following excavation of the drying beds. During the March 2004 Mayport Partnering Team meeting, it was stated that a temporary building is scheduled to be constructed on SWMU 45 during the summer of 2004.

TtNUS Field Activities

Surface [0 to 2 feet below land surface (bls)] and subsurface (4 to 5 feet bls) soil samples were collected on January 5, 2004 from the 20 locations that are shown on the SWMU 45 Site Map, Figure 1. A grid sampling pattern, also shown on Figure 1, was used to provide a representative summary of the surface and subsurface soil contaminant levels at SWMU 45. Soil samples were collected using a stainless steel hand auger. Decontamination of the hand auger was performed according to the Florida Department of Environmental Protection (FDEP) Standard Operating Procedures (SOPs) between each sampling point. Field conditions prevented the collection of 5 surface samples (D1, D2, E1, E2, and E3) and 19 subsurface samples. Limestone gravel and concrete debris in the soil prevented TtNUS personnel from hand-augering to the depths stated in soil sampling work plan. Therefore, a total of 15 surface soil samples and 1 subsurface soil sample were collected and sent to Katahdin Analytical Laboratory on January 8, 2004. Soil Sample Log Sheets are included as Attachment C, Field Forms. The samples were analyzed for target compound list (TCL) semi-volatiles, pesticides, polynuclear aromatic hydrocarbons (PAHs), polychlorinated biphenyl (PCB) organic compounds, target analyte list (TAL) metals and cyanide, and total residual petroleum hydrocarbons (TRPH). Additionally, synthetic precipitation leaching procedure (SPLP) extracts were analyzed from samples in excess of leachability standards [Florida Administrative Code (FAC). 62-777]. The laboratory data reports are provided as Attachment D.

Soil Analytical Results

The analytical results for the 15 surface and 1 subsurface soil sample are provided in Table 1. Only exceedances of FDEP (SCTLs) are shown in Table 1. Five contaminants were detected in excess of FDEP Soil Cleanup Target Levels (SCTLs) in the surface soil samples collected from locations A1, A2, A4, B1, B3 and D3. The pesticide dieldrin was detected in the surface soil samples from locations A1 and A2 at concentrations exceeding SCTLs for leachability criteria. The PAH benzo(a)pyrene was detected in excess of its SCTL, based on commercial/industrial exposure, in surface soil samples B1 and D3. The PAHs dibenzo(a,h)anthracene and benzo(a)anthracene were detected above SCTLs in sample D3 based on commercial/industrial exposure and leachability criteria, respectively. TRPH exceedances of SCTL leachability criteria were reported for samples collected from A4, B3, and D3.

Conclusions

A pesticide, three PAHs, and TRPH exceedances of FDEP SCTLs were detected in the surface soil samples collected from SWMU 45. These SCTL exceedances were based on either leachability into groundwater or commercial/industrial exposure criteria. No samples exceeding SCTL leachability criteria that were tested for SPLP exceeded groundwater cleanup target levels (GCTLs). The subsurface soil delineation was obstructed due to physical limitations of the sampling method.

As stated in the March 2004 Mayport Partnering Team meeting, a temporary building is scheduled to be constructed on SWMU 45. The footprint of the proposed building and associated parking lot were shown on Figure 1. Three of the five SCTL exceedances (locations A1, A2, and B1) will be covered by the parking lot to the temporary building. The SCTL exceedances in soil samples A1 (TRPH), B3 (TRPH), and D3 (PAHs and TRPH) will not be covered by the temporary building or its associated parking lot.

If you have any questions with regard to this submittal, please contact me by calling (850) 385-9899 or via e-mail at hansent@ttnus.com.

Sincerely,

Chuck Metz for

Terry Hansen
Task Order Manager

Enclosures

c: Mr. C. Benedikt, USEPA
Mr. J. Cason, FDEP (2 copies)
Ms. D. Lancaster, NS Mayport
Mr. M. Halil, CH2M Hill
Mr. M. Perry, TtNUS (unbound)
Ms. D. Wroblewski, TtNUS (cover letter only)
File Copy

TABLE 1

SUMMARY OF ANALYTES DETECTED - SWMU 45
NAVAL STATION MAYPORT, JACKSONVILLE, FLORIDA

Sample No.			MPT-45-A1-2'	MPT-45-A2-2'	MPT-45-A3-2'	MPT-45-A4-2'
Collect Date			01/05/04	01/05/04	01/05/04	01/05/04
Sample Depth			0-2'	0-2'	0-2'	0-2'
	Direct Exposure Industrial[1] (ug/kg)	Leachability Based on Groundwater[2] (ug/kg)				
Semi-Volatile Organics[3] (ug/kg)			--	--	--	--
Polycyclic Aromatic Hydrocarbons[4] (ug/kg)						
Benzo(a)anthracene	5000	3200	17 J	79 J	17 J	22 J
Benzo(a)pyrene	500	8000	16 J	67 J	26 J	23 J
Dibenzo(a,h)anthracene	500	30000	--	13 J	--	--
SPLP Polycyclic Aromatic Hydrocarbons[5] (ug/kg)			NA	--	NA	NA
Pesticides/PCBs[6] (ug/kg)						
Dieldrin	300	**4**	**4.0**	**5.0**	1.7 J	--
SPLP Pesticides/PCBs[7] (ug/L)			**--**	**--**	NA	NA
TRPH[8] (mg/kg)	2500000	**340000**	110000	190000	230000	**460000 J**
SPLP TRPH[9] (mg/L)			NA	NA	NA	**--**
Metals[10] (mg/kg)			--	--	--	--
SPLP Metals[11] (mg/L)			**--**	**--**	**--**	NA
Miscellaneous[12] (mg/kg)						
Total Cyanide	39000000	40000	--	--	--	--

See Notes at end of table

TABLE 1

SUMMARY OF ANALYTES DETECTED - SWMU 45
NAVAL STATION MAYPORT, JACKSONVILLE, FLORIDA

Sample No.			MPT-45-B1-2'	MPT-45-B2-2'	MPT-45-B3-2'	MPT-45-B4-2'
Collect Date			01/05/04	01/05/04	01/05/04	01/05/04
Sample Depth			0-2'	0-2'	0-2'	0-2'
	Direct Exposure Industrial[1] (ug/kg)	Leachability Based on Groundwater[2] (ug/kg)				
Semi-Volatile Organics[3] (ug/kg)			--	--	--	--
Polycyclic Aromatic Hydrocarbons[4] (ug/kg)						
Benzo(a)anthracene	1400	5000	620	78	11 J	17 J
Benzo(a)pyrene	**500**	8000	**680**	82	12 J	20 J
Dibenzo(a,h)anthracene	500	30000	140 J	29	--	--
SPLP Polycyclic Aromatic Hydrocarbons[5] (ug/kg)			--	--	NA	NA
Pesticides/PCBs[6] (ug/kg)						
Dieldrin	300	4	--	--	1.4 J	2
SPLP Pesticides/PCBs[7] (ug/L)			NA	NA	NA	NA
TRPH[8] (mg/kg)	2500000	**340000**	300000 J	190000	**500000 J**	210000
SPLP TRPH[9] (mg/L)			--	NA	**--**	NA
Metals[10] (mg/kg)			--	--	--	--
SPLP Metals[11] (mg/L)			**--**	**--**	**--**	**--**
Miscellaneous[12] (mg/kg)						
Total Cyanide	39000000	40000	--	--	--	--

See Notes at end of table

TABLE 1

SUMMARY OF ANALYTES DETECTED - SWMU 45
NAVAL STATION MAYPORT, JACKSONVILLE, FLORIDA

Sample No.			MPT-45-C1-2'	MPT-45-C2-2'	MPT-45-C3-2'	MPT-45-C4-2'
Collect Date			01/05/04	01/05/04	01/05/04	01/05/04
Sample Depth			0-2'	0-2'	0-2'	0-2'
	Direct Exposure Industrial[1] (ug/kg)	Leachability Based on Groundwater[2] (ug/kg)				
Semi-Volatile Organics[3] (ug/kg)			--	--	--	--
Polycyclic Aromatic Hydrocarbons[4] (ug/kg)						
Benzo(a)anthracene	5000	3200	100 J	73	130	62
Benzo(a)pyrene	500	8000	86	70	92	43
Dibenzo(a,h)anthracene	500	30000	28	26	28	11 J
SPLP Polycyclic Aromatic Hydrocarbons[5] (ug/kg)			--	--	--	--
Pesticides/PCBs[6] (ug/kg)						
Dieldrin	300	4	--	--	--	--
SPLP Pesticides/PCBs[7] (ug/L)			NA	NA	NA	NA
TRPH[8] (mg/kg)	2500000	340000	65000	110000	170000	53000
SPLP TRPH[9] (mg/L)			NA	NA	NA	NA
Metals[10] (mg/kg)			--	--	--	--
SPLP Metals[11] (mg/L)			--	--	--	--
Miscellaneous[12] (mg/kg)						
Total Cyanide	39000000	40000	--	--	--	--

See Notes at end of table

TABLE 1

SUMMARY OF ANALYTES DETECTED - SWMU 45
NAVAL STATION MAYPORT, JACKSONVILLE, FLORIDA

Sample No.			MPT-45-D3-2'	MPT-45-D4-2'	MPT-45-E4-2'	MPT-45-E4-5'
Collect Date			01/05/04	01/05/04	01/05/04	01/05/04
Sample Depth			0-2'	0-2'	0-2'	0-2'
	Direct Exposure Industrial[1] (ug/kg)	Leachability Based on Groundwater[2] (ug/kg)				
Semi-Volatile Organics[3] (ug/kg)			--	--	--	--
Polycyclic Aromatic Hydrocarbons[4] (ug/kg)						
Benzo(a)anthracene	5000	**3200**	**3200**	43 J	6.8 J	7.1 J
Benzo(a)pyrene	**500**	8000	**4900**	44 J	--	7.7 J
Dibenzo(a,h)anthracene	**500**	30000	**1700 J**	9.7 J	--	--
SPLP Polycyclic Aromatic Hydrocarbons[5] (ug/kg)			**--**	NA	NA	NA
Pesticides/PCBs[6] (ug/kg)						
Dieldrin	300	4	--	--	--	--
SPLP Pesticides/PCBs[7] (ug/L)			NA	NA	NA	NA
TRPH[8] (mg/kg)	2500000	**340000**	**620000 J**	--	--	--
SPLP TRPH[9] (mg/L)			**--**	NA	NA	NA
Metals[10] (mg/kg)			--	--	--	--
SPLP Metals[11] (mg/L)			--	NA	--	--
Miscellaneous[12] (mg/kg)						
Total Cyanide	39000000	40000	--	--	--	--

See Notes at end of table

TABLE 1

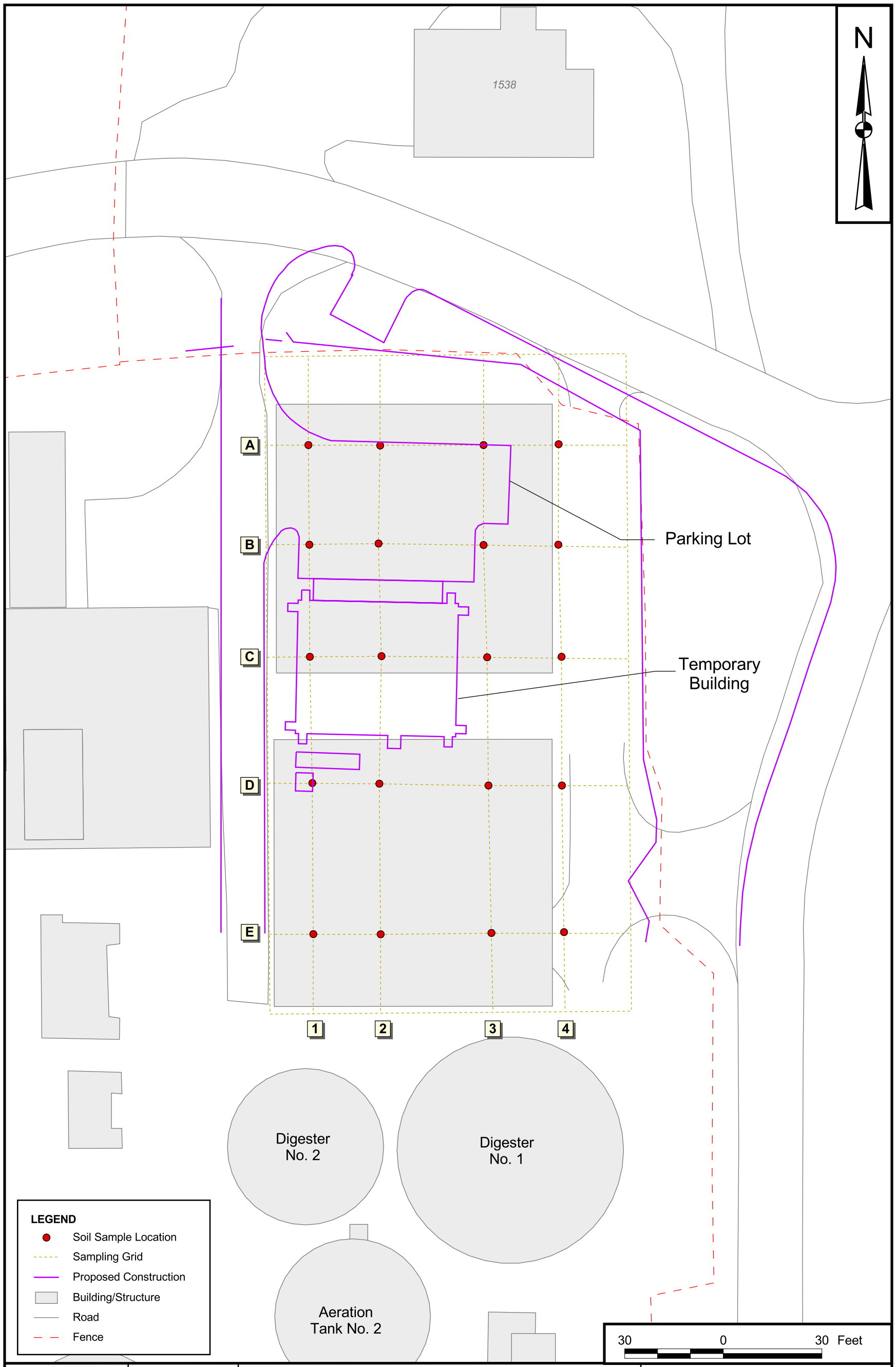
SUMMARY OF ANALYTES DETECTED - SWMU 45
NAVAL STATION MAYPORT, JACKSONVILLE, FLORIDA

1 Direct Exposure Commercial/Industrial Limits from Chapter 62-777, F.A.C.
2 Leachability Based on Groundwater Limits from Chapter 62-777, F.A.C.
3 SW-846 8270C
4 SW-846 8270C SIM
5 SW-846 1312 / 8270 SIM
6 SW-846 8081 / 8082
7 SW-846 1312 / 8081 (Dieldrin Only)
8 FDEP FL-PRO
9 SW-846 1312 / FL-PRO
10 SW-846 6010B / 7471A (Mercury)
11 SW-846 1312 / 6010B
12 SW-846 9012A

Notes:

Bold indicates an exceedance of regulatory criteria. **Bold** indicated which regulatory limits have been exceeded.
mg/kg = milligrams per kilogram
µg/kg = micrograms per kilogram
µg/L = micrograms per Liter
-- = analyte(s) not detected above method detection limit or regulatory criteria
SPLP = Synthetic Precipitation Leaching Procedure
NA = not analyzed
PCBs = Polychlorinated Biphenyls
TRPH = Total Recoverable Petroleum Hydrocarbons
** = Leachability limits may be derived using the SPLP Test to calculate site-specific SCTLs or may be determined using TCLP in the event oily wastes are present
F.A.C. = Federal Administrative Code
SIM = Selected Ion Monitoring
FL-PRO = Florida Petroleum Range Organics

P:\GIS\MAYPORT_NS\MAPDOCS\APR\SWMU45.APR PROPOSED BUILDING AND PARKING LOT 4/9/04 JAL



DRAWN BY: J. LAMEY	DATE: 4/9/04	SOIL BORING LOCATIONS AND PROPOSED BUILDING AND PARKING LOT SWMU 45 NAVAL STATION MAYPORT MAYPORT, FLORIDA	CONTRACT NUMBER: 0123
CHECKED BY:	DATE:		APPROVED BY: — DATE: —
COST/SCHEDULE-AREA			APPROVED BY: — DATE: —
SCALE: AS NOTED			DRAWING NO.: Figure 1 REV: 0

DEPARTMENT OF THE NAVY SOUTHERN DIV FACILITIES ENGINEERING COM

ATTACHMENT A

SWMU 45 INFORMATION FROM RFI REPORT

EXECUTIVE SUMMARY

ABB Environmental Services, Inc., has been contracted by the Department of the Navy, Southern Division, Naval Facilities Engineering Command to conduct a Resource Conservation and Recovery Act Facility Investigation (RFI) for Naval Station (NAVSTA), Mayport. The RFI is being conducted in accordance with the Hazardous and Solid Waste Amendment permit no. FL9 170 024 260, issued by the U.S. Environmental Protection Agency (USEPA) on June 15, 1993. This RFI report presents the findings, conclusions, and recommendations for each solid waste management unit (SWMU) or groups of SWMUs investigated.

This report summarizes the RFI for the Group III SWMUs; 1, 14, 17, 18, 23, 24, 25, 44 and 45. SWMUs 1, 23, 24, 25, 44 and 45 were evaluated as one area because they are contiguous sites associated with the industrial Shipyard Area (SWMUs 1, 23, 24, and 25) and the stations wastewater treatment plant (SWMUs 44 and 45). SWMU 1 was reported to be the original landfill at the station. SWMUs 23, 24 and 25 are areas where land-based repair activities are conducted for ships berthed at Mayport Turning Basin. SWMU 44 are clarifiers used to contain water used in firefighting training activities, and SWMU 45 are sludge drying beds for the Stations Federally-owned wastewater treatment plant. These sites share a similar topographic and hydrogeologic setting, and similar contaminants.

SWMU 17 was a furnace used to reduce the volume of domestic solid waste using diesel fuel or waste oil as auxiliary fuels and, because it was not located near the other Group III SWMUs, was evaluated singularly.

SWMUs 14 and 18 were evaluated together because they share a similar topographic and hydrogeologic setting, and similar contaminants. SWMU 14 was reported to have drums of mercuric nitrate formerly stored at the site and is the site of firefighting training activities. SWMU 18 is a concrete containment pad for collection of stormwater at a diesel powered electrical generator.

The purpose of the RFI is to provide the information necessary to conduct a human health and ecological risk assessment and to design corrective measures, if required, for each of the SWMUs that required an RFI. The following conclusions for each of the SWMUs investigated are based on the results of the site characterization and human health and ecological risk assessments.

SWMUs 1, 23, 24, 25, 44 and 45. The following presents a summary of the site characterization, risk assessments, and recommendations for SWMUs 1, 23, 24, 25, 44 and 45:

Site Characterization. Shallow soil in the vicinity of the Shipyard Area consists of fine grained, well-sorted sand which typically contain shell fragments. At some of the soil boring locations, thin (less than 1 foot) seams of clay or clayey-to-silty fine sand were encountered.

Geophysical surveys and soil borings were conducted to confirm the location of SWMU 1. Geophysical anomalies were detected that could not be readily explained by cultural interferences. The anomalies were investigated with ground-penetrating radar and interpreted to be related to buried utilities, not landfilled materials. Landfill materials were not discovered during the drilling of soil borings at the reported location of SWMU 1.

The direction of groundwater flow is generally to the north, toward the Mayport Turning Basin entrance channel (Plate 1). Groundwater in the water table zone at and north of the northern boundaries of the Shipyard Area may be affected by tidal fluctuations. It is likely that the effect in the water table zone of the surficial aquifer is limited to areas located less than 330 feet from the shoreline of the St. Johns River.

Results of water quality indicator parameters suggest that groundwater in the vicinity of the Shipyard Area do not meet the criteria of a Class G-I or G-II drinking water supply. An appropriate designation for the surficial aquifer beneath the Shipyard Area would be Class G-III.

Human Health Risk Assessment. Risk characterization was conducted for potential exposures to surface and subsurface soil, and groundwater under current and future land-use scenarios. The sludge drying beds at SWMU 45 were evaluated under current-use scenarios, as it is assumed that the material is to be excavated and disposed of sometime in the future.

None of the excess lifetime cancer risk (ELCR) exceed the U.S. Environmental Protection Agency's (USEPA) target risk range ($1x10^{-4}$ to $1x10^{-6}$), however, the Florida Department of Environmental Protection Agency's (FDEP) target risk level ($1x10^{-6}$) was exceeded for current and future land-use exposure scenarios for surface soil. Noncancer risks associated with surface soil exposure pathways for current and future land use are below the USEPA's and FDEP's target hazard index (HI) of 1. The chemicals (semivolatile organic compounds [SVOCs], pesticides, and metals) that result in the ELCR are likely the result of industrial activities.

Human Health Chemicals of Potential Concern (HHCPC) were determined to not exist for subsurface soil during the screening evaluation, therefore, a risk characterization was not conducted for this medium.

None of the ELCR exceed the USEPA's target risk range or the FDEP target risk level for the sludge drying beds at SWMU 45.

Currently, the surficial aquifer is not used as a water supply, however, under a hypothetical future-use scenario the ELCR exceeds USEPA's target risk range and FDEP's target risk level. In addition, the HI for the hypothetical future use (ingestion) of groundwater exceeds the USEPA and FDEP target level of 1.

Ecological Risk Assessment. Exposure pathways evaluated for aquatic receptors include direct contact with the groundwater as it discharges to surface water. Exposures associated with potential contamination in surface soil to terrestrial receptors were not evaluated. Terrestrial ecological receptors are not expected to occur in the vicinity of the Shipyard Area because the majority of the site is paved with asphalt or concrete and is located in an industrialized area.

Maximum and average exposure concentrations for two ecological chemicals of potential concern (ECPC), cyanide and iron, in groundwater slightly exceed the Florida surface water quality standards Standard and Federal ambient water quality criteria (AWQC).

Maximum and average exposure concentrations for iron detected in groundwater samples from monitoring wells at SWMUs 1, 23, 24, 25, 44, and 45 and background

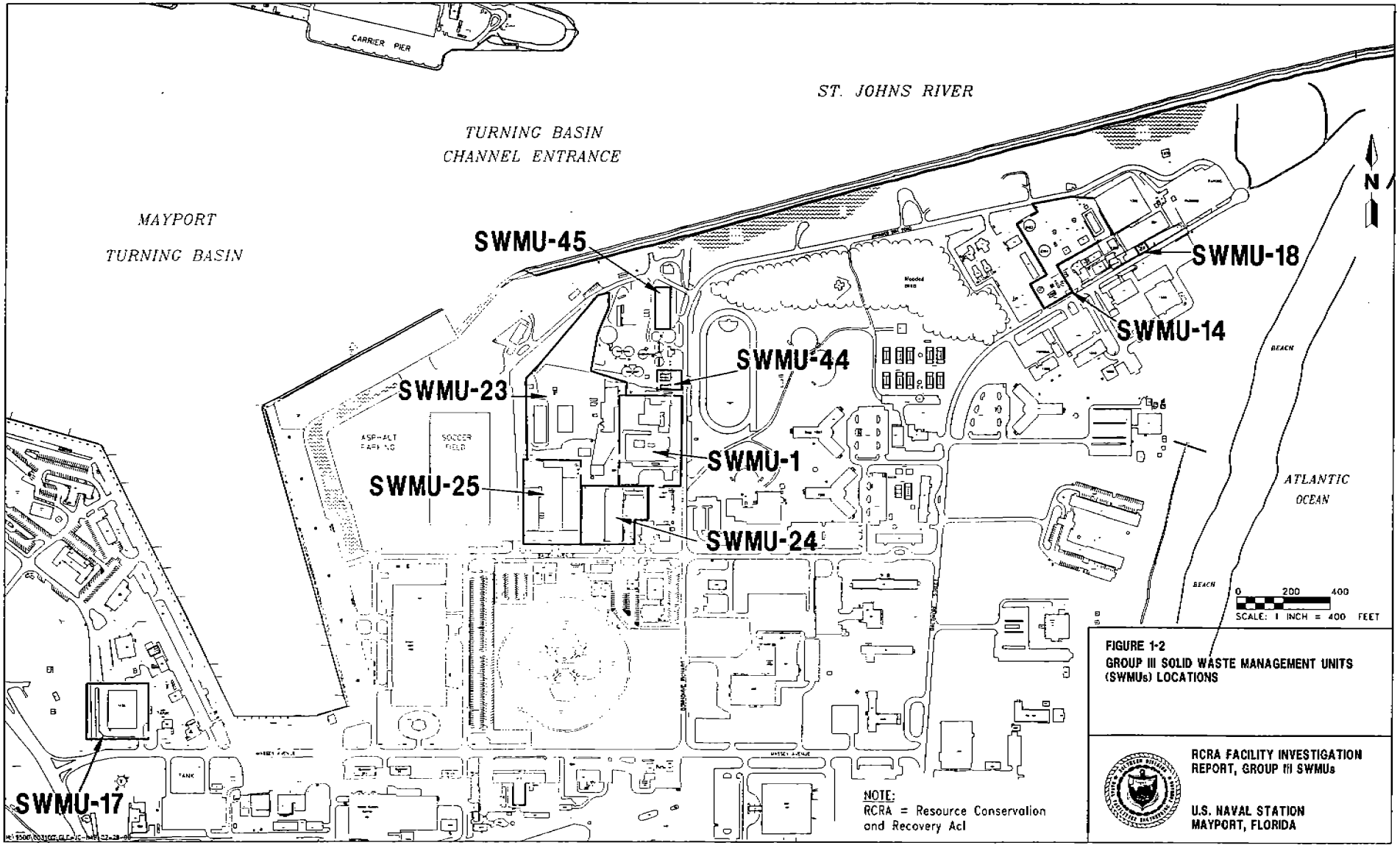
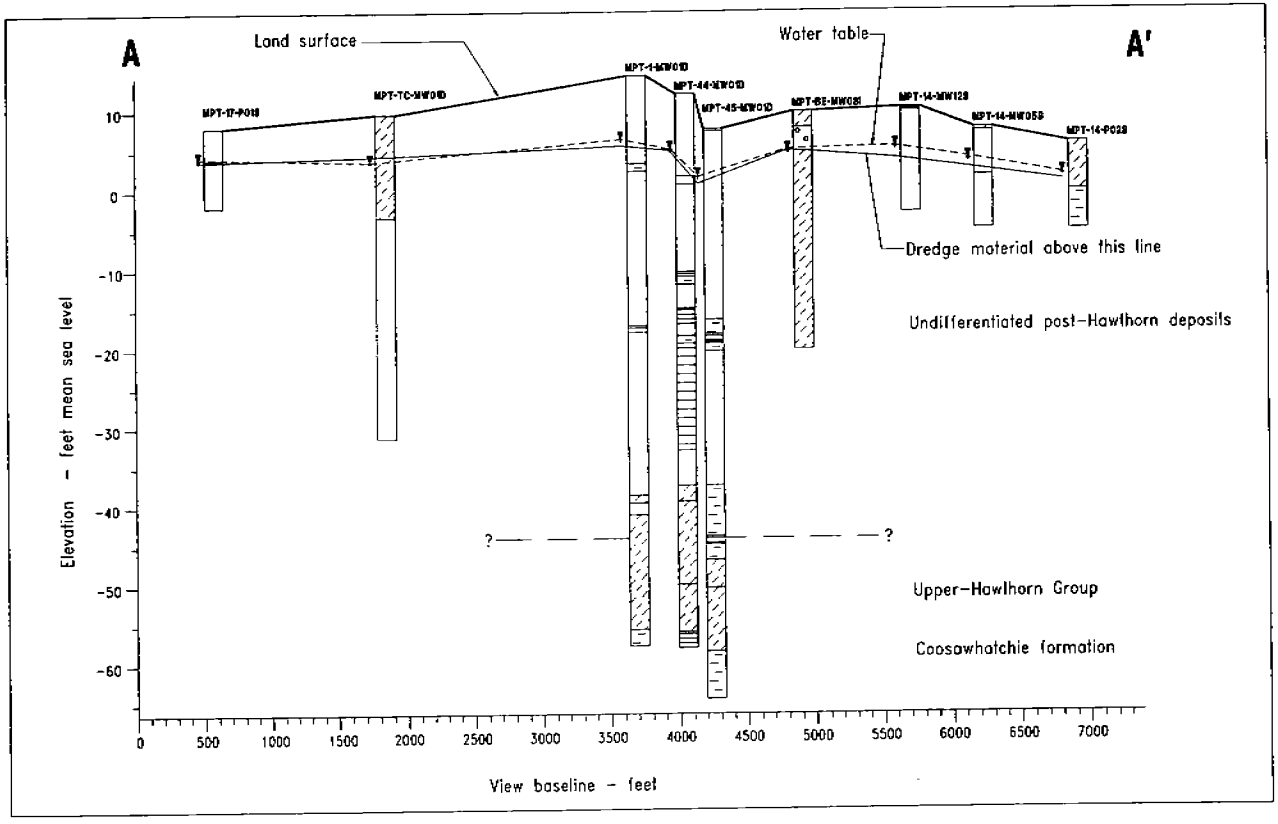

CARRIER PIER
ST. JOHNS RIVER
TURNING BASIN
CHANNEL ENTRANCE
MAYPORT
TURNING BASIN
SWMU-45
SWMU-18
SWMU-14
SWMU-44
SWMU-23
SWMU-1
SWMU-25
SWMU-24
SWMU-17
ATLANTIC
OCEAN
BEACH
BEACH
N
0 200 400
SCALE: 1 INCH = 400 FEET
NOTE:
RCRA = Resource Conservation and Recovery Act
FIGURE 1-2
GROUP III SOLID WASTE MANAGEMENT UNITS (SWMUs) LOCATIONS
RCRA FACILITY INVESTIGATION REPORT, GROUP III SWMUs
U.S. NAVAL STATION
MAYPORT, FLORIDA

Table 2-1
Analyses Performed by Media

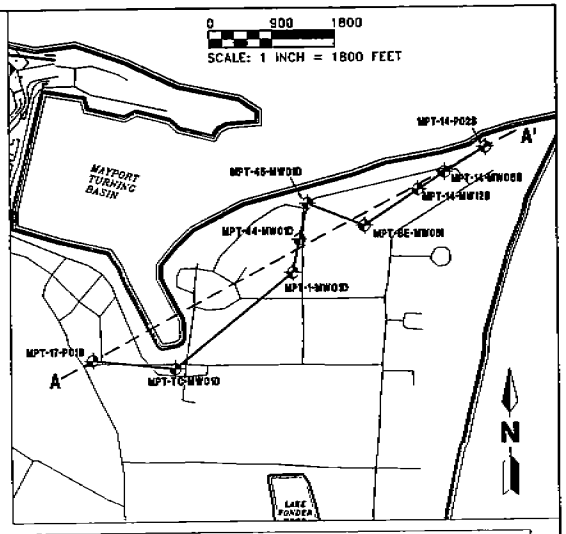
RCRA Facility Investigation, Group III SWMUs
U.S. Naval Station
Mayport, Florida

SWMU #	Medium Sampled	Number of samples/ Duplicates	VOC 8010, 8020, 8015(Mod)	VOC 8240	SVOC 8270	Pest/PCB 8080	Metals 6010,7000	WQ	TPH 418.1
SWMUs 1, 23, 24, 25, 44, and 45 (Shipyard area)	Groundwater (TerraProbe™)	5/1	5/1						
	Surface Soil	72/10		72/10	72/10	72/10	72/10		
	Subsurface Soil	21/1		21/1	21/1	21/1	21/1		
	Sludge	16/2		16/2	16/2	16/2	16/2		
	Groundwater	24/4		24/4	24/4	24/4	24/4	24/0	3/0
SWMUs 14 and 18 (FTC Area)	Groundwater (TerraProbe™)	7/1	7/1						
	Surface Soil	27/5		27/5	27/5	27/5	27/5		
	Subsurface Soil	15/1		15/1	15/1	15/1	15/1		
	Surface Water	2/1		2/1	2/1	2/1	2/1	2/0	
	Sediment	11/2		11/2	11/2	11/2	11/2		
	Groundwater	17/2		17/2	17/2	17/2	17/2	17/0	16/0
SWMU 17	Surface Soil	15/2		15/2	15/2	15/2	15/2		
	Subsurface Soil	3/1		3/1	3/1	3/1	3/1		
	Groundwater	3/1		3/1	3/1	3/1	3/1	3/0	1/0

Notes: RCRA = Resource Conservation and Recovery Act.
SWMU = solid waste management unit.
# = number.
VOC = volatile organic compound.
Mod = modified.
SVOC = semivolatile organic compound.
Pest/PCB = pesticides and polychlorinated biphenyls.
WQ = groundwater and surface water quality parameters (pH, alkalinity, ammonia-nitrogen, chloride, color, hardness, phosphorus(total), sulfate, sulfide, total dissolved solids, total kjeldahl nitrogen, total organic carbon, and TPH).
TPH = total petroleum hydrocarbons.
SM = service mark.
FTC = Fleet Training Center.



NOTE:
View from southwest to northeast of selected borings showing dredge material, undifferentiated post-Hawthorn deposits, and upper-Hawthorn Group deposits.



LEGEND

- Silty-sands, sand-silt mixtures
- Poorly-graded sands, gravelly-sands, little or no fines
- Inorganic clays of low to medium plasticity, gravelly-clays, sandy clays, silty clays, lean clays
- Clayey-sands, sand-clay mixtures
- Fill
- Water table
- MPT-17-P01S — Monitoring well location and designation

NOTE:
SWMU = Solid waste management unit

FIGURE 3-1
CROSS SECTION A-A'
GROUP III SWMUs

RCRA FACILITY INVESTIGATION REPORT, GROUP III SWMUs

U.S. NAVAL STATION MAYPORT, FLORIDA

N:\MPT\RCRABASE\MP-MXW\11-07-96

a highly variable set of lithologic units that are horizontally and vertically anisotropic throughout the study area. Because the undifferentiated post-Hawthorn deposits include eroded and redeposited sediments from the Upper Hawthorn Group, it was not possible to determine exactly where the Upper Hawthorn Group was encountered. Various factors, such as lithologic description and lithologic resistance to split-spoon sampling, were used to estimate that the Upper Hawthorn Group was encountered at a depth of approximately 70 to 72 feet bls in the Group III Area.

The paragraph below presents a description of the shallow soil encountered at Group III SWMUs 1, 14, 17, 18, 23, 24, 25, 44, and 45. These summaries are based on lithologic descriptions from the boring logs which are included in Appendix A of the NAVSTA Mayport GIR (ABB-ES, 1995a). Except as noted, these summaries describe the interval from land surface to approximately 15 feet (ft) bls.

Shipyard Area SWMUs 1, 23, 24, 25, 44, and 45. Shallow soil in the vicinity of the Shipyard Area consists of fine-grained, well-sorted sands which typically contain shell fragments. At some of the soil boring locations, thin (less than 1 foot) seams of clay or clayey to silty-fine sand were encountered. These seams appear to be restricted in areal extent.

Seven shallow borings to the water table were conducted at SWMU 1 to assess whether or not landfill materials were present. Landfilled materials were not encountered.

Four deep borings drilled to install monitoring wells MPT-1-MW01D, MPT-23-MW05D, MPT-44-MW01D, and MPT-45-MW01D were terminated at depths ranging from 70 to 72 ft bls, respectively. Tables 3-1, 3-2, 3-3 and 3-4 describe the lithology (including the associated USCS symbol) of subsurface materials encountered at each of the four monitoring wells.

SWMU 17 (Carbonaceous Fuel Boiler). Shallow soil in the vicinity of the Carbonaceous Fuel Boiler plant consists of relatively uniform, light-tan to tan, brown to dark-brown, or gray, very fine to fine-grained sand and silty sand with shell fragments that may make up to approximately 20 percent of the soil sample. These sands are interpreted to primarily be dredge material. A minor amount of these materials may be engineered fill that was constructed over the last 55 years.

SWMUs 14 (Mercury/Oil Waste Spill Area and SWMU 18 the Fleet Training Center Diesel Generator Sump). Shallow soil in the vicinity of the Mercury/Oily Waste Spill and Fleet Training Center Diesel Generator Sump, collectively referred to as the Fleet Training Center Area, typically consists of various shades from light-tan to brown, dark-gray, or black fine-grained sand or silty sand. Minor amounts of shell material are present in some of the borings. This description is similar to the soil found in Group I and II and is consistent with natural sand dunes and the placement of dredge material observed in aerial photographs dating from the early 1940s and historical descriptions of the area.

Minor differences were observed in soil samples collected from borings drilled for the installation of monitoring wells MPT-14-MW01S, MPT-14-MW02S, MPT-14-P01S, and MPT-14-P02S. These wells are located along the southern bank of the St. Johns River north of SWMUs 14 and 18. Soil samples from these locations exhibit features that differ from soil samples collected from locations to the south or

Table 3-4
Lithology at Monitoring Well Location MPT-45-MW01D

RCRA Facility Investigation, Group III SWMUs
U.S. Naval Station
Mayport, Florida

Depth, Feet Beneath Land Surface		Lithologic Description	USCS Symbol
From	To		
Land Surface	24	Gray, fine-grained sand with shell fragments.	SP
24	26	Dark gray, stiff clay with trace sand, grading to minor sand with depth.	CL
26	28	Dark gray, sandy clay with 3-inch organic seam.	CL
28	45	Dark gray to gray, very fine to fine-grained sand with shell fragments.	SP
45	51.5	Gray, fine to very fine-grained sand with clay and shell fragments.	SC
51.5	52.5	Greenish-gray clay with trace sand.	CL
52.5	54.5	Fine to very fine-grained sand with clay and shell fragments.	SC
54.5	58	Light tan to white silty sand with lime rock and trace clay.	SM
58	66	Light tan to white silty sand with trace clay.	SM
66	72	Dark green, medium to fine-grained sandy clay with trace lime rock.	CL

Notes: D = duplicate.
RCRA = Resource Conservation and Recovery Act.
SWMUs = solid waste management units.
USCS = Unified Soil Classification System

MPT_GP3.RFI
ASW.12.96

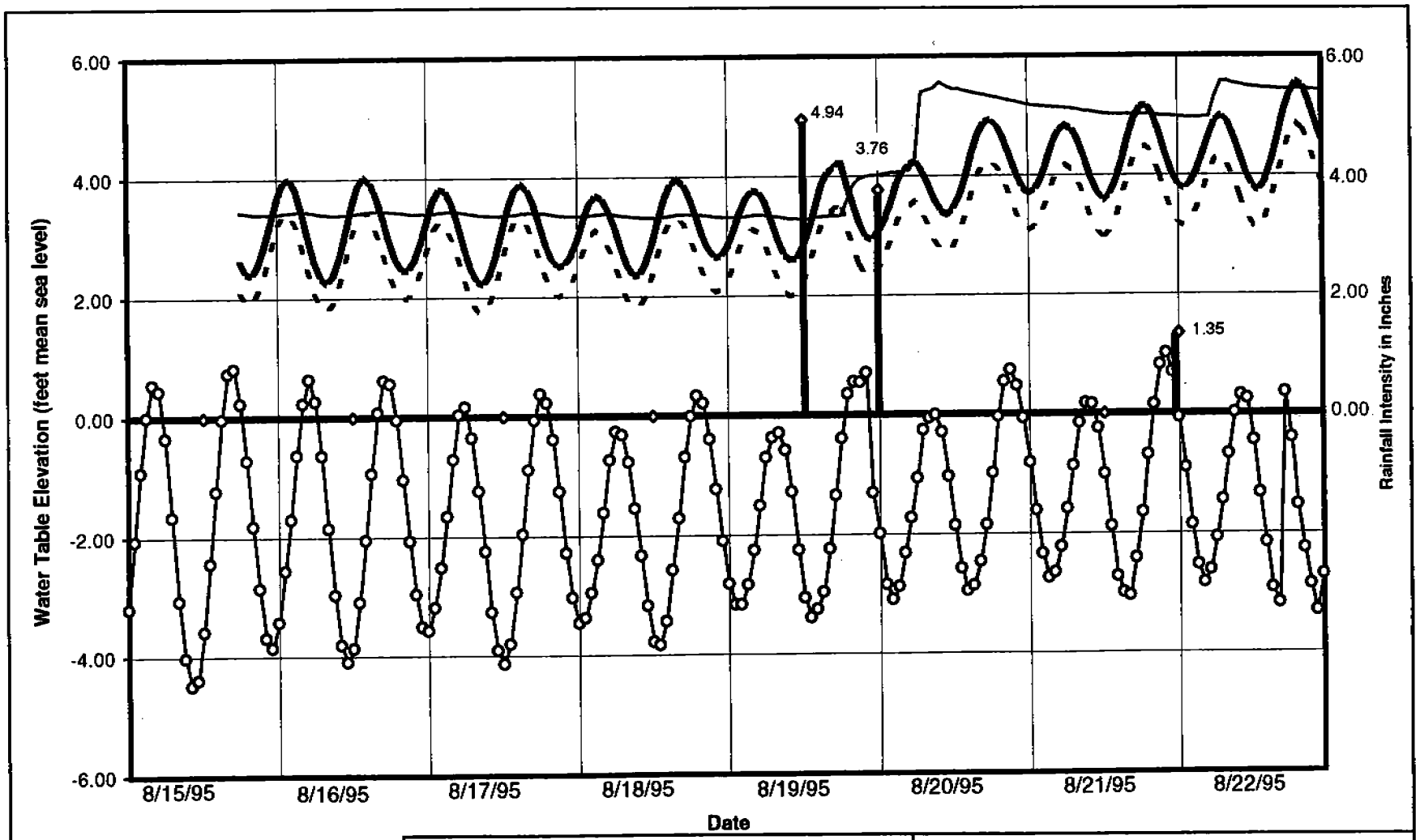
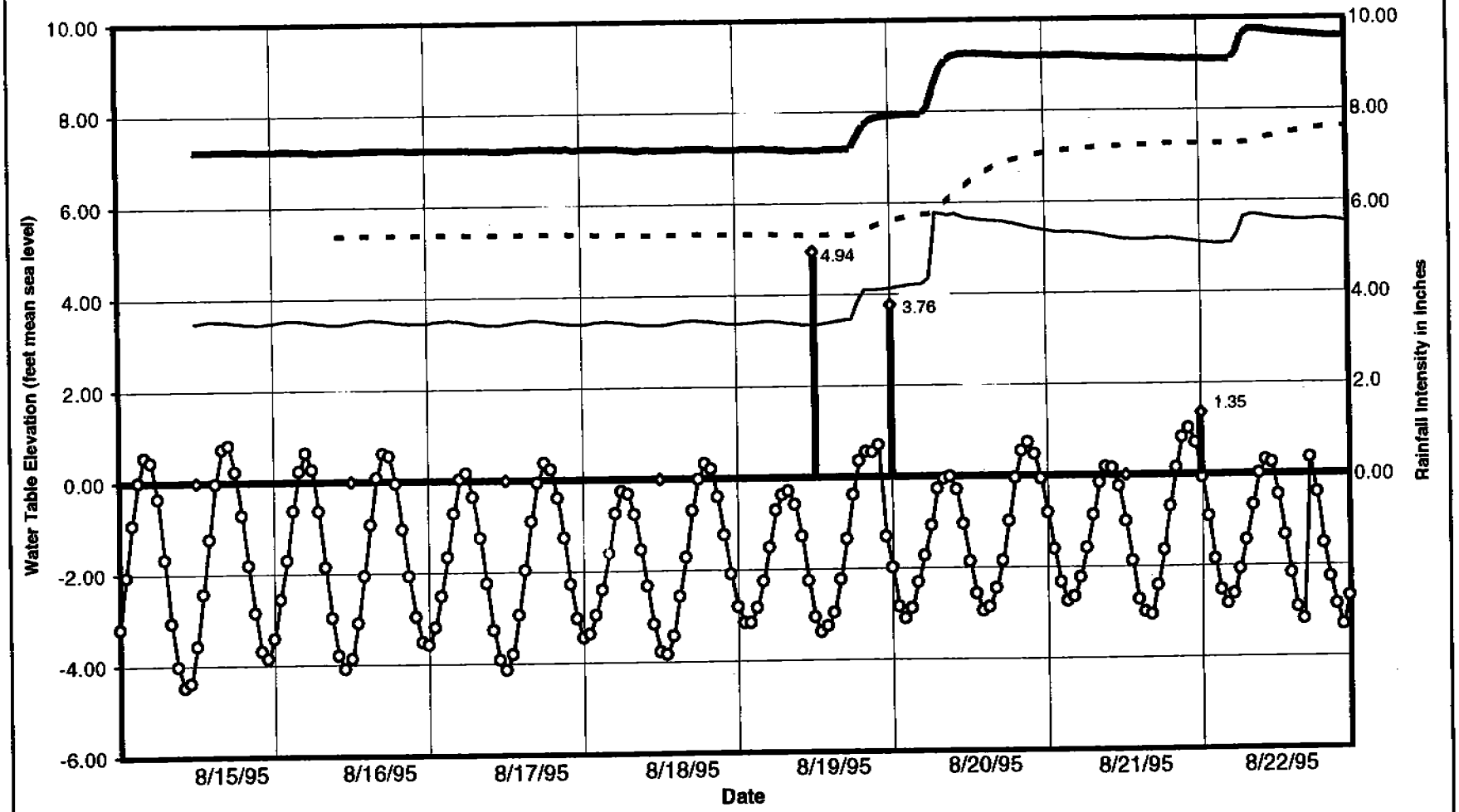


FIGURE 3-2
HYDROGRAPH OF MONITORING WELLS
MPT-1-P01S, MPT-45-MW01I, AND MPT-45-MW01D
AUGUST 15, 1995 TO AUGUST 22, 1995

RCRA FACILITY INVESTIGATION
REPORT, GROUP III SWMUs

U.S. NAVAL STATION
MAYPORT, FLORIDA

H:\MWELSH\MAYPORT\8534-09\MAYAUG3.XLS 11-696 MAW
FRAME: MAC: 8534-09-TKB\FIG 3-2 FRAME



NOTES:
Rainfall in inches
RCRA = Resource Conservation and Recovery Act
SWMU = Solid waste management unit

FIGURE 3-3
HYDROGRAPH OF MONITORING WELLS MPT-23-MW05S, MPT-44-MW03S, AND MPT-45-MW02S AUGUST 15, 1995 TO AUGUST 22, 1995

RCRA FACILITY INVESTIGATION REPORT, GROUP III SWMUs

U.S. NAVAL STATION MAYPORT, FLORIDA

H:\MWELSH\MAYPORT\8534-09\MAYAUG3.XLS 11-698 MAW
FRAME: MAC: 8534-09-TKB\FIG 3-3 FRAME

water table zone of the surficial aquifer is limited to areas located less than 330 feet from the shoreline of the St. Johns River at the Shipyard Area, and 400 feet at the Fleet Training Center (based on half of the distance between MPT-14-MW05S and MPT-14-MW10S).

3.2.2 Potentiometric Surface A discussion of the potentiometric surface on a stationwide basis was summarized in Subsection 3.2.5 in the NAVSTA Mayport GIR (ABB-ES, 1995a). Monitoring of water levels was conducted on a monthly basis during 1993 and most of 1994. The 1993 data were plotted, and stationwide maps of the potentiometric surface of the surficial aquifer are included in Appendix B, Volume II of the NAVSTA Mayport GIR.

Within the horizontal and vertical extent of subsurface explorations at Group III SWMUs, no confining unit of sufficient areal extent and thickness was found to indicate that the geologic units described in Section 3.1 are hydraulically isolated; therefore, the dredge material, undifferentiated post-Hawthorn deposits, and the Upper Hawthorn deposits appear to be in direct hydraulic connection and comprise the surficial aquifer in the vicinity of the Group III Area.

In general, groundwater flow in the surficial aquifer at NAVSTA Mayport is recharged by, or originates from, four localized hydrologic mounds (refer to Figure 3-19, NAVSTA Mayport GIR). The mound associated with Group III is assumed to be oriented north/south, with discharge zones in the Group III area roughly coincident with the Mayport Turning Basin, St. Johns River, and the Atlantic Ocean located to the west, north, and east, respectively. Despite localized influences on groundwater flow, the overall flow direction of the surficial aquifer at Group III SWMUs is north toward the Mayport Turning Basin Channel and St. Johns River with minor components to the east and west (Plate 1). It should also be noted that the retaining walls for Mayport Turning Basin may limit the amount of water that could discharge to the particular site area.

The Group III SWMUs are divided into three subgroups for the following discussion of the potentiometric surface. These groupings are SWMUs 1, 23, 24, 44, and 45, the Shipyard Area; SWMU 17, the Carbonaceous Fuel Boiler; and SWMUs 14 and 18, the Fleet Training Center Area. The rationale for grouping the SWMUs was the separation of the Shipyard Area from SWMU 17 by approximately 2,000 feet, and 1,800 feet separation between the Shipyard Area and the Fleet Training Center Area. The hydrogeologic setting for these three areas are dissimilar relative to the position of the groundwater mound.

The potentiometric surface of the surficial aquifer in the vicinity of Group III SWMUs has been estimated from data collected on July 19, 1995 (Table 3-5). Below is an assessment of groundwater directions for each of the three Group III SWMU subgroups: the Shipyard Area, the Fleet Training Center Area, and the Carbonaceous Fuel Boiler.

The Shipyard Area (SWMUs 1, 23, 24, 25, 44, and 45). The SWMUs comprising the Shipyard Area are located due south of the Mayport Turning Basin entrance channel. The direction of groundwater flow is generally to the north, toward the Mayport Turning Basin entrance channel (Plate 1). The hydraulic position of monitoring wells in relation to the Shipyard Area SWMUs are provided in Table 3-6. Tidal influence of the water table zone of the surficial aquifer was observed to occur in an area north of the Shipyard Area SWMUs, approximately 330

Table 3-6
Hydraulic Position of Monitoring Wells and Piezometers Relative to SWMUs 1, 23, 24, 25, 44, and 45

RCRA Facility Investigation, Group III SWMUs
U.S. Naval Station
Mayport, Florida

SWMU Number	Monitoring Well No.	Hydraulic Position	Diameter (inches)	Total Depth (feet)	Screened Interval (feet bls)
1	MPT-1-MW01S	U of 1	2	15	5 to 15
1	MPT-1-MW01I	U of 1	2	35.5	30 to 35
1	MPT-1-MW01D	U of 1	4	72	60 to 70
23	MPT-23-MW01S	U of 23 and D of 24	2	15	5 to 15
23	MPT-23-MW02S	U of 23 and D of 25	2	15	5 to 15
23	MPT-23-MW03S	U of 23 and D of 25	2	14	4 to 14
23	MPT-23-MW04S	D of 23	2	15	5 to 15
23	MPT-23-MW05S	D of 1, 23 and 44	2	13	3 to 13
23	MPT-23-MW05I	D of 1, 23 and 44	2	44	39 to 44
23	MPT-23-MW05D	D of 1, 23 and 44	4	72	60 to 70
23	MPT-23-MW06S	D of 23	2	15	5 to 15
23	MPT-23-MW07S	U of 23 and D of 24	2	15	5 to 15
24	MPT-24-MW01S	D of 24	2	15	5 to 15
44	MPT-44-MW01S	D of 44	2	15	5 to 15
44	MPT-44-MW01I	D of 44	2	38	32 to 37
44	MPT-44-MW01D	D of 44	4	70	58 to 68
44	MPT-44-MW02S	U of 44 and D of 1	2	15	5 to 15
44	MPT-44-MW03S	D of 44 and D of 1	2	14	4 to 14
45	MPT-45-P01S	D of 45	2	10	5 to 10
45	MPT-45-MW01I	D of 45	2	36	30 to 35
45	MPT-45-MW01D	D of 45	4	72	60 to 70
45	MPT-45-MW02S	S of 45 and D of 44	2	14	4 to 14

Notes: SWMU = solid waste management unit.
RCRA = Resource Conservation and Recovery Act.
bls = below land surface.
U = hydraulic upgradient.
D = hydraulic downgradient.
S = hydraulic sidegradient.

Table 3-10
Summary of Vertical Hydraulic Gradients July 19, 1995

RCRA Facility Investigation, Group III SWMUs
U.S. Naval Station
Mayport, Florida

Hydraulic Upgradient Location	Water Level[1] (ft MSL)	Hydraulic Downgradient Location	Water Level[1] (ft MSL)	Vertical Distance[2]	Average Hydraulic Gradient (ft/ft)[3]
Shipyards Area:					
MPT-1-MW01S	5.97	MPT-1-MW01I	5.68	22.5	0.013
MPT-1-MW01I	5.68	MPT-1-MW01D	4.96	32.5	0.02
MPT-23-MW05S	3.12	MPT-23-MW05I	2.07	33.5	0.03
MPT-23-MW05I	2.07	MPT-23-MW05D	1.60	23.5	0.02
MPT-44-MW01S	4.64	MPT-44-MW01I	3.74	24.5	0.04
MPT-44-MW01I	3.74	MPT-44-MW01D	3.39	28.5	0.01
MPT-1-P01S	3.13	MPT-45-MW01I	1.84	25	0.05
MPT-45-MW01I	1.84	MPT-45-MW01D	1.46	32.5	0.01
Background Wells:[4]					
MPT-B-MW01S	1.75	MPT-B-MW01I	2.13	25.5	-0.015
MPT-B-MW01I	2.13	MPT-B-MW01D	2.16	31.5	-0.0009

[1] Potentiometric water table elevation July 19, 1995.
[2] Distance between midpoint of screened interval of monitoring wells in feet.
[3] Negative hydraulic gradient values indicate an upward flow of groundwater; positive hydraulic gradient values indicate a downward flow of groundwater.
[4] MPT-B-MW01S, MPT-B-MW01I and MPT-B-MW01D are shown on Plate 1 of the NAVSTA Mayport General Information Report (ABB-ES, July 1995a).

Notes: RCRA = Resource Conservation and Recovery Act.
SWMUs = solid waste management units.
ft MSL = feet mean sea level, National Geodetic Vertical Datum of 1929.
ft/ft = foot per foot.

Table 3-11
In Situ Radial Hydraulic Conductivity (K) in Shallow Monitoring Wells

RCRA Facility Investigation, Group III SWMUs
U.S. Naval Station
Mayport, Florida

SWMU No.	Location	Screened Interval (feet bls)	No. of Test	Range of K (ft/d)	Average K (ft/d)
Shipyard Area					
1	MPT-1-P01S	5 to 10	5	14.9 to 236.3	46
1	MPT-1-P02S	10 to 15	5	21.3 to 27.5	24.5
1	MPT-1-P03S	10 to 15	5	15.2 to 19.1	16.6
23	MPT-23-MW01S	5 to 15	3	1.5 - 2.2	1.8
23	MPT-23-MW02S	5 to 15	3	0.98 - 1.6	1.2
23	MPT-23-MW03S	4 to 14	3	1.68 - 2.2	1.9
23	MPT-23-MW04S	5 to 15	3	5.2 - 5.6	5.4
23	MPT-23-MW05S	3 to 13	3	7.81 - 9.85	9.0
23	MPT-23-MW06S	5 to 15	3	2.3 - 2.58	2.5
23	MPT-23-MW07S	5 to 15	3	1.17 - 1.66	1.4
24	MPT-24-MW01S	5 to 15	3	1.0 - 1.9	1.4
44	MPT-44-MW01S	5 to 15	3	3.4 - 3.6	3.5
44	MPT-44-MW02S	5 to 15	3	1.0 - 1.4	1.2
44	MPT-44-MW03S	4 to 14	3	4.0 - 6.0	4.8
45	MPT-45-MW02S	4 to 14	3	7.69 - 8.91	8.3
				Average K for the Shipyard Area	8.6
Fleet Training Center					
14	MPT-14-P01S	5 to 10	4	10.9 to 13.5	11.8
14	MPT-14-P02S	6 to 11	4	17.5 to 28.1	22.1
14	MPT-14-MW03S	2.5 to 12.5	3	10.7 to 14.5	12.7
14	MPT-14-MW04S	2.5 to 12.5	3	7.4 to 11.3	9.4
14	MPT-14-MW05S	2.5 to 12.5	3	10.5 - 12.0	11.1
14	MPT-14-MW06S	2.5 to 12.5	3	10.7 to 11.7	11.3
14	MPT-14-MW07S	2.5 to 12.5	3	7.5 - 8.7	8.2
14	MPT-14-MW08S	2.5 to 12.5	3	8.8 - 13.2	11.0
14	MPT-14-MW09S	2.5 to 12.5	3	7.7 - 9.2	8.2
14	MPT-14-MW10S	2.5 to 12.5	3	17.8 - 19.0	18.5
14	MPT-14-MW11S	2.5 to 12.5	3	17.3 - 23.5	21.4
14	MPT-14-MW12S	3 to 13	3	13.3 - 15.5	14.0
14	MPT-14-MW13S	2.5 to 12.5	3	8.2 - 9.6	8.7
14	MPT-14-MW14S	2.5 to 12.5	3	10.4 - 17.5	12.8

See notes at end of Table.

Table 3-11 (Continued)
In Situ Radial Hydraulic Conductivity (K) in Shallow Monitoring Wells

RCRA Facility Investigation, Group III SWMUs
U.S. Naval Station
Mayport, Florida

SWMU No.	Location	Screened Interval (feet bls)	No. of Test	Range of K (ft/d)	Average K (ft/d)
Fleet Training Center (Continued)					
18	MPT-18-MW13S	2.5 to 12.5	3	10.9 - 16.2	10.2
18	MPT-18-MW02S	2.5 to 12.5	3	8.8 - 9.7	7.2
18	MPT-18-MW03S	2.5 to 12.5	3	15.6 - 17.5	9.9
			Average K for the Fleet Training Center Area		12.2
Carbonaceous Fuel Boiler					
17	MPT-17-MW01S	3 to 13	3	9.3 - 12.0	9.3
17	MPT-17-MW02S	3 to 13	3	6.6 - 8.14	10.2
17	MPT-17-MW03S	3 to 13	3	7.9 - 12.3	7.2
17	MPT-17-P01S	5 to 10	4	62.1 to 82.0	72.2
17	MPT-17-P02S	7 to 12	6	17.7 to 26.7	22.8
			Average K for the Carbonaceous Fuel Boiler Area		24.3

Notes: RCRA = Resource Conservation and Recovery Act.
SWMUs = solid waste management units.
bls = below land surface.
Range of K = range of radial hydraulic conductivity values obtained from each test.
ft/d = foot per day.
Average K = arithmetic mean of radial hydraulic conductivity values.

Shipyard Area (SWMUs 1, 23, 24, 25, 44, and 45). Radial hydraulic conductivity values in the vicinity of the Jacksonville Shipyard Area ranged from approximately 1.2 to 46 ft/d, with an average of 8.6 ft/d. The average value for the monitoring well screened in the intermediate aquifer zone was approximately 1.3 ft/d and for the deep aquifer zone was approximately 0.6 ft/d.

Fleet Training Center (SWMUs 14 and 18). Radial hydraulic conductivity values in the vicinity of the Fleet Training Center ranged from approximately 7.2 to 22.1 ft/d with an average of approximately 12.2 ft/d. No monitoring wells have been screened in the intermediate or deep aquifer zones at the Fleet Training Center area.

Carbonaceous Fuel Boiler SWMU 17. Radial hydraulic conductivity values in the vicinity of the Carbonaceous Fuel Boiler Plant ranged from approximately 7.2 to 72.2 ft/d, with an average of 24.3 ft/d. No monitoring wells have been screened in the intermediate or deep aquifer zones at the Carbonaceous Fuel Boiler area.

Laboratory permeability test to determined vertical hydraulic conductivity values were conducted in accordance with test method American Society for Testing and Materials (ASTM)-D5084. Two soil samples, collected from Group III soil borings drilled for the installation of monitoring wells, were analyzed by this procedure. The soil sample collected from monitoring well location MPT-1-MW01I at a sample interval from 33 to 35 feet bls is a silty fine sand and the soil sample collected from monitoring well location MPT-44-MW01D at 44 to 46 ft bls is very sandy silt. Each sample was selected to represent a zone of low permeability. The results of the analyses are provided in Table 3-13. The average of the two values was calculated to be 0.34 ft/d. Based on this limited and biased data, the vertical hydraulic conductivity has the potential of being several orders of magnitude less than the horizontal radial hydraulic conductivity values where fine-grained materials predominate.

Table 3-13
Laboratory Hydraulic Conductivity (K) at NAVSTA Mayport

RCRA Facility Investigation, Group III SWMUs
U.S. Naval Station
Mayport, Florida

Location	Sample Depth (feet bls)	Laboratory Vertical Hydraulic Conductivity (cm/sec)	Laboratory Vertical Hydraulic Conductivity (ft/d)
MPT-1-MW01I	33 - 35	0.00000008	0.00023
MPT-44-MW01D	44 - 46	0.00024	0.68

Notes: NAVSTA = Naval Station.
RCRA = Resource Conservation and Recovery Act.
SWMUs = solid waste management units.
bls = below land surface.
cm/sec = centimeters per second.
ft/d = foot per day.

3.2.4 Groundwater Flow Velocity Groundwater flow velocities are expressed as average linear groundwater velocities, calculated from a modified form of Darcy's equation, and represent the ratio of linear travel distance to travel time. Refer to Subsection 3.2.6 of the NAVSTA Mayport GIR (ABB-ES, 1995a) for the formula used and the assumptions made to calculate velocities.

Horizontal and vertical groundwater flow velocities were calculated for the surficial aquifer beneath the Group III SWMUs using the groundwater level data obtained on July 19, 1995, the average values for radial hydraulic conductivity in Table 3-11 and an effective porosity of 0.35. The groundwater flow velocities were calculated for the three Group III Subgroups: the Shipyard Area, the Fleet Training Center Area, and the Carbonaceous Fuel Boiler (Table 3-14).

Shipyard Area (SWMUs 1, 23, 24, 25, 44, and 45). Horizontal groundwater flow velocities in the surficial aquifer beneath the Shipyard Area SWMUs are estimated to range from approximately 0.05 ft/d (18 feet per year [ft/yr]) to 0.15 ft/d (54 ft/yr).

Fleet Training Center (SWMUs 14 and 18). Horizontal groundwater flow velocities in the surficial aquifer beneath the Fleet Training Center Area, SWMUs 14 and 18 are estimated to range from approximately 0.03 ft/d (10 ft/yr) to 0.14 ft/d (51 ft/yr).

The Carbonaceous Fuel Boiler (SWMu 17). The horizontal groundwater flow velocity in the surficial aquifer beneath the Carbonaceous Fuel Boiler Area is estimated to be approximately 0.1 ft/d (35 ft/yr).

The horizontal groundwater flow rates for Group III are within the range of values for the Group I and II SWMUs presented in Table 3-9 in the NAVSTA Mayport GIR, (ABB-ES, 1995a). The values presented for Group III in this report are lower than the single value presented in the NAVSTA Mayport GIR. The values for horizontal groundwater flow velocities presented in this report are considered to be more representative of the hydrogeologic setting at Group III SWMUs than the value previously presented in the NAVSTA Mayport GIR.

Vertical linear flow velocities were calculated from data collected from a single nested well cluster, MPT-23-MW05S, MPT-23-MW05I and MPT-23-MW05D located on the north side of the Shipyard Area SWMUs. Screen depths for the monitoring wells in this cluster are 3 to 13 feet bls for the shallow well, 39 to 44 feet bls for the intermediate well, and 60 to 70 feet bls for the deep well. The estimated vertical flow rate at the Shipyard Area was 0.11 ft/d or approximately 41 ft/yr from the shallow surficial aquifer to the intermediate zone and 0.03 ft/d or approximately 13 ft/yr from the intermediate zone to the deep zone of the surficial aquifer (Table 3-15) (compare Table 3-10, NAVSTA Mayport GIR). Based on this limited data, values for the vertical linear groundwater flow rate are likely similar to the horizontal linear groundwater flow rates in the Shipyard Area. However, the higher transmissivity of deep portions of the surficial aquifer that was suggested by the tidal influence study data is not confirmed because of the limited number of intermediate and deep wells installed at Group III SWMUs.

Assuming a value of 36 ft/yr (Table 3-14) for the horizontal linear groundwater velocity and no retardation of contaminants, the time for contaminants to migrate from the Shipyard Area, which ranges from 200 to 1,050 feet from the St. Johns River, would be approximately 6 to 29 years.

Table 3-16
Summary of Physical Soil Characteristics

RCRA Facility Investigation, Group III SWMUs
U.S. Naval Station
Mayport, Florida

Sample Location	Sample Depth (feet)	Moisture (%)	CEC	pH	TOC	Percent Total Solids
Shipyard Area:						
MPT-1-MW01D	9 to 11	98	1.7	8.34	3,360	72.9
MPT-1-MW01D	46 to 48	75.6	1.6	9.19	1,000	78.5
MPT-1-MW01D	64 to 66	77	2.5	9.43	640	81.9
MPT-44-MW01D	35 to 37	43.9	1.4	8.58	9,220	75.7
MPT-45-MW01S	7 to 9	98.5	0.8	8.94	500	82.4
Carbonaceous Fuel Boiler:						
MPT-17-MW03S	5 to 7	97	0.8	8.33	691	80.6
Fleet Training Center Area:						
MPT-14-MW07S	6 to 8	98	2.2	8.27	226	82.0
MPT-14-MW09S	6 to 8	97	<0.8	8.68	164	81.8
MPT-14-MW14S	6 to 8	–	<0.8	9.13	152	80.5
MPT-18-MW03S	4 to 6	94	1.0	8.98	254	80.1

Notes: RCRA = Resource Conservation and Recovery Act.
SWMU = solid waste management unit.
% = percent.
CEC = cation exchange capacity (milliequivalents per 100 grams).
TOC = Total Organic Carbon milligrams per kilogram.
< = less than.
– = not analyzed.

4.0 THE SHIPYARD AREA, SWMUs 1, 23, 24, 25, 44, and 45

RFI SWMU 1 and Resource Conservation and Recovery Act (RCFA) Facility Assessment (RFA) sampling visit (SV) SWMUs 23, 24, 25, 44, and 45 (SWMUs requiring confirmatory sampling) were grouped together for RFI field investigations and reporting and are collectively referred to as the Shipyard Area. The Shipyard Area is an industrial area located in the northeastern part of NAVSTA Mayport (Figure 1-2). RFA SWMUs 23, 24, 25, 44, and 45 are located adjacent to RFI SWMU 1 (Landfill A) (Figure 1-2) and are being assessed with SWMU 1 because they share similar topographic and hydrogeologic settings and contaminants.

Additionally, SWMU 23 (Jacksonville Shipyard, Inc. [JSI]) and the two SWMUs at the domestic Federally-owned Wastewater Treatment Plant (FOWTP) (SWMU 44, Wastewater Treatment Facility Clarifiers 1 and 2 and SWMU 45, Wastewater Treatment Facility Sludge Drying Beds) occupy part of what used to be Landfill A. SWMU 1 (Landfill A) includes an area of approximately 4 acres located approximately 600 feet to the south of the entrance to Mayport Turning Basin (Figure 4-1).

SWMU 24 (North Florida Shipyard, Inc. [NFSI]) and SWMU 25 (Atlantic Marine, Inc. [AMI]) were also added to this investigation because of their proximity to SWMU 1 and the similarity of ship repair activities among SWMUs 23, SWMU 24, and SWMU 25.

This chapter provides a description and history of each SWMU (including previous investigations), a summary of the Group III field investigations at each SWMU, results and interpretation of environmental sample analysis, and human health and ecological risk assessments.

4.1 SITE DESCRIPTION AND BACKGROUND. This section describes historical information for SWMUs 1, 23, 24, 25, 44, and 45; previous investigations; and a summary of the Group III field investigations conducted from March through October 1995. Historical information concerning the operation of SWMUs 1, 23, 24, 25, 44 and 45 was obtained from the RFA conducted by A.T. Kearney in 1989 on behalf of the USEPA. A current land-use description of each SWMU is presented below. More detailed information on the flora and fauna at the Shipyard Area SWMUs may be obtained from the NAVSTA Mayport GIR (ABB-ES, 1995a).

SWMU 1, Landfill A. The RFA report described Landfill A as consisting of a series of trenches approximately 15 feet wide, 400 feet long, and 8 feet deep. Industrial and sanitary wastes disposed of in the landfill included waste oils, paints, solvents, sanitary garbage, and construction rubble (A.T. Kearney, Inc., 1989). The landfill's operating routine was reported in the RFA report to consist of filling a part of a trench, then each Monday through Friday afternoon the flammable materials were burned. Once the trenches were filled to the approximate 400-foot length, they were covered with soil. The Navy operated the landfill from 1942 to 1960 (A.T. Kearney, Inc., 1989).

Anecdotal evidence from the NAVSTA Mayport Public Works Department, obtained during research for the NAVSTA Mayport RFI Workplan Addendum 5 (ABB-ES, 1994b), indicated that in 1989 landfill material was uncovered in the area of the new clarifiers being constructed at the FOWTP. Uncovered in the excavation for the clarifiers were scrap metal, sheeting, pipes, and 27 empty drums previously containing xylene. This suggests that SWMU 1, Landfill A, probably extends

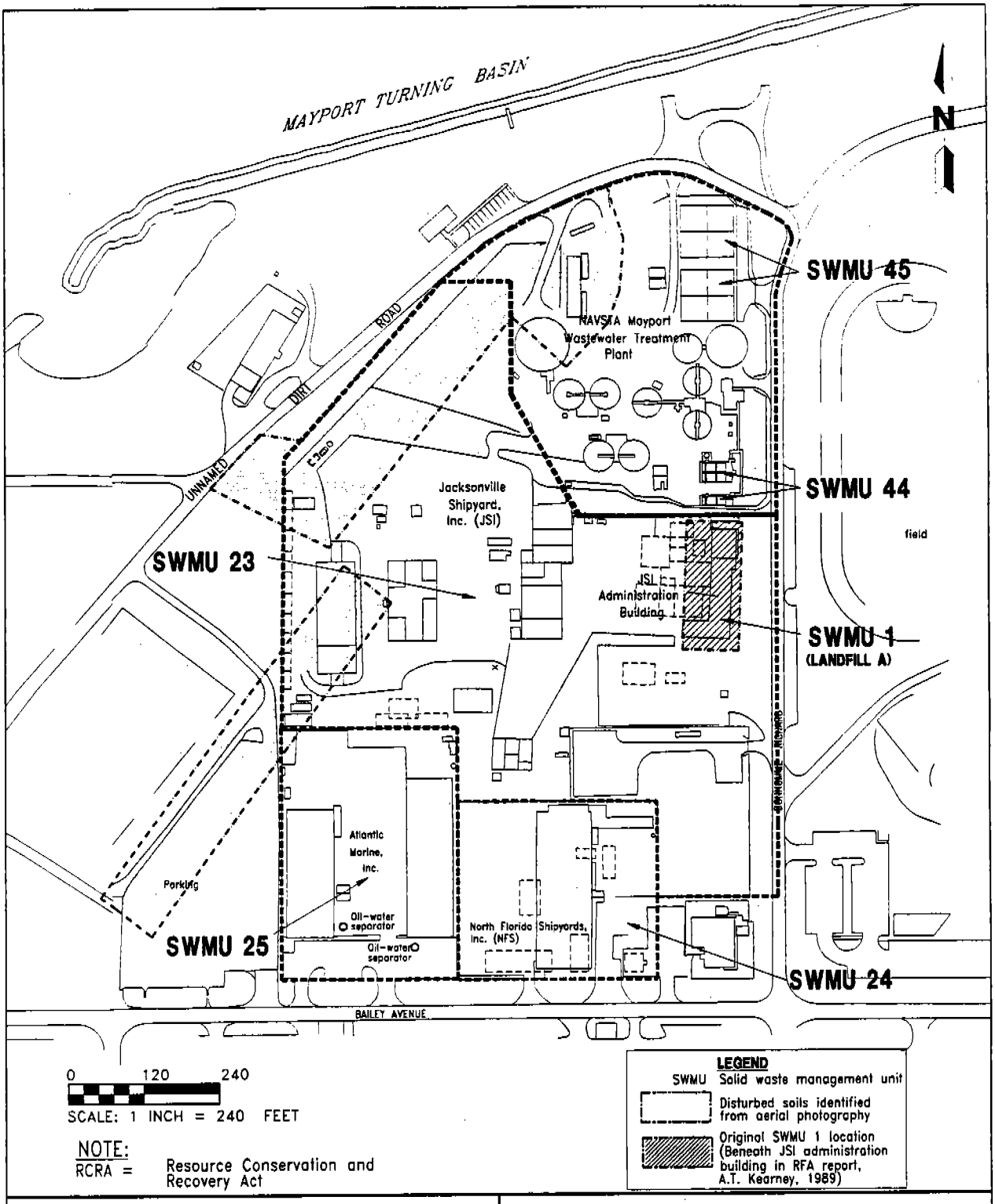


FIGURE 4-1
POTENTIAL LOCATIONS OF LANDFILL A

H:\MAYPORT\SWMU14\NAB\02-28-96

RCRA FACILITY INVESTIGATION REPORT, GROUP III SWMUs

U.S. NAVAL STATION MAYPORT, FLORIDA

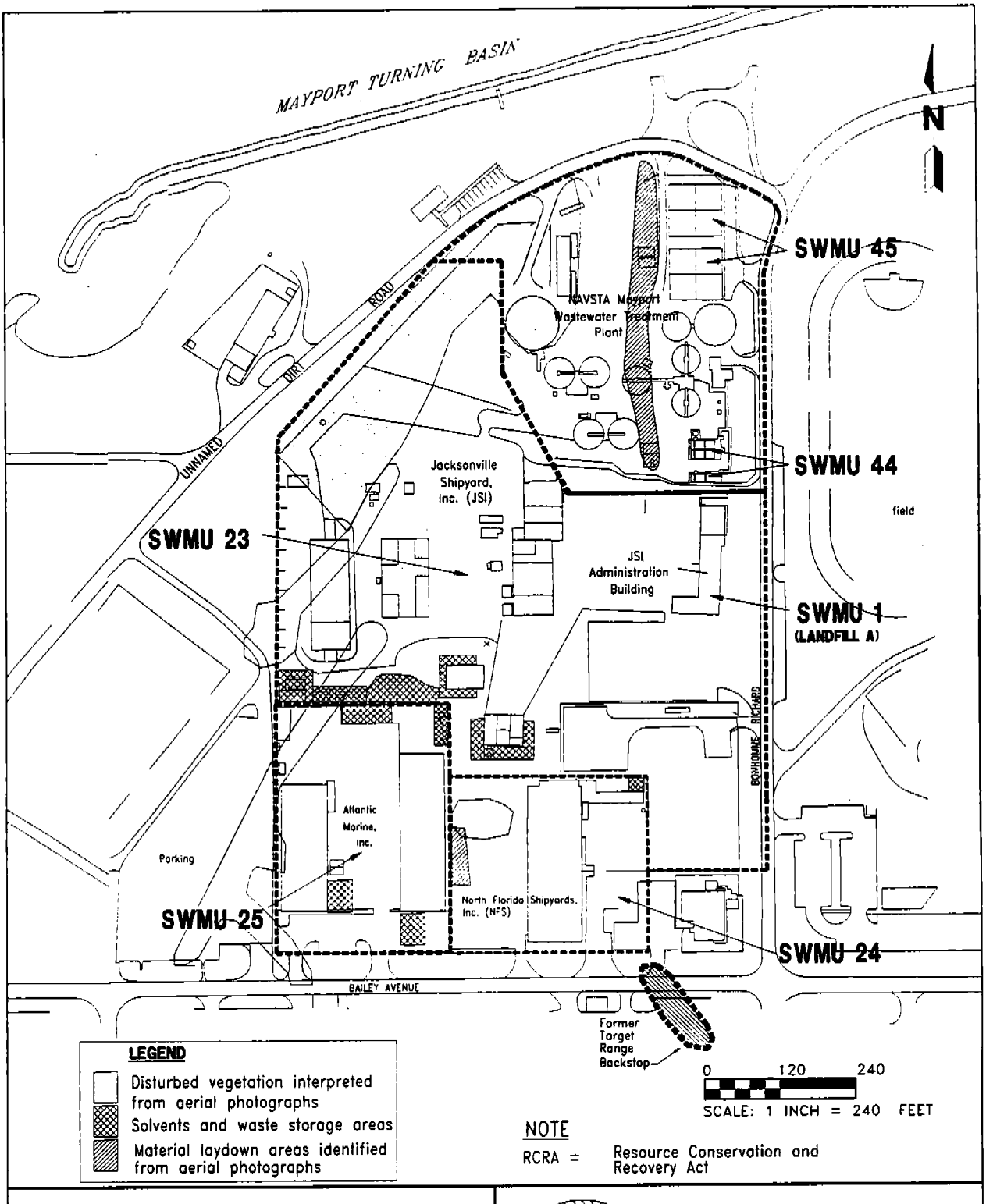


FIGURE 4-5
SWMUs 1, 23, 24, 25, 44, and 45,
AREAS OF POTENTIAL CONTAMINATION

H:MAYPORT\SWMU14\NAB-NP\03-05-96

RCRA FACILITY INVESTIGATION REPORT, GROUP III SWMUs

U.S. NAVAL STATION
MAYPORT, FLORIDA

Two oil-water separators are also present at the AMI site; however, neither is currently being used. Both oil-water separators are connected from the two buildings onsite by underground pipes to underground sumps and waste oil accumulation tanks.

A review of aerial photographs dated from the mid 1960s to late 1970s suggests the occurrence of extensive areas of disturbed vegetation and soil in the southwestern parts of the AMI site next to the site's western boundary (Figure 4-5). The disturbed area includes the paved parking lot adjacent to the western property boundary of AMI. Some of the disturbed areas are likely from vehicular traffic associated with using a dirt road that was located in the southwestern corner of the AMI site. It could not be confirmed from the review of the aerial photographs, but this area may have been used as either a laydown yard or possibly a landfill.

SWMU 44, Wastewater Treatment Facility Clarifiers 1, 2, and 3. Wastewater treatment facility clarifiers 1 and 2 were constructed in 1962, and clarifier 3 was added in the 1970s as part of the NAVSTA Mayport FOWTP. The clarifiers are located east of and within 500 feet of Mayport Turning Basin, along the northern boundary of JSI (Figure 1-2). The clarifiers are aboveground, square concrete tanks each having a nominal capacity of approximately 40,500 gallons (Figure 4-6).

The RFA report indicated that during the VSI in 1989, clarifiers 1, 2, and 3 were reported to have oily stains on the outside of the tanks. The staining was reported to be along the location of small hairline fractures. Based on the appearance of the clarifiers, A.T. Kearney concluded that some oily material may have been released around each clarifier.

Beginning in 1987, the clarifiers were used to contain and remove floating free-phase oil from firefighting training wastes from the FTC and effluent from these tanks was discharged into the FOWTP influent stream (A.T. Kearney, Inc., 1989). The floating free-phase oil was manually skimmed from the surface and transported by gravity flow into one of the Group IV waste oil storage tanks (SWMU 51) (A.T. Kearney, Inc., 1989).

Currently, the clarifiers are being used for temporary storage of firefighting training waste liquids from the FTC. The firefighting training wastes are stored in the clarifiers prior to treatment at the Oily Waste Treatment Plant (OWTP) (Group II, SWMU 9). Effluent from the OWTP is returned to the FOWTP.

SWMU 45, Wastewater Treatment Facility Sludge Drying Beds. The NAVSTA Mayport wastewater treatment facility was expanded in 1972 to include a secondary treatment facility using an activated sludge system and two sludge drying beds, each divided into four cells (Figure 4-6). The sludge beds, each composed of four cells, have an area of approximately 14,000 square feet. The RFA report indicated that the sludge drying beds are constructed with concrete curbs and sand bottoms and were reported to have received digested sludge from aerobic digesters 1 and 2 (Figure 4-7) (A.T. Kearney, Inc., 1989). During sludge drying, the effluent that passed through the sand bottom was collected by an underdrain system, which flowed to the influent pumping station (A.T. Kearney, Inc., 1989). However, NAVSTA Mayport personnel at the FOWTP indicate that the underdrain system does not exist. Between 1972 and 1985, the sludge drying beds were cleaned once every quarter, with the dewatered sludge discarded in the onsite

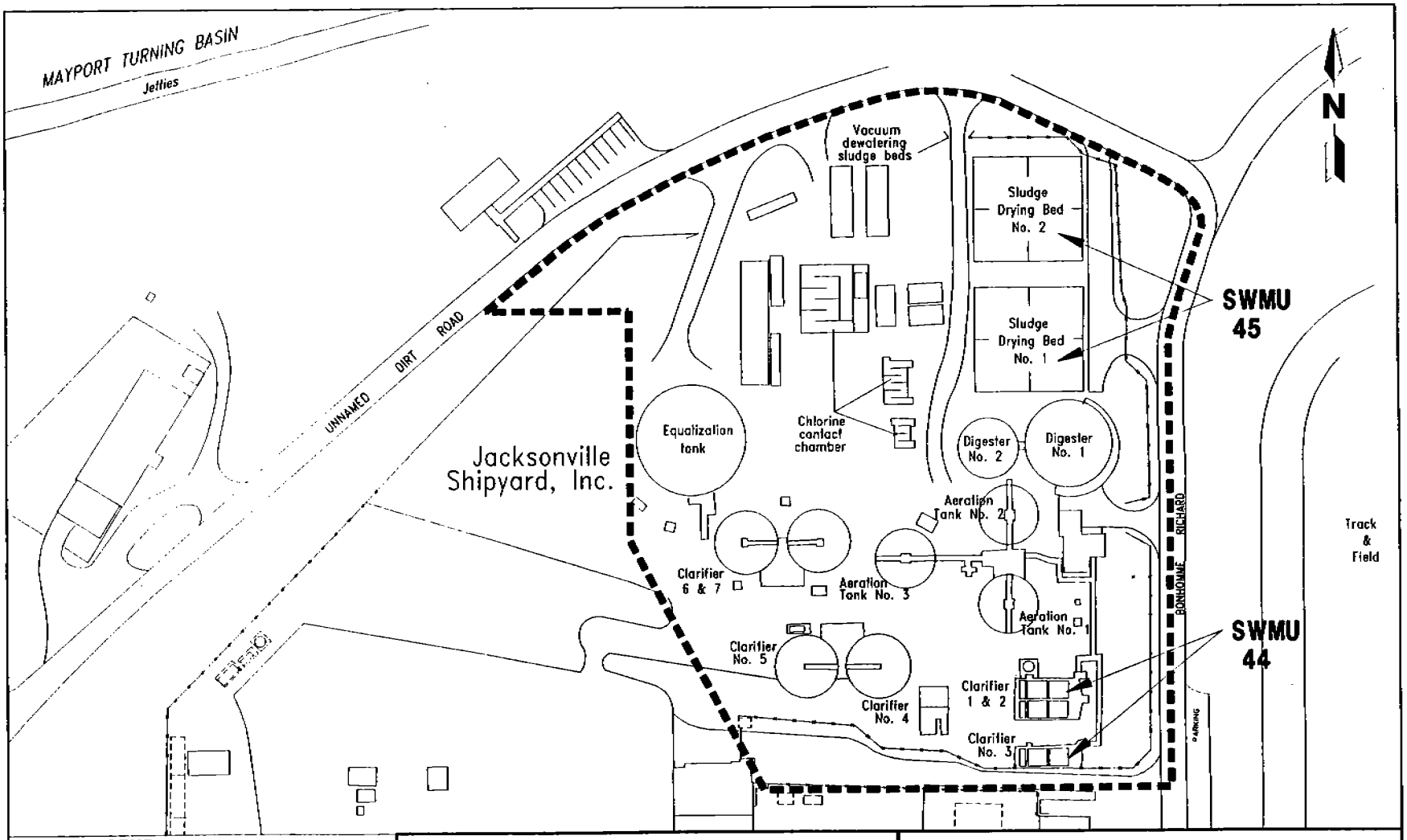


FIGURE 4-6
NAVAL STATION MAYPORT
WASTEWATER TREATMENT PLANT,
AND SWMUs 44 AND 45

RCRA FACILITY INVESTIGATION REPORT, GROUP III SWMUs

U.S. NAVAL STATION
MAYPORT, FLORIDA

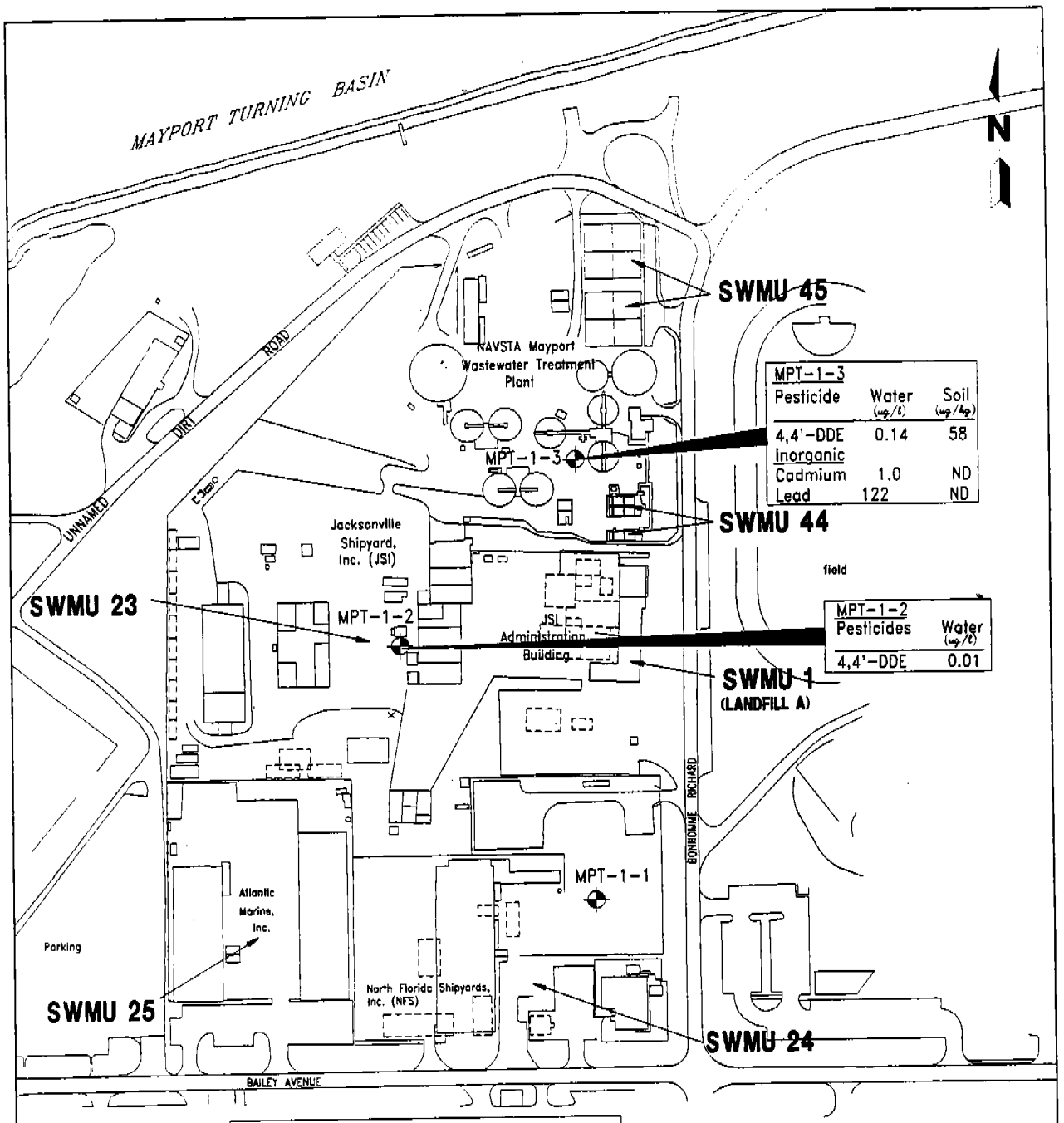


FIGURE 4-8
EXPANDED SITE INVESTIGATION, SWMU 1 LANDFILL

H:MAYPORT\SWMU14\NAB\02-29-96

RCRA FACILITY INVESTIGATION REPORT, GROUP III SWMUs

U.S. NAVAL STATION MAYPORT, FLORIDA

samples from the following JSI areas: Administration Building and adjacent grounds, parking lot south of the Administration Building, shop and warehouse area west of the Administration Building, and a grassy area west of the FOWTP. In addition, surface and subsurface soil samples were collected from around the JSI Administration Building. The soil samples were analyzed for a selected subset of 40 CFR, Part 264, Appendix IX, groundwater monitoring list parameters (USEPA, 1986a). Figure 4-9 illustrates the sampling locations and Tables 4-1 and 4-2 present the concentrations of target analytes detected in surface and subsurface soil samples, respectively.

Because the highest detected concentrations of lead and mercury could potentially present an unacceptable exposure risk to a construction worker at the JSI Administration Building site, a second sampling event was conducted. The objective of the second sampling event was to assess whether or not the observed concentrations of lead and mercury represented an isolated occurrence or were indicative of a larger contaminated area (ABB-ES, 1994c). Figure 4-10 illustrates the location of the soil samples collected during the second sampling event and Table 4-3 presents the concentrations of detected target analytes (ABB-ES, 1994c). The analytical results from the second sampling event suggest that the highest detected concentrations of lead and mercury were isolated occurrences.

The analytical results for the special-purpose investigation have not been validated and are, therefore, subject to qualification (ABB-ES, 1994c).

4.1.2 Group III RFI Field Activities Group III RFI field activities were conducted at the Shipyard Area (SWMUs 1, 23, 24, 25, 44, and 45) from March through October 1995. Chapter 2.0 provides an overview of the analytical program for the Group III SWMUs. Sampling procedures, background sampling information, and other stationwide sampling information is provided in the NAVSTA Mayport GIR (ABB-ES, 1995a).

Field activities conducted at the Shipyard Area included the following:

- conducting a geophysical survey;
- collecting surface soil, subsurface soil, and sludge samples;
- groundwater screening (TerraProbe℠);
- installing monitoring wells; and
- collecting groundwater samples.

The Shipyard Area contains several potential sources of contamination. The SWMUs within the Shipyard Area share a similar hydrogeologic setting and similar functions as the base's industrial area. The six SWMUs were grouped to facilitate a comprehensive investigative approach consisting of the collection of environmental samples at locations where potential contaminants may emanate from multiple sources with overlapping contaminant plumes. Potential contaminants from these SWMUs include petroleum fuels and oils, PCBs, chlorinated solvents, non-chlorinated solvents, paint wastes, and metals. Figures 4-1 and 4-3 through 4-6 illustrate the locations of potential sources of contamination at the Shipyard Area SWMUs (SWMUs 1, 23, 24, 25, 44, and 45).

Group III field investigative activities included a geophysical survey, a groundwater screening program, a surface and subsurface soil sampling program, and monitoring well installation and groundwater sampling program.

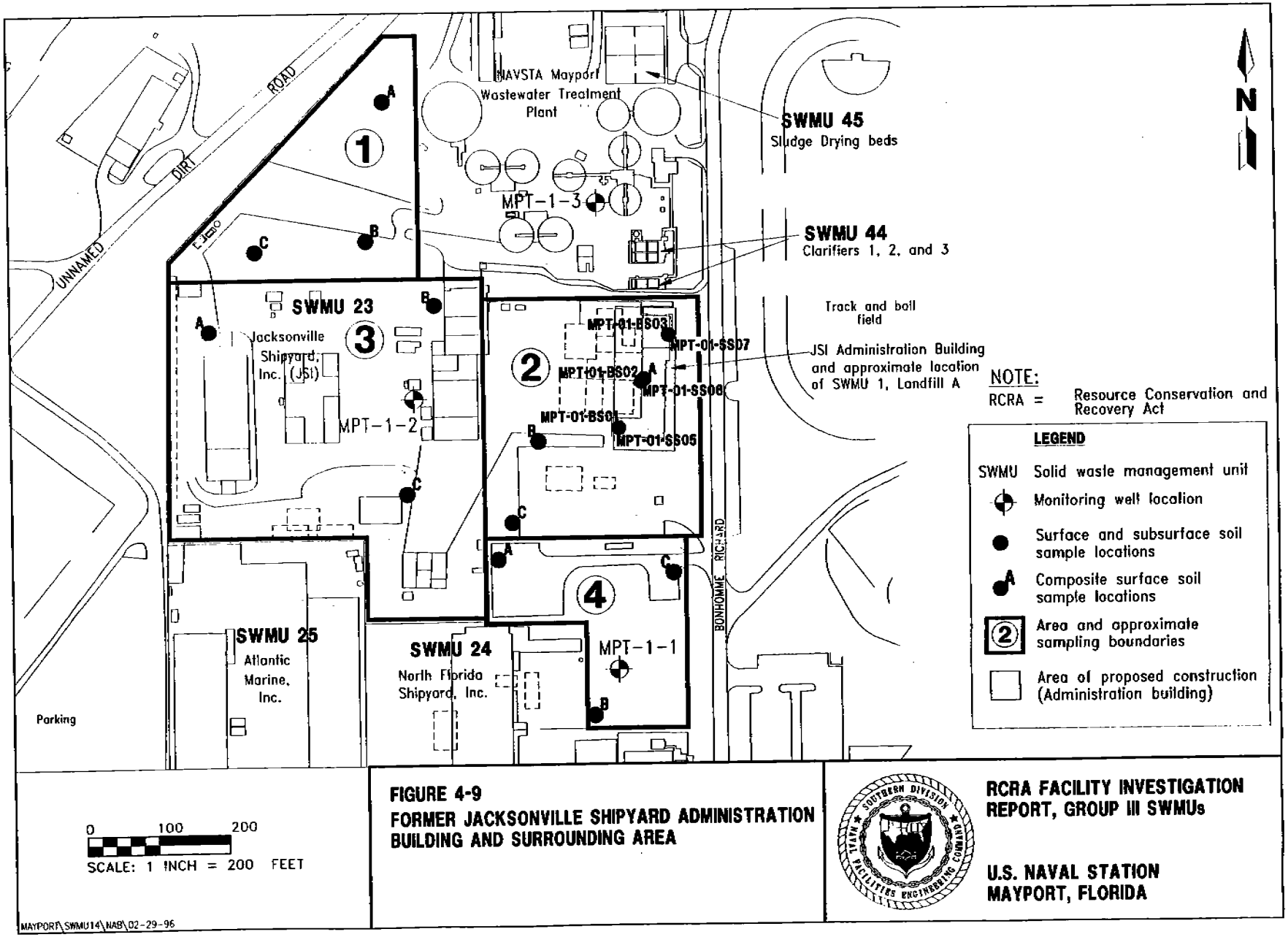


FIGURE 4-9
FORMER JACKSONVILLE SHIPYARD ADMINISTRATION BUILDING AND SURROUNDING AREA

RCRA FACILITY INVESTIGATION REPORT, GROUP III SWMUs

U.S. NAVAL STATION MAYPORT, FLORIDA

The field activities and laboratory methods used for analyzing the environmental samples collected at the Shipyard Area are discussed below.

Geophysical Survey. A geophysical survey was conducted in open areas where landfilled materials were suspected to be present in and around SWMU 1 (Figure 4-11). The purpose of the geophysical survey was to assess subsurface conditions, identify areas where buried materials may exist and to delineate the boundaries of Landfill A, if possible. Information gathered during the geophysical survey was also used in the design of a monitoring well network. The three geophysical survey methods employed included magnetometry (with vertical gradient capability), terrain conductivity instrumentation, and ground penetrating radar. The survey was conducted in March and April 1995.

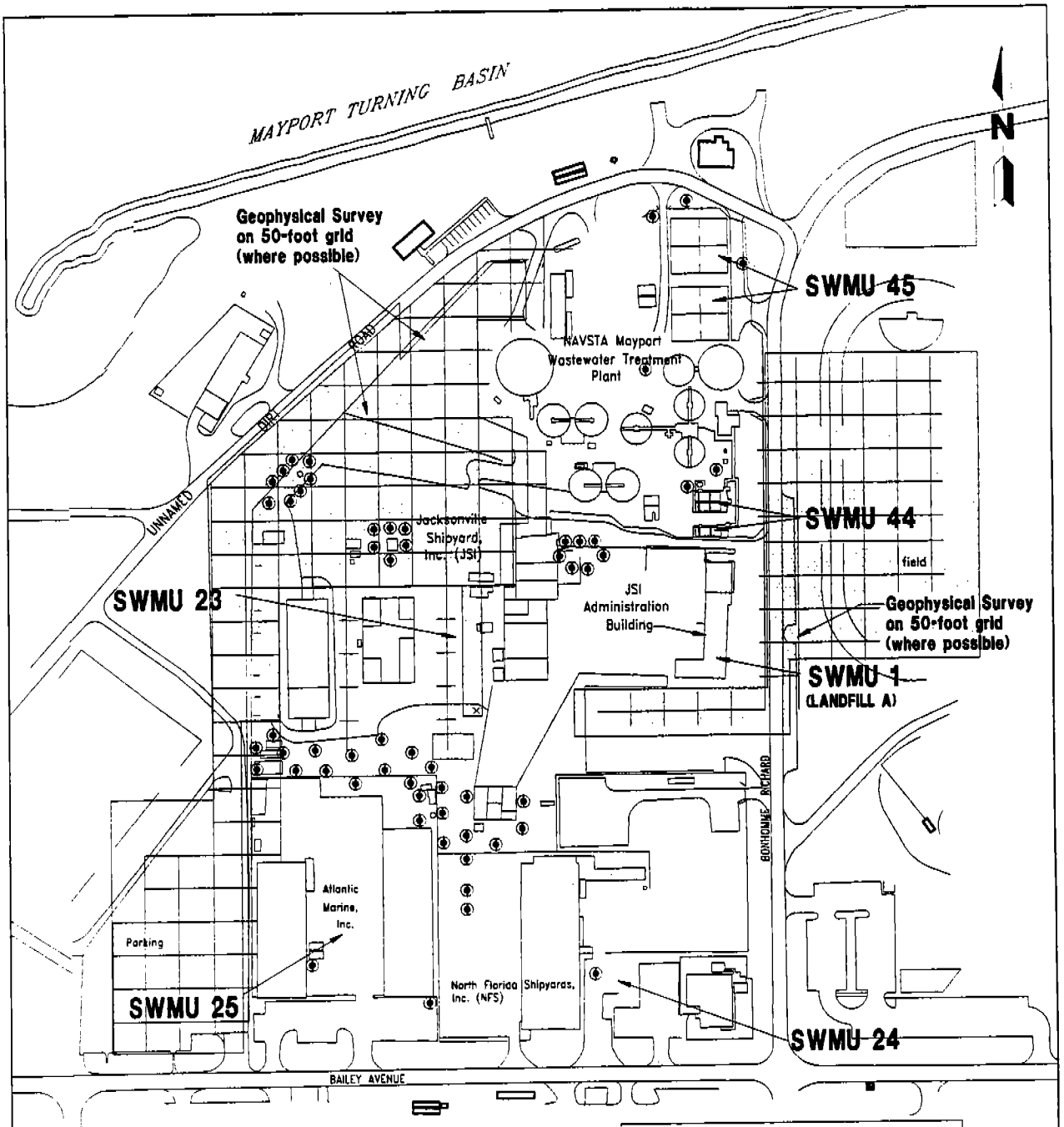
A grid with 20-foot spacing was surveyed in open spaces adjacent to the JSI Administration Building, the western part of the JSI, the western part of the FOWTP, an open area to the east of AMI, and the parking lot area next to SWMU 25 (Figure 4-11). Geophysical measurements were collected from each intersecting node. A more detailed description of the techniques employed and the results of the geophysical survey are presented in Appendix C.

Groundwater Field Screening Program. A groundwater field screening program was conducted using a direct-push technology (TerraProbe℠) to collect groundwater field-screening samples in areas that once were used to store petroleum fuels and/or solvents. The groundwater field-screening program was an iterative process designed to assess whether or not petroleum-related or solvent contamination is present and to delineate any contamination that is found. The groundwater field screening program was also used to assist in determining the location of Group III groundwater monitoring wells. Based on the results of the field screening program, confirmatory (groundwater) samples were collected to assess the nature and extent of contaminants, human health and ecological risk, and to provide fundamental engineering properties data to support development of potential corrective measures. A total of 63 TerraProbe℠ soundings were conducted in the Shipyard Area to collect the groundwater field screening samples (Plate 2).

Groundwater samples were collected using the TerraProbe℠ system to drive a threaded 1-inch OD hollow steel rod assembly attached to a threaded 1-inch OD hollow steel perforated screen to the proper sampling depth at each sampling location. A peristaltic pump was used to collect the groundwater sample, which was immediately containerized for transport to either the onsite screening laboratory or the offsite laboratory for confirmatory analyses.

Analyses of groundwater field screening samples was conducted using a field GC with 10 percent laboratory confirmation by USEPA Methods 8010 and 8020. The DQO for the groundwater field screening sample level accuracy is NEESA Level E (USEPA DQO Level 1). This DQO was selected because the purpose of this screening program was to assist in locating monitoring wells from which confirmatory groundwater samples were collected.

Sludge Sampling. Sixteen composited sludge/soil (mostly composed of sand and gravel) samples and two duplicates were collected from SWMU 45, FOWTP Sludge Drying Beds (Plate 3). Two composite samples were collected from each of the four quadrants of the two sludge drying beds; one sample from each of two



NOTE:
RCRA = Resource Conservation and Recovery Act

FIGURE 4-11
PROPOSED GEOPHYSICAL SURVEY GRID AND TERRAPROBE℠ SAMPLING LOCATIONS

RCRA FACILITY INVESTIGATION REPORT, GROUP III SWMUs

U.S. NAVAL STATION MAYPORT, FLORIDA

H:\MAYPORT\SWMU14\NAB-NP\03-05-96

the middle of the screened interval using a peristaltic pump to remove stagnant water without causing the resuspension of silts and clays. Temperature, pH, conductivity, salinity, dissolved oxygen, oxidation potential, and turbidity were measured during purging to ensure good conductance between the well and the surrounding matrix. The monitoring well was purged until temperature, pH, and conductivity, salinity, dissolved oxygen, oxidation potential stabilized and a minimum of three well volumes of water had been removed. Purging also continued until a turbidity of 5 nephelometric turbidity units (NTUs) or less was achieved.

The groundwater samples were collected using a peristaltic pump and disposable Teflon™ tubing. The samples were collected before the material came in contact with the pump. The samples were collected by pumping water at less than one liter per minute from the middle of the well screen interval. Samples for inorganics, SVOCs, pesticides, and PCBs were collected first. VOCs were collected last with the sampler, preventing agitation of the water in the monitoring well by slowly pulling the Teflon™ tubing out of the well and carefully transferring the contents of the tube into a VOC vial with a Teflon™ septa cap for shipment to the offsite laboratory. Groundwater samples were placed in a cooler, refrigerated with ice, and sent overnight under chain-of-custody protocol to an offsite laboratory for analysis.

Environmental Sample Laboratory Analyses. Groundwater field screening samples (NEESA Level E, USEPA Level I DQO) were analyzed in the field using a portable GC and 10 percent were submitted to a laboratory for analyses using USEPA Methods 8010, 8020 and 8015 (Modified). Surface and subsurface soil, sludge, and groundwater samples collected at the Shipyard Area (SWMUs 1, 23, 24, 25, 44, and 45) were analyzed for target analytes selected from both the Groundwater Monitoring List (contained in 40 CFR 264, Appendix IX) and USEPA's CLP TCL and TAL parameters. The analytical data package for these samples was NEESA Level C for aqueous and nonaqueous matrices for VOCs, SVOCs, pesticides, and PCBs.

Field QA/QC samples also were collected during sampling activities at the Shipyard Area and were analyzed for the same parameters as the corresponding environmental samples. QA/QC requirements are presented in detail in the NAVSTA Mayport RFI Workplan, Appendix A, Volume II (ABB-ES, 1991).

4.2 FINDINGS. The subsections below present the findings from the geophysical survey and the nature and distribution of target analytes detected in surface soil, subsurface soil, sludge ,and groundwater samples. The data are described as previously presented based on the following rationale: SWMUs 1, 23, 24, 25, 44, and 45 are potential sources of contamination and thus, the SWMUs may have released contamination to the underlying subsurface soils; surface soil data are presented and discussed first, followed by findings for the subsurface soil, and then SWMU 45 sludge data; groundwater is discussed last to assess whether or not target analytes have migrated beyond the boundaries of the industrial Shipyard Area.

4.2.1 Geophysical Survey The geophysical survey was conducted to assess areas of potential concern that were noted in aerial photographs from 1952 to 1989 and, if possible, confirm the location of SWMU 1 (Figure 4-11). The areas of concern were based on the appearance of possible disturbed vegetation or soil. A technical memorandum presenting the results of the Geophysical Survey is provided in Appendix C.

Table 4-4
Organic Analytes Detected in Surface Soil Samples at SWMUs 1, 23, 24, 25, 44, and 45

RCRA Facility Investigation, Group III SWMUs
U.S. Naval Station
Mayport, Florida

Analytical Batch Number:	R9861	R9861	R9861	R9861	R9861	R9861	R9861	R9861
Sample Location:	MPT-1-SB01	MPT-1-SB01	MPT-1-SB02	MPT-1-SB03	MPT-1-SB04	MPT-1-SB05	MPT-1-SB06	MPT-1-SB07
Sample Number:	01S00101	01S00101DUP	01S00201*	01S00301	01S00401	01S00501	01S00601	01S00701
Date Sampled:	03-MAY-95	03-MAY-95	03-MAY-95	03-MAY-95	03-MAY-95	03-MAY-95	03-MAY-95	03-MAY-95
Sample Depth (ft bls):	0 to 1	0 to 1	0 to 1	0 to 1	0 to 1	0 to 1	0 to 1	0 to 1
Volatiles (µg/kg)								
Carbon disulfide	--	1 J	--	--	--	--	--	2 J
2-Butanone	--	--	--	--	4 J	--	--	--
Benzene	--	--	--	--	1 J	--	--	--
Toluene	--	--	--	--	1 J	--	--	--
Ethylbenzene	--	--	--	--	--	--	--	--
Xylenes (total)	--	3 J	--	--	2 J	--	--	2 J
Trichlorofluoromethane	--	--	--	--	--	--	--	--
Isobutyl alcohol	--	--	--	--	--	--	--	--
Semivolatiles (µg/kg)								
Benzoic acid	--	--	--	--	--	--	--	--
Naphthalene	--	--	--	--	--	--	--	--
2-Methylnaphthalene	--	--	--	--	--	--	--	--
Dimethylphthalate	--	--	--	--	--	--	--	--
Acenaphthene	--	--	--	--	--	--	--	--
Dibenzofuran	--	--	--	--	--	--	--	--
Fluorene	--	--	--	--	--	--	--	--
Phenanthrene	--	--	400 J	--	--	--	--	--
Anthracene	--	--	--	--	--	--	--	--
Di-n-Butylphthalate	--	--	--	--	--	--	--	--
Fluoranthene	--	--	390 J	--	--	--	--	--
Pyrene	--	--	250 J	--	--	--	--	--
Butylbenzylphthalate	--	--	--	--	--	--	--	--
Benzo(a)anthracene	--	--	100 J	--	--	--	--	--
Chrysene	--	--	130 J	--	--	--	--	--
bis(2-Ethylhexyl) phthalate	--	--	--	--	--	--	--	--
Di-n-octylphthalate	--	--	--	--	--	--	--	--

See notes at end of table.

Table 4-4 (Continued)
Organic Analytes Detected in Surface Soil Samples at SWMUs 1, 23, 24, 25, 44, and 45

RCRA Facility Investigation, Group III SWMUs
U.S. Naval Station
Mayport, Florida

Analytical Batch Number:	R9861	R9861	R9861	R9861	R9861	R9861	R9861	R9861
Sample Location:	MPT-1-SB01	MPT-1-SB01	MPT-1-SB02	MPT-1-SB03	MPT-1-SB04	MPT-1-SB05	MPT-1-SB06	MPT-1-SB07
Sample Number:	01S00101	01S00101DUP	01S00201*	01S00301	01S00401	01S00501	01S00601	01S00701
Date Sampled:	03-MAY-95	03-MAY-95	03-MAY-95	03-MAY-95	03-MAY-95	03-MAY-95	03-MAY-95	03-MAY-95
Sample Depth (ft bls):	0 to 1	0 to 1	0 to 1	0 to 1	0 to 1	0 to 1	0 to 1	0 to 1
Semivolatiles(µg/kg)								
Benzo(b)fluoranthene	--	--	120 J	--	--	--	--	--
Benzo(k)fluoranthene	--	--	130 J	--	--	--	--	--
Benzo(a)pyrene	--	--	96 J	--	--	--	--	--
Indeno (1,2,3-cd) pyrene	--	--	--	--	--	--	--	--
Dibenz(a,h)anthracene	--	--	--	--	--	--	--	--
Benzo(g,h,i)perylene	--	--	--	--	--	--	--	--
Acetophenone	--	--	--	--	--	--	--	--
Pesticides/PCBs(µg/kg)								
beta-BHC	--	--	--	--	--	--	--	--
Aldrin	--	--	--	--	--	--	--	--
Heptachlor epoxide	--	--	--	--	--	--	--	--
Dieldrin	--	--	--	--	--	--	--	--
4,4'-DDE	1.9 J	1.9 J	--	1.9	2.3 J	0.93 J	0.98 J	--
Endrin	--	--	--	--	--	--	--	--
Endosulfan II	--	--	--	--	--	--	--	--
4,4'-DDD	--	--	--	--	--	--	--	--
4,4'-DDT	--	--	--	1.5	2.6 J	4.6 J	--	--
Methoxychlor	--	--	--	--	--	--	--	--
Endrin aldehyde	--	--	--	--	--	--	--	--
Endrin ketone	--	--	--	--	--	--	--	--
Chlordane	--	--	--	--	--	--	--	--
Isodrin	--	--	--	--	--	--	--	--
Aroclor-1254	--	--	--	--	--	--	--	--
Aroclor-1260	100 J	150	--	--	55 J	84 J	32 J	--

See notes at end of table.

Table 4-4 (Continued)
Organic Analytes Detected in Surface Soil Samples at SWMUs 1, 23, 24, 25, 44, and 45

RCRA Facility Investigation, Group III SWMUs
U.S. Naval Station
Mayport, Florida

Analytical Batch Number:	R9861	R9743	R9743	R9743	R9743	R9743	R9743	R9743
Sample Location:	MPT-23-SS07	MPT-23-SS08	MPT-23-SS08	MPT-23-SS09	MPT-23-SS10	MPT-23-SS11	MPT-23-SS12	MPT-23-SS13
Sample Number:	23S00701	23S00801	23S00801DUP	23S00901	23S01001	23S01101	23S01201	23S01301
Date Sampled:	05-APR-95	05-APR-95	05-APR-95	05-APR-95	05-APR-95	07-APR-95	07-APR-95	07-APR-95
Sample Depth (ft bls):	0 to 1	0 to 1	0 to 1	0 to 1	0 to 1	0 to 1	0 to 1	0 to 1
Volatiles (µg/kg)								
Carbon disulfide	--	--	--	--	--	--	--	--
2-Butanone	--	--	--	--	--	--	--	--
Benzene	--	--	--	--	--	--	--	--
Toluene	--	--	--	--	--	2 J	--	--
Ethylbenzene	--	--	--	--	--	--	--	--
Xylenes (total)	--	--	--	--	--	--	--	--
Trichlorofluoromethane	--	--	--	--	--	--	--	--
Isobutyl alcohol	--	--	--	--	--	--	--	--
Semivolatiles (µg/kg)								
Benzoic acid	--	--	--	--	--	--	--	--
Naphthalene	--		--	--	--	--	880	--
2-Methylnaphthalene	--	--	--	--	--	--	--	--
Dimethylphthalate	--	--	--	--	--	--	--	--
Acenaphthene	--	--	--	--	--	--	--	--
Dibenzofuran	--	--	--	--	--	--	--	--
Fluorene	--	--	--	--	--	--	--	--
Phenanthrene	--	--	--	--	--	--	--	--
Anthracene	--	--	--	--	--	--	--	--
Di-n-Butylphthalate	--	--	--	--	--	--	--	--
Fluoranthene	130 J	--	--	--	--	--	--	210 J
Pyrene	200 J	--	--	--	--	--	--	240 J
Butylbenzylphthalate	--	--	--	--	--	--	--	--
Benzo(a)anthracene	90 J	--	--	--	--	--	--	160 J
Chrysene	130 J	--	--	--	--	--	--	220 J
bis(2-Ethylhexyl) phthalate	--	--	--	--	--	--	--	--
Di-n-octylphthalate	--	--	--	--	--	--	--	--

See notes at end of table.

Table 4-4 (Continued)
Organic Analytes Detected in Surface Soil Samples at SWMUs 1, 23, 24, 25, 44, and 45

RCRA Facility Investigation, Group III SWMUs
U.S. Naval Station
Mayport, Florida

Analytical Batch Number:	R9861	R9743	R9743	R9743	R9743	R9743	R9743	R9743
Sample Location:	MPT-23-SS07	MPT-23-SS08	MPT-23-SS08	MPT-23-SS09	MPT-23-SS10	MPT-23-SS11	MPT-23-SS12	MPT-23-SS13
Sample Number:	23S00701	23S00801	23S00801DUP	23S00901	23S01001	23S01101	23S01201	23S01301
Date Sampled:	05-APR-95	05-APR-95	05-APR-95	05-APR-95	05-APR-95	07-APR-95	07-APR-95	07-APR-95
Sample Depth (ft bls):	0 to 1	0 to 1	0 to 1	0 to 1	0 to 1	0 to 1	0 to 1	0 to 1
Semivolatiles (µg/kg)								
Benzo(b)fluoranthene	110 J	--	--	--	--	--	--	240 J
Benzo(k)fluoranthene	130 J	--	--	--	--	--	--	220 J
Benzo(a)pyrene	94 J	--	--	--	--	--	--	160 J
Indeno (1,2,3-cd) pyrene	--	--	--	--	--	--	--	130 J
Dibenz(a,h)anthracene	--	--	--	--	--	--	--	--
Benzo(g,h,i)perylene	--	--	--	--	--	--	--	190 J
Acetophenone	--	--	--	--	--	--	--	--
Pesticides/PCBs (µg/kg)								
beta-BHC	--	--	--	--	--	--	--	--
Aldrin	--	--	--	--	--	--	--	--
Heptachlor epoxide	--	--	--	--	--	--	--	--
Dieldrin	--	--	--	--	--	--	--	--
4,4'-DDE	--	1.8 J	1.9 J	--	--	1.2	--	2.2
Endrin	--	--	--	--	--	--	--	--
Endosulfan II	--	--	--	--	--	--	--	--
4,4'-DDD	--	--	--	--	--	--	--	--
4,4'-DDT	--	2.2	2.6 J	--	--	3.8	--	--
Methoxychlor	190 J	--	--	4.8	--	2.9	--	--
Endrin aldehyde	--	--	--	--	--	--	--	--
Endrin ketone	22 J	--	--	--	--	--	--	--
Chlordane	--	--	--	--	--	--	--	--
Isodrin	--	--	--	--	--	--	--	--
Aroclor-1254	--	--	--	--	130	--	70	--
Aroclor-1260	--	--	--	--	--	--	--	--

See notes at end of table.

Table 4-4 (Continued)
Organic Analytes Detected in Surface Soil Samples at SWMUs 1, 23, 24, 25, 44, and 45

RCRA Facility Investigation, Group III SWMUs
U.S. Naval Station
Mayport, Florida

Analytical Batch Number:	R9743	R9743	R9743	R9743	M8775	M8775	M8780	M8780
Sample Location:	MPT-23-SS14	MPT-23-SS15	MPT-23-SS16	MPT-23-SS18	MPT-23-SS19	MPT-23-SS20	MPT-23-SS21	MPT-23-SS22
Sample Number:	23S01401	23S01501	23S01601	23S01801	23S01901	23S02001	23S02101	23S02201
Date Sampled:	07-APR-95	07-APR-95	07-APR-95	07-APR-95	07-APR-95	07-APR-95	08-APR-95	08-APR-95
Sample Depth (ft bls):	0 to 1	0 to 1	0 to 1	0 to 1	0 to 1	0 to 1	0 to 1	0 to 1
Volatiles (µg/kg)								
Carbon disulfide	--	--	--	2 J	--	--	--	--
2-Butanone	--	--	--	--	--	--	--	--
Benzene	--	--	--	--	--	--	--	--
Toluene	2 J	--	4 J	--	1 J	--	6	7
Ethylbenzene	--	--	--	--	--	--	--	--
Xylenes (total)	--	--	--	--	1 J	2 J	8	12
Trichlorofluoromethane	--	--	--	--	--	--	--	--
Isobutyl alcohol	--	--	--	--	--	--	--	--
Semivolatiles (µg/kg)								
Benzoic acid	--	--	--	--	--	--	--	--
Naphthalene	--	--	--	--	--	--	--	24 J
2-Methylnaphthalene	--	--	--	--	--	--	--	--
Dimethylphthalate	--	--	--	--	--	--	--	--
Acenaphthene	--	--	--	--	--	--	--	--
Dibenzofuran	--	--	--	--	--	--	--	--
Fluorene	--	--	--	--	--	--	--	--
Phenanthrene	96 J	--	--	--	--	--	--	--
Anthracene	--	--	--	--	--	--	--	--
Di-n-Butylphthalate	--	79 J	200 J	--	30 J	44 J	--	20 J
Fluoranthene	330 J	--	--	--	--	29 J	--	--
Pyrene	520 J	--	--	--	--	21 J	20 J	--
Butylbenzylphthalate	--	--	--	--	--	--	--	--
Benzo(a)anthracene	330 J	--	--	--	--	--	--	--
Chrysene	440 J	--	--	--	--	21 J	34 J	--
bis(2-Ethylhexyl) phthalate	--	--	--	--	26 J	150 J	--	--
Di-n-octylphthalate	--	--	--	--	--	--	--	--

See notes at end of table.

Table 4-4 (Continued)
Organic Analytes Detected in Surface Soil Samples at SWMUs 1, 23, 24, 25, 44, and 45

RCRA Facility Investigation, Group III SWMUs
U.S. Naval Station
Mayport, Florida

Analytical Batch Number:	R9743	R9743	R9743	R9743	M8775	M8775	M8780	M8780
Sample Location:	MPT-23-SS14	MPT-23-SS15	MPT-23-SS16	MPT-23-SS18	MPT-23-SS19	MPT-23-SS20	MPT-23-SS21	MPT-23-SS22
Sample Number:	23S01401	23S01501	23S01601	23S01801	23S01901	23S02001	23S02101	23S02201
Date Sampled:	07-APR-95	07-APR-95	07-APR-95	07-APR-95	07-APR-95	07-APR-95	08-APR-95	08-APR-95
Sample Depth (ft bls):	0 to 1	0 to 1	0 to 1	0 to 1	0 to 1	0 to 1	0 to 1	0 to 1
Semivolatiles (µg/kg)								
Benzo(b)fluoranthene	450 J	--	--	--	--	24 J	--	--
Benzo(k)fluoranthene	500 J	--	--	--	--	27 J	--	--
Benzo(a)pyrene	430 J	--	--	--	--	--	--	--
Indeno(1,2,3-cd)pyrene	270 J	--	--	--	--	--	--	--
Dibenz(a,h)anthracene	96 J	--	--	--	--	--	--	--
Benzo(g,h,i)perylene	340 J	--	--	--	--	--	--	--
Acetophenone	--	--	--	--	--	--	--	--
Pesticides/PCBs (µg/kg)								
beta-BHC	--	--	--	--	--	--	--	--
Aldrin	--	--	--	--	--	--	--	--
Heptachlor epoxide	--	--	--	--	--	--	--	--
Dieldrin	--	--	--	--	--	--	--	--
4,4'-DDE	1.2	1.3 J	8.3	--	--	--	--	--
Endrin	--	--	--	--	--	--	--	--
Endosulfan II	12	--	--	--	--	--	--	--
4,4'-DDD	--	--	--	--	--	--	--	--
4,4'-DDT	--	2	28	--	--	--	--	--
Methoxychlor	--	--	--	--	--	--	--	--
Endrin aldehyde	--	--	--	--	--	--	--	--
Endrin ketone	--	--	--	--	--	--	--	--
Chlordane	--	--	--	--	--	--	--	--
Isodrin	--	--	--	--	--	--	--	--
Aroclor-1254	--	--	--	--	--	--	--	--
Aroclor-1260	--	--	380	--	26	46 J	--	--

See notes at end of table.

Table 4-4 (Continued)
Organic Analytes Detected in Surface Soil Samples at SWMUs 1, 23, 24, 25, 44, and 45

RCRA Facility Investigation, Group III SWMUs
U.S. Naval Station
Mayport, Florida

Analytical Batch Number:	M8780	M8775	M8775	M8775	M8775	M8775	M8994	M8994
Sample Location:	MPT-23-SS23	MPT-23-SS24	MPT-23-SS25	MPT-23-SS26	MPT-23-SS27	MPT-23-SS28	MPT-23-MW07S	MPT-23-MW07S
Sample Number:	23S02301	23S02401	23S02501	23S02601	23S02701	23S02801	23S02901	23S02901DUP
Date Sampled:	08-APR-95	07-APR-95	07-APR-95	07-APR-95	07-APR-95	07-APR-95	20-MAY-95	20-MAY-95
Sample Depth (ft bls):	0 to 1	0 to 1	0 to 1	0 to 1	0 to 1	0 to 1	0 to 1	0 to 1
Volatiles (µg/kg)								
Carbon disulfide	4 J	--	1 J	--	--	--	--	--
2-Butanone	--	--	--	--	--	--	--	--
Benzene	--	--	--	--	--	--	--	--
Toluene	13	--	2 J	--	--	--	--	--
Ethylbenzene	--	--	--	--	--	--	--	--
Xylenes (total)	2 J	--	6	2 J	2 J	2 J	--	--
Trichlorofluoromethane	--	--	--	--	--	--	--	--
Isobutyl alcohol	--	--	--	--	--	--	--	--
Semivolatiles (µg/kg)								
Benzoic acid	--	--	--	--	--	--	--	--
Naphthalene	--	--	--	--	--	--	--	--
2-Methylnaphthalene	--	--	--	--	--	--	--	--
Dimethylphthalate	--	--	--	--	--	--	--	--
Acenaphthene	--	--	--	--	--	--	--	--
Dibenzofuran	--	--	--	--	--	--	--	--
Fluorene	--	--	--	--	--	--	--	--
Phenanthrene	--	--	--	32 J	--	--	--	--
Anthracene	--	--	--	--	--	--	--	--
Di-n-Butylphthalate	--	41 J	29 J	19 J	38 J	--	--	--
Fluoranthene	42 J	--	28 J	140 J	--	--	--	--
Pyrene	62 J	--	28 J	130 J	--	--	--	--
Butylbenzylphthalate	--	--	--	--	--	--	--	--
Benzo(a)anthracene	54 J	--	--	100 J	--	--	--	--
Chrysene	80 J	--	21 J	150 J	--	--	--	--
bis(2-Ethylhexyl) phthalate	--	62 J	41 J	91 J	35 J	34 J	--	--
Di-n-octylphthalate	--	--	--	--	--	--	--	--

See notes at end of table.

Table 4-4 (Continued)
Organic Analytes Detected in Surface Soil Samples at SWMUs 1, 23, 24, 25, 44, and 45

RCRA Facility Investigation, Group III SWMUs
U.S. Naval Station
Mayport, Florida

Analytical Batch Number:	M8780	M8775	M8775	M8775	M8775	M8775	M8994	M8994
Sample Location:	MPT-23-SS23	MPT-23-SS24	MPT-23-SS25	MPT-23-SS26	MPT-23-SS27	MPT-23-SS28	MPT-23-MW07S	MPT-23-MW07S
Sample Number:	23S02301	23S02401	23S02501	23S02601	23S02701	23S02801	23S02901	23S02901DUP
Date Sampled:	08-APR-95	07-APR-95	07-APR-95	07-APR-95	07-APR-95	07-APR-95	20-MAY-95	20-MAY-95
Sample Depth (ft bls):	0 to 1	0 to 1	0 to 1	0 to 1	0 to 1	0 to 1	0 to 1	0 to 1
Semivolatiles (µg/kg)								
Benzo(b)fluoranthene	65 J	--	22 J	170 J	--	--	--	--
Benzo(k)fluoranthene	69 J	19 J	35 J	270 J	24 J	--	--	--
Benzo(a)pyrene	74 J	--	24 J	190 J	--	--	--	--
Indeno (1,2,3-cd) pyrene	47 J	--	26 J	180 J	--	--	--	--
Dibenz(a,h)anthracene	--	--	--	69 J	--	--	--	--
Benzo(g,h,i)perylene	55 J	--	43 J	260 J	--	--	--	--
Acetophenone	--	--	28 J	--	--	--	--	--
Pesticides/PCBs (µg/kg)								
beta-BHC	--	--	--	--	--	--	--	--
Aldrin	--	--	--	--	--	--	--	--
Heptachlor epoxide	--	--	--	--	--	--	--	--
Dieldrin	--	--	--	--	--	--	--	--
4,4'-DDE	--	--	--	--	--	--	--	--
Endrin	--	--	--	--	--	--	--	--
Endosulfan II	--	--	--	--	--	--	--	--
4,4'-DDD	--	--	--	--	--	--	--	--
4,4'-DDT	--	--	--	--	--	--	--	--
Methoxychlor	--	--	--	--	--	--	--	--
Endrin aldehyde	--	--	--	--	--	--	--	--
Endrin ketone	--	--	--	--	--	--	--	--
Chlordane	--	29 J	--	--	--	--	--	--
Isodrin	--	--	--	--	--	--	--	--
Aroclor-1254	220 J	--	--	--	--	--	280 J	390 J
Aroclor-1260	--	--	--	--	--	--	100	140

See notes at end of table.

Table 4-4 (Continued)
Organic Analytes Detected in Surface Soil Samples at SWMUs 1, 23, 24, 25, 44, and 45

RCRA Facility Investigation, Group III SWMUs
U.S. Naval Station
Mayport, Florida

Analytical Batch Number:	M8780	M8780	M8780	M8780	M8780	M8780	M8867	M8985
Sample Location:	MPT-24-SS01	MPT-24-SS02	MPT-24-SS03	MPT-24-SS04	MPT-24-SS04	MPT-24-SS05	MPT-24-SS06	MPT-24-MW01S
Sample Number:	24S00101	24S00201	24S00301	24S00401	24S00401DUP	24S00501	24S00601	24S00701
Date Sampled:	08-APR-95	08-APR-95	08-APR-95	08-APR-95	08-APR-95	08-APR-95	24-APR-95	19-MAY-95
Sample Depth (ft bls):	0 to 1	0 to 1	0 to 1	0 to 1	0 to 1	0 to 1	0 to 1	0 to 1
Volatiles (µg/kg)								
Carbon disulfide	2 J	3 J	2 J	--	1 J	1 J	--	--
2-Butanone	--	--	--	--	--	--	--	--
Benzene	--	--	--	--	--	--	--	--
Toluene	--	--	3 J	--	1 J	--	--	--
Ethylbenzene	--	--	--	--	--	--	--	--
Xylenes (total)	3 J	--	6	3 J	6	3 J	4 J	--
Trichlorofluoromethane	--	--	--	--	--	--	--	--
Isobutyl alcohol	--	--	--	--	--	--	--	--
Semivolatiles (µg/kg)								
Benzoic acid	--	--	--	62 J	--	--	--	--
Naphthalene	--	--	25 J	--	--	--	--	--
2-Methylnaphthalene	--	--	22 J	--	--	--	--	--
Dimethylphthalate	--	--	--	--	--	--	--	--
Acenaphthene	--	--	--	--	--	--	--	--
Dibenzofuran	--	--	--	--	--	--	--	--
Fluorene	--	--	--	--	--	--	--	--
Phenanthrene	--	120 J	--	45 J	120 J	42 J	--	760 J
Anthracene	--	36 J	--	--	19 J	--	--	180 J
Di-n-Butylphthalate	19 J	--	100 J	39 J	66 J	39 J	--	--
Fluoranthene	--	430	--	100 J	190 J	130 J	150 J	1,000 J
Pyrene	--	390 J	--	140 J	200 J	120 J	130 J	870 J
Butylbenzylphthalate	--	--	--	--	--	--	--	--
Benzo(a)anthracene	--	230 J	--	91 J	110 J	50 J	--	600 J
Chrysene	--	250 J	--	130 J	170 J	97 J	140 J	720 J
bis(2-Ethylhexyl) phthalate	--	--	--	--	--	--	--	640 J
Di-n-octylphthalate	--	--	--	--	--	--	--	--

See notes at end of table.

Table 4-4 (Continued)
Organic Analytes Detected in Surface Soil Samples at SWMUs 1, 23, 24, 25, 44, and 45

RCRA Facility Investigation, Group III SWMUs
U.S. Naval Station
Mayport, Florida

Analytical Batch Number:	M8780	M8780	M8780	M8780	M8780	M8780	M8867	M8985
Sample Location:	MPT-24-SS01	MPT-24-SS02	MPT-24-SS03	MPT-24-SS04	MPT-24-SS04	MPT-24-SS05	MPT-24-SS06	MPT-24-MW01S
Sample Number:	24S00101	24S00201	24S00301	24S00401	24S00401DUP	24S00501	24S00601	24S00701
Date Sampled:	08-APR-95	08-APR-95	08-APR-95	08-APR-95	08-APR-95	08-APR-95	24-APR-95	19-MAY-95
Sample Depth (ft bls):	0 to 1	0 to 1	0 to 1	0 to 1	0 to 1	0 to 1	0 to 1	0 to 1
Semivolatiles (µg/kg)								
Benzo(b)fluoranthene	--	190 J	--	96 J	140 J	78 J	130 J	570 J
Benzo(k)fluoranthene	--	200 J	--	85 J	150 J	140 J	140 J	560 J
Benzo(a)pyrene	--	190 J	--	83 J	130 J	76 J	120 J	500 J
Indeno (1,2,3-cd) pyrene	--	150 J	--	66 J	99 J	43 J	100 J	410 J
Dibenz(a,h)anthracene	--	54 J	--	40 J	48 J	--	--	270 J
Benzo(g,h,i)perylene	--	160 J	--	82 J	120 J	37 J	130 J	400 J
Acetophenone	--	--	--	--	--	--	--	--
Pesticides/PCs (µg/kg)								
beta-BHC	--	--	--	--	--	--	--	--
Aldrin	--	1.1	--	--	--	--	--	--
Heptachlor epoxide	--	--	--	--	--	--	--	--
Dieldrin	--	3.4	--	--	--	--	--	--
4,4'-DDE	--	--	--	--	--	6.3 J	--	--
Endrin	--	--	--	--	--	--	--	--
Endosulfan II	--	--	--	--	--	--	--	--
4,4'-DDD	--	--	--	--	--	--	--	--
4,4'-DDT	--	--	--	--	--	--	--	--
Methoxychlor	--	--	--	--	--	--	--	--
Endrin aldehyde	--	--	--	--	--	--	--	--
Endrin ketone	--	--	--	--	--	--	--	--
Chlordane	72	--	--	--	--	23	--	480
Isodrin	--	--	--	--	--	--	--	--
Aroclor-1254	--	--	--	--	--	--	--	--
Aroclor-1260	140	--	--	--	--	--	--	--

See notes at end of table.

Table 4-4 (Continued)
Organic Analytes Detected in Surface Soil Samples at SWMUs 1, 23, 24, 25, 44, and 45

RCRA Facility Investigation, Group III SWMUs
U.S. Naval Station
Mayport, Florida

Analytical Batch Number:	M8985	M8793	M8793	M8793	M8793	M8793	M8793	M8793
Sample Location:	MPT-24-MW01S	MPT-25-SS01	MPT-25-SS02	MPT-25-SS03	MPT-25-SS04	MPT-25-SS04	MPT-25-SS05	MPT-25-SS06
Sample Number:	24S00701DUP	25S00101	25S00201	25S00301	25S00401	25S00401DUP	25S00501	25S00601
Date Sampled:	19-MAY-95	10-APR-95	10-APR-95	10-APR-95	10-APR-95	10-APR-95	10-APR-95	10-APR-95
Sample Depth (ft bls):	0 to 1	0 to 1	0 to 1	0 to 1	0 to 1	0 to 1	0 to 1	0 to 1
Volatiles (µg/kg)								
Carbon disulfide	--	1 J	--	1 J	2 J	1 J	--	--
2-Butanone	--	--	4 J	--	6 J	7 J	10 J	--
Benzene	--	--	--	--	--	--	--	--
Toluene	--	2 J	1 J	22	14	2 J	1 J	--
Ethylbenzene	--	--	--	13	6 J	--	--	--
Xylenes (total)	--	2 J	5 J	81	43	4 J	2 J	1 J
Trichlorofluoromethane	--	--	--	--	--	--	--	--
Isobutyl alcohol	--	--	--	--	--	--	--	--
Semivolatiles (µg/kg)								
Benzoic acid	--	--	--	--	--	--	--	--
Naphthalene	--	--	--	--	--	--	--	--
2-Methylnaphthalene	--	--	--	--	--	--	--	--
Dimethylphthalate	--	--	--	--	--	--	--	--
Acenaphthene	--	--	--	--	--	--	--	--
Dibenzofuran	--	--	--	--	--	--	--	--
Fluorene	--	--	--	--	--	--	--	--
Phenanthrene	650 J	--	--	--	--	--	--	--
Anthracene	--	--	--	--	--	--	--	--
Di-n-Butylphthalate	--	66 J	130 J	--	--	--	--	--
Fluoranthene	1,200 J	--	--	--	--	--	--	--
Pyrene	1,000 J	--	--	--	--	--	--	--
Butylbenzylphthalate	--	--	--	--	--	--	--	--
Benzo(a)anthracene	580 J	--	--	--	--	--	--	--
Chrysene	640 J	--	--	--	--	--	--	--
bis(2-Ethylhexyl)phthalate	670 J	--	--	79 J	--	--	120 J	--
Di-n-octylphthalate	--	--	--	--	--	--	400 J	--

See notes at end of table.

Table 4-4 (Continued)
Organic Analytes Detected in Surface Soil Samples at SWMUs 1, 23, 24, 25, 44, and 45

RCRA Facility Investigation, Group III SWMUs
U.S. Naval Station
Mayport, Florida

Analytical Batch Number:	M8985	M8793	M8793	M8793	M8793	M8793	M8793	M8793
Sample Location:	MPT-24-MW01S	MPT-25-SS01	MPT-25-SS02	MPT-25-SS03	MPT-25-SS04	MPT-25-SS04	MPT-25-SS05	MPT-25-SS06
Sample Number:	24S00701DUP	25S00101	25S00201	25S00301	25S00401	25S00401DUP	25S00501	25S00601
Date Sampled:	19-MAY-95	10-APR-95	10-APR-95	10-APR-95	10-APR-95	10-APR-95	10-APR-95	10-APR-95
Sample Depth (ft bls):	0 to 1	0 to 1	0 to 1	0 to 1	0 to 1	0 to 1	0 to 1	0 to 1
Semivolatiles (µg/kg)								
Benzo(b)fluoranthene	520 J	--	--	--	--	--	--	--
Benzo(k)fluoranthene	570 J	--	--	--	--	--	--	--
Benzo(a)pyrene	510 J	--	--	--	--	--	--	--
Indeno (1,2,3-cd) pyrene	350 J	--	--	--	--	--	--	--
Dibenz(a,h)anthracene	--	--	--	--	--	--	--	--
Benzo(g,h,i)perylene	330 J	--	--	--	--	--	--	--
Acetophenone	--	--	--	--	--	--	--	--
Pesticides/PCBs (µg/kg)								
beta-BHC	--	--	--	--	--	--	--	--
Aldrin	--	--	--	--	0.81 J	1.6	2.7	--
Heptachlor epoxide	--	--	--	--	--	--	--	--
Dieldrin	--	--	--	6.2	--	--	--	2.3 J
4,4'-DDE	--	--	--	--	--	--	--	--
Endrin	--	--	--	--	--	--	--	--
Endosulfan II	--	--	--	--	--	--	--	--
4,4'-DDD	--	--	--	--	--	--	--	--
4,4'-DDT	--	--	--	--	--	--	--	--
Methoxychlor	--	--	--	--	--	--	--	--
Endrin aldehyde	--	--	--	--	--	--	--	--
Endrin ketone	--	--	--	--	--	--	--	--
Chlordane	270	24	--	--	--	15	--	24 J
Isodrin	--	--	--	--	--	--	--	--
Aroclor-1254	--	--	--	--	--	--	--	--
Aroclor-1260	--	--	--	--	--	--	--	--

See notes at end of table.

Table 4-4 (Continued)
Organic Analytes Detected in Surface Soil Samples at SWMUs 1, 23, 24, 25, 44, and 45

RCRA Facility Investigation, Group III SWMUs
U.S. Naval Station
Mayport, Florida

Analytical Batch Number:	M8793	M8793	M8793	R9738	R9738	R9738	R9738	R9738
Sample Location:	MPT-25-SS07	MPT-25-SS08	MPT-25-SS09	MPT-44-SS01	MPT-44-SS01	MPT-44-SS02	MPT-44-SS03	MPT-44-SS04
Sample Number:	25S00701	25S00801	25S00901	44S00101	44S00101DUP	44S00201	44S00301	44S00401
Date Sampled:	10-APR-95	10-APR-95	10-APR-95	05-APR-95	05-APR-95	05-APR-95	05-APR-95	05-APR-95
Sample Depth (ft bls):	0 to 1	0 to 1	0 to 1	0 to 1	0 to 1	0 to 1	0 to 1	0 to 1
Volatiles (µg/kg)								
Carbon disulfide	1 J	3 J	4 J	--	--	--	--	--
2-Butanone	--	4 J	--	--	--	--	--	--
Benzene	--	--	--	--	--	--	--	--
Toluene	2 J	8	4 J	--	--	--	--	--
Ethylbenzene	--	--	--	--	--	--	--	--
Xylenes (total)	5 J	18	4 J	--	--	--	--	--
Trichlorofluoromethane	--	--	--	2 J	2 J	--	--	2 J
Isobutyl alcohol	--	--	--	--	91 J	--	--	--
Semivolatiles (µg/kg)								
Benzoic acid	--	--	--	--	--	--	--	--
Naphthalene	--	--	--	--	93 J	--	--	--
2-Methylnaphthalene	--	--	--	240 J	340 J	--	--	--
Dimethylphthalate	--	--	--	--	--	--	--	--
Acenaphthene	--	--	--	--	--	--	--	--
Dibenzofuran	--	--	--	--	--	--	--	--
Fluorene	--	--	--	--	130 J	--	--	--
Phenanthrene	--	--	--	750	1,100	--	--	--
Anthracene	--	--	--	300 J	270 J	--	--	--
Di-n-Butylphthalate	--	--	--	--	--	--	--	--
Fluoranthene	--	--	--	1,400	1,300	--	--	--
Pyrene	--	--	--	1,300	1,300	--	--	--
Butylbenzylphthalate	--	--	--	--	--	--	--	--
Benzo(a)anthracene	--	--	--	630 J	520 J	--	--	--
Chrysene	--	--	--	670 J	590 J	--	--	--
bis(2-Ethylhexyl) phthalate	27 J	63 J	--	--	--	--	--	--
Di-n-octylphthalate	--	--	--	--	--	--	--	--

See notes at end of table.

Table 4-4 (Continued)
Organic Analytes Detected in Surface Soil Samples at SWMUs 1, 23, 24, 25, 44, and 45

RCRA Facility Investigation, Group III SWMUs
U.S. Naval Station
Mayport, Florida

Analytical Batch Number:	M8793	M8793	M8793	R9738	R9738	R9738	R9738	R9738
Sample Location:	MPT-25-SS07	MPT-25-SS08	MPT-25-SS09	MPT-44-SS01	MPT-44-SS01	MPT-44-SS02	MPT-44-SS03	MPT-44-SS04
Sample Number:	25S00701	25S00801	25S00901	44S00101	44S00101DUP	44S00201	44S00301	44S00401
Date Sampled:	10-APR-95	10-APR-95	10-APR-95	05-APR-95	05-APR-95	05-APR-95	05-APR-95	05-APR-95
Sample Depth (ft bls):	0 to 1	0 to 1	0 to 1	0 to 1	0 to 1	0 to 1	0 to 1	0 to 1
Semivolatiles (µg/kg)								
Benzo(b)fluoranthene	--	--	--	700 J	500 J	--	--	--
Benzo(k)fluoranthene	--	--	--	680 J	640 J	--	--	--
Benzo(a)pyrene	--	--	--	440 J	350 J	--	--	--
Indeno (1,2,3-cd) pyrene	--	--	--	240 J	170 J	--	--	--
Dibenz(a,h)anthracene	--	--	--	100 J	--	--	--	--
Benzo(g,h,i)perylene	--	--	--	320 J	240 J	--	--	--
Acetophenone	--	--	--	--	--	--	--	--
Pesticides/PCBs (µg/kg)								
beta-BHC	--	--	--	--	--	--	--	--
Aldrin	--	--	--	--	--	--	--	--
Heptachlor epoxide	--	--	1.6	24 J	4.2 J	--	--	--
Dieldrin	2,200	4.5 J	--	--	--	--	1.1 J	1.6 J
4,4'-DDE	--	2.5	--	--	--	--	--	2.5
Endrin	--	--	--	40 J	--	--	--	--
Endosulfan II	--	--	--	--	--	--	--	--
4,4'-DDD	--	--	--	--	--	--	--	--
4,4'-DDT	--	--	--	59 J**	65	2.2	--	--
Methoxychlor	--	--	--	--	29 J	--	--	--
Endrin aldehyde	--	--	--	63	--	--	--	--
Endrin ketone	--	--	--	--	14 J	--	--	1.7 J
Chlordane	--	--	38	--	--	--	--	--
Isodrin	--	--	--	--	--	0.87	--	--
Aroclor-1254	--	--	--	--	--	--	--	--
Aroclor-1260	--	--	--	--	--	--	--	--

See notes at end of table.

Table 4-4 (Continued)
Organic Analytes Detected in Surface Soil Samples at SWMUs 1, 23, 24, 25, 44, and 45

RCRA Facility Investigation, Group III SWMUs
U.S. Naval Station
Mayport, Florida

Analytical Batch Number:	R9738	R9738	R9738	R9738	R9955	R9712	R9712	R9712
Sample Location:	MPT-44-SS06	MPT-44-SS07	MPT-44-SS08	MPT-44-SS09	MPT-44-MW03S	MPT-45-SS01	MPT-45-SS01	MPT-45-SS02
Sample Number:	44S00601	44S00701	44S00801	44S00901	44S01001	45S00101	45S00101DUP	45S00201
Date Sampled:	05-APR-95	05-APR-95	05-APR-95	05-APR-95	24-MAY-95	29-MAR-95	29-MAR-95	29-MAR-95
Sample Depth (ft bls):	0 to 1	0 to 1	0 to 1	0 to 1	0 to 1	0 to 1	0 to 1	0 to 1
Volatiles (µg/kg)								
Carbon disulfide	--	--	--	--	--	--	--	--
2-Butanone	--	--	--	--	--	--	--	--
Benzene	--	--	--	--	--	--	--	--
Toluene	--	--	--	--	--	--	--	--
Ethylbenzene	--	--	--	--	--	--	--	--
Xylenes (total)	--	--	--	--	1 J	--	--	--
Trichlorofluoromethane	--	--	--	--	--	--	--	--
Isobutyl alcohol	--	--	--	--	--	--	--	--
Semivolatiles (µg/kg)								
Benzoic acid	--	--	--	--	--	--	--	--
Naphthalene	--	--	--	--	--	--	40 J	--
2-Methylnaphthalene	--	--	--	--	--	--	36 J	--
Dimethylphthalate	--	92 J	--	--	--	--	--	--
Acenaphthene	--	--	--	--	--	110 J	140 J	--
Dibenzofuran	--	--	--	--	--	--	140 J	--
Fluorene	--	--	--	--	--	--	250 J	--
Phenanthrene	--	--	130 J	--	--	730	1,300	--
Anthracene	100 J	--	--	--	--	260 J	190 J	--
Di-n-Butylphthalate	--	--	83 J	--	--	2,300	440	--
Fluoranthene	--	220 J	240 J	--	--	1,100	1,100	--
Pyrene	--	200 J	160 J	75 J	--	910	670	--
Butylbenzylphthalate	--	--	--	--	--	--	88 J	--
Benzo(a)anthracene	--	140 J	140 J	--	--	600	420	--
Chrysene	--	150 J	150 J	--	--	690	520	--
bis(2-Ethylhexyl) phthalate	--	--	--	--	--	350	700	--
Di-n-octylphthalate	--	--	--	--	--	--	--	--

See notes at end of table.

Table 4-4 (Continued)
Organic Analytes Detected in Surface Soil Samples at SWMUs 1, 23, 24, 25, 44, and 45

RCRA Facility Investigation, Group III SWMUs
U.S. Naval Station
Mayport, Florida

Analytical Batch Number:	R9738	R9738	R9738	R9738	R9955	R9712	R9712	R9712
Sample Location:	MPT-44-SS06	MPT-44-SS07	MPT-44-SS08	MPT-44-SS09	MPT-44-MW03S	MPT-45-SS01	MPT-45-SS01	MPT-45-SS02
Sample Number:	44S00601	44S00701	44S00801	44S00901	44S01001	45S00101	45S00101DUP	45S00201
Date Sampled:	05-APR-95	05-APR-95	05-APR-95	05-APR-95	24-MAY-95	29-MAR-95	29-MAR-95	29-MAR-95
Sample Depth (ft bls):	0 to 1	0 to 1	0 to 1	0 to 1	0 to 1	0 to 1	0 to 1	0 to 1
Semivolatiles (µg/kg)								
Benzo(b)fluoranthene	--	240 J	150 J	--	--	470	330 J	--
Benzo(k)fluoranthene	--	230 J	120 J	--	--	560	430	--
Benzo(a)pyrene	--	170 J	--	--	--	460	270 J	--
Indeno (1,2,3-cd) pyrene	--	120 J	--	--	--	230 J	140 J	--
Dibenz(a,h)anthracene	--	--	--	--	--	130 J	87 J	--
Benzo(g,h,i)perylene	--	170 J	--	--	--	230 J	150 J	--
Acetophenone	--	--	--	--	--	--	--	--
Pesticides/PCBs (µg/kg)								
beta-BHC	--	--	--	--	--	--	--	--
Aldrin	--	--	--	--	--	--	--	--
Heptachlor epoxide	--	--	--	--	--	--	--	--
Dieldrin	--	--	3.3	--	--	1	--	--
4,4'-DDE	--	--	2 J	2.5	2.1	11	9.3	9
Endrin	--	--	--	--	--	--	--	--
Endosulfan II	--	--	--	--	--	--	--	--
4,4'-DDD	--	--	--	--	7.5	--	1.4	--
4,4'-DDT	3.5 J	1.5 J	2.7	--	--	5	4.7	5
Methoxychlor	--	--	--	--	--	--	--	--
Endrin aldehyde	--	--	--	--	--	--	--	--
Endrin ketone	1.5	--	--	--	--	--	--	--
Chlordane	--	--	--	--	--	--	--	--
Isodrin	0.76	--	--	--	--	--	--	--
Aroclor-1254	--	--	--	--	--	--	--	--
Aroclor-1260	--	--	--	--	--	--	--	--

See notes at end of table.

Table 4-4 (Continued)
Organic Analytes Detected in Surface Soil Samples at SWMUs 1, 23, 24, 25, 44, and 45

RCRA Facility Investigation, Group III SWMUs
U.S. Naval Station
Mayport, Florida

Analytical Batch Number:	R9712	R9712	R9712	R9712	M8994	R9955	RA082	RA082
Sample Location:	MPT-45-SS03	MPT-45-SS04	MPT-45-SS06	MPT-45-SS07	MPT-45-MW01D	MPT-45-MW02S	MPT-TR-SS02	MPT-TR-SS02
Sample Number:	45S00301	45S00401	45S00601	45S00701	45S00801	45S01001	TRS00101DUP	TRS00201
Date Sampled:	29-MAR-95	29-MAR-95	29-MAR-95	29-MAR-95	21-MAY-95	24-MAY-95	27-JUN-95	27-JUN-95
Sample Depth (ft bls):	0 to 1	0 to 1	0 to 1	0 to 1	0 to 1	0 to 1	0 to 1	0 to 1
Volatiles (µg/kg)								
Carbon disulfide	--	--	--	--	--	2 J	--	--
2-Butanone	--	--	--	--	--	--	--	--
Benzene	--	--	--	--	--	--	--	--
Toluene	--	--	--	--	--	--	--	--
Ethylbenzene	--	--	--	--	--	--	--	--
Xylenes (total)	--	--	--	--	--	2 J	--	--
Trichlorofluoromethane	--	--	--	--	--	--	--	--
Isobutyl alcohol	--	--	--	--	--	--	--	--
Semivolatiles (µg/kg)								
Benzoic acid	--	--	--	--	--	--	--	--
Naphthalene	--	--	--	--	--	--	--	--
2-Methylnaphthalene	--	--	--	--	--	--	--	--
Dimethylphthalate	--	--	--	--	--	--	--	--
Acenaphthene	--	--	--	--	--	--	330 J	--
Dibenzofuran	--	--	--	--	--	--	85 J	--
Fluorene	--	--	--	--	--	--	540 J	--
Phenanthrene	--	110 J	--	--	--	170 J	3,800	--
Anthracene	--	--	--	--	--	--	740	--
Di-n-Butylphthalate	--	400	48 J	--	--	470 J	--	--
Fluoranthene	45 J	150 J	--	100 J	41 J	420 J	10,000	--
Pyrene	41 J	130 J	--	83 J	36 J	410 J	7,600	--
Butylbenzylphthalate	--	--	72 J	--	--	--	--	--
Benzo(a)anthracene	--	77 J	--	71 J	--	200 J	--	--
Chrysene	35 J	110 J	--	80 J	--	260 J	4,600	--
bis(2-Ethylhexyl) phthalate	--	65 J	360 J	52 J	--	--	--	--
Di-n-octylphthalate	--	--	--	--	--	--	--	--

See notes at end of table.

Table 4-4 (Continued)
Organic Analytes Detected in Surface Soil Samples at SWMUs 1, 23, 24, 25, 44, and 45

RCRA Facility Investigation, Group III SWMUs
U.S. Naval Station
Mayport, Florida

Analytical Batch Number:	R9712	R9712	R9712	R9712	M8994	R9955	RA082	RA082
Sample Location:	MPT-45-SS03	MPT-45-SS04	MPT-45-SS06	MPT-45-SS07	MPT-45-MW01D	MPT-45-MW02S	MPT-TR-SS01	MPT-TR-SS02
Sample Number:	45S00301	45S00401	45S00601	45S00701	45S00801	45S01001	TRS00101DUP	TRS00201
Date Sampled:	29-MAR-95	29-MAR-95	29-MAR-95	29-MAR-95	21-MAY-95	24-MAY-95	27-JUN-95	27-JUN-95
Sample Depth (ft bls):	0 to 1	0 to 1	0 to 1	0 to 1	0 to 1	0 to 1	0 to 1	0 to 1
Semivolatiles (µg/kg)								
Benzo(b)fluoranthene	--	130 J	--	75 J	--	310 J	4,300	
Benzo(k)fluoranthene	--	100 J	--	65 J	--	320 J	4,200	
Benzo(a)pyrene	--	85 J	--	60 J	--	250 J	1,700	
Indeno (1,2,3-cd) pyrene	--	55 J	--	39 J	--	--	920	
Dibenz(a,h)anthracene	--	--	--	--	--	--	1,800	
Benzo(g,h,i)perylene	--	58 J	--	42 J	--	--	--	
Acetophenone	--	--	--	--	--	--	--	
Pesticides/PCBs (µg/kg)								
beta-BHC	--	--	--	--	--	2.6 J	--	--
Aldrin	--	--	--	--	--	--	--	--
Heptachlor epoxide	--	--	1.1 J	--	--	--	--	--
Dieldrin	--	1.2	25	--	--	3.9 J	11 J	--
4,4'-DDE	12	5.7	--	--	--	1.8 J	1.4 J	--
Endrin	--	--	--	--	--	--	--	--
Endosulfan II	--	3.3	--	--	--	--	--	--
4,4'-DDD	--	--	--	--	--	--	--	--
4,4'-DDT	5.7 J	4.3	--	--	--	2.5 J	--	--
Methoxychlor	14 J	--	--	--	--	--	--	--
Endrin aldehyde	--	--	--	--	--	--	--	--
Endrin ketone	1.8 J	--	--	--	--	--	--	--
Chlordane	--	--	540	--	--	120 J	1,100	--
Isodrin	--	--	--	--	--	--	--	--
Aroclor-1254	--	--	--	--	--	--	--	--
Aroclor-1260	--	--	320 J	--	--	--	--	--

See notes at end of table.

Table 4-4 (Continued)
Organic Analytes Detected in Surface Soil Samples at SWMUs 1, 23, 24, 25, 44, and 45

RCRA Facility Investigation, Group III SWMUs
U.S. Naval Station
Mayport, Florida

Notes: SWMU = solid waste management unit.
RCRA = Resource Conservation and Recovery Act.
DUP = duplicate.
* = 01S00201 was reextracted and reanalyzed. The reanalysis was recommended for use by the data validators. The original analysis was rejected because of extremely low acid fraction surrogate recoveries.
ft bls = feet below land surface.
µg/kg = microgram per kilogram.
-- = concentration of analyte, if present, was less than the detection limit.
J = estimated value.
PCBs = polychlorinated biphenyls.
4,4'-DDE = dichlorodiphenyldichloroethene.
4,4'-DDD = dichlorodiphenyldichloroethane.
4,4'-DDT = dichlorodiphenyltrichloroethane.
** = 4,4'-DDT was reported from a diluted reanalysis. The original result was above the linear range of the calibration curve.

Table 4-5
Inorganic Analytes Detected in Surface Soil Samples at SWMUs 1, 23, 24, 25, 44, and 45

RCRA Facility Investigation, Group III SWMUs
U.S. Naval Station
Mayport, Florida

Analytical Batch Number:	R9861	R9861	R9861	R9861	R9861	R9861	R9861	R9861
Sample Location:	MPT-1-SB01	MPT-1-SB01	MPT-1-SB02	MPT-1-SB03	MPT-1-SB04	MPT-1-SB05	MPT-1-SB06	MPT-1-SB07
Sample Number:	01S00101	01S00101Dup	01S00201	01S00301	01S00401	01S00501	01S00601	01S00701
Date Sampled:	03-MAY-95	03-MAY-95	03-MAY-95	03-MAY-95	03-MAY-95	03-MAY-95	03-MAY-95	03-MAY-95
Sample Depth (ft, bls):	0 to 1	0 to 1	0 to 1	0 to 1	0 to 1	0 to 1	0 to 1	0 to 1
Inorganics (mg/kg)								
Antimony	3.2 J	4.5 J	1.2 J	3.5 J	2.3 J	.03 J	.02 J	--
Arsenic	1.5 J	1.1 J	.94 J	.96 J	3.4	.87 J	1 J	.92 J
Barium	7.4 J	7.5 J	4.4 J	9.7 J	23 J	11.7 J	7.2 J	13.7 J
Beryllium	.12 J	.08 J	.08 J	--	.65 J	.07 J	.17 J	.13 J
Cadmium	.37 J	.38 J	--	--	1 J	.68 J	--	.3 J
Chromium	9.5	9.6	3.9	2.6	11	6.4	2.4	7.8
Cobalt	--	.97 J	.71 J	--	3.8 J	1.2 J	--	--
Copper	24.2	28.1	--	9.4	84.3	18.3	--	--
Lead	33.7	24.3	4.6	24.1	37.3	86.8	11.6	1.9 J
Mercury	.1	.06 J	--	.04 J	.06 J	.4	.11	.04 J
Nickel	6.8 J	9.4	1.7 J	2.2 J	12.2	5.5 J	3 J	3.1 J
Selenium	--	--	--	--	--	--	--	--
Silver	--	--	--	--	--	--	--	--
Thallium	--	--	--	--	--	--	--	--
Tin	--	--	--	--	--	--	--	--
Vanadium	12	10.3 J	4.3 J	5.1 J	6.6 J	9.6 J	7.6 J	7 J
Zinc	77.2 J	98.9 J	16.6 J	46.1 J	575 J	169 J	28.6 J	10.5 J
Cyanide	.46 J	.15 J	.12 J	.18 J	.18 J	.15 J	.11 J	.09 J

See notes at end of table.

Table 4-5 (Continued)
Inorganic Analytes Detected in Surface Soil Samples at SWMUs 1, 23, 24, 25, 44, and 45

RCRA Facility Investigation, Group III SWMUs
U.S. Naval Station
Mayport, Florida

Analytical Batch Number:	M8994	R9743	R9743	R7943	R9743	R9743	R9743	R9743
Sample Number:	MPT-1-MW01D	MPT-23-SS01	MPT-23-SS02	MPT-23-SS03	MPT-23-SS04	MPT-23-SS05	MPT-23-SS06	MPT-23-SS07
Sample Location:	01S00801	23S00101	23S00201	23S00303	23S00401	23S00501	23S00601	23S00701
Date Sampled:	21-MAY-95	05-APR-95	05-APR-95	05-APR-95	05-APR-95	05-APR-95	05-APR-95	05-APR-95
Sample Depth (ft bls):	0 to 1	0 to 1	0 to 1	0 to 1	0 to 1	0 to 1	0 to 1	0 to 1
Inorganics (mg/kg)								
Antimony	0.77 J	--	--	--	--	--	--	--
Arsenic	0.33 J	0.75 J	1 J	0.7 J	1.1 J	1.3 J	1 J	7.2 J
Barium	3 J	4.2 J	5.8 J	6.6 J	8.1 J	6.7 J	4.1 J	97.6
Beryllium	0.06 J	0.08 J	0.1 J	0.08 J	0.09 J	0.05 J	0.05 J	0.43 J
Cadmium	--	--	0.33 J	--	0.28 J	--	--	--
Chromium	2.5	0.56 J	3.3 J	3 J	4.5 J	1.2 J	1.2 J	8.3 J
Cobalt	--	--	0.78 J	--	--	--	--	1.9 J
Copper	2.2 J	--	--	12.2 J	--	--	--	25.4 J
Lead	4.5	2.4 J	9.5	4 J	16 J	3 J	2.2 J	32.3 J
Mercury	--	--	--	--	--	--	--	--
Nickel	--	1.5 J	1.2 J	5.4 J	3 J	--	--	6 J
Selenium	--	--	--	--	--	--	--	--
Silver	--	--	--	--	--	--	--	--
Thallium	--	--	--	--	--	--	--	0.14 J
Tin	--	--	--	--	2.2 J	--	--	--
Vanadium	2.6 J	3.4 J	3.6 J	2.7 J	4.5 J	2.9 J	2.6 J	12.5
Zinc	11.7	5.7 J	20.2 J	44 J	45.8 J	12 J	12.2 J	53.9 J
Cyanide	--	0.13 J	0.28 J	0.07 J	0.1 J	0.13 J	0.1 J	0.11 J

See notes at end of table.

Table 4-5 (Continued)
Inorganic Analytes Detected in Surface Soil Samples at SWMUs 1, 23, 24, 25, 44, and 45

RCRA Facility Investigation, Group III SWMUs
U.S. Naval Station
Mayport, Florida

Analytical Batch Number:	R9743	R9743	R9743	R9743	R9743	R9743	R9743	R9743
Sample Location:	MPT-23-SS08	MPT-23-SS08	MPT-23-SS09	MPT-23-SS10	MPT-23-SS11	MPT-23-SS12	MPT-23-SS13	MPT-23-SS14
Sample Number:	23S00801	23S00801DUP	23S00901	23S01001	23S01101	23S01201	23S01301	23S01401
Date Sampled:	05-APR-95	05-APR-95	05-APR-95	05-APR-95	07-APR-95	07-APR-95	07-APR-95	07-APR-95
Sample Depth (ft bls):	0 to 1	0 to 1	0 to 1	0 to 1	0 to 1	0 to 1	0 to 1	0 to 1
Inorganics (mg/kg)								
Antimony	--	--	--	14.8 J	--	1.9 J	1.5 J	--
Arsenic	4.5 J	6.9 J	1.1 J	1.8 J	0.79 J	1.3 J	13.9 J	7.7 J
Barium	79.6	78.8	12.2 J	24 J	8.4 J	11.1 J	107	90.7
Beryllium	0.29 J	0.44 J	0.1 J	0.18 J	0.05 J	0.08 J	0.51 J	0.64 J
Cadmium	3 J	2.9 J	0.53 J	1.2 J	0.45 J	0.52 J	1.4 J	0.75 J
Chromium	10.9 J	12.1 J	6.1 J	18.2 J	4.3 J	12.4 J	38.6 J	16.3 J
Cobalt	1.9 J	1.6 J	--	1.2 J	--	--	--	--
Copper	39.4 J	40.5 J	13 J	28.5 J	3.1 J	20.5 J	456 J	38.9 J
Lead	28.9 J	90.5 J	48.4 J	225 J	7.9 J	116 J	82.9 J	37.3 J
Mercury	--	--	0.14	--	--	--	0.04 J	--
Nickel	7.1 J	13.3	3.4 J	8.7	2.1 J	6.4 J	81.3	12.2
Selenium	--	--	--	--	--	--	--	--
Silver	--	--	--	--	--	--	--	--
Thallium	0.14 J	0.19 J	--	--	--	--	--	--
Tin	--	2.6 J	--	3.3 J	--	--	31.9	3.2 J
Vanadium	11.4 J	12.7	4.5 J	7.3 J	4.9 J	4.9 J	16.4	17.9
Zinc	62.3 J	115 J	87.8 J	307 J	17.8 J	254 J	161 J	55.9 J
Cyanide	0.22 J	0.15 J	0.14 J	0.07 J	0.07 J	0.1 J	0.21 J	0.16 J

See notes at end of table.

Table 4-5 (Continued)
Inorganic Analytes Detected in Surface Soil Samples at SWMUs 1, 23, 24, 25, 44, and 45

RCRA Facility Investigation, Group III SWMUs
U.S. Naval Station
Mayport, Florida

Analytical Batch Number:	R9743	R9743	R9743	R9743	R9743	M8775	M8775	M8780
Sample Location:	MPT-23-SS15	MPT-23-SS16	MPT-23-SS17	MPT-23-SS17	MPT-23-SS18	MPT-23-SS19	MPT-23-SS20	MPT-23-SS21
Sample Number:	23S01501	23S01601	23S01701	23S01701DUP	23S01801	23S01901	23S02001	23S02101
Date Sampled:	07-APR-95	07-APR-95	07-APR-95	07-APR-95	07-APR-95	07-APR-95	07-APR-95	08-APR-95
Sample Depth (ft bls):	0 to 1	0 to 1	0 to 1	0 to 1	0 to 1	0 to 1	0 to 1	0 to 1
Inorganics (mg/kg)								
Antimony	2.4 J	2.6 J	--	--	1.2 J	0.73 J	6.9 J	--
Arsenic	1.7 J	1.4 J	0.97 J	1.1 J	0.42 J	0.35 J	3.2	--
Barium	27.9 J	9.9 J	15.3 J	12.8 J	17.4 J	14.2 J	13.9 J	3 J
Beryllium	0.2 J	0.17 J	0.19 J	0.15 J	0.16 J	0.06 J	0.1 J	0.08 J
Cadmium	1.1 J	0.43 J	--	0.34 J	0.62 J	1.3	6.3	--
Chromium	12.2 J	22.3 J	4.8 J	5.7 J	9.3 J	8.2	9.4	10.2
Cobalt	--	--	--	--	--	--	2.6 J	--
Copper	22 J	51.2 J	11.4 J	12.1 J	24.3 J	40.4	2,930	3.1 J
Lead	79.8 J	44.4 J	11.2 J	13.1 J	10.5 J	47	831	7.3
Mercury	--	--	--	--	--	0.27	0.09	--
Nickel	5.1 J	40.7	2.2 J	3.9 J	2.6 J	9.7	55.6	1.7 J
Selenium	--	--	--	--	--	--	--	--
Silver	--	--	--	--	--	--	5.2	--
Thallium	--	0.14 J	--	--	--	--	--	--
Tin	3 J	2.7 J	--	--	3.2 J	10 J	196	--
Vanadium	6.9 J	10.2 J	4.4 J	3.8 J	10.8 J	3.1 J	4.9	7.4
Zinc	354 J	95.6 J	47.1 J	62.1 J	32.7 J	124	5,910	9
Cyanide	0.11 J	0.11 J	--	--	--	--	--	--

See notes at end of table.

Table 4-5 (Continued)
Inorganic Analytes Detected in Surface Soil Samples at SWMUs 1, 23, 24, 25, 44, and 45

RCRA Facility Investigation, Group III SWMUs
U.S. Naval Station
Mayport, Florida

Analytical Batch Number:	M8780	M8780	M8775	M8775	M8775	M8775	M8775	M8775
Sample Location:	MPT-23-SS22	MPT-23-SS23	MPT-23-SS24	MPT-23-SS25	MPT-23-SS26	MPT-23-SS27	MPT-23-SS27	MPT-23-SS28
Sample Number:	23S02201	23S02301	23S02401	23S02501	23S02601	23S02701	23S02701DUP	23S02801
Date Sampled:	08-APR-95	08-APR-95	07-APR-95	07-APR-95	07-APR-95	07-APR-95	07-APR-95	07-APR-95
Sample Depth (ft bls):	0 to 1	0 to 1	0 to 1	0 to 1	0 to 1	0 to 1	0 to 1	0 to 1
Inorganics (mg/kg)								
Antimony	--	--	3.2 J	--	1 J	0.76 J	--	0.99 J
Arsenic	1.7 J	2.5	0.88 J	0.2 J	0.74 J	0.67 J	0.67 J	1.1 J
Barium	8 J	28 J	126	15.3 J	60.4	9.8 J	9.4 J	14 J
Beryllium	0.11 J	0.14 J	1.9	0.14 J	0.88 J	0.19 J	0.2 J	0.24 J
Cadmium	--	2.6	1.5	--	--	--	--	--
Chromium	10	30	28.3	10.9	31.2	7.7	7.9	12.8
Cobalt	--	1.2 J	8.4 J	--	5.1 J	--	--	1.4 J
Copper	2.3 J	236	52.5	15.6	46.3	6.7	4.3 J	10.3
Lead	4.5	136	41.8	16.9	91.9	27.4	17.5	39.6
Mercury	--	0.08	--	--	--	--	--	--
Nickel	2.7 J	37.6	19.3	1.9 J	22.8	2.2 J	4.3 J	9.9
Selenium	--	--	--	--	--	--	--	--
Silver	--	1.5 J	--	--	--	--	--	--
Thallium	--	--	--	--	--	--	--	--
Tin	--	7.9 J	4.5 J	2.4 J	3.6 J	2.5 J	2.3 J	--
Vanadium	11.8	13.2	23.4	4 J	10.7	4.5	5.4	7.1
Zinc	7.3	815	301	91.2	1,080	85.2	92.8	108
Cyanide	--	--	--	--	--	--	--	--

See notes at end of table.

Table 4-5 (Continued)
Inorganic Analytes Detected in Surface Soil Samples at SWMUs 1, 23, 24, 25, 44, and 45

RCRA Facility Investigation, Group III SWMUs
U.S. Naval Station
Mayport, Florida

Analytical Batch Number:	M8994	M8994	M8780	M8780	M8780	M8780	M8780	M8780
Sample Location:	MPT-23-MW07S	MPT-23-MW07S	MPT-24-SS01	MPT-24-SS02	MPT-24-SS03	MPT-24-SS04	MPT-24-SS04	MPT-24-SS05
Sample Number:	23S02901	23S02901DUP	24S00101	24S00201	24S00301	24S00401	24S00401DUP	24S00501
Date Sampled:	20-MAY-95	20-MAY-95	08-APR-95	08-APR-95	08-APR-95	08-APR-95	08-APR-95	08-APR-95
Sample Depth (ft bls):	0 to 1	0 to 1	0 to 1	0 to 1	0 to 1	0 to 1	0 to 1	0 to 1
Inorganics (mg/kg)								
Antimony	6.2	4.9	--	--	--	11.3 J	6.2 J	--
Arsenic	1.1 J	1.8 J	--	1.7 J	--	2 J	2 J	--
Barium	14 J	16.1 J	24.6 J	13.5 J	11 J	17.3 J	42.7	9.8 J
Beryllium	0.34 J	0.43 J	0.47 J	0.12 J	0.13 J	0.14 J	0.21 J	0.11 J
Cadmium	1.1	0.87 J	--	--	--	--	--	--
Chromium	40.4	44	9.4	5.1	4.9	4.4	7.4	9.2
Cobalt	2.3 J	2.8 J	1.8 J	--	--	--	1.2 J	--
Copper	25.4	22.6	63.7	12.1	6.5	78.2	138	28.9
Lead	216	204	34.2	44.5	18	29.3	34.9	19.6
Mercury	--	0.1 J	--	--	--	--	--	--
Nickel	6.5 J	8.5	9.1	2 J	2.3 J	2.1 J	4.2 J	3 J
Selenium	0.41 J	0.38 J	--	--	--	--	--	--
Silver	--	--	--	--	--	0.58 J	0.79 J	--
Thallium	--	--	--	--	--	--	--	--
Tin	--	19.5	13	2.2 J	3.8 J	6.4 J	12.1	1.9 J
Vanadium	10.3 J	11.9	7.9	4 J	5.4	7.4	9.7	5.4
Zinc	445	442	173	58.5	34.5	51.8	117	53.7
Cyanide	--	--	--	1.1 J	--	--	--	--

See notes at end of table.

Table 4-5 (Continued)
Inorganic Analytes Detected in Surface Soil Samples at SWMUs 1, 23, 24, 25, 44, and 45

RCRA Facility Investigation, Group III SWMUs
U.S. Naval Station
Mayport, Florida

Analytical Batch Number:	M8867	M8985	M8985	M8793	M8793	M8793	M8793	M8793
Sample Location:	MPT-24-SS06	MPT-24-MW01S	MPT-24-MW01S	MPT-25-SS01	MPT-25-SS02	MPT-25-SS03	MPT-25-SS04	MPT-25-SS04
Sample Number:	24S00601	24S00701	24S00701DUP	25S00101	25S00201	25S00301	25S00401	25S00401DUP
Date Sampled:	24-APR-95	19-MAY-95	19-MAY-95	10-APR-95	10-APR-95	10-APR-95	10-APR-95	10-APR-95
Sample Depth (ft bls):	0 to 1	0 to 1	0 to 1	0 to 1	0 to 1	0 to 1	0 to 1	0 to 1
Inorganics (mg/kg)								
Antimony	--	--	1.3	0.95 J	--	--	--	--
Arsenic	0.69 J	2.7	2.8	0.96 J	0.93 J	0.79 J	0.53 J	1.1 J
Barium	13 J	95.8	120	14.9 J	19.8 J	8.6 J	6.9 J	10.8 J
Beryllium	0.06 J	1.2	1.3	0.18 J	0.3 J	0.13 J	0.08 J	0.16 J
Cadmium	--	0.93 J	1 J	--	--	--	--	--
Chromium	3.6	37.4	44.1	9.9 J	16 J	5.5 J	3.9 J	3.9 J
Cobalt	--	14	16	1.6 J	--	1.2 J	--	--
Copper	8.2	411	449	23.9 J	10.4 J	7.6 J	8.1 J	10.8 J
Lead	16.6	109	93.1	39.2 J	17.6 J	6.6 J	9.6 J	9.4 J
Mercury	--	0.24 J	0.1 J	--	--	--	--	--
Nickel	--	18.1	20.4	4 J	12.1 J	2.8 J	2.2 J	2.5 J
Selenium	--	0.54 J	0.67 J	--	--	--	--	--
Silver	--	--	--	--	--	--	--	--
Thallium	--	--	--	--	--	--	--	--
Tin	2.6 J	9.2 J	9.6 J	4.3 J	--	--	--	2.4 J
Vanadium	2.6 J	19.6	22.6	4.3 J	16.6 J	5.9 J	3.1 J	4.1 J
Zinc	35.7	1,450	1,430	428 J	63.4 J	25.9 J	21.8 J	33.1 J
Cyanide	--	--	--	--	--	0.13 J	--	1.1 J

See notes at end of table.

Table 4-5 (Continued)
Inorganic Analytes Detected in Surface Soil Samples at SWMUs 1, 23, 24, 25, 44, and 45

RCRA Facility Investigation, Group III SWMUs
U.S. Naval Station
Mayport, Florida

Analytical Batch Number:	M8793	M8793	M8793	M8793	M8793	R9738	R9738	R9738
Sample Location:	MPT-25-SS05	MPT-25-SS06	MPT-25-SS07	MPT-25-SS08	MPT-25-SS09	MPT-44-SS01	MPT-44-SS01	MPT-44-SS02
Sample Number:	25S00501	25S00601	25S00701	25S00801	25S00901	44S00101	44S00101DUP	44S00201
Date Sampled:	10-APR-95	10-APR-95	10-APR-95	10-APR-95	10-APR-95	05-APR-95	05-APR-95	05-APR-95
Sample Depth (ft bls):	0 to 1	0 to 1	0 to 1	0 to 1	0 to 1	0 to 1	0 to 1	0 to 1
Inorganics (mg/kg)								
Antimony	--	0.77 J	--	0.46 J	--	2.5 J	2.8 J	1.9 J
Arsenic	0.6 J	0.61 J	1.3 J	0.75 J	0.92 J	1.3 J	1.4 J	1 J
Barium	14.1 J	9.6 J	9 J	15.9 J	10.5 J	97.2	35.1 J	9.2 J
Beryllium	0.26 J	0.09 J	0.1 J	--	0.1 J	0.11 J	0.08 J	0.11 J
Cadmium	--	--	--	--	--	1.5	1.4	0.7 J
Chromium	11 J	4.7 J	4.1 J	14.2 J	6.6 J	21.8	27.7	9.9
Cobalt	1.4 J	--	--	--	--	--	--	--
Copper	34.4 J	10.1 J	7.2 J	16.9 J	4.1 J	242	292	34.4
Lead	9.8 J	5.6 J	5.8 J	9.5 J	5.9 J	61.6	66.6	59.7
Mercury	--	--	--	--	--	7.9	5.9	0.08
Nickel	4.3 J	--	1.9 J	--	2.6 J	11	11.7	2.7 J
Selenium	0.27 J	--	--	--	--	--	--	--
Silver	--	--	--	5.8 J	--	23.9 J	21.7 J	--
Thallium	--	--	--	--	--	--	--	--
Tin	5.8 J	2.4 J	3 J	--	1.7 J	11.9 J	11.7 J	--
Vanadium	8 J	4.8 J	3.8 J	13.9 J	10.4 J	9 J	8.9 J	4.7 J
Zinc	86.6 J	19 J	24.7 J	31 J	35.3 J	396	386	136
Cyanide	--	--	--	--	--	0.11 J	0.25 J	0.07 J

See notes at end of table.

Table 4-5 (Continued)
Inorganic Analytes Detected in Surface Soil Samples at SWMUs 1, 23, 24, 25, 44, and 45

RCRA Facility Investigation, Group III SWMUs
U.S. Naval Station
Mayport, Florida

Analytical Batch Number:	R9738	R9738	R9738	R9738	R9738	R9738	R9738	R9955
Sample Location:	MPT-44-SS03	MPT-44-SS04	MPT-44-SS05	MPT-44-SS06	MPT-44-SS07	MPT-44-SS08	MPT-44-SS09	MPT-44-MW03S
Sample Number:	44S00301	44S00401	44S00501	44S00601	44S00701	44S00801	44S00901	44S01001
Date Sampled:	05-APR-95	05-APR-95	05-APR-95	05-APR-95	05-APR-95	05-APR-95	05-APR-95	24-MAY-95
Sample Depth (ft bls):	0 to 1	0 to 1	0 to 1	0 to 1	0 to 1	0 to 1	0 to 1	0 to 1
Inorganics (mg/kg)								
Antimony	1.1 J	--	--	1.9 J	1.7 J	2.6 J	--	--
Arsenic	0.68 J	0.8 J	0.7 J	0.61 J	0.79 J	1 J	1.1 J	0.65 J
Barium	11 J	9.1 J	5.8 J	7.8 J	12.5 J	29.1 J	8 J	11.9 J
Beryllium	0.07 J	0.08 J	0.07 J	0.06 J	0.11 J	0.11 J	0.17 J	0.09 J
Cadmium	0.52 J	--	--	0.39 J	0.47 J	0.73 J	2.2	0.44 J
Chromium	5	3.4	2.9	23.6	7.4	8.7	5	2.8
Cobalt	--	--	--	--	--	--	--	0.9 J
Copper	29.8	16.4	10	17.1	26.4	193	13.2	218
Lead	26.7	20.1	13	23.7	60.6	38.4	25.6	5.9
Mercury	0.16	0.12	--	0.07	0.25	0.39	--	0.04 J
Nickel	3.6 J	3.1 J	1.7 J	2.8 J	3.8 J	11.5	2.2 J	45
Selenium	--	--	--	--	--	--	--	--
Silver	0.86 J	0.51 J	--	--	1 J	2.6 J	--	--
Thallium	--	--	--	--	--	--	--	--
Tin	--	--	--	--	--	--	--	5 J
Vanadium	3.5 J	8.5 J	3.8 J	5.8 J	5.7 J	8.4 J	5.9 J	3 J
Zinc	85.2	59.6	36.1	107	98.1	129	983	79.9
Cyanide	0.1 J	0.21 J	0.07 J	0.2 J	0.17 J	0.21 J	0.07 J	0.09 J

See notes at end of table.

Table 4-5 (Continued)
Inorganic Analytes Detected in Surface Soil Samples at SWMUs 1, 23, 24, 25, 44, and 45

RCRA Facility Investigation, Group III SWMUs
U.S. Naval Station
Mayport, Florida

Analytical Batch Number:	R9712	R9712	R9712	R9712	R9712	R9712	R9712
Sample Number:	MPT-45-SS01	MPT-45-SS01	MPT-45-SS02	MPT-45-SS03	MPT-45-SS04	MPT-45-SS05	MPT-45-SS06
Sample Location:	45S00101	45S00101DUP	45S00201	45S00301	45S00401	45S00501	45S00601
Date Sampled:	29-MAR-95	29-MAR-95	29-MAR-95	29-MAR-95	29-MAR-95	29-MAR-95	29-MAR-95
Sample Depth (ft bls):	0 to 1	0 to 1	0 to 1	0 to 1	0 to 1	0 to 1	0 to 1
Inorganics (mg/kg)							
Antimony	--	--	--	--	5.9 J	--	--
Arsenic	0.97 J	0.85 J	1.2 J	1.5 J	2 J	0.28 J	0.99 J
Barium	34.3 J	36.6 J	9.1 J	10.3 J	23.4 J	4.3 J	79.2
Beryllium	0.07 J	0.07 J	0.14 J	0.07 J	0.24 J	0.07 J	0.12 J
Cadmium	1 J	1 J	--	--	0.93 J	--	2.1
Chromium	8	6.7	7.5	3.8	7.4	4	13.5
Cobalt	1.2 J	1.2 J	1 J	0.9 J	1.4 J	0.61 J	1.5 J
Copper	727	777	17.9	28.4	128	5.3	397
Lead	17.9	20.3	23.1	19.6	54.6	3.3	59
Mercury	0.49	0.51	0.1	0.13	0.37	0.05 J	2
Nickel	41.4	38.7	7.5 J	4 J	15.2	1.5 J	20.9
Selenium	--	--	--	--	--	--	0.58 J
Silver	1.3 J	2.1	--	--	1.2 J	--	19.3
Thallium	--	--	--	--	--	0.15 J	--
Tin	5.7 J	9.2 J	--	4.4 J	5.7 J	--	32.6
Vanadium	4.4 J	4.5 J	10.3 J	12	17.7	3.8 J	5 J
Zinc	131	151	45	71.1	177	4.7	277
Cyanide	0.12 J	0.18 J	0.12 J	0.05 J	0.15 J	0.06 J	0.2 J

See notes at end of table.

Table 4-5 (Continued)
Inorganic Analytes Detected in Surface Soil Samples at SWMUs 1, 23, 24, 25, 44, and 45

RCRA Facility Investigation, Group III SWMUs
U.S. Naval Station
Mayport, Florida

Analytical Batch Number:	R9712	M8994	R9955	RA082	RA082	RA082
Sample Location:	MPT-45-SS07	MPT-45-MW01D	MPT-45-MW02S	MPT-TR-SS01	MPT-TR-SS01	MPT-TR-SS02
Sample Number:	45S00701	45S00801	45S01001	TRS00101	TRS00101DUP	TRS00201
Date Sampled:	29-MAR-95	21-MAY-95	24-MAY-95	27-JUN-95	27-JUN-95	27-JUN-95
Sample Depth (ft bls):	0 to 1	0 to 1	0 to 1	0 to 1	0 to 1	0 to 1
Inorganics (mg/kg)						
Antimony	--	0.75 J	2.6 J	--	--	--
Arsenic	1.7 J	0.62 J	1.5 J	0.75 J	0.54 J	0.51 J
Barium	13.1 J	5.4 J	56.7	4.7 J	4.7 J	5.4 J
Beryllium	0.11 J	0.07 J	0.18 J	0.08 J	0.08 J	--
Cadmium	--	--	1.6	--	--	--
Chromium	3.7	3.1	19.5	0.71 J	1.4 J	1.7 J
Cobalt	--	--	1.4 J	0.72 J	--	--
Copper	53.6	5.4	337	--	1.8 J	3.2 J
Lead	5.9	5.4	67	4.0	3.7 J	3.8
Mercury	0.09	--	0.41	--	--	--
Nickel	4 J	3 J	16.4	--		--
Selenium	0.14 J	--	0.27 J	--	--	--
Silver	0.85 J	--	5.8	--	--	--
Thallium	0.12 J	--	0.13 J	--	--	--
Tin	3.3 J	--	18	--	--	--
Vanadium	3.8 J	4.1 J	6.9 J	2.7 J	3.2 J	1.5 J
Zinc	25.4	23.8	258	4.9	6.6	7.1
Cyanide	0.15 J	--	0.12 J	0.1 J	--	0.14 J

Notes: SWMU = solid waste management unit.
RCRA = Resource Conservation and Recovery Act.
ft bls = feet below land surface.
DUP = duplicate.
mg/kg = milligram per kilogram.
-- = concentration of analyte, if present, was less than the detection limit.
J = estimated value.

Table 4-6
Summary of Analytes Detected in Surface Soil Samples at Shipyard Area SWMUs 1, 23, 24, 25, 44, and 45

RCRA Facility Investigation, Group III SWMUs
U.S. Naval Station
Mayport, Florida

Analyte	Frequency of Detection[1]	Minimum Concentration	Maximum Concentration	Mean of Detected Concentrations[3]	Range of Reporting Limits for Nondetects	Sample with Maximum Concentration
Volatiles (µg/kg)						
2-Butanone	5/72	4	10	6	10 - 13	25S00501
Benzene	1/74	1	1	1	5 - 7	01S00401
Carbon disulfide	17/74	1	4	2	5 - 7	23S02301
Ethylbenzene	2/74	[2]4.5	13	9	5 - 7	25S00301
Isobutyl alcohol	1/39	91	91	91	210 - 270	44S00101D
Toluene	19/74	1	22	5	5 - 7	25S00301
Trichlorofluoromethane	2/74	[2]2	[2]2	2	5 - 7	44S00101
Xylenes (total)	28/74	1	81	7	5 - 6	25S00301
Semivolatiles (µg/kg)						
2-Methylnaphthalene	3/74	22	[2]290	139	340 - 1,900	44S00101D
Acenaphthene	2/74	[2]125	[2]337.5	231	340 - 1,900	TRS00101D
Acetophenone	1/74	28	28	28	340 - 1,900	23S02501
Anthracene	7/74	36	[2]542.5	261	340 - 1,900	TRS00101D
Benzo(a)anthracene	18/74	50	[2]2,272.5	322	340 - 1,900	TRS00101D
Benzo(a)pyrene	19/74	24	[2]2,272.5	298	340 - 1,900	TRS00101D
Benzo(b)fluoranthene	21/74	22	[2]2,572.5	321	340 - 1,900	TRS00101D
Benzo(g,h,i)perylene	16/74	37	[2]1,072.5	218	340 - 1,900	TRS00101D
Benzo(k)fluoranthene	23/74	19	[2]2,322.5	303	340 - 1,900	TRS00101D
Benzoic acid	1/74	[2]481	[2]481	481	1,600 - 9,400	24S00401
Dibenz(a,h)anthracene	8/74	[2]44	[2]632.5	228	340 - 1,900	TRS00101D
Butylbenzylphthalate	2/74	72	[2]131.5	102	340 - 1,900	45S00101D
Chrysene	23/74	21	[2]2,472.5	306	340 - 1,900	TRS00101D
Di-n-butylphthalate	20/74	19	[2]1,370	167	340 - 1,900	45S00101
Di-n-octylphthalate	1/74	400	400	400	340 - 1,800	25S00501

See notes at end of table.

Table 4-6 (Continued)
Summary of Analytes Detected in Surface Soil Samples at Shipyard Area SWMUs 1, 23, 24, 25, 44, and 45

RCRA Facility Investigation, Group III SWMUs
U.S. Naval Station
Mayport, Florida

Analyte	Frequency of Detection[1]	Minimum Concentration	Maximum Concentration	Mean of Detected Concentrations[3]	Range of Reporting Limits for Nondetects	Sample with Maximum Concentration
Semivolatiles (µg/kg) (Continued)						
Dibenzofuran	2/74	[2]157.5	[2]215	186	340 - 1,900	45S00101D
Dimethylphthalate	1/74	92	92	92	340 - 1,900	44S00701
Fluoranthene	23/74	28	[2]5,172.5	526	340 - 1,900	TRS00101D
Fluorene	3/74	[2]212.5	[2]292.5	251	340 - 1,900	45S00101D
Indeno (1,2,3-cd) pyrene	16/74	26	[2]1,022.5	190	340 - 1,900	TRS00101D
Naphthalene	5/74	24	880	253	340 - 1,900	23S01201
Phenanthrene	13/74	32	[2]2,072.5	454	340 - 1,900	TRS00101D
Pyrene	25/74	20	[2]3,972.5	417	340 - 1,900	TRS00101D
bis(2-Ethylhexyl)phthalate	16/74	26	[2]655	154	340 - 1,800	45S00101D
Pesticides/PCBs (µg/kg)						
4,4'-DDD	2/74	[2]1.05	7.5	4.3	1.3 - 140	44S01001
4,4'-DDE	23/74	0.93	12	3.98	0.68 - 73	45S00301
4,4'-DDT	17/74	1.5	[2]62	8.2	1.3 - 140	44S00101D
Aldrin	3/74	1.1	2.7	1.67	0.68 - 73	25S00501
Aroclor-1254	4/74	70	[2]335	189	16 - 1,800	23S02901D
Aroclor-1260	10/74	26	380	133	16 - 1,800	23S01601
Chlordane	11/74	[2]11.5	1,100	214	6.8 - 730	TRS00201
Dieldrin	12/74	[2]0.6775	2,200	187.8	0.68 - 7.3	25S00701
Endosulfan II	2/74	3.3	12	7.7	1.3 - 140	23S01401
Endrin	2/74	1.4	[2]20.35	10.9	1.3 - 140	44S00101
Endrin aldehyde	1/74	[2]31.85	[2]31.85	32	1.3 - 140	44S00101
Endrin ketone	5/74	1.5	22	6.9	1.3 - 140	23S00701
Heptachlor epoxide	3/74	1.1	[2]14.1	5.6	0.68 - 73	44S00101
Isodrin	2/74	0.76	0.87	0.82	0.68 - 73	44S00201
Methoxychlor	5/74	2.9	190	45.4	2.7 - 290	23S00701
beta-BHC	1/74	2.6	2.6	2.6	1.3 - 140	45S01001

See notes at end of table.

Table 4-6 (Continued)
Summary of Analytes Detected in Surface Soil Samples at Shipyard Area SWMUs 1, 23, 24, 25, 44, and 45

RCRA Facility Investigation, Group III SWMUs
U.S. Naval Station
Mayport, Florida

Analyte	Frequency of Detection[1]	Minimum Concentration	Maximum Concentration	Mean of Detected Concentrations[3]	Range of Reporting Limits for Nondetects	Sample with Maximum Concentration
Inorganics (mg/kg)						
Antimony	34/68	0.02	14.8	2.58	0.01 - 5.8	23S01001
Arsenic	70/74	0.2	13.9	1.54	0.17 - 0.76	23S01301
Barium	74/74	3	126	22.4	N/A	23S02401
Beryllium	71/74	0.05	1.9	0.21	0.06 - 0.29	23S02401
Cadmium	35/74	[2]0.24	6.3	1.12	0.25 - 5.5	23S02001
Chromium	74/74	0.56	[2]42.2	10.09	N/A	24S00701D
Cobalt	29/74	[2]0.5225	[2]15	2.22	0.55 - 10.4	24S00701D
Copper	66/74	[2]1.15	2,930	115	3.3 - 10.2	23S02001
Cyanide	46/74	0.05	1.1	0.17	0.05 - 0.165	24S00201
Lead	74/74	1.9	831	46.2	N/A	23S02001
Mercury	29/74	0.04	[2]6.9	0.46	0.03 - 0.07	44S00101
Nickel	66/74	1.2	81.3	10.1	1.1 - 11.2	23S01301
Selenium	6/74	0.14	[2]0.605	0.38	0.1 - 0.575	24S00701D
Silver	14/74	0.51	[2]22.8	4.99	0.29 - 5	44S00101
Thallium	6/74	0.12	[2]0.165	0.14	0.12 - 0.48	23S00801D
Tin	37/74	[2]1.675	196	11.8	1.7 - 16.8	23S02001
Vanadium	74/74	1.5	23.4	7.4	N/A	23S02401
Zinc	74/74	4.7	5,910	235	N/A	23S02001

[1] Frequency of detection is the number of samples in which the analyte was detected, divided by the total number of samples analyzed (excluding rejected samples).
[2] Indicates the value is the average of a sample concentration and its duplicate. For nondetected values, 1/2 the contract-required quantitation limits/contract-required detection limit is used as a surrogate.
[3] The mean of detected concentrations is the arithmetic mean of all samples in which the analyte was detected. It does not include those samples in which the analyte was not detected.

Notes: SWMUs = solid waste management units.
RCRA = Resource Conservation and Recovery Act.
µg/kg = micrograms per kilogram.
mg/kg = milligram per kilogram.
PCBs = polychlorinated biphenyls.
4,4'-DDT = dichlorodiphenyltrichloroethane.
4,4'-DDE = dichlorodiphenyldichloroethene.
4,4'-DDD = dichlorodiphenyldichloroethane.
N/A - not applicable.
DUP = duplicate.

SWMU 25. The pesticide, dieldrin, was detected in surface soil sample MPT-25-SS07 in the southern part of the SWMU at a concentration that exceeded the FDEP industrial soil cleanup goal. Dieldrin was detected in three other samples (MPT-25-SS03, MPT-25-SS06, and MPT-25-SS08) at concentrations less than the USEPA Region III and FDEP residential benchmarks.

SWMU 44. Two SVOCs were detected at concentrations exceeding the USEPA Region III and FDEP residential benchmarks in surface soil samples collected at SWMU 44. One sample, MPT-44-SS01, was located at the east side of the northern clarifier, and the other, MPT-44-SS07, was located 80 feet to the northwest of the northern clarifier. Benzo(a)pyrene and dibenz(a,h)anthracene were detected at concentrations exceeding their respective residential benchmarks in sample MPT-44-SS01, and only benzo(a)pyrene was detected at a concentration exceeding the residential benchmark in sample MPT-44-SS07.

SWMU 45. Two SVOCs, a pesticide and a PCB, were detected at concentrations that exceed the residential benchmarks in surface soil samples collected at SWMU 45. The SVOCs, benzo(a)pyrene and dibenz(a,h)anthracene, were detected at concentrations that exceeded USEPA Region III RBCs and FDEP soil cleanup goals in a surface soil sample (MPT-45-SS01) located between the two sludge drying beds. Benzo(a)pyrene was also detected at concentrations exceeding the residential benchmark in the surface soil sample collected at monitoring well location MPT-45-MW02S, approximately 40 feet north of the sludge drying beds (Plate 3). Benzo(a)pyrene and dibenz(a,h)anthracene were not detected in these two samples at concentrations that exceed their respective FDEP industrial soil cleanup goal.

A pesticide (chlordane) and PCB (Aroclor-1260) were detected at concentrations exceeding the USEPA Region III RBCs in a sample (MPT-45-SS06) collected at the northern end of the northernmost sludge drying bed. The FDEP residential and industrial soil cleanup goals were not exceeded.

4.2.2.2 **Inorganics** Eighteen inorganic analytes were detected in surface soil samples (Table 4-5). Antimony, arsenic, cobalt, cyanide, lead, mercury, nickel, silver, and tin were detected in the environmental samples collected from the Shipyard Area, but not in the background surface soil samples. Seven other inorganic analytes (barium, beryllium, cadmium, chromium, copper, vanadium, and zinc) were detected at concentrations that exceed background screening concentrations (Table 4-7).

Nine of the inorganic analytes (antimony, arsenic, beryllium, cadmium, chromium, copper, lead, mercury, and zinc) were detected at concentrations that exceed either the USEPA Region III RBC or FDEP Soil Cleanup Goal benchmarks (Table 4-7). Five of the inorganic analytes (antimony, cadmium, chromium, mercury, and zinc) exceeded the USEPA Region III RBC but not their respective FDEP soil cleanup goals.

Arsenic and beryllium were detected at a higher frequency of occurrence at concentrations exceeding the benchmarks relative to the other inorganic analytes. Arsenic was detected at concentrations exceeding the USEPA Region III RBC and FDEP soil cleanup goal in the majority of the soil samples collected at the Shipyard Area. The highest concentrations of arsenic, which also exceed the FDEP industrial soil cleanup goal of 3.7 mg/kg, were detected at sampling locations in SWMUs 1 and 23. The following describes the locations where surface soil samples contained arsenic at concentrations that approach or exceed the FDEP

4.2.3 **Subsurface Soil Assessment** The subsurface soil analytical results are described as a group, the Shipyard Area, SWMUs 1, 23, 24, 25, 44, and 45. Twenty-one subsurface soil samples and one duplicate were collected from the Shipyard Area (Plate 3). Tables 4-8 and 4-9 present concentrations of the chemicals detected in the subsurface soil samples, and Table 4-10 lists statistics for each analyte detected. Table 4-11 compares detected concentrations of target analytes with background screening values and benchmarks. Subsurface soil analytical results are compared to background screening values for subsurface soil (ABB-ES, 1995a) and residential use benchmarks values from USEPA Region III risk-based concentrations (USEPA, 1995a) and industrial worker concentrations for Florida soil cleanup goals (FDEP, 1995a; 1995b; and 1996).

4.2.3.1 **Organics** Target analytes detected in the subsurface soil samples consist of three VOCs, one SVOC, and two pesticides (Table 4-8). None of the organics were detected at concentrations that exceed benchmarks (Table 4-11).

4.2.3.2 **Inorganics** Sixteen inorganic analytes were detected in subsurface soil samples (Table 4-9). Ten inorganic analytes (arsenic, barium, beryllium, chromium, copper, lead, mercury, tin, vanadium, and zinc) were detected at concentrations that exceed background screening concentrations (Table 4-11). Antimony, cadmium, nickel, and selenium were detected in the environmental samples collected from the Shipyard Area, but not in the subsurface background samples. None of the inorganic analytes were detected at concentrations that exceed benchmark concentrations (Table 4-11).

4.2.4 **SWMU 45 Sludge Assessment** Sixteen sludge samples and two duplicates were collected from SWMU 45 (Plate 3). Tables 4-12 and 4-13 present concentrations of the chemicals detected in the sludge samples, and Table 4-14 lists statistics for each analyte detected. Table 4-15 compares detected concentrations of target analytes with background screening values and benchmarks. Composite sludge sample analytical results are compared to background screening values for subsurface soils (ABB-ES, 1995a) and residential use benchmarks values from USEPA Region III risk-based concentrations (USEPA, 1995a) and Florida soil cleanup goals (FDEP, 1995a; 1995b; and 1996).

4.2.4.1 **Organics** Target analytes detected in the sludge samples consist of 3 VOCs, 16 SVOCs, and 7 pesticides (Table 4-12). PCBs were not detected in the sludge samples. None of the VOCs or pesticides were detected at concentrations that exceed benchmarks. Only one SVOC, benzo(a)pyrene, was detected at concentrations that exceed residential human health-based benchmarks (Table 4-15). Benzo(a)pyrene was detected in samples collected from 0 to 1 foot bls at concentrations exceeding the USEPA Region III RBC in two samples (MPT-45-SL01 and MPT-45-SL02) and the FDEP residential soil cleanup goal in one sample, MPT-45-SL02. This frequency of occurrence for benzo(a)pyrene, exceeding the FDEP residential soil cleanup goal, is based on an average concentration for sludge sample MPT-45-SL01 which has a corresponding duplicate. The sample designated as 45L001001 contained benzo(a)pyrene at 100 µg/kg. It also should be noted that the concentrations detected for benzo(a)pyrene did not exceed the FDEP industrial soil cleanup goal of 500 µg/kg, and that benzo(a)pyrene was not detected in the samples collected at 1 to 2 feet bls.

4.2.4.2 **Inorganics** Seventeen inorganic analytes were detected in sludge samples (Table 4-13). Four inorganic analytes (barium, chromium, copper, and zinc) were detected at concentrations that exceed background screening concen-

Table 4-9
Inorganic Analytes Detected in Subsurface Soil Samples at SWMUs 1, 23, 24, 25, 44, and 45

RCRA Facility Investigation, Group III SWMUs
U.S. Naval Station
Mayport, Florida

Analytical Batch Number:	R9861	R9861	R9861	R9861	R9861	R9861	R9861	R9861
Sample Location:	MPT-1-SB01	MPT-1-SB02	MPT-1-SB03	MPT-1-SB04	MPT-1-SB05	MPT-1-SB06	MPT-1-SB06	MPT-1-SB07
Sample Number:	01B00109	01B00208	01B00308	01B00409	01B00508	01B00608	01B00608DUP	01B00708
Date Sampled:	03-MAY-95	03-MAY-95	03-MAY-95	03-MAY-95	03-MAY-95	03-MAY-95	03-MAY-95	03-MAY-95
Sample Depth (ft bls):	8 to 9	7 to 8	7 to 8	8 to 9	7 to 8	7 to 8	7 to 8	7 to 8
Inorganics (mg/kg)								
Antimony	--	--	--	--	0.01 J	--	--	--
Arsenic	1.3 J	0.52 J	0.51 J	0.59 J	0.93 J	0.56 J	0.59 J	0.76 J
Barium	3.9 J	2.3 J	3.9 J	2.4 J	7.7 J	3.9 J	3 J	3.5 J
Beryllium	0.1 J	0.07 J	--	--	0.12 J	--	--	0.09 J
Cadmium	--	--	--	--	--	--	--	--
Chromium	2.6	1.7 J	1.1 J	2 J	1.7 J	2 J	1.5 J	1.8 J
Cobalt	--	--	--	--	--	--	--	0.66 J
Copper	--	--	--	--	--	--	--	--
Lead	0.65 J	0.61 J	0.19 J	1 J	16.2	0.54 J	0.43 J	0.34 J
Mercury	--	--	--	--	0.07	0.04 J	--	0.03 J
Nickel	1.5 J	--	--	--	12.1	--	--	--
Selenium	--	--	--	--	--	--	--	--
Tin	--	--	--	--	--	--	--	--
Vanadium	4.2 J	1.7 J	1.6 J	1.2 J	11.2	2 J	2.1 J	2.2 J
Zinc	3.7 J	--	--	5.7 J	59.1 J	--	--	--
Cyanide	0.09 J	0.15 J	0.12 J	0.09 J	0.12 J	0.12 J	0.09 J	0.08 J

See notes at end of table.

Table 4-9 (Continued)
Inorganic Analytes Detected in Subsurface Soil Samples
at SWMUs 1, 23, 24, 25, 44, and 45

RCRA Facility Investigation, Group III SWMUs
U.S. Naval Station
Mayport, Florida

Analytical Batch Number:	M8994	M8985	M8985	M8985	M8994	M8994	M8994
Sample Location:	MPT-1-MW01D	MPT-23-MW05S	MPT-23-MW04S	MPT-23-MW03S	MPT-23-MW06S	MPT-23-MW02S	MPT-23-MW01S
Sample Number:	01B00807	23B00105	23B00406	23B01606	23B02108	23B02407	23B02807
Date Sampled:	21-MAY-95	19-MAY-95	19-MAY-95	19-MAY-95	20-MAY-95	20-MAY-95	20-MAY-95
Sample Depth (ft bls):	6 to 7	4 to 5	5 to 6	5 to 6	7 to 8	6 to 7	6 to 7
Inorganics (mg/kg)							
Antimony	0.63 J	0.55 J	0.48 J	--	0.55 J	--	--
Arsenic	0.59 J	0.74 J	0.5 J	0.57 J	0.6 J	0.62 J	1.2 J
Barium	3.2 J	3.2 J	3.4 J	2.7 J	2.2 J	3.1 J	3 J
Beryllium	--	--	0.04 J	--	0.06 J	0.06 J	0.03 J
Cadmium	--	--	--	0.82 J	--	--	0.68 J
Chromium	1.3 J	2.3 J	3.1	2.3	2 J	2.9	3.4
Cobalt	--	--	--	--	--	--	--
Copper	1.9 J	3.7 J	1.3 J	2.9 J	0.49 J	2.8 J	0.82 J
Lead	1.4	1.7	1.2	1.2	1.8	1.8	1.2
Mercury	--	--	--	--	--	--	--
Nickel	--	--	--	--	--	--	1.7 J
Selenium	0.29 J	0.41 J	0.49 J	0.54 J	--	0.49 J	0.57 J
Tin	--	--	--	--	--	--	--
Vanadium	0.86 J	2.2 J	2 J	1.3 J	1.4 J	1.3 J	1.6 J
Zinc	34	24.1	8.2	9.3	6.9	14.6	36.5
Cyanide	--	--	--	--	--	--	--

See notes at end of table.

Table 4-9 (Continued)
Inorganic Analytes Detected in Subsurface Soil Samples at SWMUs 1, 23, 24, 25, 44, and 45

RCRA Facility Investigation, Group III SWMUs
U.S. Naval Station
Mayport, Florida

Analytical Batch Number:	M8994	M8985	M8985	M8994	R9955	R8994	R9955
Sample Location:	MPT-23-MW07S	MPT-24-MW01S	MPT-44-MW01S	MPT-44-MW02S	MPT-44-MW03S	MPT-45-MW01D	MPT-45-MW02S
Sample Numbers:	23B02908	24B00707	44B00107	44B00908	44B01006	45B00805	45B01005
Date Sampled:	20-MAY-95	19-MAY-95	19-MAY-95	20-MAY-95	24-MAY-95	21-MAY-95	24-MAY-95
Sample Depth (ft bls):	7 to 8	6 to 7	6 to 7	7 to 8	5 to 6	4 to 5	4 to 5
Inorganics (mg/kg)							
Antimony	0.63 J	0.59 J	0.87 J	2.2	--	--	--
Arsenic	0.26 J	0.74 J	0.66 J	0.74 J	0.6 J	0.77 J	0.7 J
Barium	2.1 J	1.7 J	2.7 J	5 J	3.2 J	7.3 J	4.7 J
Beryllium	--	0.22 J	--	--	0.09 J	0.15 J	0.12 J
Cadmium	--	--	--	--	--	0.84 J	--
Chromium	2.9	3.2	2 J	2.8	--	5.3	2.9
Cobalt	--	--	--	--	--	--	--
Copper	0.99 J	22.5	9.1	10.6	--	4.2 J	4.9 J
Lead	1.3	16.9	1.3	42.4	0.69	2.3	1.5
Mercury	--	--	--	--	--	--	--
Nickel	--	3.9 J	2.3 J	2.4 J	--	2.5 J	--
Selenium	--	0.44 J	0.57 J	--	--	--	--
Tin	--	62	--	--	--	3.3 J	--
Vanadium	1 J	1.7 J	3.5 J	1.9 J	1.7 J	5.8 J	2 J
Zinc	10.5	56.6	36.6	17.3	--	23.4	5.2
Cyanide	--	--	--	--	--	--	0.09 J

Notes: SWMU = solid waste management unit.
RCRA = Resource Conservation and Recovery Act.
ft bls = feet below land surface.
mg/kg = milligram per kilogram.
-- = concentration of analyte, if present, was less than the detection limit.
J = estimated value.

Table 4-10
Summary of Analytes Detected in Subsurface Soil at Shipyard Area SWMUs 1, 23, 24, 25, 44, and 45

RCRA Facility Investigation, Group III SWMUs
U.S. Naval Station
Mayport, Florida

Analyte	Frequency of Detection[1]	Minimum Detected Concentration	Maximum Detected Concentration	Mean of Detected Concentrations[3]	Range of Instrument Reporting Limits	Sample with Maximum Concentration
Volatiles (µg/kg)						
2-Butanone	1/21	2	2	2	10 - 12	01B00308
Carbon disulfide	3/21	[2]1.5	2	2	5 - 6	01B00508
Xylenes (total)	4/21	1	4	2	5 - 6	01B00508
Semivolatiles (µg/kg)						
bis(2-Ethylhexyl) phthalate	3/21	45	60	52	350 - 800	24B00707
Pesticides/PCBs (µg/kg)						
4,4'-DDE	1/21	3.3	3.3	3.3	0.71 - 0.85	01B00508
Chlordane	1/21	8.8	8.8	8.8	7.1 - 8.5	24B00707
Inorganics (mg/kg)						
Antimony	9/21	0.01	2.2	0.72	0.01 - 1.2	44B00908
Arsenic	21/21	0.26	1.3	0.69	N/A	01B00109
Barium	21/21	2.1	7.7	3.7	N/A	01B00508
Beryllium	12/21	0.03	0.22	0.1	0.04 - 0.07	24B00707
Cadmium	3/21	0.68	0.84	0.78	0.25 - 0.74	45B00805
Chromium	20/21	1.1	5.3	2.5	1 - 1	45B00805
Cobalt	1/21	0.66	0.66	0.66	0.65 - 0.94	01B00708
Copper	13/21	0.49	22.5	5.09	1.48 - 6.1	24B00707
Cyanide	8/21	0.08	0.15	0.11	0.05 - 0.13	01B00208
Lead	21/21	0.19	42.4	4.58	N/A	44B00908
Mercury	3/21	[2]0.0275	0.07	0.04	0.03 - 0.08	01B00508
Nickel	7/21	1.5	12.1	3.8	1.2 - 1.8	01B00508
Selenium	8/21	0.29	0.57	0.47	0.11 - 0.6	23B02807

See notes at end of table.

Table 4-10 (Continued)
Summary of Analytes Detected in Subsurface Soil at Shipyard Area SWMUs 1, 23, 24, 25, 44, and 45

RCRA Facility Investigation, Group III SWMUs
U.S. Naval Station
Mayport, Florida

Analyte	Frequency of Detection[1]	Minimum Detected Concentration	Maximum Detected Concentration	Mean of Detected Concentrations[3]	Range of Instrument Reporting Limits	Sample with Maximum Concentration
Inorganics (mg/kg) (Continued)						
Tin	2/21	3.3	62	32.7	1.9 - 5.6	24B00707
Vanadium	21/21	0.86	11.2	2.5	N/A	01B00508
Zinc	16/21	3.7	59.1	22	2.5 - 2.8	01B00508

[1] Frequency of detection is the number of samples in which the analyte was detected, divided by the total number of samples analyzed (excluding rejected samples).
[2] An asterisk indicates the value is the average of a sample concentration and its duplicate. For nondetected values, 1/2 the contract-required quantitation limits/contract-required detection limit is used as a surrogate.
[3] The mean of detected concentrations is the arithmetic mean of all samples in which the analyte was detected. It does not include those samples in which the analyte was not detected.

Notes: SWMUs = solid waste management units.
RCRA = Resource Conservation and Recovery Act.
µg/kg = micrograms per kilogram.
PCBs = polychlorinated biphenyls.
4,4'-DDE = dichlorodiphenyldichloroethene.
mg/kg = milligram per kilogram.
NA = not applicable.

Table 4-12
Organic Analytes Detected in Sludge Samples at SWMU 45

RCRA Facility Investigation, Group III SWMUs
U.S. Naval Station
Mayport, Florida

Analytical Batch Number:	R9703	R9703	R9703	R9703	R9703	R9703	R9703
Sample Location:	MPT-45-SL01	MPT-45-SL01	MPT-45-SL01	MPT-45-SL02	MPT-45-SL02	MPT-45-SL04	MPT-45-SL05
Sample Number:	45L00101	45L00101DUP	45L00102	45L00201	45L00202	45L00401	45L00501
Date Collected:	28-MAR-95	28-MAR-95	28-MAR-95	28-MAR-95	28-MAR-95	28-MAR-95	28-MAR-95
Sample Depth (ft bls):	0 to 1	0 to 1	1 to 2	0 to 1	1 to 2	0 to 1	0 to 1
Volatiles (µg/kg)							
Carbon disulfide	--	--	1 J	--	--	--	--
Xylenes (total)	3 J	1 J	--	--	2 J	1 J	--
Trichlorofluoromethane	--	--	--	--	--	--	5 J
Semivolatiles (µg/kg)							
Phenol	--	--	--	--	--	--	340 J
Benzyl Alcohol	--	--	--	--	--	--	300 J
Phenanthrene	81 J	89 J	--	130 J	--	--	--
Anthracene	--	--	--	--	--	--	--
Di-n-Butylphthalate	160 J	91 J	--	230 J	--	--	1,500
Fluoranthene	180 J	150 J	--	340 J	--	--	--
Pyrene	170 J	150 J	--	320 J	--	--	--
Butylbenzylphthalate	--	--	--	--	--	--	110 J
Benzo(a)anthracene	120 J	98 J	--	260 J	--	--	--
Chrysene	140 J	130 J	--	280 J	--	--	--
bis(2-Ethylhexyl) phthalate	--	--	--	--	--	--	2,800
Benzo(b)fluoranthene	92 J	120 J	--	290 J	--	--	--
Benzo(k)fluoranthene	150 J	130 J	--	330 J	--	--	--
Benzo(a)pyrene	100 J	99 J	--	250 J	--	--	--
Indeno (1,2,3-cd) pyrene	79 J	84 J	--	180 J	--	--	--
Benzo(g,h,i)perylene	96 J	110 J	--	190 J	--	--	--
Pesticides/PCBs (µg/kg)							
Aldrin	--	--	--	--	--	--	--
Dieldrin	--	0.79 J	--	0.8	--	--	3.8 J
4,4'-DDE	--	--	--	--	--	--	--
4,4'-DDD	--	1.4 J	--	--	--	--	--
Endrin	--	--	--	--	--	--	--
Endrin ketone	--	--	--	--	--	--	--
Isodrin	--	--	--	0.74 J	--	--	1.2 J

See notes at end of table.

Table 4-12 (Continued)
Organic Analytes Detected in Sludge Samples at SWMU 45

RCRA Facility Investigation, Group III SWMUs
U.S. Naval Station
Mayport, Florida

Analytical Batch Number:	R9703	R9703	R9703	R9703	R9703	R9703	R9703
Sample Location:	MPT-45-SL05	MPT-45-SL06	MPT-45-SL06	MPT-45-SL07	MPT-45-SL07	MPT-45-SL08	MPT-45-SL08
Sample Number:	45L00502	45L00601	45L00602	45L00701	45L00702	45L00801	45L00802
Date Sampled:	28-MAR-95	28-MAR-95	28-MAR-95	28-MAR-95	28-MAR-95	28-MAR-95	28-MAR-95
Sample Depth (ft bls):	1 to 2	0 to 1	1 to 2	0 to 1	1 to 2	0 to 1	1 to 2
Volatiles (µg/kg)							
Carbon disulfide	--	--	--	--	--	--	--
Xylenes (total)	--	--	--	3 J	--	--	1 J
Trichlorofluoromethane	--	--	--	--	--	--	--
Semivolatiles (µg/kg)							
Phenol	--	--	--	--	--	220 J	--
Benzyl Alcohol	--	--	--	210 J	--	--	--
Phenanthrene	--	--	--	--	--	--	--
Anthracene	--	91 J	--	--	--	--	--
Di-n-Butylphthalate	670 J	890 J	930 J	260 J	320 J	170 J	73 J
Fluoranthene	--	--	--	--	--	--	--
Pyrene	--	--	--	--	--	--	--
Butylbenzylphthalate	--	--	120 J	--	--	--	--
Benzo(a)anthracene	--	--	--	--	--	--	--
Chrysene	--	--	--	--	--	--	--
bis(2-Ethylhexyl) phthalate	--	--	--	--	--	--	--
Benzo(b)fluoranthene	--	--	--	--	--	--	--
Benzo(k)fluoranthene	--	--	--	--	--	--	--
Benzo(a)pyrene	--	--	--	--	--	--	--
Indeno (1,2,3-cd) pyrene	--	--	--	--	--	--	--
Benzo(g,h,i)perylene	--	--	--	--	--	--	--

See notes at end of table.

Table 4-12 (Continued)
Organic Analytes Detected in Sludge Samples at SWMU 45

RCRA Facility Investigation, Group III SWMUs
U.S. Naval Station
Mayport, Florida

Analytical Batch Number:	R9703	R9703	R9703	R9703	R9703	R9703	R9703
Sample Location:	MPT-45-SL05	MPT-45-SL06	MPT-45-SL06	MPT-45-SL07	MPT-45-SL07	MPT-45-SL08	MPT-45-SL08
Sample Number:	45L00502	45L00601	45L00602	45L00701	45L00702	45L00801	45L00802
Date Sampled:	28-MAR-95	28-MAR-95	28-MAR-95	28-MAR-95	28-MAR-95	28-MAR-95	28-MAR-95
Sample Depth (ft bls):	1 to 2	0 to 1	1 to 2	0 to 1	1 to 2	0 to 1	1 to 2
Pesticides/PCBs (µg/kg)							
Aldrin	--	2.6 J	--	--	--	--	--
Dieldrin	1.5 J	3.7 J	2 J	1.5 J	1 J	0.92 J	--
4,4'-DDE	--	--	1.2 J	0.78 J	--	--	--
4,4'-DDD	--	--	--	--	--	--	--
Endrin	--	--	1.5 J	--	--	--	--
Endrin ketone	--	1.7 J	1.8 J	--	--	--	--
Isodrin	--	--	--	--	--	--	--

Notes: SWMU = solid waste management unit.
RCRA = Resource Conservation and Recovery Act.
DUP = duplicate.
ft bls = feet below land surface.
µg/kg = microgram per kilogram.
-- = concentration of analyte, if present, was less than the detection limit.
J = estimated value.
PCB = polychlorinated biphenyls.
4,4'-DDE = dichlorodiphenyldichloroethene.
4,4'-DDD = dichlorodiphenyldichloroethane.

Table 4-13
Inorganic Analytes Detected in Sludge Samples at SWMU 45

RCRA Facility Investigation, Group III SWMUs
U.S. Naval Station
Mayport, Florida

Analytical Batch Number:	R9703	R9703	R9703	R9703	R9703	R9703
Sample Location:	MPT-45-SL01	MPT-45-SL01	MPT-45-SL01	MPT-45-SL01	MPT-45-SL02	MPT-45-SL02
Sample Number:	45L00101	45L00101DUP	45L00102	45L00102DUP	45L00201	45L00202
Date Sampled:	28-MAR-95	28-MAR-95	28-MAR-95	28-MAR-95	28-MAR-95	28-MAR-95
Sampled Depth (ft bls):	0 to 1	0 to 1	1 to 2	1 to 2	0 to 1	1 to 2
Inorganics (mg/kg)						
Antimony	--	1.6 J	--	--	--	--
Arsenic	0.5 J	0.46 J	0.83 J	0.7 J	0.31 J	0.95 J
Barium	14.5 J	28.3 J	8.8 J	8.4 J	10.9 J	6.5 J
Beryllium	--	--	0.05 J	--	--	--
Cadmium	0.57 J	0.63 J	0.52 J	0.64 J	0.41 J	0.29 J
Chromium	3.2	4.2	1.9 J	2.1	2.5	1.4 J
Cobalt	--	--	--	--	--	--
Copper	297	443	116	106	117	53.3
Lead	9.8 J	8.3 J	3.7 J	3.3 J	7.8 J	8.2 J
Mercury	0.19	0.22	0.05 J	0.04 J	0.09	0.08
Nickel	11.7	13.8	12	11.5	6 J	5 J
Selenium	--	0.14 J	--	--	--	--
Silver	1.1 J	1.5 J	--	--	0.79 J	--
Tin	6.1 J	10.3 J	4.1 J	2.5 J	4.8 J	3.1 J
Vanadium	1.2 J	1.2 J	1.7 J	1.9 J	0.82 J	1.4 J
Zinc	58.2	80.6	89.8	72.9	35.5	19.3
Cyanide	0.21 J	0.5 J	0.18 J	0.4 J	0.21 J	0.18 J

Notes: See notes at end of table.

Table 4-13 (Continued)
Inorganic Analytes Detected in Sludge Samples at SWMU 45

RCRA Facility Investigation, Group III SWMUs
U.S. Naval Station
Mayport, Florida

Analytical Batch Number:	R9703	R9703	R9703	R9703	R9703	R9703
Sample Location:	MPT-45-SL03	MPT-45-SL03	MPT-45-SL04	MPT-45-SL04	MPT-45-SL05	MPT-45-SL05
Sample Number:	45L00301	45L00302	45L00401	45L00402	45L00501	45L00502
Date Sampled:	28-MAR-95	28-MAR-95	28-MAR-95	28-MAR-95	28-MAR-95	28-MAR-95
Sampled Depth (ft bls):	0 to 1	1 to 2	0 to 1	1 to 2	0 to 1	1 to 2
Inorganics (mg/kg)						
Antimony	2 J	--	--	--	5 J	2.4 J
Arsenic	0.53 J	0.99 J	0.51 J	0.43 J	1.2 J	0.77 J
Barium	20.7 J	11.9 J	13.7 J	11.9 J	118	54.2
Beryllium	--	--	0.05 J	--	--	--
Cadmium	0.47 J	0.44 J	0.4 J	--	1.9	1.1 J
Chromium	2.5	2.3	2.5	4.8	16.5	6.8
Cobalt	--	--	--	--	--	--
Copper	190	115	101	70.4	939	422
Lead	9 J	7.1 J	5.6 J	3.6 J	27.4 J	19.1 J
Mercury	0.22	0.12	0.14	0.08	1.1	0.64
Nickel	11	9.2	7 J	5.6 J	41.6	20.1
Selenium	--	--	--	--	0.92 J	0.5 J
Silver	1.9 J	1.1 J	1.9 J	0.85	6.3	3.3
Tin	4.9 J	4.2 J	4.5 J	--	25.3	13.5 J
Vanadium	0.94 J	1.7 J	0.95 J	0.84 J	1.7 J	3 J
Zinc	73.9	51.9	46.9	38.1	372	173
Cyanide	0.21 J	0.24 J	0.4 J	0.14 J	0.66 J	0.45 J

See notes at end of table.

Table 4-13 (Continued)
Inorganic Analytes Detected in Sludge Samples at the SWMU 45

RCRA Facility Investigation, Group III SWMUs
U.S. Naval Station
Mayport, Florida

Analytical Batch Number:	R9703	R9703	R9703	R9703	R9703	R9703
Sample Location:	MPT-45-SL06	MPT-45-SL06	MPT-45-SL07	MPT-45-SL07	MPT-45-SL08	MPT-45-SL08
Sample Number:	45L00601	45L00602	45L00701	45L00702	45L00801	45L00802
Date Collected:	28-MAR-95	28-MAR-95	28-MAR-95	28-MAR-95	28-MAR-95	28-MAR-95
Sample Depth (ft bls):	0 to 1	1 to 2	0 to 1	1 to 2	0 to 1	1 to 2
Inorganics (mg/kg)						
Antimony	4.7 J	3.4 J	1.5 J	--	--	--
Arsenic	0.78 J	0.6 J	0.47 J	0.58 J	0.34 J	--
Barium	67.3	51.8	28 J	20.3 J	19.5 J	8.1 J
Beryllium	--	--	--	--	--	--
Cadmium	1.3	1.1 J	0.54 J	0.46 J	0.36 J	--
Chromium	8.3	6.9	4	3.2	2.7	1.3 J
Cobalt	--	--	--	--	0.62 J	--
Copper	540	435	223	163	139	65.4
Lead	26.2 J	25.2 J	9.2 J	6.7 J	6.6 J	2.7 J
Mercury	0.8	0.44	0.2	0.2	0.11	0.07
Nickel	21.8	16.1	10.5	7.6 J	7.3 J	3.7 J
Selenium	0.71 J	0.46 J	0.23 J	0.18 J	0.21 J	--
Silver	4.8	3.9	1.7 J	1.3 J	0.93 J	--
Tin	14.7 J	12.4 J	6.9 J	5 J	4.2 J	3.1 J
Vanadium	1.6 J	0.89 J	0.8 J	0.99 J	1.1 J	0.6 J
Zinc	198	161	86.7	64.6	63.1	28.9
Cyanide	0.29 J	0.45 J	0.41 J	0.28 J	0.19 J	0.12 J

Notes: SWMU = solid waste management unit
RCRA = Resource Conservation and Recovery Act
DUP = duplicate sample
ft bls = feet below land surface.
mg/kg = milligrams per kilogram
-- = concentration of analyte, if present, was less than the detection limit.
J = estimated value

Table 4-14
Summary of Analytes Detected in Sludge Samples at SWMU 45

RCRA Facility Investigation, Group III SWMUs
U.S. Naval Station
Mayport, Florida

Analyte	Frequency of Detection[1]	Minimum Detected Concentration	Maximum Detected Concentration	Mean of Detected Concentrations[3]	Range of Instrument Reporting Limits	Sample with Maximum Concentration
Volatiles (µg/kg)						
Carbon disulfide	1/16	[2]1.75	[2]1.75	2	5 - 7	45L00102
Trichlorofluoromethane	1/16	5	5	5	5 - 6	45L00501
Xylenes (total)	5/16	1	3	2	5 - 7	45L00701
Semivolatiles (µg/kg)						
Anthracene	1/16	91	91	91	670 - 970	45L00601
Benzo(a)anthracene	2/16	[2]109	260	185	670 - 970	45L00201
Benzo(a)pyrene	2/16	[2]99.5	250	175	670 - 970	45L00201
Benzo(b)fluoranthene	2/16	[2]106	290	198	670 - 970	45L00201
Benzo(g,h,i)perylene	2/16	[2]103	190	147	670 - 970	45L00201
Benzo(k)fluoranthene	2/16	[2]140	330	235	670 - 970	45L00201
Benzyl alcohol	2/16	210	300	255	670 - 820	45L00501
Butylbenzylphthalate	2/16	110	120	115	670 - 820	45L00602
Chrysene	2/16	[2]135	280	208	670 - 970	45L00201
Di-n-butylphthalate	10/16	73	1,500	517	670 - 690	45L00501
Fluoranthene	2/16	[2]165	340	253	670 - 970	45L00201
Indeno (1,2,3-cd) pyrene	2/16	[2]81.5	180	131	670 - 970	45L00201
Phenanthrene	2/16	[2]85	130	108	670 - 970	45L00201
Phenol	2/16	220	340	280	670 - 820	45L00501
Pyrene	2/16	[2]160	320	240	670 - 970	45L00201
bis(2-Ethylhexyl) phthalate	1/16	2,800	2,800	2,800	670 - 1,000	45L00501
Pesticides/PCBs (µg/kg)						
4,4'-DDD	1/16	[2]1.05	[2]1.05	1	1.3 - 1.9	45L00101D
4,4'-DDE	2/16	0.78	1.2	0.99	0.68 - 0.99	45L00602
Aldrin	1/16	2.6	2.6	2.6	0.68 - 0.99	45L00601

See notes at end of table.

Table 4-14 (Continued)
Summary of Analytes Detected in Sludge Samples at SWMU 45

RCRA Facility Investigation, Group III SWMUs
U.S. Naval Station
Mayport, Florida

Analyte	Frequency of Detection[1]	Minimum Detected Concentration[2]	Maximum Detected Concentration[2]	Mean of Detected Concentrations[3]	Range of Instrument Reporting Limits	Sample with Maximum Concentration
Pesticides (µg/kg) (Continued)						
Dieldrin	9/16	[2]0.57	3.8	1.75	0.68 - 0.71	45L00501
Endrin	1/16	1.5	1.5	1.5	1.3 - 1.9	45L00602
Endrin ketone	2/16	1.7	1.8	1.8	1.3 - 1.9	45L00602
Isodrin	2/16	0.74	1.2	0.97	0.68 - 0.84	45L00501
Inorganics (mg/kg)						
Antimony	7/16	[2]1.05	5	2.9	1 - 1.1	45L00501
Arsenic	15/16	0.31	1.2	0.65	0.14 - 0.14	45L00501
Barium	16/16	6.5	118	29.6	N/A	45L00501
Beryllium	2/16	[2]0.035	0.05	0.04	0.04 - 0.06	45L00401
Cadmium	14/16	0.29	1.9	0.71	0.26 - 0.27	45L00501
Chromium	16/16	1.3	16.5	4.5	N/A	45L00501
Cobalt	1/16	0.62	0.62	0.62	0.55 - 0.8	45L00801
Copper	16/16	53.3	939	253.4	N/A	45L00501
Cyanide	16/16	0.12	0.66	0.3	N/A	45L00501
Lead	16/16	2.7	27.4	11.1	N/A	45L00501
Mercury	16/16	[2]0.045	1.1	0.28	N/A	45L00501
Nickel	16/16	3.7	41.6	12.3	N/A	45L00501
Selenium	8/16	[2]0.1025	0.92	0.41	0.12 - 0.13	45L00501
Silver	13/16	0.79	6.3	2.31	0.47 - 0.48	45L00501
Tin	15/16	3.1	25.3	7.9	2 - 2	45L00501
Vanadium	16/16	0.6	3	1.27	N/A	45L00502
Zinc	16/16	19.3	372	97.7	N/A	45L00501

See notes at end of table.

Table 4-14 (Continued)
Summary of Analytes Detected in Sludge Samples at SWMU 45

RCRA Facility Investigation, Group III SWMUs
U.S. Naval Station
Mayport, Florida

Analyte	Frequency of Detection[1]	Minimum Detected Concentration[2]	Maximum Detected Concentration[2]	Mean of Detected Concentrations[3]	Range of Instrument Reporting Limits	Sample with Maximum Concentration

[1] Frequency of detection is the number of samples in which the analyte was detected divided by the total number of samples analyzed (excluding rejected samples).
[2] Indicates the value is the average of the detected concentrations in a sample and its duplicate. For nondetected values, 1/2 the contract-required quantitation limits/contract-required detection limit is used as a surrogate.
[3] The mean of detected concentrations is the arithmetic mean of all samples in which the analyte was detected. It does not include those samples in which the analyte was not detected.

Notes: SWMUs = solid waste management units.
RCRA = Resource Conservation and Recovery Act.
µg/kg = micrograms per kilogram.
PCBs = polychlorinated biphenyls.
4,4'-DDD = dichlorodiphenyldichloroethane.
4,4'-DDE = dichlorodiphenyldichloroethene.
mg/kg = milligram per kilogram.
N/A = not applicable.

Table 4-15
Comparison of Analytes Detected in Sludge Samples at SWMU 45 to Background Screening and Benchmark Concentrations

RCRA Facility Investigation, Group III SWMUs
U.S. Naval Station
Mayport, Florida

Analyte	Maximum Concentration	Background Screening Concentration[2]	Frequency Above Background Screening Concentration	Florida Soil Cleanup Goal[3]	Frequency above Florida Soil Cleanup Goal	Risk-Based Screening Concentration[4]	Frequency Above Risk-Based Screening Concentration
Volatiles (µg/kg)							
Carbon disulfide	[1]1.75	NSC	N/A	5,200	0/16	780,000	0/16
Trichlorofluoromethane	5	NSC	N/A	6,600	0/16	2,300,000	0/16
Xylenes (total)	3	NSC	N/A	13,000,000	0/16	16,000,000	0/16
Semivolatiles (µg/kg)							
Anthracene	91	NSC	N/A	20,000,000	0/16	2,300,000	0/16
Benzo(a)anthracene	260	NSC	N/A	1,400	0/16	880	0/16
Benzo(a)pyrene	250	NSC	N/A	100	1/16	88	2/16
Benzo(b)fluoranthene	290	NSC	N/A	1,400	0/16	880	0/16
Benzo(g,h,i)perylene	190	NSC	N/A	14,000	0/16	NSC	N/A
Benzo(k)fluoranthene	330	NSC	N/A	14,000	0/16	8,800	0/16
Benzyl alcohol	300	NSC	N/A	NSC	N/A	NSC	N/A
Butylbenzylphthalate	120	NSC	N/A	15,000,000	0/16	1,600,000	0/16
Chrysene	280	NSC	N/A	140,000	0/16	88,000	0/16
Di-n-butylphthalate	1,500	NSC	N/A	7,300,000	0/16	780,000	0/16
Fluoranthene	340	NSC	N/A	2,900,000	0/16	310,000	0/16
Indeno (1,2,3-cd) pyrene	180	NSC	N/A	1,400	0/16	880	0/16
Phenanthrene	130	NSC	N/A	1,700,000	0/16	NSC	N/A
Phenol	340	NSC	N/A	NSC	N/A	NSC	N/A
Pyrene	320	NSC	N/A	2,200,000	0/16	230,000	0/16
bis(2-Ethylhexyl) phthalate	2,800	NSC	N/A	48,000	0/16	46,000	0/16

See notes at end of table

Table 4-15 (Continued)
Comparison of Analytes Detected in SWMU 45 Sludges to Background Screening and Benchmark Concentrations

RCRA Facility Investigation, Group III SWMUs
U.S. Naval Station
Mayport, Florida

Analyte	Maximum Concentration	Background Screening Concentration[2]	Frequency Above Background Screening Concentration	Florida Soil Cleanup Goal[3]	Frequency above Florida Soil Cleanup Goal	Risk-Based Screening Concentration[4]	Frequency Above Risk-Based Screening Concentration
Pesticides/PCBs (µg/kg)							
4,4'-DDD	[1]1.05	NSC	N/A	4,500	0/16	2,700	0/16
4,4'-DDE	1.2	2.3	0/16	3,000	0/16	1,900	0/16
Aldrin	2.6	NSC	N/A	60	0/16	38	0/16
Dieldrin	3.8	NSC	N/A	70	0/16	40	0/16
Endrin	1.5	NSC	N/A	23,000	0/16	2,300	0/16
Endrin ketone	1.8	NSC	N/A	NSC	N/A	NSC	N/A
Isodrin	1.2	NSC	N/A	NSC	N/A	NSC	N/A
Inorganics mg/kg							
Antimony	5	NSC	N/A	26	0/16	3.1	3/16
Arsenic	1.2	NSC	N/A	[5]0.8	6/16	0.37	13/16
Barium	118	5.6	16/16	5,200	0/16	550	0/16
Beryllium	0.05	0.16	0/16	0.2	0/16	0.15	0/16
Cadmium	1.9	2	0/16	37	0/16	3.9	0/16
Chromium	16.5	2.6	9/16	290	0/16	39	0/16
Cobalt	0.62	NSC	N/A	4,700	0/16	470	0/16
Copper	939	2.2	16/16	[6]2,900	0/16	290	5/16
Cyanide	0.66	NSC	N/A	1,600	0/16	160	0/16
Lead	27.4	NSC	N/A	500	0/16	400	0/16
Mercury	1.1	NSC	N/A	23	0/16	2.3	0/16
Nickel	41.6	NSC	N/A	1,500	0/16	160	0/16
Selenium	0.92	1.36	0/16	390	0/16	39	0/16
Silver	6.3	NSC	N/A	390	0/16	39	0/16

See notes at end of table.

Table 4-15 (Continued)
Comparison of Analytes Detected in SWMU 45 Sludges to Background Screening and Benchmark Concentrations

RCRA Facility Investigation, Group III SWMUs
U.S. Naval Station
Mayport, Florida

Analyte	Maximum Concentration	Background Screening Concentration[2]	Frequency Above Background Screening Concentration	Florida Soil Cleanup Goal[3]	Frequency above Florida Soil Cleanup Goal	Risk-Based Screening Concentration[4]	Frequency Above Risk-Based Screening Concentration
Inorganics mg/kg (Continued)							
Tin	25.3	NSC	N/A	44,000	0/16	4,700	0/16
Vanadium	3	4	0/16	490	0/16	55	0/16
Zinc	372	2.6	16/16	23,000	0/16	2,300	0/16

[1] Indicates the value is the average of the detected concentrations in a sample and its duplicate. For nondetected values, 1/2 the contract-required quantitation limits/contract-required detection limit is used as a surrogate.
[2] The background screening concentration is twice the mean of detected concentrations for inorganic analytes.
[3] Soil Cleanup Goals for Florida, September 29, 1995 (residential for sludge.)
[4] The value is from U.S. Environmental Protection Agency Region III Risk-based Concentrations tables dated February 9, 1995. Concentrations for non-carcinogenic risks are adjusted to a Hazard Index of 0.1.
[5] Soil Cleanup Goals for Florida, January 1996 (residential for sludge).
[6] Soil Cleanup Goals for the Military Sites, April 5, 1995 (residential for sludge)

Notes: SWMUs = solid waste management units.
RCRA = Resource Conservation and Recovery Act.
µg/kg = micrograms per kilogram.
NSC - no screening concentration.
N/A = not applicable.
PCBs = polychlorinated biphenyls.
4,4'-DDD = dichlorodiphenyldichloroethane.
4,4'-DDE = dichlorodiphenyldichloroethene.
mg/kg = milligram per kilogram.

Table 4-17
Organic Analytes Detected in Groundwater Samples at SWMUs 1, 23, 24, 25, 44, and 45

RCRA Facility Investigation, Group III SWMUs
U.S. Naval Station
Mayport, Florida

Analytical Batch Number:	R9994	R9989	R9989	R9989	RA061
Sample Location:	MPT-1-MW03S	MPT-23-MW01S	MPT-23-MW02S	MPT-23-MW03S	MPT-23-MW05I
Sample Number:	01G00301	23G00101DUP	23G00201	23G00301	23G00502
Date Sampled:	06-JUN-95	04-JUN-95	05-JUN-95	05-JUN-95	19-JUN-95
Volatiles (µg/ℓ)					
1,1-Dichloroethane	--	--	7	--	--
1,1-Dichloroethene	--	--	2 J	--	--
1,2-Dichloroethene (total)	--	--	--	--	5
Trichlorofluoromethane	--	1 J	--	--	--
Semivolatiles (µg/ℓ)					
Di-n-Butylphthalate	--	--	--	--	--
bis(2-Ethylhexyl)phthalate	2 J	--	5 J	4 J	--

See notes at end of table.

Table 4-17 (Continued)
Organic Analytes Detected in Groundwater Samples at SWMUs 1, 23, 24, 25, 44, and 45

RCRA Facility Investigation, Group III SWMUs
U.S. Naval Station
Mayport, Florida

Analytical Batch Number:	R9989	R9994	RA061	R9994
Sample Location:	MPT-23-MW06S	MPT-24-MW01S	MPT-45-MW01I	MPT-45-MW02S
Sample Number:	23G00601	24G00101	45G00102DUP	45G00201
Date Sampled:	05-JUN-95	07-JUN-95	19-JUN-95	08-JUN-95
Volatiles (µg/ℓ)				
1,1-Dichloroethane	8	--	--	--
1,1-Dichloroethene	5	--	--	--
1,2-Dichloroethene (total)	1 J	--	--	--
Trichlorofluoromethane	--	--	--	--
Semivolatiles (µg/ℓ)				
Di-n-Butylphthalate	--	--	1 J	--
bis(2-Ethylhexyl)phthalate	--	5 J	--	3 J

Notes: SWMU = solid waste management unit.
RCRA = Resource Conservation and Recovery Act.
DUP = duplicate.
µg/ℓ = microgram per liter.
-- = concentration of analyte, if present, was less than the detection limit.
J = estimated value.

Table 4-18
Inorganic Analytes Detected in Groundwater Samples at SWMUs 1, 23, 24, 25, 44, and 45

RCRA Facility Investigation, Group III SWMUs
U.S. Naval Station
Mayport, Florida

Analytical Batch Number:	R9994	RA061	RA061	R9994	R9994	R9989	R9989	R9989
Sample Location:	MPT-1-MW01S	MPT-1-MW01I	MPT-1-MW01D	MPT-1-MW02S	MPT-1-MW03S	MPT-23-MW01S	MPT-23-MW01S	MPT-23-MW02S
Sample Number:	01G00101	01G00102	01G00103	01G00201	01G00301	23G00101	23G00101DUP	23G00201
Date Sampled:	07-JUN-95	21-JUN-95	21-JUN-95	06-JUN-95	06-JUN-95	04-JUN-95	04-JUN-95	05-JUN-95
Inorganics (µg/ℓ)								
Antimony	--	--	--	10.6 J	28.3 J	--	--	--
Arsenic	5.7 J	0.7 J	57	7.7 J	1.9 J	--	--	--
Barium	1.3 J	1.5 J	48 J	1.9 J	71.9 J	4.2 J	4 J	3.7 J
Calcium	62,400	62,000	158,000	56,900	154,000	92,000	92,400	116,000
Chromium	--	--	--	1.8 J	--	--	--	--
Copper	--	--	--	--	108	--	--	--
Iron	75.9 J	51.9 J	3,930	--	--	--	--	603
Lead	0.5 J	--	7 J	--	4.6	--	--	--
Magnesium	2,530 J	10,300	422,000	6,810	17,500	4,580 J	4,600 J	8,280
Manganese	3.4 J	5.5 J	150	4.8 J	131	23.7	22.6	149
Mercury	--	--	--	--	0.15 J	--	--	--
Nickel	--	--	--	--	10 J	--	--	--
Selenium	--	--	5.6 J	--	--	0.98 J	0.71 J	--
Silver	--	--	1.4 J	--	--	--	--	--
Sodium	5,320	13,400	3,630,000	6,490	16,200	8,590	8,600	37,200
Vanadium	5.7 J	--	17 J	8.5 J	33.6 J	7.8 J	7.3 J	3.5 J
Zinc	--	--	--	--	180	--	--	--
Cyanide	1.6 J	--	--	--	--	--	1.7 J	--

See notes at end of table.

Table 4-18 (Continued)
Inorganic Analytes Detected in Groundwater Samples at SWMUs 1, 23, 24, 25, 44, and 45

RCRA Facility Investigation, Group III SWMUs
U.S. Naval Station
Mayport, Florida

Analytical Batch Number:	R9989	R9994	R9994	R9994	RA061	RA061	R9989
Sample Location:	MPT-23-MW03S	MPT-23-MW04S	MPT-23-MW04S	MPT-23-MW05S	MPT-23-MW05I	MPT-23-MW05D	MPT-23-MW06S
Sample Number:	23G00301	23G00401	23G00401DUP	23G00501	23G00502	23G00503	23G00601
Date Sampled:	05-JUN-95	06-JUN-95	06-JUN-95	07-JUN-95	19-JUN-95	20-JUN-95	05-JUN-95
Inorganics (µg/ℓ)							
Antimony	--	--	--	--	--	--	--
Arsenic	--	4.5 J	3.7 J	2 J	--	102	--
Barium	4.5 J	2.8 J	3.3 J	13.7 J	10.3 J	67.3 J	5 J
Calcium	67,000	68,300	70,100	106,000	58,700	236,000	100,000
Chromium	--	--	--	--	--	--	--
Copper	--	--	--	--	--	--	--
Iron	55.9 J	--	--	--	894	8,410	--
Lead	--	0.8 J	--	--	--	8 J	--
Magnesium	3,120 J	4,440 J	4,670 J	7,030	72,000	614,000	11,500
Manganese	34	29.3	31.7	35.8	199	200	79
Mercury	--	--	--	--	--	--	--
Nickel	--	--	--	7.4 J	--	8.4 J	--
Selenium	--	0.91 J	--	--	--	--	--
Silver	--	--	--	--	--	--	--
Sodium	9,700	10,200	10,700	42,000	346,000	4,900,000	24,600
Vanadium	4.7 J	3.8 J	3.4 J	53.5	2.4 J	4.8 J	4.7 J
Zinc	--	--	--	--	--	--	--
Cyanide	--	--	--	--	--	3.3 J	--

See notes at end of table.

Table 4-18 (Continued)
Inorganic Analytes Detected in Groundwater Samples at SWMUs 1, 23, 24, 25, 44, and 45

RCRA Facility Investigation, Group III SWMUs
U.S. Naval Station
Mayport, Florida

Analytical Batch Number:	R9989	R9994	R9994	RA061	RA061	R9994	R9994
Sample Location:	MPT-23-MW07S	MPT-24-MW01S	MPT-44-MW01S	MPT-44-MW01I	MPT-44-MW01D	MPT-44-MW02S	MPT-44-MW03S
Sample Number:	23G00701	24G00101	44G00101	44G00102	44G00103	44G00201	44G00301
Date Sampled:	03-JUN-95	07-JUN-95	07-JUN-95	21-JUN-95	20-JUN-95	6-JUN-95	7-JUN-95
Inorganics (µg/ℓ)							
Antimony	--	--	7.9 J	--	--	50.2 J	--
Arsenic	5.3 J	3.4 J	5.4 J	--	80.5	1.9 J	3.1 J
Barium	4.2 J	3.3 J	11.4 J	9.5 J	54.8 J	6.2 J	13.8 J
Calcium	118,000	95,700	94,400	49,900	124,000	107,000	94,700
Chromium	--	--	--	--	--	--	--
Copper	--	--	--	--	--	--	--
Iron	111	81.8 J	230	536	3,170	174	--
Lead	--	--	--	--	7 J	2.2 J	--
Magnesium	8,750	4,640 J	7,570	27,600	308,000	13,900	9,100
Manganese	72.5	114	117	73.6	701	158	66.2
Mercury	--	--	--	--	--	--	--
Nickel	--	--	6.4 J	--	--	--	--
Selenium	1.6 J	--	--	--	--	--	--
Silver	--	--	--	--	--	--	--
Sodium	18,400	19,400	12,900	218,000	3,100,000	15,700	8,420
Vanadium	10.5 J	4 J	3 J	4.7 J	15.8 J	57	5.4 J
Zinc	--	--	--	--	--	--	--
Cyanide	--	--	--	--	7.7 J	--	--

See notes at end of table.

Table 4-18 (Continued)
Inorganic Analytes Detected in Groundwater Samples at SWMUs 1, 23, 24, 25, 44, and 45

RCRA Facility Investigation, Group III SWMUs
U.S. Naval Station
Mayport, Florida

Analytical Batch Number:	R9994	RA061	RA061	RA061	R9994	R9994
Location Number:	MPT-1-P01S	MPT-45-MW01I	MPT-45-MW01I	MPT-45-MW01D	MPT-45-MW02S	MPT-45-MW02S
Sample Number:	45G00101	45G00102	45G00102DUP	45G00103	45G00201	45G00201DUP
Date Collected:	08-JUN-95	19-JUN-95	19-JUN-95	19-JUN-95	08-JUN-95	08-JUN-95
Inorganics (µg/ℓ)						
Antimony	--	--	--	--	8.7 J	8.3 J
Arsenic	4.5 J	--	--	65.5	2.2 J	2.2 J
Barium	3.1 J	5.5 J	5.2 J	73.5 J	6.6 J	6.4 J
Calcium	88,800	24,700	24,200	254,000	95,100	95,300
Chromium	2.8 J	--	1.9 J	--	--	--
Copper	--	--	--	--	4.9 J	4.2 J
Iron	--	136	140	9,040	--	--
Lead	--	--	--	7 J	--	--
Magnesium	10,400	37,600	36,300	680,000	16,600	16,800
Manganese	25.8	25.6	24.6	182	43.7	44.2
Mercury	--	--	--	--	--	--
Nickel	7 J	--	--	--	10.3 J	6.6 J
Selenium	--	0.6 J	--	--	--	--
Silver	--	--	--	--	--	--
Sodium	24,600	63,300	60,100	5,370,000	57,000	57,400
Vanadium	7.1 J	4.2 J	4 J	7.8 J	7.9 J	7.6 J
Zinc	--	--	--	--	--	--
Cyanide	--	2.1 J	2.1 J	5.8 J	1.6 J	1.6 J

Notes: SWMUs = solid waste management units.
RCRA = Resource Conservation and Recovery Act.
DUP = duplicate.
µg/ℓ = microgram per liter.
-- = concentration of analyte, if present, was less than the detection limit.
J = estimated value.

Table 4-19
Summary of Analytes Detected in Groundwater Samples at Shipyard Area SWMUs 1, 23, 24, 25, 44, and 45

RCRA Facility Investigation, Group III SWMUs
U.S. Naval Station
Mayport, Florida

Analyte	Frequency of Detection[1]	Minimum Detected Concentration	Maximum Detected Concentration	Mean of Detected Concentrations[3]	Range of Instrument Reporting Limits	Sample with Maximum Concentration
Volatiles (µg/ℓ)						
1,1-Dichloroethane	2/24	7	8	8	5 - 5	23G00601
1,1-Dichloroethene	2/24	2	5	4	5 - 5	23G00601
1,2-Dichloroethene (total)	2/24	1	5	3	5 - 5	23G00502
Trichlorofluoromethane	1/24	[2]1.75	[2]1.75	2	5 - 5	23G00101D
Semivolatiles (µg/ℓ)						
Di-n-butylphthalate	1/24	[2]3	[2]3	3	10 - 10	45G00102D
bis(2-Ethylhexyl) phthalate	5/24	2	5	4	10 - 10	23G00201
Inorganics (µg/ℓ)						
Antimony	5/19	7.9	50.2	21.1	5 - 5	44G00201
Arsenic	17/24	0.7	102	20.8	0.6 - 5	23G00503
Barium	24/24	1.3	73.5	17.8	N/A	45G00103
Calcium	24/24	[2]24,450	254,000	103,523	N/A	45G00103
Chromium	3/24	[2]1.375	2.8	2	1.7 - 1.7	45G00101
Copper	2/24	[2]4.55	108	56.3	1 - 1.25	01G00301
Cyanide	7/24	[2]1.225	7.7	3.3	1.5 - 1.5	44G00103
Iron	15/24	51.9	9,040	1,833.4	10.9 - 23.3	45G00103
Lead	8/24	0.5	8	4.6	0.4 - 1	23G00503
Magnesium	24/24	2,530	680,000	96,159	N/A	45G00103
Manganese	24/24	3.4	701	109.3	N/A	44G00103
Mercury	1/24	0.15	0.15	0.15	0.1 - 0.1	01G00301
Nickel	6/24	6.4	10	7.9	5.7 - 5.7	45G00201
Selenium	5/24	[2]0.425	5.6	1.81	0.5 - 25	01G00103
Silver	1/24	1.4	1.4	1.4	1.4 - 1.7	01G00103
Sodium	24/24	5,320	5,370,000	748,178	N/A	45G00103
Vanadium	23/24	2.4	57	12	1.2 - 1.2	44G00201
Zinc	1/24	180	180	180	3.3 - 6.7	01G00301

See notes at end of table.

Table 4-19 (Continued)
Summary of Analytes Detected in Groundwater Samples at Shipyard Area SWMUs 1, 23, 24, 25, 44, and 45

RCRA Facility Investigation, Group III SWMUs
U.S. Naval Station
Mayport, Florida

Analyte	Frequency of Detection[1]	Minimum Detected Concentration	Maximum Detected Concentration	Mean of Detected Concentrations[2]	Range of Instrument Reporting Limits	Sample with Maximum Concentration
Water Quality Criteria (mg/ℓ)						
Alkalinity (reported as $CaCO_3$)	24/24	145	584	302	N/A	23G00502
Ammonia (reported as nitrogen)	9/24	0.5	17.7	5.7	0.3 - 1.5	23G00502
Chloride	24/24	10.2	10,500	1,289.5	N/A	45G00103
Hardness (reported as $CaCO_3$)	24/24	163	4,760	799	N/A	23G00503
Nitrate/Nitrite (reported as nitrogen)	23/24	0.13	6.49	1.24	0.1 - 0.1	45G00201
Phosphorous-Total (reported as phoshorous)	19/24	0.1	2.99	0.64	0.1 - 0.1	44G00102
Sulfate	23/24	12.1	1,410	201.9	10 - 10	45G00103
Sulfide	3/24	1.2	2.8	2.1	1 - 1	45G00102
Total Dissolved Solids	24/24	218	19,300	2,710	N/A	45G00103
Total Kjeldahl Nitrogen	18/24	0.3	18.1	3.4	0.3 - 1.5	23G00502
Total organic carbon	22/22	2.1	23.3	9.3	N/A	01G00301
Color (alpha units)	22/24	5	300	62	5 - 5	45G00103
pH (standard units)	24/24	7.1	7.9	7.48	N/A	01G00102

[1] Frequency of detection is the number of samples in which the analyte was detected, divided by the total number of samples analyzed (excluding rejected samples).
[2] Indicates the value is the average of a sample concentration and its duplicate. For nondetected values, 1/2 the contract-required quantitation limits/contract-required detection limit is used as a surrogate.
[3] The mean of detected concentrations is the arithmetic mean of all samples in which the analyte was detected. It does not include those samples in which the analyte was not detected.

Notes: SWMUs = solid waste management units.
RCRA = Resource Conservation and Recovery Act.
µg/ℓ = micrograms per liter.
N/A - not applicable.
mg/ℓ = milligram per liter.
$CaCO_3$ = calcium carbonate.

Antimony was detected in five groundwater samples collected from monitoring wells (MPT-1-MW02S, MPT-1-MW03S, MPT-44-MW01S, MPT-44-MW02S, and MPT-45-MW02S) screened in the water table zone of the surficial aquifer. The concentrations detected exceed Florida Groundwater Guidance Concentrations.

Arsenic was detected in four samples from monitoring wells screened in the deep zone of the surficial aquifer at concentrations that exceed the Florida Groundwater Guidance Concentration.

Manganese was detected in groundwater samples collected from monitoring wells screened in the intermediate and deep zones of the surficial aquifer and nine water table zone monitoring wells at concentrations that exceed its Florida Groundwater Guidance Concentration.

Vanadium was detected in groundwater samples from two monitoring wells (MPT-23-MW05S and MPT-44-MW02S) screened in the water table zone of the surficial aquifer at concentrations that exceed the Florida Groundwater Guidance Concentrations.

Concentrations of copper, lead and nickel detected in groundwater samples collected from monitoring wells installed in the water table zone did not exceed either USEPA Region III RBC or Florida Groundwater Guidance Concentrations. However, the distribution of their highest detected concentrations is similar to antimony and vanadium in monitoring wells MPT-1-MW02S, MPT-1-MW03S, MPT-23-MW06S MPT-23-MW05S, MPT-44-MW01S, MPT-44-MW02S MPT-44-MW03S, and MPT-45-MW02S. The occurrence of antimony, vanadium, copper, lead and nickel and possibly manganese and arsenic in the water table zone of the surficial aquifer tend to occur in areas that are hydraulically downgradient from the areas where they were detected in surface soil samples at concentrations that exceeded the FDEP industrial soil cleanup goals. This distribution suggests that a release to the environment has occurred.

The concentrations of arsenic, iron, magnesium, and sodium detected in groundwater samples from monitoring wells screened in the deep zone of the surficial aquifer are likely naturally occurring. This is based on groundwater in the surficial aquifer beneath NAVSTA Mayport becoming more saline with depth (Franks, 1980).

4.3 Human Health Risk Assessment for the Shipyard Area, SWMUs 1, 23, 24, 25, 44, and 45. SWMUs 23, 24, 25, 44, and 45 are located adjacent to SWMU 1, Landfill A, and share similar topographic and hydrogeologic settings, and have similar contaminants. Therefore, SWMUs 1, 23, 24, 25, 44, and 45, collectively called the Shipyard Area in this section, were evaluated together. Industrial (e.g., waste oils, paints, solvents) and sanitary wastes were disposed of at SWMU 1 (Landfill A), the former location of which is thought to be under and around the existing JSI Administration Building. JSI has gone out of business and currently their area of the station is not being used for repair activities. Additionally, the JSI Administration Building is currently being renovated and is to be used as office space. SWMU 23 encompasses most of the JSI Shipyard Area. Possible contaminants at SWMU 23 include fuels and oils, metals, and solvents. The NFSI, SWMU 24 and AMI, SWMU 25 are commercial shipyard companies that may have contaminants similar to those at SWMU 23. SWMU 44 is the FOWTP clarifiers 1 and 2; possible contaminants include oily material from firefighter training

on the findings and conclusion of this risk assessment. A summary of validation of the analytical data is presented in the PARCC report provided in Appendix B.

Table 4-21 presents the analytes detected in and the HHCPCs selected for surface soil at the Shipyard Area. Seven SVOCs (benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(k)fluoranthene, chrysene, dibenz(a,h)anthracene, and indeno(1,2,3-cd)pyrene); two PCBs (Aroclor-1254 and Aroclor-1260); two pesticides (chlordane and dieldrin); and nine inorganic compounds (antimony, arsenic, beryllium, cadmium, chromium, copper, lead, mercury, and zinc) were selected as HHCPCs.

4.3.1.2 **Subsurface Soil** During the Group III RFI field activities, eight subsurface soil samples and one duplicate were collected from SWMU 1; seven subsurface soil samples were collected from SWMU 23; one subsurface soil sample was collected from SWMU 24; three subsurface soil samples were collected from SWMU 44; and two subsurface soil samples were collected from SWMU 45. Data from SWMUs 1, 23, 24, 44, and 45 were evaluated together.

Subsurface soil sampling locations that were evaluated in the HHRA include MPT-1-SB01 through MPT-1-SB07, including a duplicate from MPT-1-SB06 (Plate 3). The evaluation of subsurface soil samples also included samples from monitoring well locations MPT-1-MW01D, MPT-23-MW01S through MPT-23-MW07S, MPT-24-MW01S, MPT-44-MW01S through MPT-44-MW03S, MPT-45-MW01D, and MPT-45-MW02S (Plate 3).

Table 4-22 presents the analytes detected in subsurface soil. No HHCPCs were selected for subsurface soil.

4.3.1.3 **Sludge** During the Group III RFI field activities, eight composite sludge samples were collected from SWMU 45 at zero to 1 foot bls and eight composite sludge samples were collected at 1 to 2 feet bls. Analytical data from both depths were evaluated together. Sludge sample locations that were evaluated in the HHRA include MPT-45-SL01 through MPT-45-SL08 [two depths were sampled at each location] and two duplicates [one at each depth] were collected at MPT-45-SL01 (Plate 3).

Table 4-23 presents the analytes detected in and the HHCPCs selected for sludge at SWMU 45. Six SVOCs (benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(k)fluoranthene, chrysene, and indeno(1,2,3-cd)pyrene); one pesticide (endrin ketone); and three inorganic compounds (antimony, arsenic, and copper) were selected as HHCPCs. Endrin ketone was retained as an HHCPC because neither a risk-based screening value nor a Florida Clean-up Goal was available for this substance. Inclusion of endrin ketone as an HHCPC does not suggest that it substantially contributes to potential risks associated with exposure to sludge.

4.3.1.4 **Groundwater** During the Group III RFI field activities, five unfiltered groundwater samples were collected from SWMU 1, nine unfiltered groundwater samples and two duplicates were collected from SWMU 23, one unfiltered groundwater sample was collected from SWMU 24, five unfiltered groundwater samples were collected from SWMU 44, and four unfiltered groundwater samples and two duplicates were collected from SWMU 45. Groundwater samples were collected using the low-flow method. Data from SWMUs 1, 23, 24, 44, and 45 were evaluated together.

Groundwater sampling locations that were evaluated in the HHRA include MPT-1-MW01S, MPT-1-MW01I, MPT-1-MW01D, MPT-1-MW02S, MPT-1-MW03S, MPT-23-MW01S through MPT-23-MW05S, MPT-23-MW05I, MPT-23-MW05D, MPT-23-MW06S, MPT-23-MW07S, MPT-24-MW01S, MPT-44-MW01S, MPT-44MW01I, MPT-44-MW01D, MPT-44-MW02S, MPT-44-MW03S, MPT-1-P01S, MPT-45-MW01I, MPT-45-MW01D, MPT-45-MW02S, and four duplicates from locations MPT-23-MW01S, MPT-23-MW04S, MPT-45-MW01I, and MPT-45-MW02S (Plates 1 and 2).

Groundwater data for antimony were rejected for the following sample locations: MPT-23-MW01S and the duplicate, MPT-23-MW02S, MPT-23-MW03S, MPT-23-MW06S, and MPT-23-MW07S (Please refer to Subsection 2.2.2). The analytical results were qualified because the percent recovery of spiked compounds in MS samples was less than 30 percent. Non-detect values for these samples were rejected. The rejection of this data, assuming that they are not false negative values, should not have an adverse impact on conclusions and recommendations contained in this report.

Table 4-24 presents the analytes detected in and the HHCPCs selected for unfiltered groundwater associated with the Shipyard Area. One VOC (1,1,-dichloroethene), one SVOC (bis(2-ethylhexyl)phthalate), and seven inorganic compounds (antimony, arsenic, iron, magnesium, manganese, sodium, and vanadium) were selected as HHCPCs.

4.3.2 **Exposure Assessment** Medium-specific receptors and exposure scenarios are identified in Paragraphs 4.3.2.1 through 4.3.2.4 for current and future land use. The information is also summarized in Table 4-25 and on Figure 4-15. Receptor-specific exposure parameters for each exposure scenario are presented in Appendix D-3 to the NAVSTA Mayport GIR (ABB-ES, 1995a). The risk calculation spreadsheets in Appendix D-2 to this report also contain the exposure parameters for each exposure scenario.

Although permission is required to obtain access to NAVSTA Mayport, the Shipyard Area and the surrounding area are accessible to Navy personnel and their adult and child dependents.

4.3.2.1 **Surface Soil** Currently, adult and adolescent trespassers, site maintenance workers, and occupational workers could be exposed to contaminants in surface soil. In addition, ongoing construction in the Shipyard Area could result in exposure of excavation workers to surface soil contaminants. Therefore, exposure of these receptors (i.e., ingestion, dermal contact, and inhalation of particulates) is evaluated in the HHRA. No humans currently reside at the Shipyard Area; however, the Shipyard Area could at some time be developed for residential use. Therefore, exposure of future residents to contaminants in surface soil is also evaluated in the HHRA.

4.3.2.2 **Subsurface Soil** Exposure of an excavation worker (i.e., ingestion, dermal contact, and inhalation of particulates) is evaluated at sites where ongoing or future construction could result in their exposure to contaminants in subsurface soil.

4.3.2.3 **Sludge** Exposure to the dried sludge would be similar to exposure to surface soil. Currently, adult and adolescent trespassers, occupational workers, site maintenance workers, and excavation workers could be exposed under current site usage to sludge at SWMU 45; therefore, exposure of these receptors is

Table 4-25
Summary of Potential Exposure Pathways
Shipyard Area (SWMUs 1, 23, 24, 25, 44 and 45)

RCRA Facility Investigation, Group III SWMUs
U.S. Naval Station
Mayport, Florida

Medium of Exposure	Route of Exposure	Potentially Exposed Population	Selected for Evaluation?	Reason for Selection or Exclusion
Current Land Use				
Surface Soil	Dermal contact with soil, ingestion of soil, and inhalation of fugitive dust.	Resident (child and adult) Trespasser (adolescent and adult) Occupational worker (adult) Site maintenance worker (adult) Excavation worker (adult)	No Yes Yes Yes Yes	No humans currently reside at the Shipyard Area. Adolescents and adults may be exposed to contaminants in the surface soil while trespassing. Both occupational workers and site maintenance workers may be exposed to contaminants in surface soil. Excavation workers may be exposed to contaminants in surface soil during ongoing construction activities at the Shipyard Area.
Subsurface Soil	Dermal contact with soil, ingestion of soil, and inhalation of fugitive dust.	Excavation worker (adult)	No	No HHCPCs were identified in subsurface soil.
Sludge (SWMU 45)	Dermal contact with dried sludge, ingestion of dried sludge, and inhalation of fugitive dust.	Resident (child and adult) Trespasser (adolescent and adult) Occupational worker (adult) Site maintenance worker (adult) Excavation worker (adult)	No Yes Yes Yes Yes	No humans currently reside at the Shipyard Area. Adolescents and adults may be exposed to contaminants in the sludge while trespassing. Both occupational workers and site maintenance workers may be exposed to contaminants in sludge. Excavation workers may be exposed to contaminants in sludge during ongoing construction activities at the Shipyard Area.
Groundwater: Surficial Aquifer	Ingestion of groundwater as drinking water and inhalation of volatiles while showering.	Resident (adult)	No	There are no current exposures to groundwater.
Future Land Use				
Surface Soil	Dermal contact with soil, ingestion of soil, and inhalation of fugitive dust.	Resident (child and adult) Trespasser (adolescent and adult) Occupational worker (adult) Site maintenance worker (adult) Excavation worker (adult)	Yes No No No No	If the Shipyard Area is developed for residential use, child and adult residents could be exposed to contaminants in surface soil. Future industrial use, though unlikely, may result in occupational exposures. Site maintenance workers could be exposed to contaminants in surface soil during everyday activities. Excavation workers could be exposed to contaminants in surface soil during construction or utility work. However, occupational worker, site worker, and excavation worker exposure scenarios are evaluated under current land use.
Subsurface Soil	Dermal contact with soil, ingestion of soil, and inhalation of fugitive dust.	Excavation worker (adult)	No	Excavation workers could be exposed to contaminants in subsurface soil during construction or utility work. However, excavation worker exposure scenarios are evaluated under current land use.

See notes at end of table.

Table 4-25 (Continued)
Summary of Potential Exposure Pathways
Shipyard Area (SWMUs 1, 23, 24, 25, 44 and 45)

RCRA Facility Investigation, Group III SWMUs
U.S. Naval Station
Mayport, Florida

Medium of Exposure	Route of Exposure	Potentially Exposed Population	Selected for Evaluation?	Reason for Selection or Exclusion
Sludge (SWMU 45)	Dermal contact with dried sludge, ingestion of dried sludge, and inhalation of fugitive dust.	Resident (child and adult) Trespasser (adolescent and adult) Occupational worker (adult) Site maintenance worker (adult) Excavation worker (adult)	No No No No No	Remediation or removal of sludge is planned in the near future.
Groundwater: Surficial Aquifer	Ingestion of groundwater as drinking water and inhalation of volatiles while showering	Resident (adult)	Yes	If the Shipyard Area is developed for residential use, drinking water wells in the surficial aquifer could be influenced by contaminants in the groundwater associated with the Shipyard Area. Therefore, residents could be exposed to contaminants in the surficial aquifer.

Notes: SWMU = solid waste management unit.
RCRA = Resource Conservation and Recovery Act.
HHCPC = human health chemical of potential concern.

Table 4-29
Risk Summary for the Shipyard Area (SWMUs 1, 23, 24, 25, 44, and 45)

RCRA Facility Investigation, Group III SWMUs
U.S. Naval Station
Mayport, Florida

Land Use	Exposure Route	Hazard Index	Excess Lifetime Cancer Risk
Current Land Use			
Surface Soil			
Adolescent trespasser	Incidental ingestion	0.007	5×10^{-7}
	Dermal contact	0.02	5×10^{-7}
	Inhalation of particulates	NC[1]	3×10^{-9}
	Total adolescent trespasser:	0.03	1×10^{-6}
Adult trespasser	Incidental ingestion	0.004	5×10^{-7}
	Dermal contact	0.01	6×10^{-7}
	Inhalation of particulates	NC[1]	3×10^{-9}
	Total adult trespasser:	0.01	1×10^{-6}
	Total trespasser:	NC	2×10^{-6}
Occupational worker	Incidental ingestion	0.01	2×10^{-6}
	Dermal contact	0.03	2×10^{-6}
	Inhalation of particulates	NC[1]	1×10^{-7}
	Total occupational worker:	0.04	4×10^{-6}
Site maintenance worker	Incidental ingestion	0.003	5×10^{-7}
	Dermal contact	0.009	5×10^{-7}
	Inhalation of particulates	NC[1]	1×10^{-8}
	Total site maintenance worker:	0.01	1×10^{-6}
Excavation worker	Incidental ingestion	0.01	8×10^{-8}
	Dermal contact	0.008	2×10^{-8}
	Inhalation of particulates	NC[1]	6×10^{-10}
	Total excavation worker:	0.02	1×10^{-7}
Sludge (SWMU 45)			
Adolescent trespasser	Incidental ingestion	0.003	2×10^{-7}
	Dermal contact	0.009	6×10^{-8}
	Inhalation of particulates	NC[1]	2×10^{-9}
	Total adolescent trespasser:	0.01	3×10^{-7}
Adult trespasser	Incidental ingestion	0.002	2×10^{-7}
	Dermal contact	0.007	8×10^{-8}
	Inhalation of particulates	NC[1]	2×10^{-9}
	Total adult trespasser:	0.01	3×10^{-7}
	Total trespasser:	NC	6×10^{-7}
Occupational worker	Incidental ingestion	0.005	7×10^{-7}
	Dermal contact	0.02	2×10^{-7}
	Inhalation of particulates	NC[1]	7×10^{-8}
	Total occupational worker:	0.02	1×10^{-6}

See notes at end of table.

Table 4-29 (Continued)
Risk Summary for the Shipyard Area (SWMUs 1, 23, 24, 25, 44, and 45)

RCRA Facility Investigation, Group III SWMUs
U.S. Naval Station
Mayport, Florida

Land Use	Exposure Route	Hazard Index	Excess Lifetime Cancer Risk
Site maintenance worker	Incidental ingestion	0.001	2×10^{-7}
	Dermal contact	0.005	7×10^{-8}
	Inhalation of particulates	NC[1]	8×10^{-9}
	Total site maintenance worker:	0.006	3×10^{-7}
Excavation worker	Incidental ingestion	0.006	3×10^{-8}
	Dermal contact	0.005	3×10^{-9}
	Inhalation of particulates	NC[1]	3×10^{-10}
	Total excavation worker:	0.01	3×10^{-8}
Future Land Use			
Surface Soil			
Child resident	Incidental ingestion	0.3	1×10^{-5}
	Dermal contact	0.2	2×10^{-6}
	Inhalation of particulates	NC[1]	2×10^{-7}
	Total child resident:	0.5	1×10^{-5}
Adult resident	Incidental ingestion	0.03	5×10^{-6}
	Dermal contact	0.1	6×10^{-6}
	Inhalation of particulates	NC[1]	2×10^{-7}
	Total adult resident:	0.1	1×10^{-5}
	Total resident:	NC	2×10^{-5}
Groundwater			
Adult resident	Ingestion of groundwater as drinking water	8	8×10^{-4}
	Inhalation of volatiles while showering	NC[1]	2×10^{-6}
	Total adult resident:	8	8×10^{-4}

[1] A hazard index could not be calculated for inhalation exposures because neither inhalation reference doses nor reference concentrations were available for the HHCPCs.

Notes: SWMUs = solid waste management units.
RCRA = Resource Conservation and Recovery Act.
NC = not calculated.
HHCPC = human health chemical of potential concern.

does not appear to be a numerical pattern for the distribution of organic compounds in groundwater samples collected from the surficial aquifer (Subsection 4.2.5).

Inclusion of antimony, arsenic, and manganese in the RGO table is not intended to be a statement that remediation of these chemicals is necessary. The RGO for antimony is less than the Federal MCL and Florida Guidance Concentration, as well as the CRDL/CRQL. Thus, remediation to the RGO for antimony may not be required or confirmable using current analytical technologies. Arsenic was detected in 13 of 17 groundwater samples at concentrations less than the Federal and State drinking water standard of 50 $\mu g/\ell$. The RGOs for arsenic are all below the Federal MCL, Florida Guidance Concentration, and the background screening concentration. In addition, all but one of the RGOs for arsenic are less than the CRDL/CRQL. Therefore, remediation to the RGOs for arsenic may not be required or confirmable using current analytical techniques.

Manganese was detected in 10 of 24 groundwater samples at concentrations less than the Florida Guidance Concentration of 50 $\mu g/\ell$. The RGO associated with an HQ of 0.1 for manganese is less than the Florida Guidance Concentration, which suggests that remediation to this RGO may not be required. The distribution of inorganic analytes detected in groundwater samples collected from the surficial aquifer appears to be random (Subsection 4.2.5).

4.4 ECOLOGICAL ASSESSMENT FOR THE SHIPYARD AREA (SWMUs 1, 23, 24, 25, 44, and 45). The subsections below describe the results of the ecological risk assessment (ERA) for the Shipyard Area (SWMUs 1, 23, 24, 25, 44, and 45). Anecdotal evidence suggests SWMU 1, Landfill A, was located approximately 600 feet to the south of the entrance to the Mayport Turning Basin. Results from surface geophysics, soil borings, and laboratory analysis of environmental samples do not confirm the existence of Landfill A at this location. SWMU 23 (JSI) and the two SWMUs at the domestic Wastewater Treatment Plant (FOWTP) (SWMU 44, Wastewater Treatment Facility Clarifiers 1 and 2, and SWMU 45, Wastewater Treatment Facility Sludge Drying Beds) occupy part of what was previously believed to be Landfill A. SWMU 24 (NFSI) and SWMU 25 (AMI) have been added because of their proximity to SWMU 1 and the similarity of ship repair activities among SWMUs 23, 24, and 25. The ERA for SWMU 1 and the adjacent SWMUs will be conducted as a single comprehensive effort. These SWMUs are collectively referred to as the Shipyard Area. The ERA was completed according to the methodology described in Section 2.4 of the GIR (ABB-ES, 1995a), including selection of ECPCs (Subsection 4.4.1), exposure assessment (Subsection 4.4.2), ecological effects assessment (Subsection 4.4.3), risk characterization (Subsection 4.4.4), and uncertainty analyses (Subsection 4.4.5).

Exposure pathways for ecological receptors evaluated in the assessment are summarized in a Site Conceptual Model (Figure 4-20). Exposure pathways at the Shipyard Area are limited to groundwater. Exposure pathways evaluated for aquatic receptors include direct contact with the groundwater as it discharges into surface water. Exposures associated with potential contamination in surface soil to terrestrial receptors were not evaluated. Terrestrial ecological receptors are not expected to occur in the vicinity of the Shipyard Area because the majority of the site is paved with asphalt or concrete and is located in an industrialized area.

7.0 CONCLUSIONS AND RECOMMENDATIONS

The following sections summarize the results of the Group III RFI and present recommendations for the Group III SWMUs.

7.1 THE SHIPYARD AREA, SWMUs 1, 23, 24, 25, 44, and 45. RFI SWMU 1 and RFA SV SWMUs 23, 24, 25, 44, and 45 (SWMUs requiring confirmatory sampling) were grouped together for RFI field investigations and reporting and are collectively referred to as the Shipyard Area. The Shipyard Area is an industrial area located in the northeastern part of NAVSTA Mayport.

Shallow soil in the vicinity of the Shipyard Area consists of fine grained, well-sorted sands which typically contain shell fragments. At some of the soil boring locations, thin (less than 1 foot) seams of clay or clayey to silty fine sand were encountered. These seams appear to be restricted in areal extent. The relatively low CEC and TOC values suggest that the soil at the Shipyard Area SWMUs has a limited ability to retard contaminant migration; therefore, contaminants, if present, in the surficial aquifer may migrate at rates near linear groundwater flow velocities.

The SWMUs comprising the Shipyard Area are located due south of the Mayport Turning Basin entrance channel. The direction of groundwater flow is generally to the north, toward the Mayport Turning Basin entrance channel (Plate 1). Groundwater in the water table zone at and north of the northern boundaries of the Shipyard Area may be affected by tidal fluctuations. It is likely that the effect in the water table zone of the surficial aquifer is limited to areas located less than 330 feet from the shoreline of the St. Johns River.

Horizontal groundwater flow velocities in the surficial aquifer beneath the Shipyard Area SWMUs are estimated to range from approximately 0.05 ft/d (18 feet per year [ft/yr]) to 0.15 ft/d (54 ft/yr). Assuming a value of 36 ft/yr for the horizontal linear groundwater velocity and no retardation of contaminants, the time for contaminants to migrate from the Shipyard Area, which ranges from 200 to 1,050 feet from the St. Johns River, would be approximately 6 to 29 years.

Geophysical anomalies were detected that could not be readily explained by cultural interferences. The anomalies were investigated with ground-penetrating radar and interpreted to be related to buried utilities and not landfilled materials. The location of SWMU 1 was not confirmed by the geophysical survey. Seven shallow borings to the water table were conducted at SWMU 1 to assess whether landfill materials were present. Landfilled materials were not encountered.

VOCs were not detected in surface soil samples at concentrations that exceed benchmarks; however, five SVOCs, two pesticides, two PCBs and nine inorganics were detected at concentrations that exceed residential benchmarks. Five of the analytes, two SVOCs (benzo(a)pyrene, dibenz(a,h)anthracene), one pesticide (dieldrin), and two inorganics (arsenic and beryllium) were also detected at concentrations that exceed their respective industrial values for FDEP soil cleanup criteria. The SVOCs, pesticides, PCBs, and inorganics that exceeded the benchmarks were detected at various locations in the Shipyard Area and likely represent "hot spots."

None of the organic or inorganic analytes were detected in subsurface soil samples at concentrations that exceed benchmark concentrations.

None of the VOCs or pesticides were detected in the sludge samples collected at SWMU 45 at concentrations that exceed benchmarks. Only one SVOC, benzo(a)pyrene, was detected at concentrations that exceeded residential human health-based benchmarks, but not the FDEP industrial soil cleanup goal of 500 µg/kg. Three of the inorganic analytes (antimony, arsenic, and copper) were detected at concentrations that exceed residential human health-based benchmark concentrations. However, the sludge samples only contained arsenic at concentrations exceeding the FDEP residential soil cleanup goal, but did not exceed the FDEP industrial soil cleanup goal (3.1 mg/kg).

Results of water quality indicator parameters suggest that groundwater in the vicinity of the Shipyard Area does not meet the criteria of a Class G-I or G-II drinking water supply. An appropriate designation for the surficial aquifer beneath the Shipyard Area would be Class G-III.

Pesticides and PCBs were not detected in the groundwater samples. One VOC (1,1-dichloroethene) and one SVOC (bis(2-ethylhexyl)phthalate) were detected at concentrations that exceed their respective USEPA Region III RBCs, but not their Florida Groundwater Guidance Concentrations.

There does not appear to be a discernible areal and numerical distribution for the organic target analytes, nor does there appear to have been significant release of volatile organic compounds to the environment based on comparison of the analytical results with Florida Groundwater Guidance Concentrations.

Seven inorganic analytes (antimony, arsenic, iron, magnesium, manganese, sodium, and vanadium) were detected in groundwater samples at concentrations that exceed benchmark concentrations. Currently, a promulgated primary or secondary standard has not been established for magnesium.

The occurrence of antimony, vanadium, copper, lead, and nickel and possibly manganese and arsenic in the water table zone of the surficial aquifer tend to occur in areas that are hydraulically downgradient from the areas where they were detected in surface soil samples at concentrations that exceeded the FDEP industrial soil cleanup goals. This distribution suggests that a release has occurred to the environment.

The concentrations of iron, magnesium, manganese, and sodium detected in groundwater samples from monitoring wells screened in the deep zone of the surficial aquifer are likely naturally occurring. This is based on groundwater in the surficial aquifer beneath NAVSTA Mayport becoming more saline with depth (Franks, 1980).

7.1.1 Human Health Risk Assessment Risk characterization was conducted for potential exposures to surface and subsurface soil, sludge, and groundwater under current and future land use scenarios. HHCPCs were determined not to exist for subsurface soil during the screening evaluation; therefore, a risk characterization was not conducted for this medium. The following paragraphs summarize the human health risk assessment for surface soil, sludge, and groundwater.

Surface Soil. The cancer risk associated with current land use, including surface soil ingestion, dermal contact, and fugitive dust inhalation, is $2x10^{-6}$ for the trespasser, $4x10^{-6}$ for the occupational worker, $1x10^{-6}$ for the site maintenance worker, and $1x10^{-7}$ for the excavation worker. The cancer risk for a hypothetical future land use is $2x10^{-5}$ for the resident. None of the ELCRs exceed USEPA's target cancer risk range; however, FDEP's target cancer risk of $1x10^{-6}$ is exceeded by some of the exposure scenarios.

The total cancer risks to the resident (ingestion, dermal contact, and inhalation) associated with benzo(a)pyrene ($5.5x10^{-6}$), dibenz(a,h)anthracene ($5.4x10^{-6}$), arsenic ($4.5x10^{-6}$), and beryllium ($5x10^{-6}$) exceed FDEP's target cancer risk of $1x10^{-6}$. It should be noted that five PAHs were detected in the sample designated as the duplicate to surface soil sample, MPT-24-SS06, but were not detected in the sample designated as the environmental sample. The samples was located in a sandy area adjacent to a paved road and an area where vehicles are commonly parked.

Noncancer risks associated with surface soil ingestion, dermal contact, and inhalation of fugitive dust for current and future land use (adolescent trespasser, adult trespasser, occupational worker, site maintenance worker, excavation worker, child resident, and adult resident) are below USEPA's and FDEP's target HI of 1.

Sludge. The cancer risk associated with current land use for sludge ingestion, dermal contact, and fugitive dust inhalation is $6x10^{-7}$ for the trespasser, $1x10^{-6}$ for the occupational worker, $3x10^{-7}$ for the site maintenance worker, and $3x10^{-8}$ for the excavation worker. None of these ELCRs exceed USEPA's target cancer risk range or FDEP's target cancer risk of $1x10^{-6}$.

Noncancer risks for sludge ingestion, dermal contact, and fugitive dust inhalation for current land use (adolescent trespasser, adult trespasser, occupational worker, site maintenance worker, and excavation worker) are all below USEPA's and FDEPs target HI of 1.

Groundwater. The cancer risk associated with hypothetical future ingestion of unfiltered groundwater as drinking water and inhalation of volatiles while showering is $8x10^{-4}$ for the adult resident. Arsenic ($8.3x10^{-4}$) and 1,1-dichloroethene ($2.1x10^{-5}$) are the major contributors to this ELCR, which exceeds USEPA's target cancer risk range. In addition, the total cancer risks associated with 1,1-dichloroethene and arsenic exceed FDEP's target cancer risk of $1x10^{-6}$.

The HI for groundwater ingestion is 8 for the adult resident. This HI exceeds USEPA's and FDEP's target HI of 1. The risk drivers are arsenic (HQ = 2.3) and manganese (HQ = 1.6).

It should be noted that the cancer risk and HQ associated with arsenic at its background screening concentration (8.6 $\mu g/\ell$) are $1x10^{-4}$ and 0.8, respectively (future resident ingestion of groundwater). The HQ associated with manganese at its background screening concentration (198.6 $\mu g/\ell$) is 1.1 (future resident ingestion of groundwater).

Currently, there is no exposure to groundwater from the surficial aquifer under current land use.

7.1.2 Ecological Risk Assessment Exposure pathways evaluated for aquatic receptors include direct contact with the groundwater as it discharges to surface water. Exposures associated with potential contamination in surface soil to terrestrial receptors were not evaluated. Terrestrial ecological receptors are not expected to occur in the vicinity of the Shipyard Area because the majority of the site is paved with asphalt or concrete and is located in an industrialized area.

Thirteen of 24 analytes detected in groundwater samples collected from the Shipyard Area were selected as ECPCs. The predicted maximum and average concentrations of groundwater ECPCs in the St. Johns River are compared to the State of Florida surface water quality standards for Class III marine water (FAC 62-302), AWQC (USEPA, 1986b), and the lowest reported adverse effect concentration in AQUIRE. Maximum exposure point concentrations are less than the lowest toxicity benchmark concentrations for all ECPCs in the groundwater samples, with the exception of cyanide and iron.

Maximum and average exposure concentrations for cyanide in the groundwater samples slightly exceed the Florida surface water quality standard and Federal AWQC. However, the maximum exposure point concentration of cyanide at 1.9 $\mu g/\ell$ is within the range of concentrations detected in background surface water samples collected from the St. Johns River (1.1 to 3.9 $\mu g/\ell$). This suggests that the discharge of cyanide from groundwater to surface water would not result in an increase risk to aquatic receptors under the current conditions.

Maximum and average exposure concentrations for iron in the groundwater samples exceed the sample Florida surface water quality standard and the lowest reported adverse effect reported in AQUIRE (dinoflagellate population growth). The maximum detected concentration of iron detected in groundwater samples from the background monitoring wells is 3,540 $\mu g/\ell$; this concentration also exceeds the aquatic toxicity benchmarks. Iron in groundwater is not expected to present a risk for aquatic receptors in the St. Johns River because it is expected that advection, dispersion, mixing, and retardation, will occur as the groundwater from the Shipyard Area is discharged to surface water and the exposure concentration will be lower than the benchmarks.

Based on these assumptions, groundwater discharges from the Shipyard Area to the surface water of the St. Johns River do not pose a risk to aquatic receptors.

7.1.3 Recommendations The following recommendations are based on the current use of the Shipyard Area as an industrial area and the assumption that this use will not change in the foreseeable future. The basis for the recommendations is the detection of chemicals in surface soil and groundwater beneath SWMUs 1, 23, 24, 25, 44, and 45 at concentrations that exceed residential use criteria. Therefore, the SWMU areas should be designated for industrial use only and groundwater from the surficial aquifer beneath these SWMUs should not be used as a source of potable water. Should use of the Shipyard Area change in the future, the recommendations presented in this report should be reevaluated.

Surface Soil. Additional investigation under an RFI or a corrective measures study for surface soil is not warranted at this time under a current industrial use scenario, as it is unlikely the Shipyard Area would be developed for residential use in the immediate or near future. However, an interim measure should be considered for eliminating the "hot spots" where SVOCs and inorganics

exceed FDEP's industrial soil cleanup goals. The goal of the interim measure should be to reduce the risk under current use for trespasser, occupational worker, and hypothetical residential exposure scenarios to levels that are less than or near the FDEP target cancer risk of $1x10^{-6}$ for industrial exposure.

Additional investigation is warranted for the interim measure to collect surface soil samples for analysis of analytes that exceed the benchmarks at a specific "hot spot." This information should be used to assess the horizontal and vertical extent of the specific chemicals at a "hot spot" and minimize the amount of surface soil requiring remediation.

An ecological risk assessment of terrestrial receptors was not conducted for surface soil at SWMUs 1, 23, 24, 25, 44, and 45. This would be considered a data gap in the RFI should use of the site change from industrial to residential.

Subsurface Soil. Additional investigation under an RFI or a corrective measures study for subsurface soil is not warranted at this time under a current industrial use scenario. The target analytes detected in subsurface soil samples did not exceed benchmarks for industrial exposure.

Sludge. Additional investigation under an RFI or a corrective measures study for sludge is not warranted at this time under a current industrial use scenario, as it is unlikely the Shipyard Area would be developed for residential use in the immediate or near future. Currently, the Navy Public Works Center in Jacksonville, Florida, is developing plans for removal of the sludge drying beds. This removal action would eliminate "hot spots" where SVOCs and inorganics exceed FDEP's residential soil cleanup goals. Upon completion of the removal action, documentation should be provided to regulatory agencies and the site should be reviewed for placement on the no further action list.

The risk assessment completed for SWMU 45 included receptor pathways that may reasonably occur under the current industrial setting. A complete baseline human health risk assessment and possibly an ecological risk assessment would be considered data gaps should the removal of the SWMU 45 Sludge Drying Bed not occur, or the site usage change from industrial to residential. However, it is not likely that the site usage would change to residential without an assessment and demolition of the FOWTP.

Groundwater. Additional investigation under an RFI or a corrective measures study for groundwater is not warranted at this time under a current industrial use scenario, as it is unlikely the Shipyard Area would be developed for residential use in the immediate or near future. The recommendation is based on the following: water in the surficial aquifer beneath the Shipyard Area has characteristics similar to Class G-III; organic chemicals did not exceed Florida Groundwater Guidance Concentrations; the highest concentrations of arsenic, iron, magnesium, manganese, and sodium, which exceed Florida groundwater guidance concentrations, were detected in groundwater samples from monitoring wells screened in the deep zone of the surficial aquifer are likely naturally occurring; groundwater discharges from the Shipyard Area to the surface water of the St. Johns River do not pose a risk to aquatic receptors; and cancer risk is associated with the hypothetical future use of groundwater; however, the surficial aquifer beneath the Shipyard Area is not currently used as a source of potable water.

7.2 THE CARBONACEOUS FUEL BOILER, SWMU 17. SWMU 17, the Carbonaceous Fuel Boiler (CFB), is located in the north central part of NAVSTA Mayport. The Carbonaceous Fuel Boiler, SWMU 17, was a furnace used to reduce the volume of domestic solid waste using diesel fuel or waste oil as auxiliary fuels, and provide steam for NAVSTA Mayport.

Shallow soil in the vicinity of the CFB plant consists of relatively uniform, light tan to tan, brown to dark brown, or gray very fine to fine-grained sand and silty sand with shell fragments that may make up to approximately 20 percent of the soil sample. The relatively low CEC and TOC values suggest that the soil at SWMU 17 has a limited ability to retard contaminant migration; therefore, contaminants, if present, in the surficial aquifer may migrate at rates near linear groundwater flow velocities.

The Carbonaceous Fuel Boiler plant is located on the southwestern side of Mayport Turning Basin (Plate 1). This location is not directly affected by the groundwater mound that dominates flow patterns in the rest of the Group III Area. Groundwater flow in the area near SWMU 17 appears to be to the northeast toward Mayport Turning Basin. Retaining walls constructed for the ship berthing piers may also divert groundwater around the retaining walls, flow beneath the wall, or through stormwater outfalls. Tidal influence of the shallow aquifer in the vicinity of the Carbonaceous Fuel Boiler plant is not likely due to the presence of the Mayport Turning Basin retaining walls (ABB-ES, 1993).

The horizontal groundwater flow velocity in the surficial aquifer beneath the CFB Area is estimated to be approximately 0.1 ft/d (35 ft/yr). Assuming a value of 35 ft/yr for the horizontal linear groundwater velocity and no retardation of contaminants, the time of travel for contaminants from SWMU 17 to Mayport Turning Basin (approximately 300 feet) is estimated to be approximately 9 years.

Two organic analytes (benzo(a)pyrene and dibenz(a,h)anthracene) and two inorganic analytes (arsenic and beryllium) were detected in surface soil samples at concentrations exceeding benchmarks for residential exposure scenarios, but did not exceed the FDEP industrial soil cleanup goal. A likely source for benzo(a)pyrene and dibenz(a,h)anthracene, which were detected in surface soil samples, is residues from vehicle exhaust and/or engine fluids on the parking lot of the Carbonaceous Fuel Boiler. Because the land features at NAVSTA Mayport are influenced by the deposition of dredge material from the Mayport Turning Basin, it cannot be determined whether the concentrations of arsenic and beryllium are related to a release at SWMU 17 or are residual concentrations from the dredge material.

Results of water quality indicator parameters suggest that groundwater in the vicinity of the Carbonaceous Fuel Boiler meet the criteria of a Class G-I or G-II drinking water supply.

VOCs, pesticides, and PCBs were not detected in groundwater samples. One organic, bis(2-ethylhexyl)phthalate, was detected in a groundwater sample at a concentration that exceeded benchmarks. Bis(2-ethylhexyl)phthalate is a common field and laboratory contaminant and is unlikely to be from a release at SWMU 17.

Three inorganic analytes (arsenic, iron, and manganese) were detected in the SWMU 17 groundwater samples at concentrations that exceed benchmarks. The highest detected concentrations of arsenic, iron, and manganese were from monitoring

wells located hydraulically upgradient or crossgradient from SWMU 17; this suggests that these chemicals are not site located. Because the land features at NAVSTA Mayport are influenced by the deposition of dredge material from the Mayport Turning Basin, it is possible that residual concentrations of inorganics from the dredge material have contributed to the inorganic concentrations detected in groundwater samples.

Based on comparison the data collected during the Group III RFI field activity with regulatory benchmarks, there does not appear to have been a significant release of chemicals, if any, to the environment from the Carbonaceous Fuel Boiler at SWMU 17.

7.2.1 Human Health Risk Assessment Risk characterization was conducted for potential exposures to surface and subsurface soil, and groundwater under current and future land-use scenarios. Risks for residential exposure to surface soil and groundwater were not estimated for current land use because no exposures are expected. Additionally, HHCPCs were determined not to exist for subsurface soil during the screening evaluation; therefore, a risk characterization was not conducted for this medium. The following paragraphs summarize the risk characterization for human health risk associated with exposure to surface soil and groundwater.

Surface Soil. The excess lifetime cancer risk (ELCR) for a hypothetical future land use for surface soil ingestion, dermal contact, and fugitive dust inhalation is $1x10^{-6}$ for the trespasser, $1x10^{-5}$ for the resident, $2x10^{-6}$ for the occupational worker, $6x10^{-7}$ for the site maintenance worker, and $6x10^{-8}$ for the excavation worker. None of the ELCRs exceed the USEPA acceptable cancer risk range. The ELCR for a hypothetical future resident exceeds FDEP's risk management goal of $1x10^{-6}$.

The total cancer risks (ingestion, dermal contact, and inhalation) for a hypothetical future resident is associated with benzo(a)pyrene ($3.9x10^{-6}$), dibenz(a,h)anthracene ($2x10^{-6}$), arsenic ($3.1x10^{-6}$), and beryllium ($3.9x10^{-6}$), which exceed FDEP's target cancer risk of $1x10^{-6}$.

The noncancer risks associated with surface soil ingestion, dermal contact, and inhalation of fugitive dust for future land use (adolescent trespasser, adult trespasser, child resident, adult resident, occupational worker, site maintenance worker, and excavation worker) are all below USEPA's and FDEP's target HI of 1.

Groundwater. The cancer risk associated with a hypothetical future ingestion of groundwater as drinking water is $1x10^{-6}$ for the adult resident. This ELCR is within USEPA's acceptable cancer risk range and is at FDEP's target level. The cancer risk associated with bis(2-ethylhexyl)phthalate, the only contributor to the ELCR for the future resident, exceeds or is equal to FDEP's target cancer risk of $1x10^{-6}$. The noncancer risk associated with groundwater ingestion is below USEPA's and FDEP's target HI of 1.

7.2.2 Ecological Risk Assessment Exposure pathways evaluated for aquatic receptors include direct contact with the groundwater as it discharges to surface water. Exposures associated with potential contamination in surface soil to terrestrial receptors were not evaluated. Terrestrial ecological receptors are not expected to occur in the vicinity of the Carbonaceous Fuel Boiler because the

majority of the site is paved with asphalt or concrete and is located in an industrialized area.

Three of 11 analytes detected in groundwater samples collected from the SWMU 17 were selected as ECPCs. The three analytes include one semivolatile (bis[2-ethylhexyl]phthalate), and two inorganics (iron and manganese). The predicted maximum and average concentrations of groundwater ECPCs in the St. Johns River are compared to the State of Florida surface water quality standards for Class III marine water (FAC 62-302), AWQC (USEPA, 1986b), and the lowest-reported adverse effect concentration in AQUIRE. With the exception of iron, maximum exposure point concentrations are less than the lowest toxicity benchmark concentrations for all ECPCs in groundwater.

Maximum and average exposure concentrations of iron in groundwater exceed both the Florida surface water quality standard and the lowest-reported adverse effect concentration in AQUIRE (dinoflagellate population growth) of 100 $\mu g/\ell$. However, the maximum exposure point concentration of iron in groundwater from SWMU 17 (2,220 $\mu g/\ell$) is less than the maximum detected concentration of iron in groundwater from NAVSTA Mayport background samples. Maximum and average detected concentrations of iron from the background monitoring wells also exceed toxicity benchmarks. Iron in groundwater is not expected to present a risk for aquatic receptors in the St. Johns River because it is expected that advection, dispersion, mixing, and retardation will occur as the groundwater from SWMU 17 is discharged to surface water and the exposure concentration will be lower than the benchmark.

Based on these assumptions, groundwater discharges from SWMU 17 to the surface water of the St. Johns River do not pose a risk to aquatic receptors.

7.2.3 Recommendations The following recommendations are based on the current use of the Carbonaceous Fuel Boiler building area as an industrial area and the assumption that this use will not change in the foreseeable future. The basis for the recommendation is the detection of chemicals in surface soil and groundwater beneath SWMU 17 at concentrations that exceed residential use criteria. Therefore, SWMU 17 should be designated for industrial use only, and groundwater from the surficial aquifer beneath the SWMU should not be used as a source of potable water. Should use of the CFB building area change in the future, the recommendations presented in this report should be reevaluated.

Surface Soil. Additional investigation under an RFI or a corrective measures study for surface soil is not warranted at this time under a current industrial use scenario, as it is unlikely the CFB building area would be developed for residential use in the immediate or near future. The target analytes detected in surface soil samples did not exceed benchmarks for industrial exposure scenarios and exposures for the trespasser, occupational worker, site maintenance worker, and excavation worker are less than $1x10^{-6}$.

An ecological risk assessment of terrestrial receptors was not conducted for surface soil at SWMU 17. This may be considered a data gap in the RFI should use of the site change from industrial to residential.

Subsurface Soil. Additional investigation under an RFI or a corrective measures study for subsurface soil is not warranted at this time under a current industrial use scenario, as it is unlikely the CFB building area would be

developed for residential use in the immediate or near future. The target analytes detected in subsurface soil samples did not exceed benchmarks for industrial exposure.

Groundwater. Additional investigation under an RFI or a corrective measures study for groundwater is not warranted at this time under a current industrial use scenario, as it is unlikely the CFB building area would be developed for residential use in the immediate or near future. The recommendation is based on the following: the organic chemical bis(2-ethylhexyl)phthalate detected at concentrations exceeding Florida Groundwater guidance concentrations is likely from cross-contamination of the sample in the field or laboratory; bis(2-ethylhexyl)phthalate was the only contributor to ELCR for the future resident, and exceeds or is equal to FDEP's target cancer risk of $1x10^{-6}$; noncancer risk associated with groundwater ingestion is below USEPA's and FDEP's target HI of 1; groundwater discharges from SWMU 17 to the surface water of Mayport Turning Basin do not pose a risk to aquatic receptors; and cancer risk is associated with the hypothetical future use of groundwater; however, the surficial aquifer beneath SWMU 17 is not currently used as a source of potable water.

7.3 THE FLEET TRAINING CENTER, SWMUs 14 AND 18. SWMU 14, the Mercury/Oil Waste Spill Area and SWMU 18, the Fleet Training Center Diesel Generator Sump, are located at the FTC which is near the mouth of the St. Johns River in northeast NAVSTA Mayport. Associated with SWMU 14 at the FFTA are drains that connect to an oil-water separator, a stormwater collection system, a petroleum storage area, and an area that was reported to have been used for storage of mercuric nitrate (A.T. Kearney, 1989). SWMU 18 consists of a diesel-powered electrical generator within a surrounding concrete containment curb approximately 6 inches high. The two SWMUs share a similar geologic and hydrogeologic setting and therefore were grouped to facilitate a comprehensive approach to the investigation of the sites.

Shallow soil in the vicinity of SWMUs 14 and 18 typically consists of various shades from light tan to brown, dark gray, or black fine-grained sand or silty sand. Minor amounts of shell material are present in some of the borings. The relatively low CEC and TOC values suggest that the soil at the FTC SWMUs has a limited ability to retard contaminant migration; therefore, contaminants, if present, in the surficial aquifer may migrate at rates near linear groundwater flow velocities.

The SWMUs comprising the Fleet Training Center Area are located due south of the St. Johns River, and approximately 1,000 feet west of the Atlantic Ocean in the northeastern part of NAVSTA Mayport. The direction of groundwater flow is generally to the north, toward the St. Johns River (Plate 1). Tidal influence of the water table zone of the surficial aquifer was observed to occur in an area north of the Fleet Training Center Area SWMUs, approximately 400 feet or less from the shoreline.

Radial hydraulic conductivity values in the vicinity of the FTC ranged from approximately 7.2 to 22.1 ft/d with an average of approximately 12.2 ft/d. Horizontal groundwater flow velocities in the surficial aquifer beneath the Fleet Training Center Area SWMUs are estimated to range from approximately 0.03 ft/d (10 ft/yr) to 0.14 ft/d (51 ft/yr).

Five SVOCs (benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, dibenz-(a,h)anthracene, and indeno(1,2,3-cd)pyrene) and one pesticide (dieldrin) were detected in surface soil samples at concentrations that exceed benchmark values for residential exposure scenarios. None of the organic analytes were detected in subsurface soil samples at concentrations that exceed benchmark values. It should be noted that soil samples were not collected directly beneath the two aircraft mockups and the concrete detention basin because these structures were in use.

Three SVOCs that exceeded the residential benchmark values were all detected in sediment samples collected from the stormwater drop inlet on the north side of the unnamed dirt road.

Dieldrin was detected in the duplicate to the surface soil sample collected at monitoring well MPT-18-MW01S at a concentration which exceeded the FDEP soil cleanup goal and the USEPA Region III RBC. Dieldrin was detected in the associated surface soil sample at a concentration that did not exceed either the FDEP soil cleanup goal or the USEPA Region III RBC.

Arsenic and beryllium were detected at concentrations that exceeded residential exposure scenarios for FDEP soil cleanup goals and USEPA Region III RBCs. Copper was detected in one sample at a concentration that exceeded the USEPA Region III RBCs for residential exposure. Arsenic and beryllium were not detected at concentrations that exceed their respective FDEP soil cleanup goal for industrial exposure.

There is no apparent numerical or spatial distribution to the occurrence of arsenic or beryllium at SWMUs 14 and 18. Because the land features at NAVSTA Mayport are influenced by the deposition of dredge material from Mayport Turning Basin, it cannot be determined whether or not the concentrations of arsenic and beryllium are related to a release at SWMUs 14 or 18, or are residual concentrations from the dredge material.

Concentrations of chloride detected in the two surface water samples suggest that surface water in the vicinity of SWMUs 14 and 18 could be classified as predominantly marine water (concentrations of chloride greater than 1,500 mg/ℓ) according to FAC, 62-302, Surface Water Quality standards.

There were no organic target analytes detected in the surface water samples. Three target analytes (lead, magnesium, and sodium) were detected at concentrations that exceed background screening values. None of the inorganic analytes were detected at concentrations that exceed the Ambient Water Quality Criteria (USEPA, 1986b) and Class III Marine surface water quality criteria (FAC, 62-302.530) benchmarks.

PAHs were detected in the sediment samples collected from the drainage pathway leading from the drainage culvert headwall to the jetties. Pesticides were detected in one of the two sediment samples collected from the tidal pool area. The benchmarks for the sediment samples are the TELs in *Approach to the Assessment of Sediment Quality in Florida Coastal Waters*, (MacDonald, 1994), ER-L values in the National Oceanic, and Atmospheric Administration (NOAA) document *Incidence of Adverse Biological Effects within Ranges of Chemical Concentrations in Marine and Estuarine Sediments* (Long et. al., 1994). The PAHs and pesticides

exceeded the benchmark values. None of the inorganic analytes detected in the sediment samples exceeded the benchmarks.

The sources of the SVOCs are possibly from the historic use of SWMU 14 for firefighter training activities and/or emission and fluid residues from vehicles at parking lots that contribute surface water runoff to the drainage ditch system at the FTC. The source of the pesticide is likely the historic applications of pesticides.

Results of water quality indicator parameters suggest that groundwater in the vicinity of the SWMUs 14 and 18 meets the criteria of a Class G-I or G-II drinking water supply.

Only the groundwater sample from monitoring well MPT-14-WM09S contained the SVOC 2-methylnaphthalene, which was detected in a groundwater sample hydraulically downgradient from the airplane mockup, at a concentration that exceeds the Florida groundwater guidance concentration, but not the USEPA Region III RBC. The detection of this and other SVOCs in monitoring wells located hydraulically downgradient of the firefighter training mockup suggests that there has been a release from SWMU 14.

The groundwater field screening sample from location MPT-14-TP04 was observed to contain free-phase hydrocarbons; this is the same location as monitoring well MPT-14-MW09S. However, floating free-phase hydrocarbons have not been measured or observed at this monitoring well location.

Four inorganic analytes, antimony, arsenic, iron, and manganese, were detected at concentrations that exceeded the benchmarks from Florida groundwater guidance concentrations (FDEP, 1994) and USEPA Region III RBCs (USEPA, 1995a).

Antimony was detected as a single occurrence in the groundwater sample collected from monitoring well MPT-14-MW06S, which approximately 170 feet hydraulically downgradient from SWMU 14. Antimony was not detected in groundwater samples from the other monitoring wells at SWMUs 14 and 18.

Arsenic exceeded the USEPA Region III RBC in 16 of 17 groundwater samples. Iron exceeded the FDEP groundwater guidance concentration in 9 of 17 samples. Manganese was detected in 12 of 17 samples at concentrations that exceed Florida groundwater guidance concentrations. The detections of arsenic, iron, and manganese appear to represent a random pattern with some of the highest-detected concentrations in groundwater samples from monitoring wells located hydraulically upgradient or sidegradient from SWMUs 14 and 18. The distribution of antimony, arsenic, iron, and manganese suggests that they are not likely site related.

7.3.1 Human Health Risk Assessment Risk characterization was conducted for potential exposures to surface and subsurface soil, surface water, sediment, and groundwater under current and future land-use scenarios.

Surface Soil. The cancer risk associated with current land use for surface soil ingestion, dermal contact, and fugitive dust inhalation is $2x10^{-6}$ for the trespasser and $3x10^{-7}$ for the excavation worker. The cancer risk for hypothetical future land use is $2x10^{-5}$ for the resident, $4x10^{-6}$ for the occupational worker, and $1x10^{-6}$ for the site maintenance worker. None of the ELCRs exceed USEPA's target cancer risk range.

Noncancer risks associated with surface soil ingestion, dermal contact, and inhalation of fugitive dust for current land use (adolescent trespasser, adult trespasser, and excavation worker) are all below USEPA's and FDEP's target HI of 1. Noncancer risks associated with surface soil for future land use (child resident, adult resident, occupational worker, and site maintenance worker) are also below the USEPA's and FDEP's target HI of 1.

Subsurface Soil. HHCPCs were determined not to exist for subsurface soil during the screening evaluation; therefore, a risk characterization was not conducted for this media.

Sediment. The ELCR for current land use including incidental ingestion of and dermal contact with sediment is $2x10^{-6}$ for the trespasser. The cancer risk under a hypothetical future land use is $5x10^{-6}$ for the resident. Neither of the ELCRs exceeds USEPA's target cancer risk range.

Noncancer risk associated with sediment ingestion and dermal contact under current and future land use (adolescent trespasser, adult trespasser, child resident, and adult resident) is below USEPA's and FDEP's target HI of 1.

Groundwater. No volatile organic compounds were detected in the groundwater samples collected from the monitoring wells installed at SWMU 14 and 18, therefore, cancer risk associated with the inhalation of volatiles was not evaluated.

The total cancer risk associated with hypothetical future ingestion of groundwater as drinking water is $7x10^{-5}$ for the adult resident. The cancer risk associated with arsenic, the only contributor to the ELCR for the future resident, exceeds FDEP's target cancer risk of $1x10^{-6}$. This ELCR does not exceed USEPA's target cancer risk range.

Noncancer risk associated with groundwater ingestion is below USEPA's and FDEP's target HI of 1.

7.3.2 Ecological Risk Assessment Exposure pathways evaluated for terrestrial and aquatic receptors include direct contact with surface water, sediment, and the groundwater as it discharges to surface water. Exposures associated with potential contamination in surface soil to terrestrial receptors were not evaluated. Terrestrial ecological receptors are not expected to occur in the vicinity of SWMUs 14 and 18 because the majority of the site is paved with asphalt or concrete and is located in an industrialized area.

Risks for the representative wildlife species associated with ingestion of surface water, sediment, and aquatic life were quantitatively evaluated using HQs, which are calculated for each ECPC by dividing the estimated dietary exposure concentrations (PDE) by the toxicological benchmark (RTV). No risks to terrestrial wildlife populations are assumed because the HIs for maximum exposure point concentrations did not exceed 1.

The following paragraphs present a summary of the ecological risk characterization for potential aquatic receptors.

Surface Water. Concentrations of iron detected in surface water samples collected from the drainage ditch exceed the available aquatic toxicity

benchmarks. However, the concentrations of iron are below the Florida surface water quality standard and the maximum detected concentration of iron in the background surface water samples.

It is not likely that the concentrations of iron detected in the surface water samples pose a risk to aquatic receptors because of the ephemeral nature of the system. The surface water drainage ditch is dry during low tide and habitat utilization by aquatic receptors is limited to periods of high tide, when the area is flooded by water from the St. Johns River or Atlantic Ocean.

Sediment. Risks for aquatic receptors were identified for aquatic receptors at the three sampling locations in the drainage ditch located north of SWMU 14 that discharges to the St. Johns River. Comparison of the analytical data with the benchmarks suggests that adverse risks to aquatic receptors in the drainage ditch are associated with the PAHs and pesticides detected in the sediment samples.

PAHs were detected at concentrations exceeding the State of Florida PEL. The PEL defines the lower limit of the range of contaminant concentrations that are usually or always associated with adverse biological effects. PAHs were also detected at concentrations that exceed the State of Florida TEL, but are less than the PEL. Within this range of concentrations, adverse biological effects are possible; however, it is difficult to predict the occurrence, nature, and/or severity of these effects.

Concentrations of PAHs that exceed the PEL are considered to represent a hazard to aquatic organisms. However, where concentrations of PAHs exceed the TEL, but not the PEL, toxicity testing (survival testing with benthic organisms) using sediment from the sampling locations where this occurred would be necessary to determine if the concentrations of PAHs represent a hazard to aquatic organisms.

A sediment sample from the tidal pool area contained 4,4'-DDT at a concentration that exceeded the State of Florida PEL and the concentration of dieldrin exceeded the TEL. 4,4'-DDT and dieldrin were not detected in the sediment sample from the other sampling location at the tidal pool area. The close proximity of the two sampling locations in the tidal pool area suggest that 4,4'-DDT and dieldrin are a localized "hot spot".

Groundwater. Maximum exposure point concentrations are less than the lowest toxicity benchmark concentrations for all ECPCs in detected in the groundwater samples, with the exception of cyanide and iron. However, the maximum exposure point concentration of cyanide is within the range of concentrations detected in the St. Johns River surface water samples and the maximum exposure point concentration of iron in groundwater is less than the maximum detected concentration of iron in groundwater from the background samples (ABB-ES, 1995a).

Therefore, the discharge of groundwater containing cyanide and iron at the concentration detected in the groundwater sample to surface water would not result in increasing the current condition. No incremental increase in risks to aquatic receptors is expected to occur as a result of exposure to cyanide by the discharge of groundwater to surface water in the vicinity of SWMUs 14 and 18.

7.3.3 Recommendations The following recommendations are based on the current use of the SWMUs 14 and 18 as an industrial area and the assumption that this use will not change in the foreseeable future. The basis for the recommendation is

the detection of chemicals in sediment and groundwater beneath SWMUs 14 and 18 at concentrations that exceed residential use criteria. Therefore, the areas should be designated for industrial use only, and groundwater from the surficial aquifer beneath these SWMUs should not be used as a source of potable water. Should use of the SWMUs 14 and 18 change in the future, the recommendations presented in this report should be reevaluated.

Surface Soil. Additional investigation under an RFI or a corrective measures study for surface soil is not warranted at this time under a current industrial use scenario, as it is unlikely that SWMUs 14 and 18 would be developed for residential use in the immediate or near future. However, an interim measure should be considered for eliminating the SVOCs detected in the open drainage culverts if they exceed FDEP's industrial soil cleanup goals. The goal of the interim measure should be to reduce the risk under current use for a trespasser and hypothetical residential exposure scenarios to levels that are less than or near the FDEP target cancer risk of $1x10^{-6}$ for industrial exposure.

Additional investigation is warranted for the interim measure to collect surface soil samples for analysis of analytes that exceed the benchmarks at the open stormwater drop inlets. This information should be used to assess the horizontal and vertical extent of the specific chemicals and minimize the amount of surface soil requiring remediation.

Assessment of the soil beneath the aircraft mockups and the concrete detention basin should be conducted after firefighting training activities at SWMU 14 are discontinued in 1996. It is recommended that if chemicals are found in surface or subsurface soil samples at concentrations exceeding human health and/or ecological screening concentrations that an interim measure should be conducted. This recommendation is based on interpretation of analytical results from groundwater samples collected from monitoring wells located hydraulically downgradient from these structures. These data suggest that a release has occurred, but not at concentrations that exceed promulgated Federal or State maximum contaminant levels.

An ecological risk assessment of terrestrial receptors was not conducted for surface soil at SWMUs 14 and 18. This would be considered a data gap in the RFI should use of the site change from industrial to residential.

Subsurface Soil. Additional investigation under an RFI or a corrective measures study for subsurface soil is not warranted at this time under a current industrial use scenario, as it is unlikely the SWMUs 14 and 18 would be developed for residential use in the immediate or near future. The target analytes detected in subsurface soil samples did not exceed benchmarks for industrial exposure.

Sediment. Additional investigation under an RFI or a corrective measures study for sediments is not warranted at this time under a current industrial use scenario, as it is unlikely that SWMUs 14 and 18 would be developed for residential use in the immediate or near future. However, an interim measure should be considered for eliminating the PAHs detected in the drainage ditch north of SWMU 14 that exceed FDEP's industrial soil cleanup goals and the Florida sediment quality goals.

The goal of the interim measure should be to reduce the risk to human receptors under current use for a trespasser and hypothetical residential exposure scenarios and for ecological receptors to concentrations of PAHs less than the Florida sediment quality goal TEL.

Surface Water. Additional investigation under an RFI or a corrective measures study for surface water is not warranted at this time under a current industrial use scenario, as it is unlikely that SWMUs 14 and 18 would be developed for residential use in the immediate or near future. Concentrations of iron detected in the surface water samples are below the Florida surface water quality standard and the maximum detected concentration of iron in the background surface water samples. It is not likely that the concentrations of iron detected in the surface water samples pose a risk to aquatic receptors because of the ephemeral nature of the system.

The surface water drainage ditch is dry during low tide and habitat utilization by aquatic receptors is limited to periods of high tide, when the area is flooded by water from the St. Johns River or Atlantic Ocean.

Groundwater. Additional investigation under an RFI or a corrective measures study for groundwater is not warranted at this time under a current industrial use scenario, as it is unlikely SWMUs 14 and 18 would be developed for residential use in the immediate or near future. The recommendation is based on the following: volatile organic compounds were not detected in the groundwater samples; noncancer risk associated with groundwater ingestion is below USEPA's and FDEP's target HI of 1; groundwater discharges from the SWMUs 14 and 18 to the surface water of the St. Johns River do not pose a risk to aquatic receptors; and cancer risk is associated with the hypothetical future use of groundwater; however, the surficial aquifer beneath SWMUs 14 and 18 is not currently used as a source of potable water.

ATTACHMENT B

LETTER REPORT FROM JOHNSON CONTROLS-HILL REGARDING DEMOLITION OF PRIMARY CLARIFIERS AND SLUDGE DRYING BEDS AT SWMU 45

Johnson Controls
HILL

October 21, 2003

Commanding Officer
Naval Station Mayport (N4E2)
P.O. Box 280067
Mayport, FL 32228-0067

Re: Demolition of Primary Clarifiers and Sludge Drying Beds Domestic Wastewater Treatment Plant, Building 285 U.S. Naval Station, Mayport, Florida
FDEP Facility ID No. FL9 170 024 260

Dear Sir:

Johnson Controls-HILL (JC-H) is pleased to submit this letter report detailing the activities conducted at the above referenced facility. As part of the Resource Conservation Recovery Act (RCRA) Facility Investigation, the former primary clarifiers and sludge drying beds associated with the Wastewater Treatment Plant at the U. S. Naval Station in Mayport, Florida, were identified as Solid Waste Management Units (SWMUs) 44 and 45, respectively (Figure 1). The U.S. Navy made the decision to remove the clarifiers and drying beds, which were no longer in use. JC-H, working with the U.S. Navy, subcontracted Enola Contracting Services, Inc. (Enola), to demolish the clarifiers and drying beds formerly used at the Wastewater Treatment Plant. The demolition project began in May 2003 and was completed by July 2003. Activities included the removal of sludge material from the drying beds, removal of rainwater from the clarifiers, and demolition of the concrete and piping associated with the clarifiers and drying beds. Prior to removal of materials, sewage sludge samples associated with the clarifiers and drying beds were collected and analyzed for volatile organic compounds (VOCs), semi-volatile organic compounds (SVOCs), pesticides, polychlorinated biphenyls (PCBs), metals, and cyanide to characterize the sludge material. The results of the analytical testing, which were submitted in the RCRA Facility Investigation, Group III SWMUs, U.S. Naval Station, Mayport, Florida (December 1996), are included in Appendix A.

The majority of the sludge material, characterized as non-hazardous, had been previously removed from the drying beds by others. Sludge material remained in specific locations of the beds and had to be removed before the demolition of the drying beds, concrete walls, and metal and clay piping (Figure 2). The sludge material was removed with a backhoe and placed in roll-off containers for proper disposal through Public Works Center Jacksonville (PWC JAX) Permitted Part B Facility.

As part of the drying bed demolition, waste concrete and piping was generated. The concrete rubble and clay piping was segregated from the metal piping and placed in separate roll-off containers for recycling. All soil and/or sludge was rinsed from the concrete and piping using a pressure washer and left on site prior to placement in the containers.

Naval Air Station Jacksonville • P.O. Box 77 • Jacksonville, Florida 32212-5000
Phone (904) 778-3868 • Fax (904) 573-0644

Johnson Controls
HILL

Continued—

Re: Demolition of Primary Clarifiers and Sludge Drying Beds Domestic Wastewater Treatment Plant, Building 285 U.S. Naval Station, Mayport, Florida
FDEP Facility ID No. FL9 170 024 260

After segregating all the debris, the backhoe was decontaminated in the former drying beds to prevent the spread of sludge material to other areas. Fill dirt was then brought to the site, and the land was graded and seeded.

Once the work at the drying beds was completed, Enola proceeded to demolish the clarifiers. Again, waste concrete and piping generated was segregated in separate roll-off containers for recycling. All soil was rinsed from the waste and left onsite. Additional fill dirt was brought to the site, and the land was graded and seeded.

All the concrete, including the clay piping from the drying beds, was delivered to Realco Recycling Company. Written confirmation that Realco Recycling accepted the waste is included in Appendix B. All the metal piping was taken to Naval Station Mayport Base Recycling. The forms documenting the concrete and metal recycling are included in Appendix C.

The demolition project was completed on schedule and as planned. Photographs documenting the work completed at the site are included in Appendix D.

If you have any questions or need additional information, please contact me at 904-778-3868.

Sincerely,

Kenneth J. Melchiorre (Ken), P.E.
Johnson Controls-HILL
NAS Jacksonville Site Manager

cc: Angela Bushey, EFA Southeast
Jay Caddy, PWC Utilities, JAX
Alan Clark, Enola Contracting Services, Inc.

Naval Air Station Jacksonville • P.O. Box 77 • Jacksonville, Florida 32212-5000
Phone (904) 778-3868 • Fax (904) 573-0644

Figures

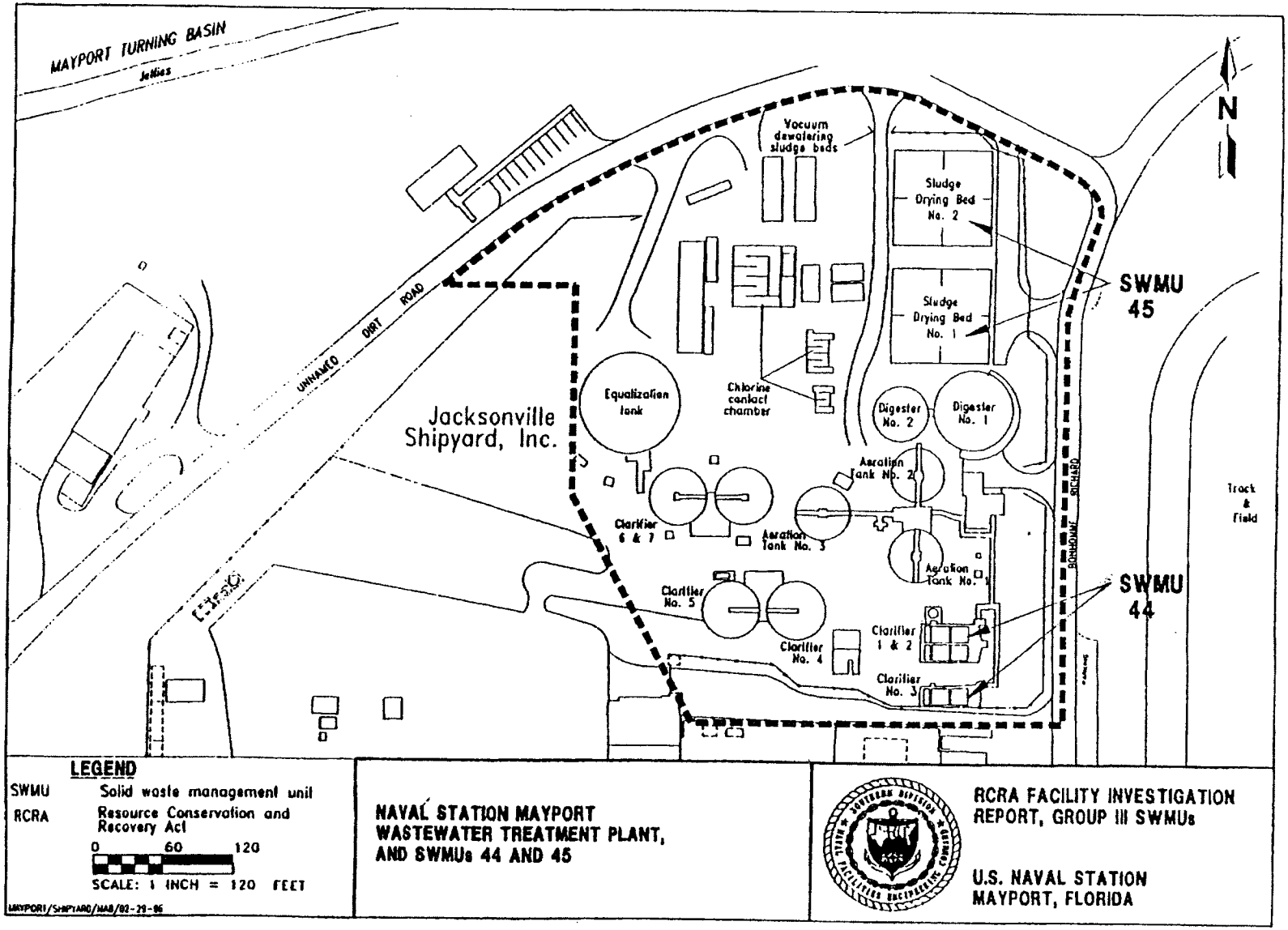

MAYPORT TURNING BASIN
Jetties
UNNAMED DIRT ROAD
Vacuum dewatering sludge beds
Sludge Drying Bed No. 2
Sludge Drying Bed No. 1
SWMU 45
Jacksonville Shipyard, Inc.
Equalization tank
Chlorine contact chamber
Digester No. 2
Digester No. 1
Aeration Tank No. 2
Clarifier 6 & 7
Aeration Tank No. 3
Aeration Tank No. 1
Clarifier No. 5
Clarifier No. 4
Clarifier 1 & 2
Clarifier No. 3
SWMU 44
Track & Field
N
LEGEND
SWMU Solid waste management unit
RCRA Resource Conservation and Recovery Act
0 60 120
SCALE: 1 INCH = 120 FEET
NAVAL STATION MAYPORT
WASTEWATER TREATMENT PLANT,
AND SWMUs 44 AND 45
RCRA FACILITY INVESTIGATION
REPORT, GROUP III SWMUs
U.S. NAVAL STATION
MAYPORT, FLORIDA

Figure 1

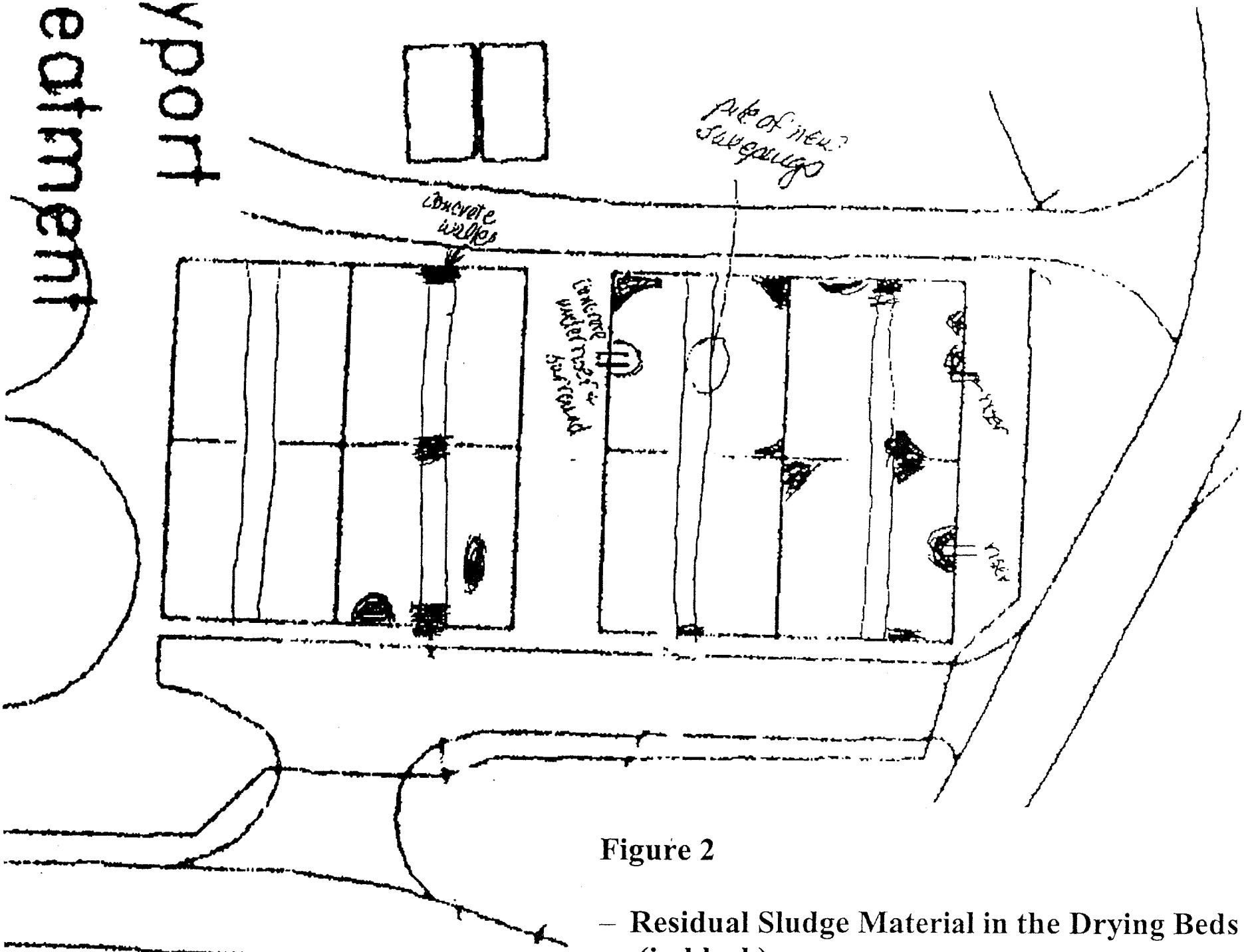


Figure 2

– **Residual Sludge Material in the Drying Beds (in black)**

Appendix A

SWMU 44 surface soil COCs

COC[1]	Sample Locations	Sample ID[2]	Sample Date	Detected Concentration[3]	MCS[4]
SURFACE SOIL					
BENZO(A)PYRENE	MPT-44-SS01	44S00101	04/05/95	440 J	170
		44S00101-D	04/05/95	350 J	
MERCURY	MPT-44-SS01	44S00101	04/05/95	7.9	2.1
		44S00101-D	04/05/95	5.9	
SILVER	MPT-44-SS01	44S00101	04/05/95	23.9 J	17
		44S00101-D	04/05/95	21.7 J	

1 COC - chemical of concern
2 "D" at end of sample ID indicates duplicate sample.
3 All units are ug/kg, except metals that is mg/kg.
4 MCS - Media Cleanup Standard

SWMU 45 list of surface soil COCs.

COC[1]	Sample Locations	Sample ID[2]	Sample Date	Detected Concentration[3]	MCS[4]
SURFACE SOIL					
BENZO(A)PYRENE	MPT-45-SS01	45S00101	03/29/95	460	100
	MPT-45-SS01	45S00101-D	03/29/95	270 J	
	MPT-45-MW02S	45S01001	05/24/95	250 J	
DI-N-BUTYL PHTHALATE	MPT-45-SS01	45S00101	03/29/95	2300	1500
DIBENZO(A,H)ANTHRACENE	MPT-45-SS01	45S00101	03/29/95	130 J	100
PHENANTHRENE	MPT-45-SS01	45S00101	03/29/95	730	700
	MPT-45-SS01	45S00101-D	03/29/95	1300	
CHLORDANE	MPT-45-SS06	45S00601	03/29/95	540	3
	MPT-45-MW02S	45S01001	05/24/95	120 J	
DIELDRIN	MPT-45-SS01	45S00101	03/29/95	1	0.1
	MPT-45-SS04	45S00401	03/29/95	1.2	
	MPT-45-SS06	45S00601	03/29/95	25	
	MPT-45-MW02S	45S01001	05/24/95	3.9 J	
BETA-BHC	MPT-45-MW02S	45S01001	05/24/95	2.6 J	1
ANTIMONY	MPT-45-SS04	45S00401	03/29/95	5.9 J	5
ARSENIC	MPT-45-SS01	45S00101	03/29/95	0.97 J	0.74
	MPT-45-SS01	45S00101-D	03/29/95	0.85 J	
	MPT-45-SS02	45S00201	03/29/95	1.2 J	
	MPT-45-SS03	45S00301	03/29/95	1.5 J	
	MPT-45-SS04	45S00401	03/29/95	2 J	
	MPT-45-SS06	45S00601	03/29/95	0.99 J	
	MPT-45-SS07	45S00701	03/29/95	1.7 J	
	MPT-45-MW02S	45S01001	05/24/95	1.5 J	
MERCURY	MPT-45-SS01	45S00101	03/29/95	0.49	0.01
	MPT-45-SS01	45S00101-D	03/29/95	0.51	
	MPT-45-SS02	45S00201	03/29/95	0.1	
	MPT-45-SS03	45S00301	03/29/95	0.13	
	MPT-45-SS04	45S00401	03/29/95	0.37	
	MPT-45-SS05	45S00501	03/29/95	0.05 J	
	MPT-45-SS06	45S00601	03/29/95	2	
	MPT-45-SS07	45S00701	03/29/95	0.09	
	MPT-45-MW02S	45S01001	05/24/95	0.41	
SILVER	MPT-45-SS06	45S00601	03/29/95	19.3	17

1 COC - chemical of concern
2 "D" at end of sample ID indicates duplicate sample.
3 All units are ug/kg, except metals that is mg/kg.
4 MCS - Media Cleanup Standard

SWMU 45 list of sludge COCs.

COC[1]	Sample Locations	Sample ID[2]	Sample Date	Detected Concentration[3]	MCS[4]
SURFACE SOIL					
PHENOL	MPT-45-SL05	45L00501	03/28/95	340 J	30
	MPT-45-SL08	45L00801	03/28/95	220 J	
DIELDRIN	MPT-45-SL01	45L00101-D	03/28/95	0.79 J	0.1
	MPT-45-SL02	45L00201	03/28/95	0.8	
	MPT-45-SL05	45L00501	03/28/95	3.8 J	
	MPT-45-SL05	45L00502	03/28/95	1.5 J	
	MPT-45-SL06	45L00601	03/28/95	3.7 J	
	MPT-45-SL06	45L00602	03/28/95	2 J	
	MPT-45-SL07	45L00701	03/28/95	1.5 J	
	MPT-45-SL07	45L00702	03/28/95	1 J	
	MPT-45-SL08	45L00801	03/28/95	0.92 J	
MERCURY	MPT-45-SL01	45L00101	03/28/95	0.19	0.01
	MPT-45-SL01	45L00101-D	03/28/95	0.22	
	MPT-45-SL01	45L00102	03/28/95	0.05 J	
	MPT-45-SL01	45L00102-D	03/28/95	0.04 J	
	MPT-45-SL02	45L00201	03/28/95	0.09	
	MPT-45-SL02	45L00202	03/28/95	0.08	
	MPT-45-SL03	45L00301	03/28/95	0.22	
	MPT-45-SL03	45L00302	03/28/95	0.12	
	MPT-45-SL04	45L00401	03/28/95	0.14	
	MPT-45-SL04	45L00402	03/28/95	0.08	
	MPT-45-SL05	45L00501	03/28/95	1.1	
	MPT-45-SL05	45L00502	03/28/95	0.64	
	MPT-45-SL06	45L00601	03/28/95	0.8	
	MPT-45-SL06	45L00602	03/28/95	0.44	
	MPT-45-SL07	45L00701	03/28/95	0.2	
	MPT-45-SL07	45L00702	03/28/95	0.2	
	MPT-45-SL08	45L00801	03/28/95	0.11	
	MPT-45-SL08	45L00802	03/28/95	0.07	

1 COC - chemical of concern
2 "D" at end of sample ID indicates duplicate sample.
3 All units are ug/kg, except metals that is mg/kg.
4 MCS - Media Cleanup Standard

Appendix B

Realco Recycling Co., Inc.

8707 SOMERS ROAD • JACKSONVILLE, FL 32226
Phone: (904) 757-7311
Fax: (904) 751-6611

April 14, 2003

Kenneth J. Melchiorre, P.E.
Johnson Controls-HILL
NAS Jacksonville Site Manager
P O Box 77
Jacksonville, Fl. 32212-5000

Re: Concrete Disposal Associated with Demolition of Clarifiers and Drying Beds
NAVSTA Mayport, Florida

Dear Mr. Melchiorre,

In response to your letter dated April 7, 2003: Realco Recycling will accept the waste concrete associated with the clarifiers and drying beds.

This material will consist only of concrete: all soil and sludge material will be washed off the concrete before placement in the roll-off container.

Pricing for the roll off container service can be discussed with Bill Hamlin at 751-1556.

Thank You,

Andrew Senesac
President

Appendix C

Realco Recycling Co., Inc.

Krush Krete Division
8707 SOMERS ROAD
JACKSONVILLE, FLORIDA 32226
(904) 757-7607 • (904) 751-1556

WEIGHT INFORMATION

23020 LB 12:25 PM MY 27 03

43180 LB 12:18 PM MY 27 03

Amount: 10.08 Tons

DISPOSAL FEE

Concrete		Amount	$
		Sales Tax	
		Delivery	
		Total	N/C

RECEIPT

P.O. Number Ticket # 29413

Charged To: Enola - Conti Jr.

Address: Mayport Base

VIA: 19

Received by:

Form # KK001

Realco Recycling Co., Inc.

Krush Krete Division
8707 SOMERS ROAD
JACKSONVILLE, FLORIDA 32226
(904) 757-7607 • (904) 751-1556

WEIGHT INFORMATION

48680 LB 03:39 PM MY 27 03

23000

Amount: 12.83 To

DISPOSAL FEE

Concrete		Amount	$
		Sales Tax	
		Delivery	
		Total	N/C

RECEIPT

P.O. Number Ticket # 29417

Charged To: Enola Conti,

Address: Mayport Base.

VIA: 19

Received by:

Form # KK001

Realco Recycling Co., Inc.

Krush Krete Division
8707 SOMERS ROAD
JACKSONVILLE, FLORIDA 32226
(904) 757-7607 • (904) 751-1556

WEIGHT INFORMATION

48760 LB 04:27 PM MY 27 03
ZZ720

Amount: 13.02 Tons

DISPOSAL FEE

Concrete		Amount	$
		Sales Tax	
		Delivery	
		Total	N/C

RECEIPT

P.O. Number Ticket # 29418

Charged To: Ezola Conti

Address: Mayport Road

VIA: 1

Received by:

Form # KK001

Realco Recycling Co., Inc.

Krush Krete Division
8707 SOMERS ROAD
JACKSONVILLE, FLORIDA 32226
(904) 757-7607 • (904) 751-1556

WEIGHT INFORMATION

29820 LB 01:31 PM MY 27 03

48340 LB 01:18 PM MY 27 03

Amount: 9.24 Tons

DISPOSAL FEE

Concrete		Amount	$
		Sales Tax	
		Delivery	
		Total	N/C

RECEIPT

P.O. Number Ticket # 29416

Charged To: Ezola Conti

Address: Mayport Road

VIA: 2

Received by:

Form # KK001

Realco Recycling Co., Inc.

Krush Krete Division
8707 SOMERS ROAD
JACKSONVILLE, FLORIDA 32226
(904) 757-7607 • (904) 751-1556

WEIGHT INFORMATION

49640 LB 09:29 AM MY 28 03

22800

Amount: 13.42 Tons

DISPOSAL FEE

Concrete		Amount	$
		Sales Tax	
		Delivery	
		Total	

RECEIPT

P.O. Number Ticket No. 29421

Charged To: Enola Contr.

Address: Mayport Base

VIA: 14

Received by:

Form # KK001

Realco Recycling Co., Inc.

Krush Krete Division
8707 SOMERS ROAD
JACKSONVILLE, FLORIDA 32226
(904) 757-7607 • (904) 751-1556

WEIGHT INFORMATION

49060 LB 07:18 AM MY 28 03

22800 LB 07:24 AM MY 28 03

Amount: 13.13 Tons

DISPOSAL FEE

Concrete		Amount	$
		Sales Tax	
		Delivery	
		Total	

RECEIPT

P.O. Number Ticket No. 29419

Charged To: Enola Contr.

Address: Mayport Base

VIA: 14

Received by:

Form # KK001

Realco Recycling Co., Inc.

Krush Krete Division
8707 SOMERS ROAD
JACKSONVILLE, FLORIDA 32226
(904) 757-7607 • (904) 751-1556

WEIGHT INFORMATION

42520 LB 01:16 PM MY 27 03

Amount: 9.91 Tons

DISPOSAL FEE

Concrete		Amount	$
		Sales Tax	
		Delivery	
		Total	N/C

RECEIPT

P.O. Number Ticket # 29415

Charged To: Espola Conte.

Address: Maypearl Texas

VIA: /

Received by:

Form # KK001

Realco Recycling Co., Inc.

Krush Krete Division
8707 SOMERS ROAD
JACKSONVILLE, FLORIDA 32226
(904) 757-7607 • (904) 751-1556

WEIGHT INFORMATION

48140 LB 09:33 AM MY 28 03

Amount: 12.79 Tons

DISPOSAL FEE

Concrete		Amount	$
		Sales Tax	
		Delivery	
		Total	N/C

RECEIPT

P.O. Number Ticket # 29420

Charged To: Espola Conte.

Address: Maypearl Texas

VIA: /

Received by:

Form # KK001

Realco Recycling Co., Inc.

Krush Krete Division
8707 SOMERS ROAD
JACKSONVILLE, FLORIDA 32226
(904) 757-7607 • (904) 751-1556

WEIGHT INFORMATION

55640 LB 12:20 PM MY 28 03

22800

Amount: 16.42 Tons

DISPOSAL FEE

Concrete		Amount	$
		Sales Tax	
		Delivery	
		Total	N/C

RECEIPT

P.O. Number Ticket # 29421

Charged To: Enola Corp.

Address: Newport Rec

VIA: M

Received by:

Form # KK001

Realco Recycling Co., Inc.

Krush Krete Division
8707 SOMERS ROAD
JACKSONVILLE, FLORIDA 32226
(904) 757-7607 • (904) 751-1556

WEIGHT INFORMATION

49280 LB 11:52 AM MY 28 03

22560

Amount: 13.36 Tons

DISPOSAL FEE

Concrete		Amount	$
		Sales Tax	
		Delivery	
		Total	N/C

RECEIPT

P.O. Number Ticket # 29423

Charged To: Enola Corp.

Address: Newport Rec

VIA: M

Received by:

Form # KK001

Realco Recycling Co., Inc.

Krush Krete Division
8707 SOMERS ROAD
JACKSONVILLE, FLORIDA 32226
(904) 757-7607 • (904) 751-1556

WEIGHT INFORMATION

58120 LB 09:31 AM MY 28 03

29900 LB 09:37 AM MY 28 03

Amount: 13.61 Tons

DISPOSAL FEE

Concrete

		Amount	$
		Sales Tax	
		Delivery	
		Total	n/c

RECEIPT

P.O. Number Ticket # 29422

Charged To: Enola Conc.

Address: Mayport Base

VIA: 2

Received by:

Form # KK001

Realco Recycling Co., Inc.

Krush Krete Division
8707 SOMERS ROAD
JACKSONVILLE, FLORIDA 32226
(904) 757-7607 • (904) 751-1556

WEIGHT INFORMATION

56120 LB 03:10 PM MY 28 03

29900

Amount: 13.11 Tons

DISPOSAL FEE

Concrete

		Amount	$
		Sales Tax	
		Delivery	
		Total	n/c

RECEIPT

P.O. Number Ticket # 29425

Charged To: Enola Conc.

Address: Mayport Base

VIA: 2

Received by:

Form # KK001

TASK ORDER 440

Realco Recycling Co., Inc.
Krush Krete Division
8707 SOMERS ROAD
JACKSONVILLE, FLORIDA 32226
(904) 757-7607 • (904) 751-1556

45800 LB 06:34 AM MY 30 03
22800 - Tare

Amount: 11.50 Tons

DISPOSAL FEE

	Amount	$
Sales Tax		
Delivery		N/C
Total		

RECEIPT

P.O. Number

Ticket # 29430

Charged To: Enola Contr.

Address: Mayport Navy

VIA: 19

Received by:

Form # KK001

INFORMATION

SPCOM

ELECTRONIC SCALE TICKET

5511

DATE 23 SUN 03

MWR RECYCLING PROGRAM
SCALE HOUSE CERTIFIED WEIGHTS
BUILDING 412 NAVSTA MAYPORT

SELLER
BUYER ENOLA CONTRACTING (904) 270-6710

ADDRESS

CITY STATE ZIP

COMMODITY

PRICE ~~0.00~~

REMARKS DIRT MOUND

12:43
03.06.03
23240 lb G

DRIVER ☐ ON ☒ OFF

WEIGHER TAURUS JACKSON

Form ES-4

C-7

ELECTRONIC SCALE TICKET

5551

DATE 6/12/03

MWR RECYCLING PROGRAM
SCALE HOUSE CERTIFIED WEIGHTS
BUILDING 412 NAVSTA MAYPORT
(904) 270-6710

SELLER
BUYER Enola

ADDRESS

CITY STATE ZIP

COMMODITY

PRICE

REMARKS Scrap Metal
(Pipes) Treatment Plant

~~09:13~~
~~12.06.03~~
~~25020 lb G~~
09:13
12.06.03 Heavy
25020 lb G

09:20
12.06.03 Empty
23040 lb G

DRIVER ☐ ON ☑ OFF

WEIGHER Rose Burroughs

Form ES-4

ELECTRONIC SCALE TICKET

5554

DATE 6/12/03

MWR RECYCLING PROGRAM
SCALE HOUSE CERTIFIED WEIGHTS
BUILDING 412 NAVSTA MAYPORT
270-6710

SELLER
BUYER ~~Atlantic Marine~~ Enola

ADDRESS

CITY STATE ZIP

COMMODITY

PRICE

REMARKS Scrap Metal

10:50
12.06.03
26340 lb G
10:50
12.06.03
26340 lb G

10:59
12.06.03
23020 lb G

DRIVER ☐ ON ☑ OFF

C-8

ELECTRONIC SCALE TICKET

5630

DATE 6 25 03

MAYR RECYCLING PR RAM
SCALEHOUSE CERTIFIED IGHTS
BUILDING 1 NEWSTAN PORT
(904) 270-6710

SELLER
BUYER ENOLA

ADDRESS

CITY STATE ZIP

COMMODITY

PRICE

REMARKS STEEL

08:15
25.06.03
26080 lb G

08:22
25.06.03
23060 lb G
08:22
25.06.03
23060 lb G
08:22
25.06.03
23060 lb G

DRIVER ☐ ON ☒ OFF

WEIGHER
GARRETT B ST. JOHN

Form ES-4

Realco Recycling Co., Inc.
8707 SOMERS ROAD
JACKSONVILLE, FLORIDA 32226
(904) 757-7607 • (904) 751-1056 FAX

Light Weight	22,580 LBS
Heavy Weight	51,840 LBS
Net Tonnage	14.63 TONS
Product Sold	CON. W/REBAR

P.O. Number: Ticket Number 4386
Date: 6/25/2003 7:27:17 AM
Sold To: Enola Contracting Services, Inc.
Address: Mayport Base

Via: Enola #1

C-9

Page 1 of 1

Realco Recycling Co., Inc.
8707 SOMERS ROAD
JACKSONVILLE, FLORIDA 32226
(904) 757-7607 • (904) 751-1056 FAX

Light Weight	23,120 LBS
Heavy Weight	47,560 LBS
Net Tonnage	12.22 TONS
Product Sold	CON. W/REBAR
P.O. Number:	Ticket Number 4425
Date:	6/25/2003 1:29:07 PM
Sold To:	Enola Contracting Services, Inc.
Address:	Mayport Base
Via:	Enola 1105
Received By:	

Page 1 of 1

Realco Recycling Co., Inc.
8707 SOMERS ROAD
JACKSONVILLE, FLORIDA 32226
(904) 757-7607 • (904) 751-1056 FAX

Light Weight	23,120 LBS
Heavy Weight	46,980 LBS
Net Tonnage	11.93 TONS
Product Sold	CON. W/REBAR
P.O. Number:	Ticket Number 4387
Date:	6/25/2003 7:29:08 AM
Sold To:	Enola Contracting Services, Inc.
Address:	Mayport Base
Via:	Enola 1105
Received By:	

C-10

Realco Recycling Co., Inc.
8707 SOMERS ROAD
JACKSONVILLE, FLORIDA 32226
(904) 757-7607 • (904) 751-1056 FAX

Light Weight	22,580 LBS
Heavy Weight	44,480 LBS
Net Tonnage	10.95 TONS
Product Sold	CON. W/REBAR

P.O. Number: Ticket Number 4449
Date: 6/26/2003 7:36:03 AM
Sold To: Enola Contracting Services, Inc.
Address: Mayport Base

Via: Enola #1

Received By:

Realco Recycling Co., Inc.
8707 SOMERS ROAD
JACKSONVILLE, FLORIDA 32226
(904) 757-7607 • (904) 751-1056 FAX

Light Weight	22,580 LBS
Heavy Weight	44,760 LBS
Net Tonnage	11.09 TONS
Product Sold	CON. W/REBAR

P.O. Number: Ticket Number 4408
Date: 6/25/2003 11:35:52 AM
Sold To: Enola Contracting Services, Inc.
Address: Mayport Base

Via: Enola #1

Received By:

Page 1 of 1

Realco Recycling Co., Inc.
8707 SOMERS ROAD
JACKSONVILLE, FLORIDA 32226
(904) 757-7607 • (904) 751-1056 FAX

Light Weight	23,120 LBS
Heavy Weight	53,620 LBS
Net Tonnage	15.25 TONS
Product Sold	CON. W/REBAR
P.O. Number:	Ticket Number 4512
Date:	6/30/2003 1:57:36 PM
Sold To:	Enola Contracting Services, Inc.
Address:	Mayport Base
Via:	Enola 1105

Received By:

Page 1 of 1

Page 1 of 1

Realco Recycling Co., Inc.
8707 SOMERS ROAD
JACKSONVILLE, FLORIDA 32226
(904) 757-7607 • (904) 751-1056 FAX

Light Weight	22,580 LBS
Heavy Weight	41,540 LBS
Net Tonnage	9.48 TONS
Product Sold	CON. W/REBAR
P.O. Number:	Ticket Number 4398
Date:	6/25/2003 10:08:02 AM
Sold To:	Enola Contracting Services, Inc.
Address:	Mayport Base
Via:	Enola #1

C-12

Realco Recycling Co., Inc.
8707 SOMERS ROAD
JACKSONVILLE, FLORIDA 32226
(904) 757-7607 • (904) 751-1056 FAX

Light Weight	23,120 LBS
Heavy Weight	43,800 LBS
Net Tonnage	10.34 TONS
Product Sold	CON. W/REBAR

P.O. Number: Ticket Number 4479
Date: 6/26/2003 12:17:36 PM
Sold To: Enola Contracting Services, Inc.
Address: Mayport Base

Via: Enola 1105

Received By:

Realco Recycling Co., Inc.
8707 SOMERS ROAD
JACKSONVILLE, FLORIDA 32226
(904) 757-7607 • (904) 751-1056 FAX

Light Weight	23,120 LBS
Heavy Weight	50,020 LBS
Net Tonnage	13.45 TONS
Product Sold	CON. W/REBAR

P.O. Number: Ticket Number 4599
Date: 7/1/2003 1:25:33 PM
Sold To: Enola Contracting Services, Inc.
Address: Mayport Base

Via: Enola 1105

Received By:

Realco Recycling Co., Inc.
8707 SOMERS ROAD
JACKSONVILLE, FLORIDA 32226
(904) 757-7607 • (904) 751-1056 FAX

Light Weight	22,580 LBS
Heavy Weight	53,620 LBS
Net Tonnage	15.52 TONS
Product Sold	CON. W/REBAR

P.O. Number:
Date: 6/30/2003 1:41:26 PM Ticket Number 4510
Sold To: Enola Contracting Services, Inc.
Address: Mayport Base

Via: Enola #1

Received By:

Realco Recycling Co., Inc.
8707 SOMERS ROAD
JACKSONVILLE, FLORIDA 32226
(904) 757-7607 • (904) 751-1056 FAX

Light Weight	22,580 LBS
Heavy Weight	46,980 LBS
Net Tonnage	12.2 TONS
Product Sold	CON. W/REBAR

P.O. Number:
Date: 7/1/2003 8:17:46 AM Ticket Number 4534
Sold To: Enola Contracting Services, Inc.
Address: Mayport Base

Via: Enola #1

Received By:

Realco Recycling Co., Inc.
8707 SOMERS ROAD
JACKSONVILLE, FLORIDA 32226
(904) 757-7607 • (904) 751-1056 FAX

Light Weight	22,580 LBS
Heavy Weight	46,500 LBS
Net Tonnage	11.96 TONS
Product Sold	CON. W/REBAR
P.O. Number:	Ticket Number 4590
Date:	7/1/2003 12:41:39 PM
Sold To:	Enola Contracting Services, Inc.
Address:	Mayport Base
Via:	Enola #1

Received By:

Realco Recycling Co., Inc.
8707 SOMERS ROAD
JACKSONVILLE, FLORIDA 32226
(904) 757-7607 • (904) 751-1056 FAX

Light Weight	22,580 LBS
Heavy Weight	49,420 LBS
Net Tonnage	13.42 TONS
Product Sold	CON. W/REBAR
P.O. Number:	Ticket Number 4567
Date:	7/1/2003 10:26:36 AM
Sold To:	Enola Contracting Services, Inc.
Address:	Mayport Base
Via:	Enola #1

Received By:

Realco Recycling Co., Inc.
8707 SOMERS ROAD
JACKSONVILLE, FLORIDA 32226
(904) 757-7607 • (904) 751-1056 FAX

Light Weight	23,120 LBS
Heavy Weight	51,720 LBS
Net Tonnage	14.3 TONS
Product Sold	CON. W/REBAR

P.O. Number: Ticket Number 4727
Date: 7/7/2003 2:19:34 PM
Sold To: Enola Contracting Services, Inc.
Address: Mayport Base

Via: Enola 1105

Received By:

Realco Recycling Co., Inc.
8707 SOMERS ROAD
JACKSONVILLE, FLORIDA 32226
(904) 757-7607 • (904) 751-1056 FAX

Light Weight	23,120 LBS
Heavy Weight	51,660 LBS
Net Tonnage	14.27 TONS
Product Sold	CON. W/REBAR

P.O. Number: Ticket Number 4628
Date: 7/1/2003 3:58:53 PM
Sold To: Enola Contracting Services, Inc.
Address: Mayport Base

Via: Enola 1105

Received By:

SCALEHOUSE/SCITY ... WEIGHTS
BUILDING 412 NAVSTA MAYPORT
(904) 270-7710

SELLER
BUYER Enola

ADDRESS

CITY STATE ZIP

COMMODITY

PRICE

REMARKS SCRAP METAL

07:55
24.06.03
30780 lb G

09:04
24.06.03
23060 lb G

DRIVER ☐ ON ☒ OFF

WEIGHER

Form ES-4

Page 1 of 1

Realco Recycling Co., Inc.
8707 SOMERS ROAD
JACKSONVILLE, FLORIDA 32226
(904) 757-7607 • (904) 751-1056 FAX

Light Weight	22,580 LBS
Heavy Weight	64,220 LBS
Net Tonnage	20.82 TONS
Product Sold	CON. W/REBAR

P.O. Number: Ticket Number 4642
Date: 7/2/2003 8:20:09 AM
Sold To: Enola Contracting Services, Inc.
Address: Mayport Base

Via: Enola #1

Received By:

8707 SOMERS ROAD
JACKSONVILLE, FLORIDA 32226
(904) 757-7607 • (904) 751-1056 FAX

91-2

Light Weight	22,580 LBS
Heavy Weight	52,580 LBS
Net Tonnage	15 TONS
Product Sold	CON. W/REBAR

P.O. Number: Ticket Number 4658
Date: 7/2/2003 11:15:02 AM
Sold To: Enola Contracting Services, Inc.
Address: Mayport Base

Via: Enola #1

Received By:

Realco Recycling Co., Inc.
Krush Krete Division
8707 SOMERS ROAD
JACKSONVILLE, FLORIDA 32226
(904) 757-7607 • (904) 751-1556

INFORMATION
WEIGHMASTER

37900 LB 07:13 AM JUL 02 03
22580 - Tare
15190 Net Tons Amount: 151.90

DISPOSAL FEE

	Amount	$
Sales Tax		
Delivery		N/C
Total		

RECEIPT

P.O.Number Ticket No. 29654
Charged To: Enola Contracting
Address: Mayport Base
VIA: #1
Received by:
Form # KK001

Received By:

Via: Enola 1105

Address: Mayport Base

Sold To: Enola Contracting Services, Inc.

Date: 7/3/2003 9:11:15 AM

P.O. Number: Ticket Number 4690

Product Sold	CON. W/REBAR
Light Weight	23,120 LBS
Heavy Weight	54,860 LBS
Net Tonnage	15.87 TONS

Realco Recycling Co., Inc.
8707 SOMERS ROAD
JACKSONVILLE, FLORIDA 32226
(904) 757-7607 • (904) 751-1056 FAX

SPCOM

ELECTRONIC SCALE TICKET

5682

DATE 07.07.03

SELLER
BUYER Enola

ADDRESS

CITY STATE ZIP

COMMODITY

PRICE

REMARKS SCRAP METAL

10:37
07.07.03
29800 lb G

10:48
07.07.03
23000 lb G

DRIVER ☐ ON ☒ OFF

WEIGHER

C-19

Realco Recycling Co., Inc.
8707 SOMERS ROAD
JACKSONVILLE, FLORIDA 32226
(904) 757-7607 • (904) 751-1056 FAX

Light Weight	23,120 LBS
Heavy Weight	54,860 LBS
Net Tonnage	15.87 TONS
Product Sold	CON. W/REBAR

P.O. Number: Ticket Number 4683
Date: 7/3/2003 7:02:24 AM
Sold To: Enola Contracting Services, Inc.
Address: Mayport Base

Via: Enola 1105

Received By: Jerald Mills

C-20

Realco Recycling Co., Inc.
8707 SOMERS ROAD
JACKSONVILLE, FLORIDA 32226
(904) 757-7607 • (904) 751-1056 FAX

Light Weight	23,120 LBS
Heavy Weight	55,740 LBS
Net Tonnage	16.31 TONS
Product Sold	CON. W/REBAR

P.O. Number: Ticket Number 4735
Date: 7/7/2003 4:36:01 PM
Sold To: Enola Contracting Services, Inc.
Address: Mayport Base

Via: Enola 1105

Received By: Jerald Mills

Page 1 of 1

Realco Recycling Co., Inc.
8707 SOMERS ROAD
JACKSONVILLE, FLORIDA 32226
(904) 757-7607 • (904) 751-1056 FAX

Light Weight	23,120 LBS
Heavy Weight	57,840 LBS
Net Tonnage	17.36 TONS
Product Sold	CON. W/REBAR
P.O. Number:	Ticket Number 4842
Date:	7/8/2003 3:13:57 PM
Sold To:	Enola Contracting Services, Inc.
Address:	Mayport Base
Via:	Enola 1105
Received By:	

Page 1 of 1

Realco Recycling Co., Inc.
8707 SOMERS ROAD
JACKSONVILLE, FLORIDA 32226
(904) 757-7607 • (904) 751-1056 FAX

Light Weight	23,120 LBS
Heavy Weight	46,280 LBS
Net Tonnage	11.58 TONS
Product Sold	CON. W/REBAR
P.O. Number:	Ticket Number 4772
Date:	7/8/2003 9:15:27 AM
Sold To:	Enola Contracting Services, Inc.
Address:	Mayport Base
Via:	Enola 1105
Received By:	

C-21

Page 1 of 1

Realco Recycling Co., Inc.
8707 SOMERS ROAD
JACKSONVILLE, FLORIDA 32226
(904) 757-7607 • (904) 751-1056 FAX

Light Weight	23,120 LBS
Heavy Weight	67,560 LBS
Net Tonnage	22.22 TONS
Product Sold	CON. W/REBAR

P.O. Number: Ticket Number 4857
Date: 7/9/2003 7:22:49 AM
Sold To: Enola Contracting Services, Inc.
Address: Mayport Base

Via: Enola 1105

Received By:

Page 1 of 1

Realco Recycling Co., Inc.
8707 SOMERS ROAD
JACKSONVILLE, FLORIDA 32226
(904) 757-7607 • (904) 751-1056 FAX

Light Weight	23,120 LBS
Heavy Weight	45,980 LBS
Net Tonnage	11.43 TONS
Product Sold	CON. W/REBAR

P.O. Number: Ticket Number 4798
Date: 7/8/2003 11:55:19 AM
Sold To: Enola Contracting Services, Inc.
Address: Mayport Base

Via: Enola 1105

Received By:

Realco Recycling Co., Inc.

Krush Krete Division
8707 SOMERS ROAD
JACKSONVILLE, FLORIDA 32226
(904) 757-7607 • (904) 751-1556

WEIGHT INFORMATION

46480 LB 07:43 AM JU 04 03
22560 - Tare
11.96

Amount: 11.96 Tons

DISPOSAL FEE

Concrete		Amount	$
		Sales Tax	N/C
		Delivery	
		Total	

RECEIPT

P.O. Number Ticket 29440

Charged To: Trinity Contr

Address: Newport Blvd

VIA: 171

Received by:

Form # KK001

Realco Recycling Co., Inc.

Krush Krete Division
8707 SOMERS ROAD
JACKSONVILLE, FLORIDA 32226
(904) 757-7607 • (904) 751-1556

WEIGHT INFORMATION

46980 LB 06:32 AM M[illegible]
22560 - Tare

Amount: 12.21

DISPOSAL FEE

Concrete		Amount	$
		Sales Tax	
		Delivery	
		Total	

RECEIPT

P.O. Number Ticket

Charged To: [illegible]

Address: [illegible]

VIA: 4

Received by:

Form # KK001

Realco Recycling Co., Inc.
8707 SOMERS ROAD
JACKSONVILLE, FLORIDA 32226
(904) 757-7607 • (904) 751-1056 FAX

Light Weight	23,120 LBS
Heavy Weight	45,820 LBS
Net Tonnage	11.35 TONS
Product Sold	CON. W/REBAR

P.O. Number: Ticket Number 4581
Date: 7/1/2003 11:29:35 AM
Sold To: Enola Contracting Services, Inc.
Address: Mayport Base

Via: Enola 1105

A. Allen

Received By:

Realco Recycling Co., Inc.
Krush Krete Division
8707 SOMERS ROAD
JACKSONVILLE, FLORIDA 32226
(904) 757-7607 • (904) 751-1556

WEIGHMASTER'S NOTATION

43880 LB 11:34 AM JU 18 03
22 580 - Nap

Amount: 10.65

C-24

DISPOSAL FEE

	$
Amount	
Sales Tax	
Delivery	
Total	

RECEIPT

P.O. Number
Ticket 2917

Charged To: ENOLA Contr.

Address: Mayport Base

VIA: Enola

Received by:

Form # KK001

Realco Recycling Co., Inc.

Krush Krete Division
8707 SOMERS ROAD
JACKSONVILLE, FLORIDA 32226
(904) 757-7607 • (904) 751-1556

C-25

WEIGHT INFORMATION

Amount: 12.55 Tons

DISPOSAL FEE

Concrete		Amount	$
12" Core		Sales Tax	
# 5.50 ton		Delivery	
		Total	

RECEIPT

P.O. Number Ticket 29730

Charged To: Elliott Contracting

Address: Wildwood Fla.

VIA: Truck

Received by:

Form # KK001

Realco Recycling Co., Inc.
Krush Krete Division
8707 SOMERS ROAD
JACKSONVILLE, FLORIDA 32226
(904) 757-7607 • (904) 751-1556

WEIGHT INFORMATION

46280 LB 02:52 PM JUL 17 03

Amount: 11.85

DISPOSAL FEE

		Amount	$ 11.85
		Sales Tax	N/C
		Delivery	
		Total	

RECEIPT

P.O. Number Ticket 29729

Charged To: Elliott Contracting

Address: Wildwood Fla.

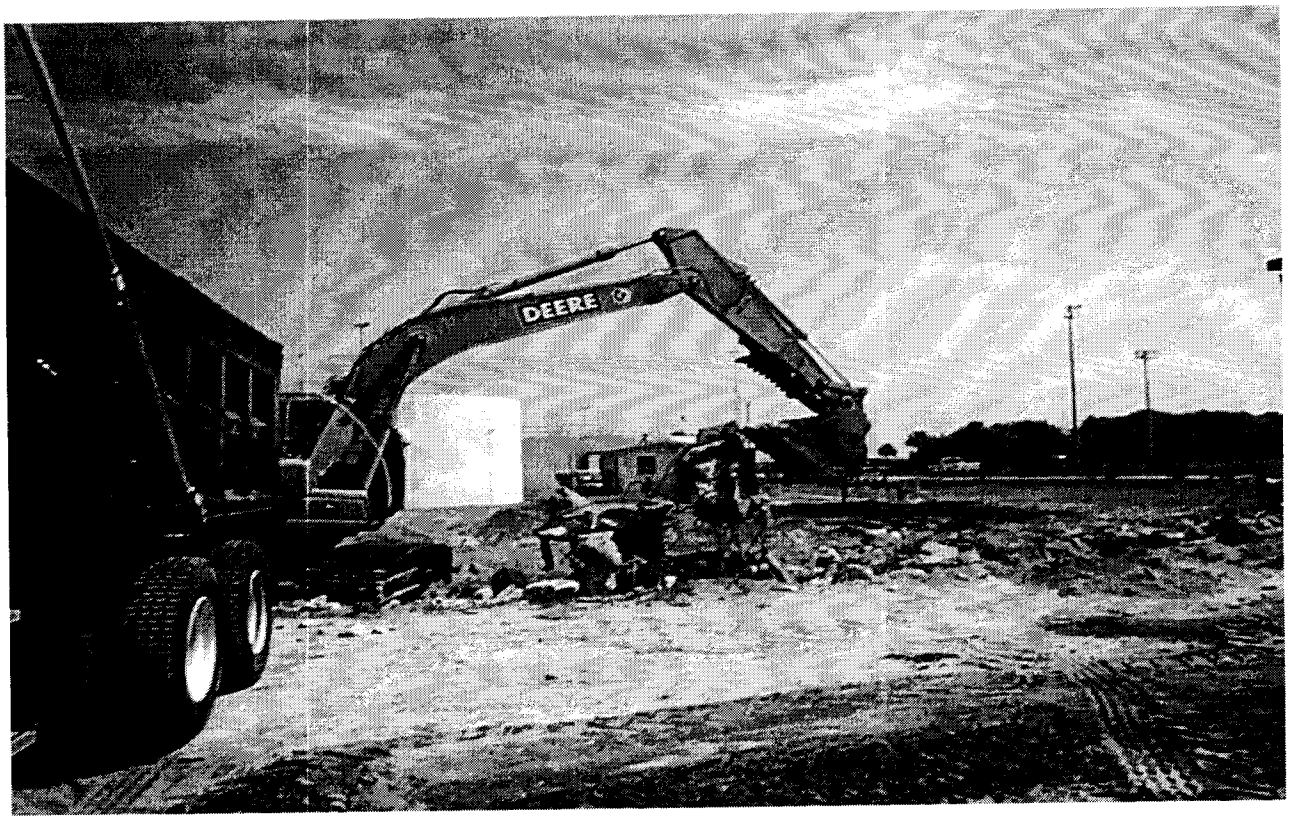
VIA: Truck

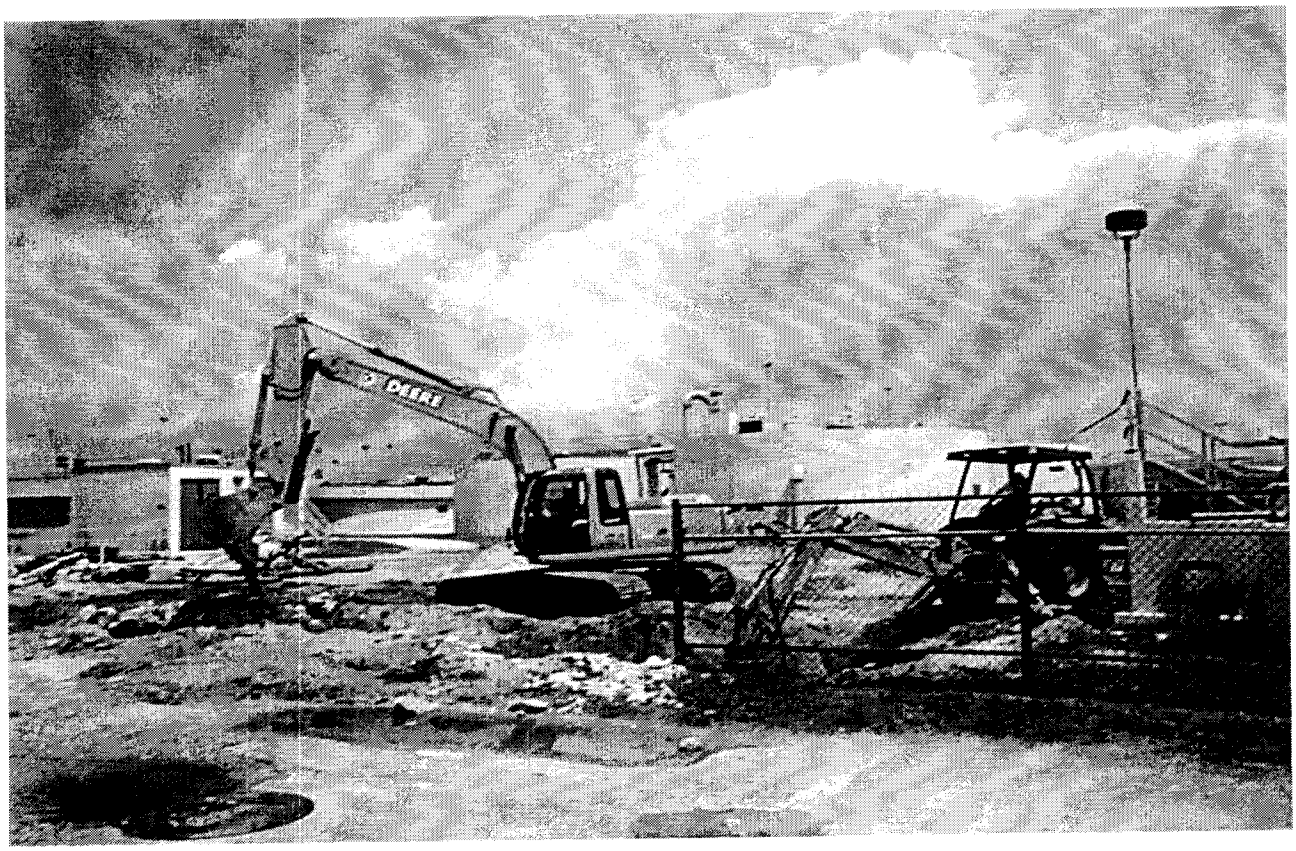
Received by:

Form # KK001

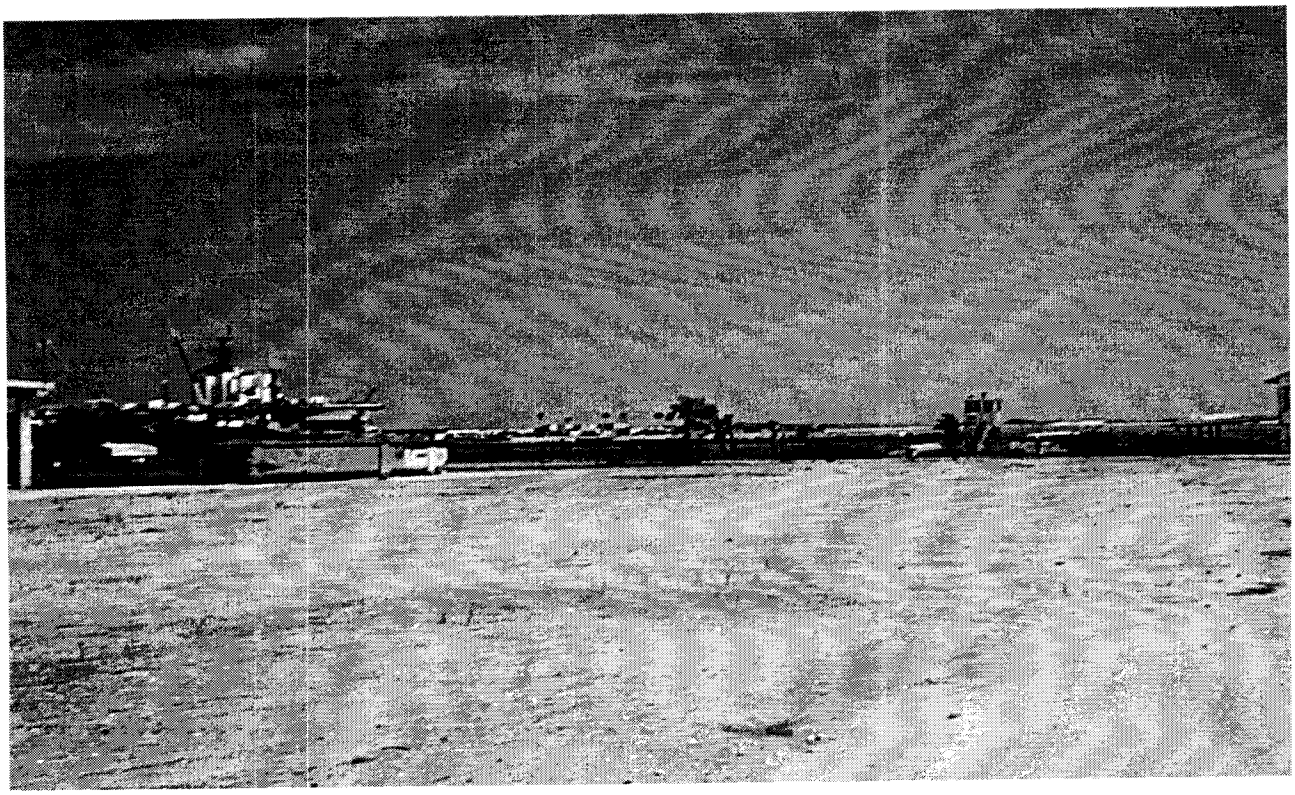
Appendix D

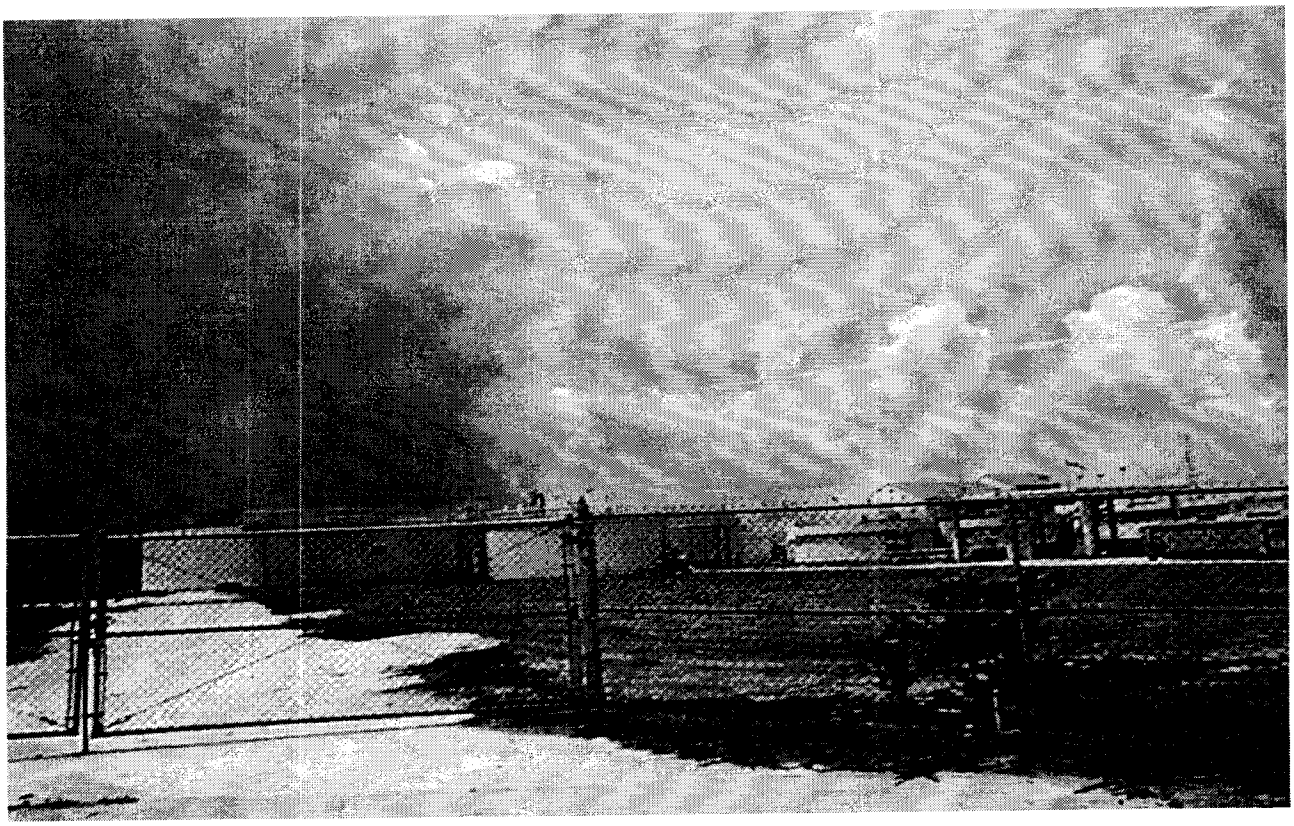
Demolition of the Former Sludge Drying Beds





Demolition of the Primary Clarifiers

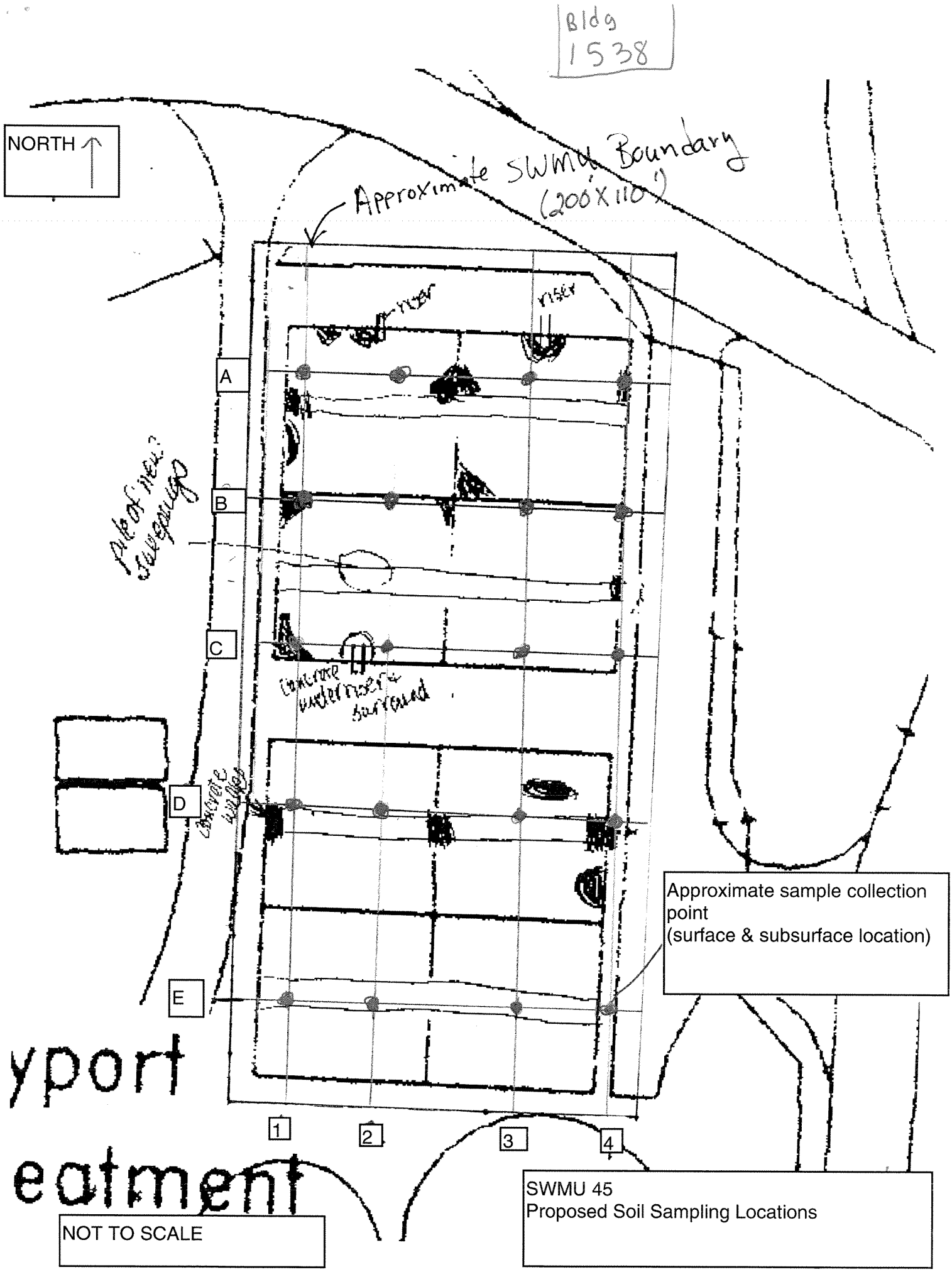




Graded and Seeded Area at the former Sludge Drying Beds

ATTACHMENT C

FIELD DATA SHEETS


Bldg 1538
NORTH
Approximate SWMU Boundary (200'X110')
riser
riser
A
B
C
D
E
1
2
3
4
Approximate sample collection point (surface & subsurface location)
yport
eatment
NOT TO SCALE
SWMU 45
Proposed Soil Sampling Locations

Tetra Tech NUS, Inc.

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: SWMU 45 - NS Mayport
Project No.: N0123.QM0050105

[X] Surface Soil (SS)
[] Subsurface Soil (SU)
[] Sediment (SD)
[] Other:
[] QA Sample Type:

Sample ID No.: MPT-45-A1-2'
Sample Location: A1
Sampled By: C.Metz
C.O.C. No.: 11223

Type of Sample:
[] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date:	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time:			
Method:			
Monitor Reading (ppm):			

COMPOSITE SAMPLE DATA:

Date: 1-5-04	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1400		1 to 2 feet	light bwn to gray	Very tight dry fine sand with limestone and concrete rock
Method: hand auger				
Monitor Readings				
(Range in ppm): 0.0				

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	LAB
All analysis	(1) 1L Glass Jar	Yes	Katahdin

OBSERVATIONS / NOTES:

Soil is extremely dry and hard. Soil was hard to hand auger in because of limestone rock and small chunks of concrete that were mixed in it. Soil was so packed that you couldn't push a straight screwdriver into it even if you put all your weight on it.

MAP:

See site map for sample locations

Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s): Charles Metz

Tetra Tech NUS, Inc.

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: SWMU 45 - NS Mayport
Project No.: N0123.QM0050105

[X] Surface Soil (SS)
[] Subsurface Soil (SU)
[] Sediment (SD)
[] Other:
[] QA Sample Type:

Sample ID No.: MPT-45-A2-2'
Sample Location: A1
Sampled By: C.Metz
C.O.C. No.: 11223

Type of Sample:
[] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: / Time: / Method: / Monitor Reading (ppm):	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)

COMPOSITE SAMPLE DATA:

Date: 1-5-04 / Time: 1352 / Method: hand auger / Monitor Readings (Range in ppm): 0.0	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
		1 to 2 feet	light bwn to gray	Very tight dry fine sand with limestone and concrete rock

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	LAB
All analysis	(1) 1L Glass Jar	Yes	Katahdin

OBSERVATIONS / NOTES:

Soil is extremely dry and hard. Soil was hard to hand auger in because of limestone rock and small chunks of concrete that were mixed in it. Soil was so packed that you couldn't push a straight screwdriver into it even if you put all your weight on it.

MAP:

See site map for sample locations

Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s): Charles Metz

Tetra Tech NUS, Inc.

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: SWMU 45 - NS Mayport
Project No.: N0123.QM0050105

[X] Surface Soil (SS)
[] Subsurface Soil (SU)
[] Sediment (SD)
[] Other:
[] QA Sample Type:

Sample ID No.: MPT-45-A3-2'
Sample Location: A1
Sampled By: C.Metz
C.O.C. No.: 11223

Type of Sample:
[] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: / Time: / Method: / Monitor Reading (ppm):	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)

COMPOSITE SAMPLE DATA:

Date: 1-5-04 / Time: 1345 / Method: hand auger / Monitor Readings (Range in ppm): 0.0	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
		1 to 2 feet	light bwn to gray	Very tight dry fine sand with limestone and concrete rock

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	LAB
All analysis	(1) 1L Glass Jar	Yes	Katahdin

OBSERVATIONS / NOTES:

Soil is extremely dry and hard. Soil was hard to hand auger in because of limestone rock and small chunks of concrete that were mixed in it. Soil was so packed that you couldn't push a straight screwdriver into it even if you put all your weight on it.

MAP:

See site map for sample locations

Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s): Charles Metz

Tetra Tech NUS, Inc.

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: SWMU 45 - NS Mayport
Project No.: N0123.QM0050105

[X] Surface Soil (SS)
[] Subsurface Soil (SU)
[] Sediment (SD)
[] Other:
[] QA Sample Type:

Sample ID No.: MPT-45-A4-2'
Sample Location: A1
Sampled By: C.Metz
C.O.C. No.: 11223

Type of Sample:
[] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: / Time: / Method: / Monitor Reading (ppm):	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)

COMPOSITE SAMPLE DATA:

	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Date: 1-5-04				
Time: 1300		1 to 2 feet	light bwn to gray	Very tight dry fine sand with limestone and concrete rock
Method: hand auger				
Monitor Readings				
(Range in ppm): 0.0				

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	LAB
All analysis	(1) 1L Glass Jar	Yes	Katahdin

OBSERVATIONS / NOTES:

Soil is extremely dry and hard. Soil was hard to hand auger in because of limestone rock and small chunks of concrete that were mixed in it. Soil was so packed that you couldn't push a straight screwdriver into it even if you put all your weight on it.

MAP:

See site map for sample locations

Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s): Charles Metz

Tetra Tech NUS, Inc.

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: SWMU 45 - NS Mayport
Project No.: N0123.QM0050105

[X] Surface Soil (SS)
[] Subsurface Soil (SU)
[] Sediment (SD)
[] Other:
[] QA Sample Type:

Sample ID No.: MPT-45-B1-2'
Sample Location: A1
Sampled By: C.Metz
C.O.C. No.: 11223

Type of Sample:
[] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: / Time: / Method: / Monitor Reading (ppm):	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)

COMPOSITE SAMPLE DATA:

Date: 1-5-04 / Time: 1426 / Method: hand auger / Monitor Readings (Range in ppm): 0.0	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
		1 to 2 feet	light bwn to gray	Very tight dry fine sand with limestone and concrete rock

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	LAB
All analysis	(1) 1L Glass Jar	Yes	Katahdin

OBSERVATIONS / NOTES:

Soil is extremely dry and hard. Soil was hard to hand auger in because of limestone rock and small chunks of concrete that were mixed in it. Soil was so packed that you couldn't push a straight screwdriver into it even if you put all your weight on it.

MAP:

See site map for sample locations

Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s):

Charles Metz

Tetra Tech NUS, Inc.

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: SWMU 45 - NS Mayport
Project No.: N0123.QM0050105

[X] Surface Soil (SS)
[] Subsurface Soil (SU)
[] Sediment (SD)
[] Other:
[] QA Sample Type:

Sample ID No.: MPT-45-B2-2'
Sample Location: A1
Sampled By: C.Metz
C.O.C. No.: 11223

Type of Sample:
[] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: / Time: / Method: / Monitor Reading (ppm):	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)

COMPOSITE SAMPLE DATA:

Date: 1-5-04 / Time: 1418 / Method: hand auger / Monitor Readings (Range in ppm): 0.0	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
		1 to 2 feet	light bwn to gray	Very tight dry fine sand with limestone and concrete rock

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	LAB
All analysis	(1) 1L Glass Jar	Yes	Katahdin

OBSERVATIONS / NOTES:

Soil is extremely dry and hard. Soil was hard to hand auger in because of limestone rock and small chunks of concrete that were mixed in it. Soil was so packed that you couldn't push a straight screwdriver into it even if you put all your weight on it.

MAP:

See site map for sample locations

Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s): Charles Metz

Tetra Tech NUS, Inc.

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: SWMU 45 - NS Mayport
Project No.: N0123.QM0050105

[X] Surface Soil (SS)
[] Subsurface Soil (SU)
[] Sediment (SD)
[] Other:
[] QA Sample Type:

Sample ID No.: MPT-45-B3-2'
Sample Location: A1
Sampled By: C.Metz
C.O.C. No.: 11223

Type of Sample:
[] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: / Time: / Method: / Monitor Reading (ppm):	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)

COMPOSITE SAMPLE DATA:

Date: 1-5-04 / Time: 1410 / Method: hand auger / Monitor Readings (Range in ppm): 0.0	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
		1 to 2 feet	light bwn to gray	Very tight dry fine sand with limestone and concrete rock

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	LAB
All analysis	(1) 1L Glass Jar	Yes	Katahdin

OBSERVATIONS / NOTES:

Soil is extremely dry and hard. Soil was hard to hand auger in because of limestone rock and small chunks of concrete that were mixed in it. Soil was so packed that you couldn't push a straight screwdriver into it even if you put all your weight on it.

MAP:

See site map for sample locations

Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s):

Charles McC

Tetra Tech NUS, Inc.

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: SWMU 45 - NS Mayport
Project No.: N0123.QM0050105

[X] Surface Soil (SS)
[] Subsurface Soil (SU)
[] Sediment (SD)
[] Other:
[] QA Sample Type:

Sample ID No.: MPT-45-B4-2'
Sample Location: A1
Sampled By: C.Metz
C.O.C. No.: 11223

Type of Sample:
[] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: / Time: / Method: / Monitor Reading (ppm):	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)

COMPOSITE SAMPLE DATA:

Date: 1-5-04 / Time: 1255 / Method: hand auger / Monitor Readings (Range in ppm): 0.0	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
		1 to 2 feet	light bwn to gray	Very tight dry fine sand with limestone and concrete rock

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	LAB
All analysis	(1) 1L Glass Jar	Yes	Katahdin

OBSERVATIONS / NOTES:

Soil is extremely dry and hard. Soil was hard to hand auger in because of limestone rock and small chunks of concrete that were mixed in it. Soil was so packed that you couldn't push a straight screwdriver into it even if you put all your weight on it.

MAP:

See site map for sample locations

Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s): Charles Metz

Tetra Tech NUS, Inc.

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: SWMU 45 - NS Mayport
Project No.: N0123.QM0050105

[X] Surface Soil (SS)
[] Subsurface Soil (SU)
[] Sediment (SD)
[] Other:
[] QA Sample Type:

Sample ID No.: MPT-45-C1-2'
Sample Location: A1
Sampled By: C.Metz
C.O.C. No.: 11223

Type of Sample:
[] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: / Time: / Method: / Monitor Reading (ppm):	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)

COMPOSITE SAMPLE DATA:

Date: 1-5-04 / Time: 1503 / Method: hand auger / Monitor Readings (Range in ppm): 0.0	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
		1 to 2 feet	light bwn to gray	Very tight dry fine sand with limestone and concrete rock

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	LAB
All analysis	(1) 1L Glass Jar	Yes	Katahdin

OBSERVATIONS / NOTES:

Soil is extremely dry and hard. Soil was hard to hand auger in because of limestone rock and small chunks of concrete that were mixed in it. Soil was so packed that you couldn't push a straight screwdriver into it even if you put all your weight on it.

MAP:

See site map for sample locations

Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s): Charles Metz

Tetra Tech NUS, Inc.

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: SWMU 45 - NS Mayport
Project No.: N0123.QM0050105

[X] Surface Soil (SS)
[] Subsurface Soil (SU)
[] Sediment (SD)
[] Other:
[] QA Sample Type:

Sample ID No.: MPT-45-C2-2'
Sample Location: A1
Sampled By: C.Metz
C.O.C. No.: 11223

Type of Sample:
[] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: / Time: / Method: / Monitor Reading (ppm):	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)

COMPOSITE SAMPLE DATA:

Date: 1-5-04 / Time: 1458 / Method: hand auger / Monitor Readings (Range in ppm): 0.0	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
		1 to 2 feet	light bwn to gray	Very tight dry fine sand with limestone and concrete rock

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	LAB
All analysis	(1) 1L Glass Jar	Yes	Katahdin

OBSERVATIONS / NOTES:

Soil is extremely dry and hard. Soil was hard to hand auger in because of limestone rock and small chunks of concrete that were mixed in it. Soil was so packed that you couldn't push a straight screwdriver into it even if you put all your weight on it.

MAP:

See site map for sample locations

Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s): Charles Metz

Tetra Tech NUS, Inc.

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: SWMU 45 - NS Mayport
Project No.: N0123.QM0050105

[X] Surface Soil (SS)
[] Subsurface Soil (SU)
[] Sediment (SD)
[] Other:
[] QA Sample Type:

Sample ID No.: MPT-45-C3-2'
Sample Location: A1
Sampled By: C.Metz
C.O.C. No.: 11223

Type of Sample:
[] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: / Time: / Method: / Monitor Reading (ppm):	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)

COMPOSITE SAMPLE DATA:

Date: 1-5-04 / Time: 1449 / Method: hand auger / Monitor Readings (Range in ppm): 0.0	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
		1 to 2 feet	light bwn to gray	Very tight dry fine sand with limestone and concrete rock

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	LAB
All analysis	(1) 1L Glass Jar	Yes	Katahdin

OBSERVATIONS / NOTES:

Soil is extremely dry and hard. Soil was hard to hand auger in because of limestone rock and small chunks of concrete that were mixed in it. Soil was so packed that you couldn't push a straight screwdriver into it even if you put all your weight on it.

MAP:

See site map for sample locations

Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s): Charles McO

Tetra Tech NUS, Inc.

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: SWMU 45 - NS Mayport
Project No.: N0123.QM0050105

Sample ID No.: MPT-45-D3-2'
Sample Location: A1
Sampled By: C.Metz
C.O.C. No.: 11223

[X] Surface Soil (SS)
[] Subsurface Soil (SU)
[] Sediment (SD)
[] Other:
[] QA Sample Type:

Type of Sample:
[] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: / Time: / Method: / Monitor Reading (ppm):	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)

COMPOSITE SAMPLE DATA:

Date: 1-5-04 / Time: 1524 / Method: hand auger / Monitor Readings (Range in ppm): 0.0	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
		1 to 2 feet	light bwn to gray	Very tight dry fine sand with limestone and concrete rock

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	LAB
All analysis	(1) 1L Glass Jar	Yes	Katahdin

OBSERVATIONS / NOTES:

Soil is extremely dry and hard. Soil was hard to hand auger in because of limestone rock and small chunks of concrete that were mixed in it. Soil was so packed that you couldn't push a straight screwdriver into it even if you put all your weight on it.

MAP:

See site map for sample locations

Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s): Charles Metz

Tetra Tech NUS, Inc.

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: SWMU 45 - NS Mayport
Project No.: N0123.QM0050105

[X] Surface Soil (SS)
[] Subsurface Soil (SU)
[] Sediment (SD)
[] Other:
[] QA Sample Type:

Sample ID No.: MPT-45-D4-2'
Sample Location: A1
Sampled By: C.Metz
C.O.C. No.: 11223

Type of Sample:
[] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date:	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time:			
Method:			
Monitor Reading (ppm):			

COMPOSITE SAMPLE DATA:

Date: 1-5-04	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1514		1 to 2 feet	light bwn to gray	Very tight dry fine sand with limestone and concrete rock
Method: hand auger				
Monitor Readings				
(Range in ppm): 0.0				

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	LAB
All analysis	(1) 1L Glass Jar	Yes	Katahdin

OBSERVATIONS / NOTES:

Soil is extremely dry and hard. Soil was hard to hand auger in because of limestone rock and small chunks of concrete that were mixed in it. Soil was so packed that you couldn't push a straight screwdriver into it even if you put all your weight on it.

MAP:

See site map for sample locations

Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s): Charla Metz

Tetra Tech NUS, Inc.

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: SWMU 45 - NS Mayport
Project No.: N0123.QM0050105

[X] Surface Soil (SS)
[] Subsurface Soil (SU)
[] Sediment (SD)
[] Other:
[] QA Sample Type:

Sample ID No.: MPT-45-E4-2'
Sample Location: A1
Sampled By: C.Metz
C.O.C. No.: 11223

Type of Sample:
[] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: / Time: / Method: / Monitor Reading (ppm):	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)

COMPOSITE SAMPLE DATA:

Date: 1-5-04 / Time: 1200 / Method: hand auger / Monitor Readings (Range in ppm): 0.0	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
		1 to 2 feet	light bwn to gray	Very tight dry fine sand with limestone and concrete rock

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	LAB
All analysis	(1) 1L Glass Jar	Yes	Katahdin

OBSERVATIONS / NOTES:

Soil is extremely dry and hard. Soil was hard to hand auger in because of limestone rock and small chunks of concrete that were mixed in it. Soil was so packed that you couldn't push a straight screwdriver into it even if you put all your weight on it.

MAP:

See site map for sample locations

Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s): Charles Metz

Tetra Tech NUS, Inc.

SOIL & SEDIMENT SAMPLE LOG SHEET

Project Site Name: SWMU 45 - NS Mayport
Project No.: N0123.QM0050105

[X] Surface Soil (SS)
[] Subsurface Soil (SU)
[] Sediment (SD)
[] Other:
[] QA Sample Type:

Sample ID No.: MPT-45-E4-5'
Sample Location: A1
Sampled By: C.Metz
C.O.C. No.: 11223

Type of Sample:
[] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: / Time: / Method: / Monitor Reading (ppm):	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)

COMPOSITE SAMPLE DATA:

Date: 1-5-04 / Time: 1220 / Method: hand auger / Monitor Readings (Range in ppm): 0.0	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
		1 to 2 feet	light bwn to gray	Very tight dry fine sand with limestone and concrete rock

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	LAB
All analysis	(1) 1L Glass Jar	Yes	Katahdin

OBSERVATIONS / NOTES:

Soil is extremely dry and hard. Soil was hard to hand auger in because of limestone rock and small chunks of concrete that were mixed in it. Soil was so packed that you couldn't push a straight screwdriver into it even if you put all your weight on it.

MAP:

See site map for sample locations

Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s): Charles Metz

TETRA TECH NUS, INC. | **CHAIN OF CUSTODY** | **NUMBER** 1123 | **PAGE** 1 **OF** 2

PROJECT NO:	FACILITY:	PROJECT MANAGER	PHONE NUMBER	LABORATORY NAME AND CONTACT:
N0123 (CTO 91)	NS Mayport	Terry Hansen		Katahdin / Andrea Colby
SAMPLERS (SIGNATURE)		**FIELD OPERATIONS LEADER**	**PHONE NUMBER**	**ADDRESS**
Charles Metz		Charles Metz	904-636-6125	340 County Rd #5
		CARRIER/WAYBILL NUMBER		**CITY, STATE**
				Westbrook, ME 04092

STANDARD TAT ☐
RUSH TAT ☑
☐ 24 hr. ☐ 48 hr. ☐ 72 hr. ☐ 7 day ☐ 14 day

DATE (YEAR 2003)	TIME	SAMPLE ID	LOCATION ID	TOP DEPTH (FT)	BOTTOM DEPTH (FT)	MATRIX (GW, SO, SW, SD, QC, ETC.)	COLLECTION METHOD GRAB (G) COMP (C)	No. OF CONTAINERS	CONTAINER TYPE PLASTIC (P) or GLASS (G)	PRESERVATIVE USED	TYPE OF ANALYSIS All Analysis *	COMMENTS
									G			
1-5	1400	MPT-45-A1-2'		1	2	SO	C	1	1			
	1352	MPT-45-A2-2'					C	1	1			
	1345	MPT-45-A3-2'					C	1	1			
	1300	MPT-45-A4-2'					C	1	1			
	1426	MPT-45-B1-2'					C	1	1			Cool 4°C
	1418	MPT-45-B2-2'					C	1	1			
	1410	MPT-45-B3-2'					C	1	1			* (TCL Semivolatile, Pesticide, PAH, PCB, TRPH, SPLP, TAL Metals, and Cyanide.)
	1255	MPT-45-B4-2'					C	1	1			
	1503	MPT-45-C1-2'					C	1	1			
	1458	MPT-45-C2-2'					C	1	1			
	1449	MPT-45-C3-2'					C	1	1			
	1240	MPT-45-C4-2'					C	1	1			# WR410(55)
	1524	MPT-45-D3-2'					C	1	1			

1. RELINQUISHED BY Charles Metz	DATE 1-8-04	TIME 1850	1. RECEIVED BY	DATE	TIME
2. RELINQUISHED BY	DATE	TIME	2. RECEIVED BY	DATE	TIME
3. RELINQUISHED BY	DATE	TIME	3. RECEIVED BY	DATE	TIME
COMMENTS					

DISTRIBUTION: WHITE (ACCOMPANIES SAMPLE) YELLOW (FIELD COPY) PINK (FILE COPY)

TETRA TECH NUS, INC. | **CHAIN OF CUSTODY** | **NUMBER** 1223 | **PAGE** 2 **OF** 2

PROJECT NO:	FACILITY:	PROJECT MANAGER	PHONE NUMBER	LABORATORY NAME AND CONTACT:
N0123 (CTO #91)	NS Mayport	Terry Hansen		Katahdin / Andrea Colby
SAMPLERS (SIGNATURE)		**FIELD OPERATIONS LEADER**	**PHONE NUMBER**	**ADDRESS**
Charles Metz		Charles Metz	904-636-6125	340 County Rd #5
		CARRIER/WAYBILL NUMBER 7905-1407-8163 7905-1407-8141		**CITY, STATE** Westbrook ME 04092

STANDARD TAT ☐
RUSH TAT ☑
☐ 24 hr. ☐ 48 hr. ☐ 72 hr. ☐ 7 day ☐ 14 day

DATE YEAR 2003	TIME	SAMPLE ID	LOCATION ID	TOP DEPTH (FT)	BOTTOM DEPTH (FT)	MATRIX (GW, SO, SW, SD, QC, ETC.)	COLLECTION METHOD GRAP (G) COMP (C)	No. OF CONTAINERS	CONTAINER TYPE PLASTIC (P) or GLASS (G)	PRESERVATIVE USED	TYPE OF ANALYSIS All Analyses *	COMMENTS
1-5	1514	MPT-45-D4-2'		1	2	SO	C	1	1			
1-5	1200	MPT-45-E4-2'		1	2	SO	C	1	1			
1-5	1220	MPT-45-E4-5'		4	5	SO	C	1	1			
												Cool 4°C
								2 Coolers				* TCL Semivolatile, Pesticide, PAH, PCB, TRPH, SPLP, TAL Metals and Cyanide
												# WR410(SS)

1. RELINQUISHED BY Charles Metz	DATE 1-8-04	TIME 1850	1. RECEIVED BY	DATE	TIME
2. RELINQUISHED BY	DATE	TIME	2. RECEIVED BY	DATE	TIME
3. RELINQUISHED BY	DATE	TIME	3. RECEIVED BY	DATE	TIME

COMMENTS

DISTRIBUTION: WHITE (ACCOMPANIES SAMPLE) YELLOW (FIELD COPY) PINK (FILE COPY)

ATTACHMENT D

LABORATORY DATA

Tetra Tech NUS

INTERNAL CORRESPONDENCE

TO: T. HANSEN **DATE:** MARCH 2, 2004

FROM: SETH C. STAFFEN **COPIES:** DV FILE

SUBJECT: ORGANIC DATA VALIDATION – PAH / PEST / TPH
CTO 091, NS MAYPORT
SDG: WU0149

SAMPLES:

8/SPLP/PAH

MPT-45-A2-2'	MPT-45-B1-2'	MPT-45-B2-2'
MPT-45-C1-2'	MPT-45-C2-2'	MPT-45-C3-2'
MPT-45-C4-2'	MPT-45-D3-2'	

2/SPLP/PEST

MPT-45-A1-2'	MPT-45-A2-2'

4/SPLP/TPH

MPT-45-A4-2'	MPT-45-B1-2'	MPT-45-B3-2'
MPT-45-D3-2'		

OVERVIEW

The sample set for CTO 091, SDG WU0149; Naval Station (NS) Mayport consists of eleven (11) SPLP samples. The SPLP samples were analyzed for polynuclear aromatic hydrocarbons (PAHs), pesticides, and total petroleum hydrocarbons (TPH) according to the above sample listing. No field duplicate pairs were included in this SDG.

The samples were collected on January 5th, 2004 by Tetra Tech NUS, Inc. and analyzed by Katahdin Analytical Services. All analyses were performed in accordance with Naval Facilities Engineering Service Center (NFESC) Quality Assurance/Quality Control (QA/QC) criteria and analyzed according to SW 846 Methods 8270-SIM, 8081, and Florida-PRO analytical and reporting protocols. The data in this SDG was validated with regard to the following parameters:

- Data Completeness
- * Holding Times/Preservation
- * GC/MS Tuning and System Performance
- Initial/Continuing Calibrations
- * Laboratory Method Blank Results
- Surrogate Spike Recoveries
- * Laboratory Control Sample Results
- * Internal Standard Performance
- * Compound Identification
- * Compound Quantitation
- * Detection Limits

The symbol (*) indicates that all quality control criteria were met for this parameter. Problems affecting data quality are discussed below; documentation supporting these findings is presented in Appendix C. Qualified analytical results are presented in Appendix A. Results as reported by the laboratory are presented in Appendix B.

PAH FRACTION

The continuing calibration on 2/19/04 at 0927 contained a percent difference (%D) that exceeded the 25% quality control limit for benzo(g,h,i)perylene. The nondetected results were qualified as estimated, UJ, in the associated samples.

PESTICIDES FRACTION

The continuing calibration on 1/27/04 at 0650 contained a percent difference (%D) that exceeded the 15% quality control limit for d-BHC on column RTX-CLPI and methoxychlor on column RTX-CLPII. No qualification action was taken because the reported results were nondetect and other column was compliant.

TPH FRACTION

The surrogate recovery of o-terphenyl fell below the lower quality control limit (82%) for samples MPT-45-B1-2' (81%) and MPT-45-D3-2' (79%). No qualification action was taken for minor surrogate recovery noncompliances.

ADDITIONAL COMMENTS

The chain of custodies (COCs) did not specify which samples and fractions were to undergo SPLP analysis. Therefore, data completeness could not be verified on the data reviewer level based on the information provided on the COCs. This data review was based on the information provided by the laboratory in the data package.

EXECUTIVE SUMMARY

Laboratory Performance: Several compounds exceeded the continuing calibration criteria in the PAH and pesticide fractions.

Other Factors Affecting Data Quality: The COCs did not specify which samples and fractions were to undergo SPLP analysis.

The data for these analyses were reviewed with reference to the EPA Functional Guidelines for Organic Data Validation (October 1999) and the NFESC guidelines "Navy IRCDQM" (September 1999). The text of this report has been formulated to address only those problem areas affecting data quality.

"I attest that the data referenced herein were validated according to the agreed upon validation criteria as specified in the NFESC guidelines and the Quality Assurance Project Plan (QAPP)."

Seth C. Staffen

Environmental Scientist/Data Validator
Tetra Tech NUS

Joseph A. Samchuck

Data Validation Quality Assurance Officer
TetraTech NUS

Attachments:

1. Appendix A - Qualified Analytical Results
2. Appendix B - Results as Reported by the Laboratory
3. Appendix C - Support Documentation

APPENDIX A

QUALIFIED ANALYTICAL RESULTS

Qualifier Codes:

A = Lab Blank Contamination
B = Field Blank Contamination
C = Calibration Noncompliance (i.e., % RSDs, %Ds, ICVs, CCVs, RRFs, etc.)
C01 = GC/MS Tuning Noncompliance
D = MS/MSD Recovery Noncompliance
E = LCS/LCSD Recovery Noncompliance
F = Lab Duplicate Imprecision
G = Field Duplicate Imprecision
H = Holding Time Exceedance
I = ICP Serial Dilution Noncompliance
J = GFAA PDS - GFAA MSA's $r < 0.995$
K = ICP Interference - includes ICS % R Noncompliance
L = Instrument Calibration Range Exceedance
M = Sample Preservation Noncompliance
N = Internal Standard Noncompliance
N01 = Internal Standard Recovery Noncompliance Dioxins
N02 = Recovery Standard Noncompliance Dioxins
N03 = Clean-up Standard Noncompliance Dioxins
O = Poor Instrument Performance (i.e., base-time drifting)
P = Uncertainty near detection limit (< 2 x IDL for inorganics and <CRQL for organics)
Q = Other problems (can encompass a number of issues; i.e.chromatography,interferences, etc.)
R = Surrogates Recovery Noncompliance
S = Pesticide/PCB Resolution
T = % Breakdown Noncompliance for DDT and Endrin
U = % Difference between columns/detectors >25% for positive results determined via GC/HPLC
V = Non-linear calibrations; correlation coefficient $r < 0.995$
W = EMPC result
X = Signal to noise response drop
Y = Percent solids <30%
Z = Uncertainty at 2 sigma deviation is less than sample activity

PROJ_NO: 0123

SDG: WU0149 MEDIA: SPLP DATA FRACTION: SPPAH

nsample	MPT-45-A2-2'	nsample	MPT-45-B1-2'	nsample	MPT-45-B2-2'
samp_date	1/5/2004	samp_date	1/5/2004	samp_date	1/5/2004
lab_id	WU0149-2	lab_id	WU0149-5	lab_id	WU0149-6
qc_type	NM	qc_type	NM	qc_type	NM
units	UG/L	units	UG/L	units	UG/L
Pct_Solids		Pct_Solids		Pct_Solids	
DUP_OF:		DUP_OF:		DUP_OF:	

Parameter	Result	Val Qual	Qual Code
2-METHYLNAPHTHALENE	1	U	
ACENAPHTHENE	1	U	
ACENAPHTHYLENE	1	U	
ANTHRACENE	1	U	
BENZO(A)ANTHRACENE	1	U	
BENZO(A)PYRENE	1	U	
BENZO(B)FLUORANTHENE	1	U	
BENZO(G,H,I)PERYLENE	1	UJ	C
BENZO(K)FLUORANTHENE	1	U	
CHRYSENE	1	U	
DIBENZO(A,H)ANTHRACENE	1	U	
FLUORANTHENE	1	U	
FLUORENE	1	U	
INDENO(1,2,3-CD)PYRENE	1	U	
NAPHTHALENE	1	U	
PHENANTHRENE	1	U	
PYRENE	1	U	

Parameter	Result	Val Qual	Qual Code
2-METHYLNAPHTHALENE	1	U	
ACENAPHTHENE	1	U	
ACENAPHTHYLENE	1	U	
ANTHRACENE	1	U	
BENZO(A)ANTHRACENE	1	U	
BENZO(A)PYRENE	1	U	
BENZO(B)FLUORANTHENE	1	U	
BENZO(G,H,I)PERYLENE	1	UJ	C
BENZO(K)FLUORANTHENE	1	U	
CHRYSENE	1	U	
DIBENZO(A,H)ANTHRACENE	1	U	
FLUORANTHENE	1	U	
FLUORENE	1	U	
INDENO(1,2,3-CD)PYRENE	1	U	
NAPHTHALENE	1	U	
PHENANTHRENE	1	U	
PYRENE	1	U	

Parameter	Result	Val Qual	Qual Code
2-METHYLNAPHTHALENE	1	U	
ACENAPHTHENE	1	U	
ACENAPHTHYLENE	1	U	
ANTHRACENE	1	U	
BENZO(A)ANTHRACENE	1	U	
BENZO(A)PYRENE	1	U	
BENZO(B)FLUORANTHENE	1	U	
BENZO(G,H,I)PERYLENE	1	UJ	C
BENZO(K)FLUORANTHENE	1	U	
CHRYSENE	1	U	
DIBENZO(A,H)ANTHRACENE	1	U	
FLUORANTHENE	1	U	
FLUORENE	1	U	
INDENO(1,2,3-CD)PYRENE	1	U	
NAPHTHALENE	1	U	
PHENANTHRENE	1	U	
PYRENE	1	U	

PROJ_NO: 0123

SDG: WU0149 MEDIA: SPLP DATA FRACTION: SPPAH

nsample	MPT-45-C1-2'	nsample	MPT-45-C2-2'	nsample	MPT-45-C3-2'
samp_date	1/5/2004	samp_date	1/5/2004	samp_date	1/5/2004
lab_id	WU0149-9	lab_id	WU0149-10	lab_id	WU0149-11
qc_type	NM	qc_type	NM	qc_type	NM
units	UG/L	units	UG/L	units	UG/L
Pct_Solids		Pct_Solids		Pct_Solids	
DUP_OF:		DUP_OF:		DUP_OF:	

Parameter	Result	Val Qual	Qual Code
2-METHYLNAPHTHALENE	1	U	
ACENAPHTHENE	1	U	
ACENAPHTHYLENE	1	U	
ANTHRACENE	1	U	
BENZO(A)ANTHRACENE	1	U	
BENZO(A)PYRENE	1	U	
BENZO(B)FLUORANTHENE	1	U	
BENZO(G,H,I)PERYLENE	1	UJ	C
BENZO(K)FLUORANTHENE	1	U	
CHRYSENE	1	U	
DIBENZO(A,H)ANTHRACENE	1	U	
FLUORANTHENE	1	U	
FLUORENE	1	U	
INDENO(1,2,3-CD)PYRENE	1	U	
NAPHTHALENE	1	U	
PHENANTHRENE	1	U	
PYRENE	1	U	

Parameter	Result	Val Qual	Qual Code
2-METHYLNAPHTHALENE	1	U	
ACENAPHTHENE	1	U	
ACENAPHTHYLENE	1	U	
ANTHRACENE	1	U	
BENZO(A)ANTHRACENE	1	U	
BENZO(A)PYRENE	1	U	
BENZO(B)FLUORANTHENE	1	U	
BENZO(G,H,I)PERYLENE	1	UJ	C
BENZO(K)FLUORANTHENE	1	U	
CHRYSENE	1	U	
DIBENZO(A,H)ANTHRACENE	1	U	
FLUORANTHENE	1	U	
FLUORENE	1	U	
INDENO(1,2,3-CD)PYRENE	1	U	
NAPHTHALENE	1	U	
PHENANTHRENE	1	U	
PYRENE	1	U	

Parameter	Result	Val Qual	Qual Code
2-METHYLNAPHTHALENE	1	U	
ACENAPHTHENE	1	U	
ACENAPHTHYLENE	1	U	
ANTHRACENE	1	U	
BENZO(A)ANTHRACENE	1	U	
BENZO(A)PYRENE	1	U	
BENZO(B)FLUORANTHENE	1	U	
BENZO(G,H,I)PERYLENE	1	UJ	C
BENZO(K)FLUORANTHENE	1	U	
CHRYSENE	1	U	
DIBENZO(A,H)ANTHRACENE	1	U	
FLUORANTHENE	1	U	
FLUORENE	1	U	
INDENO(1,2,3-CD)PYRENE	1	U	
NAPHTHALENE	1	U	
PHENANTHRENE	1	U	
PYRENE	1	U	

PROJ_NO: 0123

SDG: WU0149 MEDIA: SPLP DATA FRACTION: SPPAH

nsample	MPT-45-C4-2'	nsample	MPT-45-D3-2'
samp_date	1/5/2004	samp_date	1/5/2004
lab_id	WU0149-12	lab_id	WU0149-13
qc_type	NM	qc_type	NM
units	UG/L	units	UG/L
Pct_Solids		Pct_Solids	
DUP_OF:		DUP_OF:	

Parameter	Result	Val Qual	Qual Code
2-METHYLNAPHTHALENE	1	U	
ACENAPHTHENE	1	U	
ACENAPHTHYLENE	1	U	
ANTHRACENE	1	U	
BENZO(A)ANTHRACENE	1	U	
BENZO(A)PYRENE	1	U	
BENZO(B)FLUORANTHENE	1	U	
BENZO(G,H,I)PERYLENE	1	UJ	C
BENZO(K)FLUORANTHENE	1	U	
CHRYSENE	1	U	
DIBENZO(A,H)ANTHRACENE	1	U	
FLUORANTHENE	1	U	
FLUORENE	1	U	
INDENO(1,2,3-CD)PYRENE	1	U	
NAPHTHALENE	1	U	
PHENANTHRENE	1	U	
PYRENE	1	U	

Parameter	Result	Val Qual	Qual Code
2-METHYLNAPHTHALENE	1	U	
ACENAPHTHENE	1	U	
ACENAPHTHYLENE	1	U	
ANTHRACENE	1	U	
BENZO(A)ANTHRACENE	1	U	
BENZO(A)PYRENE	1	U	
BENZO(B)FLUORANTHENE	1	U	
BENZO(G,H,I)PERYLENE	1	UJ	C
BENZO(K)FLUORANTHENE	1	U	
CHRYSENE	1	U	
DIBENZO(A,H)ANTHRACENE	1	U	
FLUORANTHENE	1	U	
FLUORENE	1	U	
INDENO(1,2,3-CD)PYRENE	1	U	
NAPHTHALENE	1	U	
PHENANTHRENE	1	U	
PYRENE	1	U	

PROJ_NO: 0123

SDG: WU0149 MEDIA: SPLP DATA FRACTION: SPLPP

nsample	MPT-45-A1-2'	nsample	MPT-45-A2-2'
samp_date	1/5/2004	samp_date	1/5/2004
lab_id	WU0149-1	lab_id	WU0149-2
qc_type	NM	qc_type	NM
units	UG/L	units	UG/L
Pct_Solids		Pct_Solids	
DUP_OF:		DUP_OF:	

Parameter	Result	Val Qual	Qual Code
4,4'-DDD	0.5	U	
4,4'-DDE	0.5	U	
4,4'-DDT	0.5	U	
ALDRIN	0.25	U	
ALPHA-BHC	0.25	U	
ALPHA-CHLORDANE	0.25	U	
BETA-BHC	0.25	U	
DELTA-BHC	0.25	U	
DIELDRIN	0.5	U	
ENDOSULFAN I	0.25	U	
ENDOSULFAN II	0.5	U	
ENDOSULFAN SULFATE	0.5	U	
ENDRIN	0.5	U	
ENDRIN ALDEHYDE	0.5	U	
ENDRIN KETONE	0.5	U	
GAMMA-BHC (LINDANE)	0.25	U	
GAMMA-CHLORDANE	0.25	U	
HEPTACHLOR	0.25	U	
HEPTACHLOR EPOXIDE	0.25	U	
METHOXYCHLOR	2.5	U	
TOXAPHENE	5	U	

Parameter	Result	Val Qual	Qual Code
4,4'-DDD	0.5	U	
4,4'-DDE	0.5	U	
4,4'-DDT	0.5	U	
ALDRIN	0.25	U	
ALPHA-BHC	0.25	U	
ALPHA-CHLORDANE	0.25	U	
BETA-BHC	0.25	U	
DELTA-BHC	0.25	U	
DIELDRIN	0.5	U	
ENDOSULFAN I	0.25	U	
ENDOSULFAN II	0.5	U	
ENDOSULFAN SULFATE	0.5	U	
ENDRIN	0.5	U	
ENDRIN ALDEHYDE	0.5	U	
ENDRIN KETONE	0.5	U	
GAMMA-BHC (LINDANE)	0.25	U	
GAMMA-CHLORDANE	0.25	U	
HEPTACHLOR	0.25	U	
HEPTACHLOR EPOXIDE	0.25	U	
METHOXYCHLOR	2.5	U	
TOXAPHENE	5	U	

PROJ_NO: 0123

SDG: WU0149 MEDIA: SPLP DATA FRACTION: SPLPT

nsample	MPT-45-A4-2'	nsample	MPT-45-B1-2'	nsample	MPT-45-B3-2'
samp_date	1/5/2004	samp_date	1/5/2004	samp_date	1/5/2004
lab_id	WU0149-4	lab_id	WU0149-5	lab_id	WU0149-7
qc_type	NM	qc_type	NM	qc_type	NM
units	UG/L	units	UG/L	units	UG/L
Pct_Solids		Pct_Solids		Pct_Solids	
DUP_OF:		DUP_OF:		DUP_OF:	

Parameter	Result	Val Qual	Qual Code
TOTAL PETROLEUM HYDROCARBONS	2500	U	

Parameter	Result	Val Qual	Qual Code
TOTAL PETROLEUM HYDROCARBONS	2500	U	

Parameter	Result	Val Qual	Qual Code
TOTAL PETROLEUM HYDROCARBONS	2500	U	

PROJ_NO: 0123

SDG: WU0149 MEDIA: SPLP DATA FRACTION: SPLPT

nsample	MPT-45-D3-2'
samp_date	1/5/2004
lab_id	WU0149-13
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
TOTAL PETROLEUM HYDROCARBONS	2500	U	

APPENDIX B

RESULTS AS REPORTED BY THE LABORATORY

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO91 NS MAYPORT
PO No:
Sample Date: 01/05/04
Received Date: 01/09/04
Extraction Date: 01/21/04
Analysis Date: 02/19/04
Report Date: 02/20/2004
Matrix: WATER
% Solids: NA

Lab ID: WU0149-2
Client ID: MPT-45-A2-2'
SDG: WU0149
Extracted by: AZ
Extraction Method: SW846 3510
Analyst: JCG
Analysis Method: SW846 M8270C
Lab Prep Batch: WG5555
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
91-20-3	Naphthalene	U	1.0	1.0	1.0	1.0	0.25
91-57-6	2-Methylnaphthalene	U	1.0	1.0	1.0	1.0	0.40
208-96-8	Acenaphthylene	U	1.0	1.0	1.0	1.0	0.25
83-32-9	Acenaphthene	U	1.0	1.0	1.0	1.0	0.40
86-73-7	Fluorene	U	1.0	1.0	1.0	1.0	0.30
85-01-8	Phenanthrene	U	1.0	1.0	1.0	1.0	0.40
120-12-7	Anthracene	U	1.0	1.0	1.0	1.0	0.40
206-44-0	Fluoranthene	U	1.0	1.0	1.0	1.0	0.55
129-00-0	Pyrene	U	1.0	1.0	1.0	1.0	0.45
56-55-3	Benzo(a)anthracene	U	1.0	1.0	1.0	1.0	0.60
218-01-9	Chrysene	U	1.0	1.0	1.0	1.0	0.35
205-99-2	Benzo(b)fluoranthene	U	1.0	1.0	1.0	1.0	0.45
207-08-9	Benzo(k)fluoranthene	U	1.0	1.0	1.0	1.0	0.40
50-32-8	Benzo(a)pyrene	U	1.0	1.0	1.0	1.0	0.45
193-39-5	Indeno(1,2,3-cd)pyrene	U	1.0	1.0	1.0	1.0	0.50
53-70-3	Dibenzo(a,h)anthracene	U	1.0	1.0	1.0	1.0	0.75
191-24-2	Benzo(g,h,i)perylene	U	1.0	1.0	1.0	1.0	0.40
7297-45-2	2-Methylnaphthalene-d10		84%				
81103-79-9	Fluorene-d10		88%				
1718-52-1	Pyrene-d10		94%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO91 NS MAYPORT
PO No:
Sample Date: 01/05/04
Received Date: 01/09/04
Extraction Date: 01/21/04
Analysis Date: 02/19/04
Report Date: 02/20/2004
Matrix: WATER
% Solids: NA

Lab ID: WU0149-5
Client ID: MPT-45-B1-2'
SDG: WU0149
Extracted by: AZ
Extraction Method: SW846 3510
Analyst: JCG
Analysis Method: SW846 M8270C
Lab Prep Batch: WG5555
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
91-20-3	Naphthalene	U	1.0	1.0	1.0	1.0	0.25
91-57-6	2-Methylnaphthalene	U	1.0	1.0	1.0	1.0	0.40
208-96-8	Acenaphthylene	U	1.0	1.0	1.0	1.0	0.25
83-32-9	Acenaphthene	U	1.0	1.0	1.0	1.0	0.40
86-73-7	Fluorene	U	1.0	1.0	1.0	1.0	0.30
85-01-8	Phenanthrene	U	1.0	1.0	1.0	1.0	0.40
120-12-7	Anthracene	U	1.0	1.0	1.0	1.0	0.40
206-44-0	Fluoranthene	U	1.0	1.0	1.0	1.0	0.55
129-00-0	Pyrene	U	1.0	1.0	1.0	1.0	0.45
56-55-3	Benzo(a)anthracene	U	1.0	1.0	1.0	1.0	0.60
218-01-9	Chrysene	U	1.0	1.0	1.0	1.0	0.35
205-99-2	Benzo(b)fluoranthene	U	1.0	1.0	1.0	1.0	0.45
207-08-9	Benzo(k)fluoranthene	U	1.0	1.0	1.0	1.0	0.40
50-32-8	Benzo(a)pyrene	U	1.0	1.0	1.0	1.0	0.45
193-39-5	Indeno(1,2,3-cd)pyrene	U	1.0	1.0	1.0	1.0	0.50
53-70-3	Dibenzo(a,h)anthracene	U	1.0	1.0	1.0	1.0	0.75
191-24-2	Benzo(g,h,i)perylene	U	1.0	1.0	1.0	1.0	0.40
7297-45-2	2-Methylnaphthalene-d10		88%				
81103-79-9	Fluorene-d10		95%				
1718-52-1	Pyrene-d10		108%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO91 NS MAYPORT
PO No:
Sample Date: 01/05/04
Received Date: 01/09/04
Extraction Date: 01/21/04
Analysis Date: 02/19/04
Report Date: 02/20/2004
Matrix: WATER
% Solids: NA

Lab ID: WU0149-6
Client ID: MPT-45-B2-2'
SDG: WU0149
Extracted by: AZ
Extraction Method: SW846 3510
Analyst: JCG
Analysis Method: SW846 M8270C
Lab Prep Batch: WG5555
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
91-20-3	Naphthalene	U	1.0	1.0	1.0	1.0	0.25
91-57-6	2-Methylnaphthalene	U	1.0	1.0	1.0	1.0	0.40
208-96-8	Acenaphthylene	U	1.0	1.0	1.0	1.0	0.25
83-32-9	Acenaphthene	U	1.0	1.0	1.0	1.0	0.40
86-73-7	Fluorene	U	1.0	1.0	1.0	1.0	0.30
85-01-8	Phenanthrene	U	1.0	1.0	1.0	1.0	0.40
120-12-7	Anthracene	U	1.0	1.0	1.0	1.0	0.40
206-44-0	Fluoranthene	U	1.0	1.0	1.0	1.0	0.55
129-00-0	Pyrene	U	1.0	1.0	1.0	1.0	0.45
56-55-3	Benzo(a)anthracene	U	1.0	1.0	1.0	1.0	0.60
218-01-9	Chrysene	U	1.0	1.0	1.0	1.0	0.35
205-99-2	Benzo(b)fluoranthene	U	1.0	1.0	1.0	1.0	0.45
207-08-9	Benzo(k)fluoranthene	U	1.0	1.0	1.0	1.0	0.40
50-32-8	Benzo(a)pyrene	U	1.0	1.0	1.0	1.0	0.45
193-39-5	Indeno(1,2,3-cd)pyrene	U	1.0	1.0	1.0	1.0	0.50
53-70-3	Dibenzo(a,h)anthracene	U	1.0	1.0	1.0	1.0	0.75
191-24-2	Benzo(g,h,i)perylene	U	1.0	1.0	1.0	1.0	0.40
7297-45-2	2-Methylnaphthalene-d10		86%				
81103-79-9	Fluorene-d10		92%				
1718-52-1	Pyrene-d10		106%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO91 NS MAYPORT
PO No:
Sample Date: 01/05/04
Received Date: 01/09/04
Extraction Date: 01/21/04
Analysis Date: 02/19/04
Report Date: 02/20/2004
Matrix: WATER
% Solids: NA

Lab ID: WU0149-9
Client ID: MPT-45-C1-2'
SDG: WU0149
Extracted by: AZ
Extraction Method: SW846 3510
Analyst: JCG
Analysis Method: SW846 M8270C
Lab Prep Batch: WG5555
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
91-20-3	Naphthalene	U	1.0	1.0	1.0	1.0	0.25
91-57-6	2-Methylnaphthalene	U	1.0	1.0	1.0	1.0	0.40
208-96-8	Acenaphthylene	U	1.0	1.0	1.0	1.0	0.25
83-32-9	Acenaphthene	U	1.0	1.0	1.0	1.0	0.40
86-73-7	Fluorene	U	1.0	1.0	1.0	1.0	0.30
85-01-8	Phenanthrene	U	1.0	1.0	1.0	1.0	0.40
120-12-7	Anthracene	U	1.0	1.0	1.0	1.0	0.40
206-44-0	Fluoranthene	U	1.0	1.0	1.0	1.0	0.55
129-00-0	Pyrene	U	1.0	1.0	1.0	1.0	0.45
56-55-3	Benzo(a)anthracene	U	1.0	1.0	1.0	1.0	0.60
218-01-9	Chrysene	U	1.0	1.0	1.0	1.0	0.35
205-99-2	Benzo(b)fluoranthene	U	1.0	1.0	1.0	1.0	0.45
207-08-9	Benzo(k)fluoranthene	U	1.0	1.0	1.0	1.0	0.40
50-32-8	Benzo(a)pyrene	U	1.0	1.0	1.0	1.0	0.45
193-39-5	Indeno(1,2,3-cd)pyrene	U	1.0	1.0	1.0	1.0	0.50
53-70-3	Dibenzo(a,h)anthracene	U	1.0	1.0	1.0	1.0	0.75
191-24-2	Benzo(g,h,i)perylene	U	1.0	1.0	1.0	1.0	0.40
7297-45-2	2-Methylnaphthalene-d10		82%				
81103-79-9	Fluorene-d10		86%				
1718-52-1	Pyrene-d10		91%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO91 NS MAYPORT
PO No:
Sample Date: 01/05/04
Received Date: 01/09/04
Extraction Date: 01/21/04
Analysis Date: 02/19/04
Report Date: 02/20/2004
Matrix: WATER
% Solids: NA

Lab ID: WU0149-10
Client ID: MPT-45-C2-2'
SDG: WU0149
Extracted by: AZ
Extraction Method: SW846 3510
Analyst: JCG
Analysis Method: SW846 M8270C
Lab Prep Batch: WG5555
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
91-20-3	Naphthalene	U	1.0	1.0	1.0	1.0	0.25
91-57-6	2-Methylnaphthalene	U	1.0	1.0	1.0	1.0	0.40
208-96-8	Acenaphthylene	U	1.0	1.0	1.0	1.0	0.25
83-32-9	Acenaphthene	U	1.0	1.0	1.0	1.0	0.40
86-73-7	Fluorene	U	1.0	1.0	1.0	1.0	0.30
85-01-8	Phenanthrene	U	1.0	1.0	1.0	1.0	0.40
120-12-7	Anthracene	U	1.0	1.0	1.0	1.0	0.40
206-44-0	Fluoranthene	U	1.0	1.0	1.0	1.0	0.55
129-00-0	Pyrene	U	1.0	1.0	1.0	1.0	0.45
56-55-3	Benzo(a)anthracene	U	1.0	1.0	1.0	1.0	0.60
218-01-9	Chrysene	U	1.0	1.0	1.0	1.0	0.35
205-99-2	Benzo(b)fluoranthene	U	1.0	1.0	1.0	1.0	0.45
207-08-9	Benzo(k)fluoranthene	U	1.0	1.0	1.0	1.0	0.40
50-32-8	Benzo(a)pyrene	U	1.0	1.0	1.0	1.0	0.45
193-39-5	Indeno(1,2,3-cd)pyrene	U	1.0	1.0	1.0	1.0	0.50
53-70-3	Dibenzo(a,h)anthracene	U	1.0	1.0	1.0	1.0	0.75
191-24-2	Benzo(g,h,i)perylene	U	1.0	1.0	1.0	1.0	0.40
7297-45-2	2-Methylnaphthalene-d10		79%				
81103-79-9	Fluorene-d10		81%				
1718-52-1	Pyrene-d10		102%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO91 NS MAYPORT
PO No:
Sample Date: 01/05/04
Received Date: 01/09/04
Extraction Date: 01/21/04
Analysis Date: 02/19/04
Report Date: 02/20/2004
Matrix: WATER
% Solids: NA

Lab ID: WU0149-11
Client ID: MPT-45-C3-2'
SDG: WU0149
Extracted by: AZ
Extraction Method: SW846 3510
Analyst: JCG
Analysis Method: SW846 M8270C
Lab Prep Batch: WG5555
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
91-20-3	Naphthalene	U	1.0	1.0	1.0	1.0	0.25
91-57-6	2-Methylnaphthalene	U	1.0	1.0	1.0	1.0	0.40
208-96-8	Acenaphthylene	U	1.0	1.0	1.0	1.0	0.25
83-32-9	Acenaphthene	U	1.0	1.0	1.0	1.0	0.40
86-73-7	Fluorene	U	1.0	1.0	1.0	1.0	0.30
85-01-8	Phenanthrene	U	1.0	1.0	1.0	1.0	0.40
120-12-7	Anthracene	U	1.0	1.0	1.0	1.0	0.40
206-44-0	Fluoranthene	U	1.0	1.0	1.0	1.0	0.55
129-00-0	Pyrene	U	1.0	1.0	1.0	1.0	0.45
56-55-3	Benzo(a)anthracene	U	1.0	1.0	1.0	1.0	0.60
218-01-9	Chrysene	U	1.0	1.0	1.0	1.0	0.35
205-99-2	Benzo(b)fluoranthene	U	1.0	1.0	1.0	1.0	0.45
207-08-9	Benzo(k)fluoranthene	U	1.0	1.0	1.0	1.0	0.40
50-32-8	Benzo(a)pyrene	U	1.0	1.0	1.0	1.0	0.45
193-39-5	Indeno(1,2,3-cd)pyrene	U	1.0	1.0	1.0	1.0	0.50
53-70-3	Dibenzo(a,h)anthracene	U	1.0	1.0	1.0	1.0	0.75
191-24-2	Benzo(g,h,i)perylene	U	1.0	1.0	1.0	1.0	0.40
7297-45-2	2-Methylnaphthalene-d10		86%				
81103-79-9	Fluorene-d10		85%				
1718-52-1	Pyrene-d10		97%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO91 NS MAYPORT
PO No:
Sample Date: 01/05/04
Received Date: 01/09/04
Extraction Date: 01/21/04
Analysis Date: 02/19/04
Report Date: 02/20/2004
Matrix: WATER
% Solids: NA

Lab ID: WU0149-12
Client ID: MPT-45-C4-2'
SDG: WU0149
Extracted by: AZ
Extraction Method: SW846 3510
Analyst: JCG
Analysis Method: SW846 M8270C
Lab Prep Batch: WG5555
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
91-20-3	Naphthalene	U	1.0	1.0	1.0	1.0	0.25
91-57-6	2-Methylnaphthalene	U	1.0	1.0	1.0	1.0	0.40
208-96-8	Acenaphthylene	U	1.0	1.0	1.0	1.0	0.25
83-32-9	Acenaphthene	U	1.0	1.0	1.0	1.0	0.40
86-73-7	Fluorene	U	1.0	1.0	1.0	1.0	0.30
85-01-8	Phenanthrene	U	1.0	1.0	1.0	1.0	0.40
120-12-7	Anthracene	U	1.0	1.0	1.0	1.0	0.40
206-44-0	Fluoranthene	U	1.0	1.0	1.0	1.0	0.55
129-00-0	Pyrene	U	1.0	1.0	1.0	1.0	0.45
56-55-3	Benzo(a)anthracene	U	1.0	1.0	1.0	1.0	0.60
218-01-9	Chrysene	U	1.0	1.0	1.0	1.0	0.35
205-99-2	Benzo(b)fluoranthene	U	1.0	1.0	1.0	1.0	0.45
207-08-9	Benzo(k)fluoranthene	U	1.0	1.0	1.0	1.0	0.40
50-32-8	Benzo(a)pyrene	U	1.0	1.0	1.0	1.0	0.45
193-39-5	Indeno(1,2,3-cd)pyrene	U	1.0	1.0	1.0	1.0	0.50
53-70-3	Dibenzo(a,h)anthracene	U	1.0	1.0	1.0	1.0	0.75
191-24-2	Benzo(g,h,i)perylene	U	1.0	1.0	1.0	1.0	0.40
7297-45-2	2-Methylnaphthalene-d10		77%				
81103-79-9	Fluorene-d10		81%				
1718-52-1	Pyrene-d10		107%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO91 NS MAYPORT
PO No:
Sample Date: 01/05/04
Received Date: 01/09/04
Extraction Date: 01/21/04
Analysis Date: 02/19/04
Report Date: 02/20/2004
Matrix: WATER
% Solids: NA

Lab ID: WU0149-13
Client ID: MPT-45-D3-2'
SDG: WU0149
Extracted by: AZ
Extraction Method: SW846 3510
Analyst: JCG
Analysis Method: SW846 M8270C
Lab Prep Batch: WG5555
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
91-20-3	Naphthalene	U	1.0	1.0	1.0	1.0	0.25
91-57-6	2-Methylnaphthalene	U	1.0	1.0	1.0	1.0	0.40
208-96-8	Acenaphthylene	U	1.0	1.0	1.0	1.0	0.25
83-32-9	Acenaphthene	U	1.0	1.0	1.0	1.0	0.40
86-73-7	Fluorene	U	1.0	1.0	1.0	1.0	0.30
85-01-8	Phenanthrene	U	1.0	1.0	1.0	1.0	0.40
120-12-7	Anthracene	U	1.0	1.0	1.0	1.0	0.40
206-44-0	Fluoranthene	U	1.0	1.0	1.0	1.0	0.55
129-00-0	Pyrene	U	1.0	1.0	1.0	1.0	0.45
56-55-3	Benzo(a)anthracene	U	1.0	1.0	1.0	1.0	0.60
218-01-9	Chrysene	U	1.0	1.0	1.0	1.0	0.35
205-99-2	Benzo(b)fluoranthene	U	1.0	1.0	1.0	1.0	0.45
207-08-9	Benzo(k)fluoranthene	U	1.0	1.0	1.0	1.0	0.40
50-32-8	Benzo(a)pyrene	U	1.0	1.0	1.0	1.0	0.45
193-39-5	Indeno(1,2,3-cd)pyrene	U	1.0	1.0	1.0	1.0	0.50
53-70-3	Dibenzo(a,h)anthracene	U	1.0	1.0	1.0	1.0	0.75
191-24-2	Benzo(g,h,i)perylene	U	1.0	1.0	1.0	1.0	0.40
7297-45-2	2-Methylnaphthalene-d10		74%				
81103-79-9	Fluorene-d10		75%				
1718-52-1	Pyrene-d10		80%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO91 NS MAYPORT
PO No:
Sample Date: 01/05/04
Received Date: 01/09/04
Extraction Date: 01/21/04
Analysis Date: 01/27/04
Report Date: 02/20/2004
Matrix: WATER
% Solids: NA

Lab ID: WU0149-1
Client ID: MPT-45-A1-2'
SDG: WU0149
Extracted by: AZ
Extraction Method: SW846 3510
Analyst: LRS
Analysis Method: SW846 8081A
Lab Prep Batch: WG5554
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
319-84-6	alpha-BHC	U	0.25	1.0	0.25	0.25	0.094
58-89-9	gamma BHC	U	0.25	1.0	0.25	0.25	0.085
76-44-8	Heptachlor	U	0.25	1.0	0.25	0.25	0.10
319-85-7	beta-BHC	U	0.25	1.0	0.25	0.25	0.070
309-00-2	Aldrin	U	0.25	1.0	0.25	0.25	0.10
319-86-8	delta-BHC	U	0.25	1.0	0.25	0.25	0.076
1024-57-3	Heptachlor Epoxide	U	0.25	1.0	0.25	0.25	0.090
959-98-8	Endosulfan I	U	0.25	1.0	0.25	0.25	0.068
72-55-9	4,4'-DDE	U	0.50	1.0	0.50	0.50	0.060
60-57-1	Dieldrin	U	0.50	1.0	0.50	0.50	0.066
72-20-8	Endrin	U	0.50	1.0	0.50	0.50	0.062
72-54-8	4,4'-DDD	U	0.50	1.0	0.50	0.50	0.051
33213-65-9	Endosulfan II	U	0.50	1.0	0.50	0.50	0.046
50-29-3	4,4'-DDT	U	0.50	1.0	0.50	0.50	0.082
7421-36-3	Endrin Aldehyde	U	0.50	1.0	0.50	0.50	0.050
1031-07-8	Endosulfan sulfate	U	0.50	1.0	0.50	0.50	0.13
72-43-5	Methoxychlor	U	2.5	1.0	2.5	2.5	0.12
8001-35-2	Toxaphene	U	5.0	1.0	5.0	5.0	1.8
5103-71-9	alpha-Chlordane	U	0.25	1.0	0.25	0.25	0.081
5103-74-2	gamma-Chlordane	U	0.25	1.0	0.25	0.25	0.085
53494-70-5	Endrin Ketone	U	0.50	1.0	0.50	0.50	0.086
877-09-8	Tetrachloro-m-Xylene		57%				
2051-24-3	Decachlorobiphenyl		61%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO91 NS MAYPORT
PO No:
Sample Date: 01/05/04
Received Date: 01/09/04
Extraction Date: 01/21/04
Analysis Date: 01/27/04
Report Date: 02/20/2004
Matrix: WATER
% Solids: NA

Lab ID: WU0149-2
Client ID: MPT-45-A2-2'
SDG: WU0149
Extracted by: AZ
Extraction Method: SW846 3510
Analyst: LRS
Analysis Method: SW846 8081A
Lab Prep Batch: WG5554
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
319-84-6	alpha-BHC	U	0.25	1.0	0.25	0.25	0.094
58-89-9	gamma BHC	U	0.25	1.0	0.25	0.25	0.085
76-44-8	Heptachlor	U	0.25	1.0	0.25	0.25	0.10
319-85-7	beta-BHC	U	0.25	1.0	0.25	0.25	0.070
309-00-2	Aldrin	U	0.25	1.0	0.25	0.25	0.10
319-86-8	delta-BHC	U	0.25	1.0	0.25	0.25	0.076
1024-57-3	Heptachlor Epoxide	U	0.25	1.0	0.25	0.25	0.090
959-98-8	Endosulfan I	U	0.25	1.0	0.25	0.25	0.068
72-55-9	4,4'-DDE	U	0.50	1.0	0.50	0.50	0.060
60-57-1	Dieldrin	U	0.50	1.0	0.50	0.50	0.066
72-20-8	Endrin	U	0.50	1.0	0.50	0.50	0.062
72-54-8	4,4'-DDD	U	0.50	1.0	0.50	0.50	0.051
33213-65-9	Endosulfan II	U	0.50	1.0	0.50	0.50	0.046
50-29-3	4,4'-DDT	U	0.50	1.0	0.50	0.50	0.082
7421-36-3	Endrin Aldehyde	U	0.50	1.0	0.50	0.50	0.050
1031-07-8	Endosulfan sulfate	U	0.50	1.0	0.50	0.50	0.13
72-43-5	Methoxychlor	U	2.5	1.0	2.5	2.5	0.12
8001-35-2	Toxaphene	U	5.0	1.0	5.0	5.0	1.8
5103-71-9	alpha-Chlordane	U	0.25	1.0	0.25	0.25	0.081
5103-74-2	gamma-Chlordane	U	0.25	1.0	0.25	0.25	0.085
53494-70-5	Endrin Ketone	U	0.50	1.0	0.50	0.50	0.086
877-09-8	Tetrachloro-m-Xylene		69%				
2051-24-3	Decachlorobiphenyl		74%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO91 NS MAYPORT
PO No:
Sample Date: 01/05/04
Received Date: 01/09/04
Extraction Date: 01/21/04
Analysis Date: 02/12/04
Report Date: 02/18/2004
Matrix: WATER
% Solids: NA

Lab ID: WU0149-4
Client ID: MPT-45-A4-2'
SDG: WU0149
Extracted by: AZ
Extraction Method: SW846 3510
Analyst: SAW
Analysis Method: SW846 M8015
Lab Prep Batch: WG5553
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
	Petroleum Range Organics	U	2500	1.0	500	2500	1400
	n-Triacontane-D62		89%				
	O-Terphenyl		89%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO91 NS MAYPORT
PO No:
Sample Date: 01/05/04
Received Date: 01/09/04
Extraction Date: 01/21/04
Analysis Date: 02/12/04
Report Date: 02/18/2004
Matrix: WATER
% Solids: NA

Lab ID: WU0149-5
Client ID: MPT-45-B1-2'
SDG: WU0149
Extracted by: AZ
Extraction Method: SW846 3510
Analyst: SAW
Analysis Method: SW846 M8015
Lab Prep Batch: WG5553
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
	Petroleum Range Organics	U	2500	1.0	500	2500	1400
	n-Triacontane-D62		82%				
	O-Terphenyl		* 81%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO91 NS MAYPORT
PO No:
Sample Date: 01/05/04
Received Date: 01/09/04
Extraction Date: 01/21/04
Analysis Date: 02/12/04
Report Date: 02/18/2004
Matrix: WATER
% Solids: NA

Lab ID: WU0149-7
Client ID: MPT-45-B3-2'
SDG: WU0149
Extracted by: AZ
Extraction Method: SW846 3510
Analyst: SAW
Analysis Method: SW846 M8015
Lab Prep Batch: WG5553
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
	Petroleum Range Organics	U	2500	1.0	500	2500	1400
	n-Triacontane-D62		87%				
	O-Terphenyl		86%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO91 NS MAYPORT
PO No:
Sample Date: 01/05/04
Received Date: 01/09/04
Extraction Date: 01/21/04
Analysis Date: 02/12/04
Report Date: 02/18/2004
Matrix: WATER
% Solids: NA

Lab ID: WU0149-13
Client ID: MPT-45-D3-2'
SDG: WU0149
Extracted by: AZ
Extraction Method: SW846 3510
Analyst: SAW
Analysis Method: SW846 M8015
Lab Prep Batch: WG5553
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
	Petroleum Range Organics	U	2500	1.0	500	2500	1400
	n-Triacontane-D62		84%				
	O-Terphenyl		* 79%				

CUB2017.d

APPENDIX C

SUPPORT DOCUMENTATION

TETRA TECH NUS, INC.
CTO91 NS MAYPORT
WU0149

KATAHDIN ANALYTICAL SERVICES, INC.
340 COUNTY ROAD 5
WESTBROOK, ME 04092

SDG NARRATIVE
KATAHDIN ANALYTICAL SERVICES
TETRA TECH NUS
CASE NS MAYPORT
TASK ORDER MANAGER: TERRY HANSEN
WU0149

Sample Receipt

The following samples were received on January 9, 2004 and were logged in under Katahdin Analytical Services work order number WU0149 for a hardcopy due date of February 13, 2004.

KATAHDIN Sample No.	TTNUS Sample Identification
WU0149-1	MPT-45-A1-2'
WU0149-2	MPT-45-A2-2'
WU0149-3	MPT-45-A3-2'
WU0149-4	MPT-45-A4-2'
WU0149-5	MPT-45-B1-2'
WU0149-6	MPT-45-B2-2'
WU0149-7	MPT-45-B3-2'
WU0149-8	MPT-45-B4-2'
WU0149-9	MPT-45-C1-2'
WU0149-10	MPT-45-C2-2'
WU0149-11	MPT-45-C3-2'
WU0149-12	MPT-45-C4-2'
WU0149-13	MPT-45-D3-2'
WU0149-14	MPT-45-E4-2'
WU0149-15	MPT-45-E4-5'

The samples were logged in for the analyses specified on the chain of custody form. All problems encountered and resolved during sample receipt have been documented on the applicable chain of custody forms.

Sample analyses have been performed by the methods as noted herein.

Should you have any questions or comments concerning this Report of Analysis, please do not hesitate to contact your Katahdin Analytical Services Project Manager, **Andrea J. Colby**. This narrative is an integral part of the Report of Analysis.

Organics Analysis

The samples of Work Order WU0149 were analyzed in accordance with "Test Methods for Evaluating Solid Wastes: Physical/Chemical Methods." SW-846. 2nd edition, 1982 (revised 1984), 3rd edition, 1986, and Updates I, II, IIA, and III 1996, Office of Solid Waste and Emergency Response, U.S. EPA and/or Method for Determination of Petroleum Range Organics (Method #FL-PRO), Florida Department of Environmental Protection, November 1, 1995 for the

specific methods listed below or on the Report of Analysis. Some manual integrations may have been performed due to split peaks and/or corrected baselines. All have been flagged with a "M" (software-generated) on the pertinent quantitation report.

SPLP-8270C SIM Analysis:

There were no protocol deviations or observations noted by the organic laboratory staff for this analysis.

SPLP-FL-PRO Analysis

Samples WU0149-5 and 13 had recoveries for the surrogate, o-terphenyl that were low and outside of the method acceptance limits but were within the laboratory established acceptance limits. Since the recoveries for the second surrogate were acceptable, the samples were not reextracted.

The calibration verification standard (file CUB2005) had a low response for hydrocarbon C_{40}, which resulted in a %D that was above the method acceptance limit of 25%. Since the method requirement applies to only the PRO range response, which was acceptable, the associated samples were not reanalyzed.

SPLP-8081 Analysis

The closing CV standard (file 8UA4152) had a high response for methoxychlor on channel B, which resulted in a %D that was outside of the method acceptance limits of 15%. Since the responses for all of the target analytes and surrogates were acceptable on one channel, the associated samples were not reanalyzed.

There were no other protocol deviations or observations noted by the organics laboratory staff.

Metals Analysis

The samples of Katahdin Work Order WU0149 were prepared and analyzed for metals in accordance with the "Test Methods for Evaluating Aqueous Waste", SW-846, November 1986, Third Edition.

SPLP Extraction (EPA Method 1312)

Katahdin Sample Nos. WU0149-(1-3, 5-15) is a SPLP extract of a solid sample. The extraction dates and the associated SPLP fluid blank identification number for this sample are summarized in the following table.

Katahdin Sample Numbers	SPLP Extraction Start Date	Extraction Finish/Filter Date	Associated SPLP Fluid Blank ID
WU0149-(1-3, 5-15)	01/13/04	01/14/04	PBP608A

Inductively-Coupled Plasma (ICP) Atomic Emission Spectroscopic Analysis

Aqueous-matrix Katahdin Sample Nos. WU0149-(1-3, 5-15) were digested for ICP analysis on 01/22/04 (QC Batch UA22ICW0) in accordance with USEPA Method 3010A. Sample No. WU0149-8 was spilt during digestion. For this reason, the sample was redigested for analysis on 01/23/04 (QC Batch UA23ICW0). Redigestates are identified throughout the raw data by the suffixes "R" or "X" appended to the Katahdin sample number, e.g. "WU0149-008R".

ICP analyses of Katahdin Work Order WU0149 sample digestates were performed in accordance with USEPA Method 6010B, using a Thermo Jarrell Ash (TJA) Trace ICP spectrometer. All samples were analyzed within holding times and all QC criteria were met, with the following comments or exceptions:

Some of the results for analytical run QC samples (ICV, ICB, CCV, CCB, ICSA, and ICSAB) included in the accompanying data package may have exceeded acceptance limits for some elements. Please note that all client samples and batch QC samples associated with out-of-control results for run QC samples were subsequently reanalyzed for the analytes in question.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package has been authorized by the Operations Manager or the Quality Assurance Officer as verified by the following signature.

María Crouch
02.20.04
María Crouch
Quality Assurance Officer

HOLDTIME

SDG WU0149

SORT	UNITS	NSAMPLE	LAB_ID	QC_TYPE	SAMP_DATE	EXTR_DATE	ANAL_DATE	SMP_EXTR	EXTR_ANL	SMP_ANL
M	UG/L	MPT-45-C3-2'	WU0149-011	NM	01/05/2004	01/22/2004	01/23/2004	17	1	18
M	UG/L	MPT-45-A1-2'	WU0149-001	NM	01/05/2004	01/22/2004	01/23/2004	17	1	18
M	UG/L	MPT-45-E4-5'	WU0149-015	NM	01/05/2004	01/22/2004	01/23/2004	17	1	18
M	UG/L	MPT-45-E4-2'	WU0149-014	NM	01/05/2004	01/22/2004	01/23/2004	17	1	18
M	UG/L	MPT-45-C4-2'	WU0149-012	NM	01/05/2004	01/22/2004	01/23/2004	17	1	18
M	UG/L	MPT-45-C2-2'	WU0149-010	NM	01/05/2004	01/22/2004	01/23/2004	17	1	18
M	UG/L	MPT-45-C1-2'	WU0149-009	NM	01/05/2004	01/22/2004	01/23/2004	17	1	18
M	UG/L	MPT-45-B4-2'	WU0149-008R	NM	01/05/2004	01/23/2004	01/26/2004	18	3	21
M	UG/L	MPT-45-B3-2'	WU0149-007	NM	01/05/2004	01/22/2004	01/23/2004	17	1	18
M	UG/L	MPT-45-B2-2'	WU0149-006	NM	01/05/2004	01/22/2004	01/23/2004	17	1	18
M	UG/L	MPT-45-B1-2'	WU0149-005	NM	01/05/2004	01/22/2004	01/23/2004	17	1	18
M	UG/L	MPT-45-A3-2'	WU0149-003	NM	01/05/2004	01/22/2004	01/23/2004	17	1	18
M	UG/L	MPT-45-A2-2'	WU0149-002	NM	01/05/2004	01/22/2004	01/23/2004	17	1	18
M	UG/L	MPT-45-D3-2'	WU0149-013	NM	01/05/2004	01/22/2004	01/23/2004	17	1	18
OS	%	MPT-45-D3-2'	WU0149-13	NM	01/05/2004	01/21/2004	02/19/2004	16	29	45

SORT	UNITS	NSAMPLE	LAB_ID	QC_TYPE	SAMP_DATE	EXTR_DATE	ANAL_DATE	SMP_EXTR	EXTR_ANL	SMP_ANL
OS	%	MPT-45-C4-2'	WU0149-12	NM	01/05/2004	01/21/2004	02/19/2004	16	29	45
OS	%	MPT-45-A2-2'	WU0149-2	NM	01/05/2004	01/21/2004	02/19/2004	16	29	45
OS	%	MPT-45-B1-2'	WU0149-5	NM	01/05/2004	01/21/2004	02/19/2004	16	29	45
OS	%	MPT-45-B2-2'	WU0149-6	NM	01/05/2004	01/21/2004	02/19/2004	16	29	45
OS	%	MPT-45-C1-2'	WU0149-9	NM	01/05/2004	01/21/2004	02/19/2004	16	29	45
OS	%	MPT-45-C2-2'	WU0149-10	NM	01/05/2004	01/21/2004	02/19/2004	16	29	45
OS	%	MPT-45-C3-2'	WU0149-11	NM	01/05/2004	01/21/2004	02/19/2004	16	29	45
OS	UG/L	MPT-45-A2-2'	WU0149-2	NM	01/05/2004	01/21/2004	02/19/2004	16	29	45
OS	UG/L	MPT-45-B1-2'	WU0149-5	NM	01/05/2004	01/21/2004	02/19/2004	16	29	45
OS	UG/L	MPT-45-B2-2'	WU0149-6	NM	01/05/2004	01/21/2004	02/19/2004	16	29	45
OS	UG/L	MPT-45-C1-2'	WU0149-9	NM	01/05/2004	01/21/2004	02/19/2004	16	29	45
OS	UG/L	MPT-45-C2-2'	WU0149-10	NM	01/05/2004	01/21/2004	02/19/2004	16	29	45
OS	UG/L	MPT-45-C3-2'	WU0149-11	NM	01/05/2004	01/21/2004	02/19/2004	16	29	45
OS	UG/L	MPT-45-C4-2'	WU0149-12	NM	01/05/2004	01/21/2004	02/19/2004	16	29	45
OS	UG/L	MPT-45-D3-2'	WU0149-13	NM	01/05/2004	01/21/2004	02/19/2004	16	29	45
PEST	%	MPT-45-A1-2'	WU0149-1	NM	01/05/2004	01/21/2004	01/27/2004	16	6	22
PEST	%	MPT-45-A2-2'	WU0149-2	NM	01/05/2004	01/21/2004	01/27/2004	16	6	22
PEST	UG/L	MPT-45-A2-2'	WU0149-2	NM	01/05/2004	01/21/2004	01/27/2004	16	6	22

SORT	UNITS	NSAMPLE	LAB_ID	QC_TYPE	SAMP_DATE	EXTR_DATE	ANAL_DATE	SMP_EXTR	EXTR_ANL	SMP_ANL
PEST	UG/L	MPT-45-A1-2'	WU0149-1	NM	01/05/2004	01/21/2004	01/27/2004	16	6	22
TPH	%	MPT-45-A4-2^	WU0149-4	NM	01/05/2004	01/21/2004	02/12/2004	16	22	38
TPH	%	MPT-45-B1-2'	WU0149-5	NM	01/05/2004	01/21/2004	02/12/2004	16	22	38
TPH	%	MPT-45-B3-2'	WU0149-7	NM	01/05/2004	01/21/2004	02/12/2004	16	22	38
TPH	%	MPT-45-D3-2'	WU0149-13	NM	01/05/2004	01/21/2004	02/12/2004	16	22	38
TPH	UG/L	MPT-45-D3-2'	WU0149-13	NM	01/05/2004	01/21/2004	02/12/2004	16	22	38
TPH	UG/L	MPT-45-A4-2^	WU0149-4	NM	01/05/2004	01/21/2004	02/12/2004	16	22	38
TPH	UG/L	MPT-45-B1-2'	WU0149-5	NM	01/05/2004	01/21/2004	02/12/2004	16	22	38
TPH	UG/L	MPT-45-B3-2'	WU0149-7	NM	01/05/2004	01/21/2004	02/12/2004	16	22	38

ORGANICS DATA QUALIFIERS

U	Indicates the compound was analyzed for but not detected above the laboratory Practical Quantitation Limit.
*	Compound recovery outside of quality control limits.
D	Indicates the result was obtained from analysis of a diluted sample. Surrogate recoveries may not be calculable.
E	Estimated value. This flag identifies compounds whose concentrations exceed the upper level of the calibration range of the instrument for that specific analysis.
J	Estimated value. The analyte was detected in the sample at a concentration less than the laboratory Practical Quantitation Limit (PQL), but above the Method Detection Limit (MDL).
B	Indicates the analyte was detected in the laboratory method blank analyzed concurrently with the sample.
N	Presumptive evidence of a compound based on a mass spectral library search.
A	Indicates that a tentatively identified compound is a suspected aldol-condensation product.
P	Used for Pesticide/Aroclor analyte when there is a greater than 25% difference for detected concentrations between the two GC columns.

TETRA TECH NUS, INC. | CHAIN OF CUSTODY | NUMBER 1123 | PAGE 1 OF 2

PROJECT NO: N0123 (CTO 91)	FACILITY: NS Mayport	PROJECT MANAGER Terry Hansen	PHONE NUMBER	LABORATORY NAME AND CONTACT: Katahdin / Andrea Colby
SAMPLERS (SIGNATURE) Charles Metz		FIELD OPERATIONS LEADER Charles Metz	PHONE NUMBER 904-636-6125	ADDRESS 340 County Rd #5
		CARRIER/WAYBILL NUMBER		CITY, STATE Westbrook, ME 04092

STANDARD TAT ☐
RUSH TAT ☑
☐ 24 hr. ☐ 48 hr. ☐ 72 hr. ☐ 7 day ☐ 14 day

CONTAINER TYPE PLASTIC (P) or GLASS (G): G
PRESERVATIVE USED: —
TYPE OF ANALYSIS: All Analysis

DATE (YEAR 2003)	TIME	SAMPLE ID	LOCATION ID	TOP DEPTH (FT)	BOTTOM DEPTH (FT)	MATRIX (GW, SO, SW, SD, QC, ETC.)	COLLECTION METHOD GRAB (G) COMP (C)	No. OF CONTAINERS		COMMENTS
1-5	1400	MPT-45-A1-2'		1	2	SO	C	1	1	
	1352	MPT-45-A2-2'					C	1	1	
	1345	MPT-45-A3-2'					C	1	1	
	1300	MPT-45-A4-2'					C	1	1	
	1426	MPT-45-B1-2'					C	1	1	Cool 4°C
	1418	MPT-45-B2-2'					C	1	1	
	1410	MPT-45-B3-2'					C	1	1	
	1255	MPT-45-B4-2'					C	1	1	
	1503	MPT-45-C1-2'					C	1	1	
	1458	MPT-45-C2-2'					C	1	1	
	1449	MPT-45-C3-2'					C	1	1	
	1240	MPT-45-C4-2'					C	1	1	
↓	1524	MPT-45-D3-2'		↓	↓	↓	C	1	1	

	DATE	TIME		DATE	TIME
1. RELINQUISHED BY Charles Metz	1-8-04	1850	1. RECEIVED BY	1-9-04	0925
2. RELINQUISHED BY	DATE	TIME	2. RECEIVED BY	DATE	TIME
3. RELINQUISHED BY	DATE	TIME	3. RECEIVED BY	DATE	TIME

COMMENTS

DISTRIBUTION: WHITE (ACCOMPANIES SAMPLE) YELLOW (FIELD COPY) PINK (FILE COPY)

4/02R
FORM NO. TtNUS-001

00007

TETRA TECH NUS, INC. | CHAIN OF CUSTODY | NUMBER 11223 | PAGE 2 OF 2

PROJECT NO: N0123 (CTO 091)	FACILITY: NS Mayport	PROJECT MANAGER Telly Hansen	PHONE NUMBER	LABORATORY NAME AND CONTACT: Katahdin / Andrea Colby
SAMPLERS (SIGNATURE) Charles Metz		FIELD OPERATIONS LEADER Charles Metz	PHONE NUMBER 904-636-6125	ADDRESS 340 County Rd #5
		CARRIER/WAYBILL NUMBER 7905-1407-8163 7905-1407-8141		CITY, STATE Westbrook Me 04092

STANDARD TAT ☐
RUSH TAT ☑
☐ 24 hr. ☐ 48 hr. ☐ 72 hr. ☐ 7 day ☐ 14 day

CONTAINER TYPE PLASTIC (P) or GLASS (G): G
PRESERVATIVE USED: —
TYPE OF ANALYSIS: All Analysis

DATE YEAR 2003	TIME	SAMPLE ID	LOCATION ID	TOP DEPTH (FT)	BOTTOM DEPTH (FT)	MATRIX (GW, SO, SW, SD, QC, ETC.)	COLLECTION METHOD GRAP (G) COMP (C)	No. OF CONTAINERS		COMMENTS
1-5	1514	MPT-45-D4-2'		1	2	SO	C	1	1	
1-5	1200	MPT-45-E4-2'		1	2	SO	C	1	1	
1-5	1220	MPT-45-E4-5'		4	5	SO	C	1	1	
										Cool 4°C

2 Coolers

1. RELINQUISHED BY Charles Metz	DATE 1-8-04	TIME 1850	1. RECEIVED BY [signature]	DATE 1-9-04	TIME 0925
2. RELINQUISHED BY	DATE	TIME	2. RECEIVED BY	DATE	TIME
3. RELINQUISHED BY	DATE	TIME	3. RECEIVED BY	DATE	TIME

COMMENTS

DISTRIBUTION: WHITE (ACCOMPANIES SAMPLE) YELLOW (FIELD COPY) PINK (FILE COPY)

4/02R
FORM NO. TtNUS-001

xxxxxx

TETRA TECH NUS, INC. | CHAIN OF CUSTODY | NUMBER 11223 | PAGE 1 OF 2

PROJECT NO: N0123 (CTO 91)	FACILITY: NS Mayport	PROJECT MANAGER Terry Hansen	PHONE NUMBER	LABORATORY NAME AND CONTACT: Katahdin / Andrea Colby
SAMPLERS (SIGNATURE) Charles MeTz		FIELD OPERATIONS LEADER Charles MeTz	PHONE NUMBER 904-636-6125	ADDRESS 340 County Rd #5
		CARRIER/WAYBILL NUMBER		CITY, STATE West Brook, ME 04092

STANDARD TAT ☐
RUSH TAT ☑
☐ 24 hr. ☐ 48 hr. ☐ 72 hr. ☐ 7 day ☐ 14 day

CONTAINER TYPE PLASTIC (P) or GLASS (G): G
PRESERVATIVE USED:
TYPE OF ANALYSIS All Analysis *

DATE YEAR 2003	TIME	SAMPLE ID	LOCATION ID	TOP DEPTH (FT)	BOTTOM DEPTH (FT)	MATRIX (GW, SO, SW, SD, QC, ETC.)	COLLECTION METHOD GRAP (G) COMP (C)	No. OF CONTAINERS		COMMENTS
1-5	1400	MPT-45-A1-2'		1	2	SO	C	1	1	
	1352	MPT-45-A2-2'					C	1	1	
	1345	MPT-45-A3-2'					C	1	1	
	1300	MPT-45-A4-2'					C	1	1	
	1426	MPT-45-B1-2'					C	1	1	Cool 4°C
	1418	MPT-45-B2-2'					C	1	1	
	1410	MPT-45-B3-2'					C	1	1	
	1255	MPT-45-B4-2'					C	1	1	* (TCL Semivolatile, Pesticide, PAH, PCB, TRPH, SPLP, TAL Metals, and Cyanide)
	1503	MPT-45-C1-2'					C	1	1	
	1458	MPT-45-C2-2'					C	1	1	
	1449	MPT-45-C3-2'					C	1	1	
	1240	MPT-45-C4-2'					C	1	1	# WR410(55)
	1524	MPT-45-D3-2'					C	1	1	

1. RELINQUISHED BY Charles MeTz	DATE 1-8-04	TIME 1850	1. RECEIVED BY	DATE	TIME
2. RELINQUISHED BY	DATE	TIME	2. RECEIVED BY	DATE	TIME
3. RELINQUISHED BY	DATE	TIME	3. RECEIVED BY	DATE	TIME
COMMENTS					

DISTRIBUTION: WHITE (ACCOMPANIES SAMPLE) YELLOW (FIELD COPY) PINK (FILE COPY)

4/02R
FORM NO. TtNUS-001

TETRA TECH NUS, INC. | **CHAIN OF CUSTODY** | **NUMBER** 11223 | **PAGE** 2 **OF** 2

PROJECT NO: N0123 (CTO #91)	**FACILITY:** NS Maypoint	**PROJECT MANAGER** Telly Hansen	**PHONE NUMBER**	**LABORATORY NAME AND CONTACT:** Katahdin / Andrea Colby
SAMPLERS (SIGNATURE) Charles Metz		**FIELD OPERATIONS LEADER** Charles Metz	**PHONE NUMBER** 904-636-6125	**ADDRESS** 340 County Rd #5
		CARRIER/WAYBILL NUMBER 7905-1407-8163 7905-1407-8141		**CITY, STATE** Westbrook Me 04092

STANDARD TAT ☐
RUSH TAT ☑ ☐ 24 hr. ☐ 48 hr. ☐ 72 hr. ☐ 7 day ☐ 14 day

DATE YEAR 2003	TIME	SAMPLE ID	LOCATION ID	TOP DEPTH (FT)	BOTTOM DEPTH (FT)	MATRIX (GW, SO, SW, SD, QC, ETC.)	COLLECTION METHOD GRAP (G) COMP (C)	No. OF CONTAINERS	CONTAINER TYPE PLASTIC (P) or GLASS (G)	PRESERVATIVE USED	TYPE OF ANALYSIS All Analysis *	COMMENTS
1-5	1514	MPT-45-D4-2'		1	2	SO	C	1	G	—	1	
1-5	1200	MPT-45-E4-2'		1	2	SO	C	1			1	
1-5	1220	MPT-45-E4-5'		4	5	SO	C	1			1	
												Cool 4°C
												* TCL Semivolatile, Pesticide, PAH, PCB, TRPH, SPLP, TAL Metals, and Cyanide
												# WR410(SS)

2 Coolers

1. RELINQUISHED BY Charles Metz	DATE 1-8-04	TIME 1850	1. RECEIVED BY		DATE	TIME
2. RELINQUISHED BY	DATE	TIME	2. RECEIVED BY		DATE	TIME
3. RELINQUISHED BY	DATE	TIME	3. RECEIVED BY		DATE	TIME
COMMENTS						

DISTRIBUTION: WHITE (ACCOMPANIES SAMPLE) YELLOW (FIELD COPY) PINK (FILE COPY)

4/02R
FORM NO. TtNUS-001

Katahdin
ANALYTICAL SERVICES

Katahdin Analytical Services

Login Chain of Custody Report (lno1)

Jan. 22, 2004
08:57 AM

Login Number: WU0149

Account: TETRAT001
Tetra Tech NUS, Inc.

Project: TETRAT91001
CTO 91 NS Mayport

Primary Report Address:
Amy Thomson
Tetra Tech NUS, Inc.
661 Andersen Drive
Foster Plaza 7
Pittsburgh,PA 15220

Primary Invoice Address:
Accounts Payable
Tetra Tech NUS, Inc.
661 Andersen Drive
Foster Plaza 7
Pittsburgh,PA 15220

Report CC Addresses:
Invoice CC Addresses:

Login Information

ANALYSIS INSTRUCTIONS	:	Samples have already been extracted by SPLP under WU0050.
CLIENT PO#	:	MSA-0402-N4113-05 N0123-WR410(SS)
COOLER TEMPERATURE	:	
DELIVERY SERVICES	:	FEDEX
EDD FORMAT	:	KAS050QC-TXT
MAIL DATE	:	
PM	:	AJC
PROJECT NAME	:	CTO91 NS MAYPORT
QC LEVEL	:	IV
REGULATORY LIST	:	NFESC
REPORT INSTRUCTIONS	:	Rpt to MDL/IDL & J to PQL. Data summary needs all forms. Email EDD to Amy.
SDG ID	:	
SDG STATUS	:	

Laboratory Sample ID	Client Sample Number	Collect Date/Time	Receive Date	PR	Verbal Date	Due Date	Comments
WU0149-1	MPT-45-A1-2'	05-JAN-04 14:00	09-JAN-04			13-FEB-04	WU0050-1
Matrix	*Product*	*Hold Date (shortest)*	*Bottle Type*		*Bottle Count*		
Aqueous	S SPLP-COPPER	03-JUL-04					
Solid	P SPLP-METALS				2		
SPLP-ARSENIC	SW1312-EXT	SW3010-PREP					
Solid	S SPLP-SW8081	12-JAN-04					
WU0149-2	MPT-45-A2-2'	05-JAN-04 13:52	09-JAN-04			13-FEB-04	WU0050-2
Matrix	*Product*	*Hold Date (shortest)*	*Bottle Type*		*Bottle Count*		
Aqueous	S SPLP-COPPER	03-JUL-04					
Solid	P SPLP-METALS				2		
SPLP-ARSENIC	SW1312-EXT	SW3010-PREP					
Solid	S SPLP-SW8081	12-JAN-04					
Solid	S SPLP-SW8270SIM	19-JAN-04					
WU0149-3	MPT-45-A3-2'	05-JAN-04 13:45	09-JAN-04			13-FEB-04	WU0050-3
Matrix	*Product*	*Hold Date (shortest)*	*Bottle Type*		*Bottle Count*		
Aqueous	S SPLP-COPPER	03-JUL-04					
Solid	P SPLP-METALS				2		
SPLP-ARSENIC	SW1312-EXT	SW3010-PREP					
WU0149-4	MPT-45-A4-2'	05-JAN-04 13:00	09-JAN-04			13-FEB-04	WU0050-4
Matrix	*Product*	*Hold Date (shortest)*	*Bottle Type*		*Bottle Count*		
Solid	S SPLP-FLPRO	12-JAN-04			1		
WU0149-5	MPT-45-B1-2'	05-JAN-04 14:26	09-JAN-04			13-FEB-04	WU0050-5
Matrix	*Product*	*Hold Date (shortest)*	*Bottle Type*		*Bottle Count*		
Aqueous	S SPLP-COPPER	03-JUL-04					
Solid	S SPLP-FLPRO	12-JAN-04					
Solid	P SPLP-METALS				2		
SPLP-ARSENIC	SW1312-EXT	SW3010-PREP					
Solid	S SPLP-SW8270SIM	19-JAN-04					

xxxxx9

Login Number: WU0149

Account: TETRAT001
Tetra Tech NUS, Inc.

Project: TETRAT91001
CTO 91 NS Mayport

Laboratory Sample ID	Client Sample Number	Collect Date/Time	Receive Date	PR	Verbal Date	Due Date	Comments
WU0149-6	MPT-45-B2-2'	05-JAN-04 14:18	09-JAN-04			13-FEB-04	WU0050-6

Matrix		Product	Hold Date (shortest)	Bottle Type	Bottle Count
Aqueous	S	SPLP-COPPER	03-JUL-04		
Solid	P	SPLP-METALS			2
SPLP-ARSENIC		SW1312-EXT	SW3010-PREP		
Solid	S	SPLP-SW8270SIM	19-JAN-04		

Laboratory Sample ID	Client Sample Number	Collect Date/Time	Receive Date	PR	Verbal Date	Due Date	Comments
WU0149-7	MPT-45-B3-2'	05-JAN-04 14:10	09-JAN-04			13-FEB-04	WU0050-7

Matrix		Product	Hold Date (shortest)	Bottle Type	Bottle Count
Aqueous	S	SPLP-COPPER	03-JUL-04		
Solid	S	SPLP-FLPRO	12-JAN-04		
Solid	P	SPLP-METALS			2
SPLP-ARSENIC		SW1312-EXT	SW3010-PREP		

Laboratory Sample ID	Client Sample Number	Collect Date/Time	Receive Date	PR	Verbal Date	Due Date	Comments
WU0149-8	MPT-45-B4-2'	05-JAN-04 12:55	09-JAN-04			13-FEB-04	WU0050-8

Matrix		Product	Hold Date (shortest)	Bottle Type	Bottle Count
Aqueous	S	SPLP-COPPER	03-JUL-04		
Solid	P	SPLP-METALS			2
SPLP-ARSENIC		SW1312-EXT	SW3010-PREP		

Laboratory Sample ID	Client Sample Number	Collect Date/Time	Receive Date	PR	Verbal Date	Due Date	Comments
WU0149-9	MPT-45-C1-2'	05-JAN-04 15:03	09-JAN-04			13-FEB-04	WU0050-9

Matrix		Product	Hold Date (shortest)	Bottle Type	Bottle Count
Aqueous	S	SPLP-COPPER	03-JUL-04		
Solid	P	SPLP-METALS			2
SPLP-ARSENIC		SW1312-EXT	SW3010-PREP		
Solid	S	SPLP-SW8270SIM	19-JAN-04		

Laboratory Sample ID	Client Sample Number	Collect Date/Time	Receive Date	PR	Verbal Date	Due Date	Comments
WU0149-10	MPT-45-C2-2'	05-JAN-04 14:58	09-JAN-04			13-FEB-04	WU0050-10

Matrix		Product	Hold Date (shortest)	Bottle Type	Bottle Count
Aqueous	S	SPLP-COPPER	03-JUL-04		
Solid	P	SPLP-METALS			2
SPLP-ARSENIC		SW1312-EXT	SW3010-PREP		
Solid	S	SPLP-SW8270SIM	19-JAN-04		

Laboratory Sample ID	Client Sample Number	Collect Date/Time	Receive Date	PR	Verbal Date	Due Date	Comments
WU0149-11	MPT-45-C3-2'	05-JAN-04 14:49	09-JAN-04			13-FEB-04	WU0050-11

Matrix		Product	Hold Date (shortest)	Bottle Type	Bottle Count
Aqueous	S	SPLP-COPPER	03-JUL-04		
Solid	P	SPLP-METALS			2
SPLP-ARSENIC		SW1312-EXT	SW3010-PREP		
Solid	S	SPLP-SW8270SIM	19-JAN-04		

Laboratory Sample ID	Client Sample Number	Collect Date/Time	Receive Date	PR	Verbal Date	Due Date	Comments
WU0149-12	MPT-45-C4-2'	05-JAN-04 12:40	09-JAN-04			13-FEB-04	WU0050-12

Matrix		Product	Hold Date (shortest)	Bottle Type	Bottle Count
Aqueous	S	SPLP-COPPER	03-JUL-04		
Solid	P	SPLP-METALS			2
SPLP-ARSENIC		SW1312-EXT	SW3010-PREP		
Solid	S	SPLP-SW8270SIM	19-JAN-04		

Laboratory Sample ID	Client Sample Number	Collect Date/Time	Receive Date	PR	Verbal Date	Due Date	Comments
WU0149-13	MPT-45-D3-2'	05-JAN-04 15:24	09-JAN-04			13-FEB-04	WU0050-13

Matrix		Product	Hold Date (shortest)	Bottle Type	Bottle Count
Aqueous	S	SPLP-COPPER	03-JUL-04		
Solid	S	SPLP-FLPRO	12-JAN-04		
Solid	P	SPLP-METALS			2
SPLP-ARSENIC		SW1312-EXT	SW3010-PREP		
Solid	S	SPLP-SW8270SIM	19-JAN-04		

Katahdin
ANALYTICAL SERVICES

Katahdin Analytical Services

Login Chain of Custody Report (lno1)

Jan. 22, 2004
08:57 AM

Login Number: WU0149

Account: TETRAT001
Tetra Tech NUS, Inc.

Project: TETRAT91001
CTO 91 NS Mayport

Laboratory Sample ID	Client Sample Number	Collect Date/Time	Receive Date	PR	Verbal Date	Due Date	Comments
WU0149-14	MPT-45-E4-2'	05-JAN-04 12:00	09-JAN-04			13-FEB-04	WU0050-15

Matrix		Product	Hold Date (shortest)	Bottle Type	Bottle Count
Aqueous	S	SPLP-COPPER	03-JUL-04		
Solid	P	SPLP-METALS			2

SPLP-ARSENIC SW1312-EXT SW3010-PREP

Laboratory Sample ID	Client Sample Number	Collect Date/Time	Receive Date	PR	Verbal Date	Due Date	Comments
WU0149-15	MPT-45-E4-5'	05-JAN-04 12:20	09-JAN-04			13-FEB-04	WU0050-16

Matrix		Product	Hold Date (shortest)	Bottle Type	Bottle Count
Aqueous	S	SPLP-COPPER	03-JUL-04		
Solid	P	SPLP-METALS			2

SPLP-ARSENIC SW1312-EXT SW3010-PREP

Total Samples: *15* ***Total Analyses:*** *42*

MM0011

FORM 4
SEMIVOLATILE METHOD BLANK SUMMARY

CLIENT SAMPLE ID

WG5555-BLANK

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO91 NS MAYPORT SDG No.: WU0149

Lab File ID: X4395 Lab Sample ID: WG5555-1

Instrument ID: GCMS-X Date Extracted: 01/21/04

Matrix: (soil/water) WATER Date Analyzed: 02/19/04

Level: (low/med) LOW Time Analyzed: 1059

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	WG5555-LCS	WG5555-2	X4396	02/19/04	1144
02	WG5555-LCSD	WG5555-3	X4397	02/19/04	1228
03	PBP609A-BLANK	PBP609A-V	X4398	02/19/04	1312
04	PBP610A-BLANK	PBP610A-V	X4399	02/19/04	1357
05	MPT-45-A2-2'	WU0149-2	X4400	02/19/04	1442
06	MPT-45-B1-2'	WU0149-5	X4401	02/19/04	1527
07	MPT-45-B2-2'	WU0149-6	X4402	02/19/04	1611
08	MPT-45-C1-2'	WU0149-9	X4403	02/19/04	1656
09	MPT-45-C2-2'	WU0149-10	X4404	02/19/04	1740
10	MPT-45-C3-2'	WU0149-11	X4405	02/19/04	1824
11	MPT-45-C4-2'	WU0149-12	X4406	02/19/04	1908
12	MPT-45-D3-2'	WU0149-13	X4407	02/19/04	1953
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					

COMMENTS:

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client:
Project: CTO91 NS MAYPORT
PO No:
Sample Date:
Received Date:
Extraction Date: 01/21/04
Analysis Date: 02/19/04
Report Date: 02/20/2004
Matrix: WATER
% Solids: NA

Lab ID: WG5555-1
Client ID: WG5555-Blank
SDG: WU0149
Extracted by: AZ
Extraction Method: SW846 3510
Analyst: JCG
Analysis Method: SW846 M8270C
Lab Prep Batch: WG5555
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
91-20-3	Naphthalene	U	1.0	1.0	1.0	1.0	0.050
91-57-6	2-Methylnaphthalene	U	1.0	1.0	1.0	1.0	0.080
208-96-8	Acenaphthylene	U	1.0	1.0	1.0	1.0	0.050
83-32-9	Acenaphthene	U	1.0	1.0	1.0	1.0	0.080
86-73-7	Fluorene	U	1.0	1.0	1.0	1.0	0.060
85-01-8	Phenanthrene	U	1.0	1.0	1.0	1.0	0.080
120-12-7	Anthracene	U	1.0	1.0	1.0	1.0	0.080
206-44-0	Fluoranthene	U	1.0	1.0	1.0	1.0	0.11
129-00-0	Pyrene	U	1.0	1.0	1.0	1.0	0.090
56-55-3	Benzo(a)anthracene	U	1.0	1.0	1.0	1.0	0.12
218-01-9	Chrysene	U	1.0	1.0	1.0	1.0	0.070
205-99-2	Benzo(b)fluoranthene	U	1.0	1.0	1.0	1.0	0.090
207-08-9	Benzo(k)fluoranthene	U	1.0	1.0	1.0	1.0	0.080
50-32-8	Benzo(a)pyrene	U	1.0	1.0	1.0	1.0	0.090
193-39-5	Indeno(1,2,3-cd)pyrene	U	1.0	1.0	1.0	1.0	0.10
53-70-3	Dibenzo(a,h)anthracene	U	1.0	1.0	1.0	1.0	0.15
191-24-2	Benzo(g,h,i)perylene	U	1.0	1.0	1.0	1.0	0.080
7297-45-2	2-Methylnaphthalene-d10		80%				
81103-79-9	Fluorene-d10		84%				
1718-52-1	Pyrene-d10		85%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client:
Project: CT091 NS MAYPORT
PO No:
Sample Date:
Received Date:
Extraction Date: 01/21/04
Analysis Date: 02/19/04
Report Date: 02/20/2004
Matrix: WATER
% Solids: NA

Lab ID: PBP609A-V
Client ID: PBP609A-Blank
SDG: WU0149
Extracted by: AZ
Extraction Method: SW846 3510
Analyst: JCG
Analysis Method: SW846 M8270C
Lab Prep Batch: WG5555
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
91-20-3	Naphthalene	U	1.0	1.0	1.0	1.0	0.25
91-57-6	2-Methylnaphthalene	U	1.0	1.0	1.0	1.0	0.40
208-96-8	Acenaphthylene	U	1.0	1.0	1.0	1.0	0.25
83-32-9	Acenaphthene	U	1.0	1.0	1.0	1.0	0.40
86-73-7	Fluorene	U	1.0	1.0	1.0	1.0	0.30
85-01-8	Phenanthrene	U	1.0	1.0	1.0	1.0	0.40
120-12-7	Anthracene	U	1.0	1.0	1.0	1.0	0.40
206-44-0	Fluoranthene	U	1.0	1.0	1.0	1.0	0.55
129-00-0	Pyrene	U	1.0	1.0	1.0	1.0	0.45
56-55-3	Benzo(a)anthracene	U	1.0	1.0	1.0	1.0	0.60
218-01-9	Chrysene	U	1.0	1.0	1.0	1.0	0.35
205-99-2	Benzo(b)fluoranthene	U	1.0	1.0	1.0	1.0	0.45
207-08-9	Benzo(k)fluoranthene	U	1.0	1.0	1.0	1.0	0.40
50-32-8	Benzo(a)pyrene	U	1.0	1.0	1.0	1.0	0.45
193-39-5	Indeno(1,2,3-cd)pyrene	U	1.0	1.0	1.0	1.0	0.50
53-70-3	Dibenzo(a,h)anthracene	U	1.0	1.0	1.0	1.0	0.75
191-24-2	Benzo(g,h,i)perylene	U	1.0	1.0	1.0	1.0	0.40
7297-45-2	2-Methylnaphthalene-d10		68%				
81103-79-9	Fluorene-d10		73%				
1718-52-1	Pyrene-d10		91%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client:
Project: CTO91 NS MAYPORT
PO No:
Sample Date:
Received Date:
Extraction Date: 01/21/04
Analysis Date: 02/19/04
Report Date: 02/20/2004
Matrix: WATER
% Solids: NA

Lab ID: PBP610A-V
Client ID: PBP610A-Blank
SDG: WU0149
Extracted by: AZ
Extraction Method: SW846 3510
Analyst: JCG
Analysis Method: SW846 M8270C
Lab Prep Batch: WG5555
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
91-20-3	Naphthalene	U	1.0	1.0	1.0	1.0	0.25
91-57-6	2-Methylnaphthalene	U	1.0	1.0	1.0	1.0	0.40
208-96-8	Acenaphthylene	U	1.0	1.0	1.0	1.0	0.25
83-32-9	Acenaphthene	U	1.0	1.0	1.0	1.0	0.40
86-73-7	Fluorene	U	1.0	1.0	1.0	1.0	0.30
85-01-8	Phenanthrene	U	1.0	1.0	1.0	1.0	0.40
120-12-7	Anthracene	U	1.0	1.0	1.0	1.0	0.40
206-44-0	Fluoranthene	U	1.0	1.0	1.0	1.0	0.55
129-00-0	Pyrene	U	1.0	1.0	1.0	1.0	0.45
56-55-3	Benzo(a)anthracene	U	1.0	1.0	1.0	1.0	0.60
218-01-9	Chrysene	U	1.0	1.0	1.0	1.0	0.35
205-99-2	Benzo(b)fluoranthene	U	1.0	1.0	1.0	1.0	0.45
207-08-9	Benzo(k)fluoranthene	U	1.0	1.0	1.0	1.0	0.40
50-32-8	Benzo(a)pyrene	U	1.0	1.0	1.0	1.0	0.45
193-39-5	Indeno(1,2,3-cd)pyrene	U	1.0	1.0	1.0	1.0	0.50
53-70-3	Dibenzo(a,h)anthracene	U	1.0	1.0	1.0	1.0	0.75
191-24-2	Benzo(g,h,i)perylene	U	1.0	1.0	1.0	1.0	0.40
7297-45-2	2-Methylnaphthalene-d10		66%				
81103-79-9	Fluorene-d10		68%				
1718-52-1	Pyrene-d10		79%				

FORM 5
SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO91 NS MAYPORT SDG No.: WU0149

Lab File ID: XD183 DFTPP Injection Date: 02/17/04

Instrument ID: GCMS-X DFTPP Injection Time: 1129

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	53.6
68	Less than 2.0% of mass 69	0.0 (0.0)1
69	Less than 100.0% of mass 198	64.6
70	Less than 2.0% of mass 69	0.2 (0.3)1
127	40.0 - 60.0% of mass 198	51.2
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	5.9
275	10.0 - 30.0% of mass 198	18.9
365	1.0 - 100.0% of mass 198	2.2
441	0.0 - 100.0% of mass 443	7.3 (85.2)2
442	40.0 - 100.0% of mass 198	42.5
443	17.0 - 23.0% of mass 442	8.6 (20.3)3

1-Value is % mass 69 2-Value is % mass 443
3-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01		SSTD1.00X0217	X4354	02/17/04	1206
02		SSTD3.00X0217	X4355	02/17/04	1251
03		SSTD2.00X0217	X4356	02/17/04	1335
04		SSTD0.50X0217	X4357	02/17/04	1420
05		SSTD0.20X0217	X4358	02/17/04	1505
06		SSTD0.05X0217	X4359	02/17/04	1548
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					

FORM V SV

FORM 6
SEMIVOLATILE INITIAL CALIBRATION DATA

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project CTO91 NS MAYPORT SDG No.: WU0149

Instrument ID: GCMS-X Calibration Date(s): 02/17/04 02/17/04

Column: DB5-MS ID: 0.25 (mm) Calibration Time(s): 1206 1548

LAB FILE ID: RF0.05: X4359 RF0.2: X4358 RF0.5: X4357
RF1: X4354 RF2: X4356 RF3: X4355

COMPOUND	RF0.05	RF0.2	RF0.5	RF1	RF2	RF3	CURVE	COEFFICENTS A0	COEFFICENTS A1	COEFFICENTS A2	%RSD OR R^2	MAX %RSD OR R^2
Naphthalene	0.793	0.813	0.838	0.823	0.714	0.740	AVRG		0.78698472		6.277	15.000
2-Methylnaphthalene	0.378	0.427	0.478	0.488	0.451	0.473	AVRG		0.44922114		9.143	15.000
Acenaphthylene	1.069	1.088	1.229	1.296	1.202	1.315	AVRG		1.19991576		8.576	15.000
Acenaphthene	0.970	0.980	0.979	0.987	0.868	0.911	AVRG		0.94918310		5.133	30.000
Fluorene	0.727	0.895	0.988	1.015	0.912	0.998	AVRG		0.92250825		11.623	15.000
Phenanthrene	0.830	0.838	0.866	1.091	1.022	1.056	AVRG		0.95060018		12.465	15.000
Anthracene	0.812	0.761	0.696	0.955	0.949	1.015	AVRG		0.86459984		14.627	15.000
Fluoranthene	3329	10418	24296	48698	107890	186540	LINR	0.12563720	1.18025038		0.99403	0.99000
Pyrene	1.617	1.584	1.612	1.419	1.456	1.415	AVRG		1.51736104		6.409	15.000
Benzo(a)anthracene	0.675	0.583	0.594	0.682	0.598	0.702	AVRG		0.63894950		8.276	15.000
Chrysene	1.286	1.133	1.218	1.132	1.105	1.158	AVRG		1.17213324		5.778	15.000
Benzo(b)fluoranthene	0.926	0.915	0.991	0.920	0.896	1.007	AVRG		0.94249941		4.814	15.000
Benzo(k)fluoranthene	1.416	1.450	1.632	1.851	1.765	1.954	AVRG		1.67792797		12.972	15.000
Benzo(a)pyrene	0.860	1.046	0.970	1.151	1.081	1.219	AVRG		1.05445462		12.127	30.000
Indeno(1,2,3-cd)pyrene	999	3396	8823	24342	45779	92193	2ORDR	-7.85e-003	1.25458452	-8.02e-002	0.99866	0.99000
Dibenzo(a,h)anthracene	0.622	0.471	0.579	0.589	0.580	0.717	AVRG		0.59326777		13.338	15.000
Benzo(g,h,i)perylene	0.998	0.972	0.909	0.977	1.019	1.098	AVRG		0.99545289		6.266	15.000
Hexachlorobenzene	0.257	0.340	0.315	0.343	0.265	0.292	AVRG		0.30189207		12.259	15.000
Bis(2-ethylhexyl)phthalat	1502	5372	6389	11921	24674	37792	LINR	-0.2275805	4.13806296		0.99051	0.99000
Pentachlorophenol	0.055	0.040	0.032	0.063	0.048	0.048	AVRG		4.778e-002		23.119	15.000
1-Methylnaphthalene	0.411	0.473	0.467	0.459	0.437	0.457	AVRG		0.45061347		5.070	15.000
Carbazole	1648	7730	21619	46369	105860	190700	LINR	0.18309990	1.14567971		0.99039	0.99000
2-Methylnaphthalene-d10	0.350	0.329	0.333	0.324	0.310	0.313	AVRG		0.32654819		4.520	15.000
Fluorene-d10	0.910	1.008	0.914	0.911	0.903	0.962	AVRG		0.93475030		4.458	15.000
Pyrene-d10	1.094	1.130	1.149	0.945	1.040	1.067	AVRG		1.07083535		6.844	15.000

Average %RSD test result.

Calculate Average %RSD: 12.53859520
Maximum Average %RSD: 30.00000000

Note: Passes Average %RSD Test.

FORM VI SV

FORM 5
SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO91 NS MAYPORT SDG No.: WU0149

Lab File ID: XD186 DFTPP Injection Date: 02/19/04

Instrument ID: GCMS-X DFTPP Injection Time: 0904

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	49.1
68	Less than 2.0% of mass 69	0.0 (0.0)1
69	Less than 100.0% of mass 198	50.3
70	Less than 2.0% of mass 69	0.3 (0.5)1
127	40.0 - 60.0% of mass 198	41.0
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.7
275	10.0 - 30.0% of mass 198	21.6
365	1.0 - 100.0% of mass 198	2.4
441	0.0 - 100.0% of mass 443	8.5 (91.6)2
442	40.0 - 100.0% of mass 198	47.3
443	17.0 - 23.0% of mass 442	9.3 (19.7)3

1-Value is % mass 69 2-Value is % mass 443
3-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01		SSTD1.00X0219	X4393	02/19/04	0927
02	WG5555-BLANK	WG5555-1	X4395	02/19/04	1059
03	WG5555-LCS	WG5555-2	X4396	02/19/04	1144
04	WG5555-LCSD	WG5555-3	X4397	02/19/04	1228
05	PBP609A-BLANK	PBP609A-V	X4398	02/19/04	1312
06	PBP610A-BLANK	PBP610A-V	X4399	02/19/04	1357
07	MPT-45-A2-2'	WU0149-2	X4400	02/19/04	1442
08	MPT-45-B1-2'	WU0149-5	X4401	02/19/04	1527
09	MPT-45-B2-2'	WU0149-6	X4402	02/19/04	1611
10	MPT-45-C1-2'	WU0149-9	X4403	02/19/04	1656
11	MPT-45-C2-2'	WU0149-10	X4404	02/19/04	1740
12	MPT-45-C3-2'	WU0149-11	X4405	02/19/04	1824
13	MPT-45-C4-2'	WU0149-12	X4406	02/19/04	1908
14	MPT-45-D3-2'	WU0149-13	X4407	02/19/04	1953
15					
16					
17					
18					
19					
20					

FORM V SV

FORM 7B
SEMIVOLATILE CALIBRATION VERIFICATION SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO91 NS MAYPORT SDG No.: WU0149

Instrument ID: GCMS-X Calibration Date: 02/19/04 Time: 0927

Lab File ID: X4393 Init. Calib. Date(s): 02/17/04 02/17/04

Init. Calib. Times: 1206 1548

GC Column: DB5-MS ID: 0.25 (mm)

COMPOUND	RRF or AMOUNT	RRF1.0000 or AMOUNT	CCAL RRF1.0000	MIN RRF	%D or %DRIFT	MAX %D or %DRIFT	CURV TYPE
Naphthalene	0.7870000	0.7546000	0.7546000	0.01	-4.12	100.00	AVRG
2-Methylnaphthalene	0.4490000	0.4634200	0.4634200	0.01	3.21	100.00	AVRG
Acenaphthylene	1.2000000	1.1860000	1.1860000	0.01	-1.17	100.00	AVRG
Acenaphthene	0.9490000	0.8379500	0.8379500	0.01	-11.70	20.00	AVRG
Fluorene	0.9220000	0.8520800	0.8520800	0.01	-7.58	100.00	AVRG
Phenanthrene	0.9500000	0.7729800	0.7729800	0.01	-18.63	100.00	AVRG
Anthracene	0.8650000	0.7412900	0.7412900	0.01	-14.30	100.00	AVRG
Fluoranthene	0.8141200	1.0000000	0.6046200	0.01	-18.59	20.00	LINR
Pyrene	1.5170000	1.2503000	1.2503000	0.01	-17.58	100.00	AVRG
Benzo(a)anthracene	0.6390000	0.7587300	0.7587300	0.01	18.74	100.00	AVRG
Chrysene	1.1720000	0.9340600	0.9340600	0.01	-20.30	100.00	AVRG
Benzo(b)fluoranthene	0.9420000	1.0726000	1.0726000	0.01	13.86	100.00	AVRG
Benzo(k)fluoranthene	1.6780000	1.6302000	1.6302000	0.01	-2.85	100.00	AVRG
Benzo(a)pyrene	1.0540000	1.0633000	1.0633000	0.01	0.88	20.00	AVRG
Indeno(1,2,3-cd)pyrene	0.7828000	1.0000000	0.6642200	0.01	-21.72	100.00	2RDR
Dibenzo(a,h)anthracene	0.5930000	0.4966300	0.4966300	0.01	-16.25	100.00	AVRG
Benzo(g,h,i)perylene	0.9960000	0.5592900	0.5592900	0.01	-43.85	100.00	AVRG
2-Methylnaphthalene-d10	0.3260000	0.3576200	0.3576200	0.01	9.70	100.00	AVRG
Fluorene-d10	0.9350000	0.9571600	0.9571600	0.01	2.37	100.00	AVRG
Pyrene-d10	1.0710000	1.0163000	1.0163000	0.01	-5.11	100.00	AVRG

FORM VII PEST

FORM 2
WATER SEMIVOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO91 NS MAYPORT SDG No.: WU0149

	CLIENT SAMPLE ID	LAB SAMPLE ID	S1 #	S2 #	S3 #	S4 #	S5 #	S6 #	S7 #	S8 #	TOT OUT
01	WG5555-BLANK	WG5555-1	80	84	85						0
02	WG5555-LCS	WG5555-2	71	71	81						0
03	WG5555-LCSD	WG5555-3	72	71	90						0
04	PBP609A-BLANK	PBP609A-V	68	73	91						0
05	PBP610A-BLANK	PBP610A-V	66	68	79						0
06	MPT-45-A2-2'	WU0149-2	84	88	94						0
07	MPT-45-B1-2'	WU0149-5	88	95	108						0
08	MPT-45-B2-2'	WU0149-6	86	92	106						0
09	MPT-45-C1-2'	WU0149-9	82	86	91						0
10	MPT-45-C2-2'	WU0149-10	79	81	102						0
11	MPT-45-C3-2'	WU0149-11	86	85	97						0
12	MPT-45-C4-2'	WU0149-12	77	81	107						0
13	MPT-45-D3-2'	WU0149-13	74	75	80						0
14											
15											
16											
17											
18											
19											
20											
21											
22											
23											
24											
25											
26											
27											
28											

		QC LIMITS
S1	= 2-Methylnaphthalene-d1	(30-150)
S2	= Fluorene-d10	(30-150)
S3	= Pyrene-d10	(30-150)

Column to be used to flag recovery values
* Values outside of contract required QC limits
D Surrogate diluted out

KATAHDIN ANALYTICAL SERVICES
LAB CONTROL SAMPLE

Client:
Project: CTO91 NS MAYPORT
PO No:
Sample Date:
Received Date:
Extraction Date: 01/21/04
Analysis Date: 02/19/04
Report Date: 02/20/2004
Matrix: WATER

Lab ID: WG5555-2 & WG5555-3
Client ID: WG5555-LCS & WG5555-LCSD
SDG: WU0149
Extracted by: AZ
Extraction Method: SW846 3510
Analyst: JCG
Analysis Method: SW846 M8270C
Lab Prep Batch: WG5555
Units: ug/L

COMPOUND	LCS SPIKE	LCSD SPIKE	SAMPLE CONC.	LCS CONC.	LCSD CONC.	LCS %REC.	LCSD %REC.	%RPD	%RPD LIMIT	QC. LIMITS
Naphthalene	2.0	2.0	NA	1.2	1.2	58	60	3	30	30-150
2-Methylnaphthalene	2.0	2.0	NA	1.3	1.3	64	66	4	30	30-150
Acenaphthylene	2.0	2.0	NA	1.4	1.4	70	70	0.0	30	30-150
Acenaphthene	2.0	2.0	NA	1.2	1.2	58	58	0.0	30	30-150
Fluorene	2.0	2.0	NA	1.3	1.3	66	65	0.8	30	30-150
Phenanthrene	2.0	2.0	NA	1.2	1.3	61	65	6	30	30-150
Anthracene	2.0	2.0	NA	1.4	1.5	70	75	6	30	30-150
Fluoranthene	2.0	2.0	NA	1.5	1.5	76	77	2	30	30-150
Pyrene	2.0	2.0	NA	1.3	1.4	64	71	10	30	30-150
Benzo(a)anthracene	2.0	2.0	NA	2.3	2.3	113	116	3	30	30-150
Chrysene	2.0	2.0	NA	1.4	1.5	71	75	5	30	30-150
Benzo(b)fluoranthene	2.0	2.0	NA	2.1	2.2	104	112	7	30	30-150
Benzo(k)fluoranthene	2.0	2.0	NA	1.7	1.8	84	92	9	30	30-150
Benzo(a)pyrene	2.0	2.0	NA	1.8	2.0	92	100	8	30	30-150
Indeno(1,2,3-cd)pyrene	2.0	2.0	NA	1.5	1.6	76	80	5	30	30-150
Dibenzo(a,h)anthracene	2.0	2.0	NA	1.7	1.9	86	95	10	30	30-150
Benzo(g,h,i)perylene	2.0	2.0	NA	1.0	1.3	52	64	20	30	30-150

FORM 4
PESTICIDE METHOD BLANK SUMMARY

CLIENT SAMPLE ID

WG5554-BLANK

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO91 NS MAYPORT SDG No.: WU0149

Lab Sample ID: WG5554-1 Lab File ID: 8UA3132

Matrix (soil/water) WATER Extraction:(SepF/Cont/Sonc) SW846 3510

Sulfur Cleanup: (Y/N) N Date Extracted: 01/21/04

Date Analyzed (1): 01/26/04 Date Analyzed (2): 01/26/04

Time Analyzed (1): 2147 Time Analyzed (2): 2147

Instrument ID (1): GC08 Instrument ID (2): GC08

GC Column (1): RTX-CLPI ID: 0.53(mm) GC Column (2): RTX-CLPII ID: 0.53(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED 1	DATE ANALYZED 2
01	WG5554-LCS	WG5554-2	8UA3133	01/26/04	01/26/04
02	WG5554-LCSD	WG5554-3	8UA3134	01/26/04	01/26/04
03	MPT-45-A1-2'	WU0149-1	8UA3139	01/27/04	01/27/04
04	MPT-45-A2-2'	WU0149-2	8UA3140	01/27/04	01/27/04
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					

COMMENTS: _____

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client:
Project: CTO91 NS MAYPORT
PO No:
Sample Date:
Received Date:
Extraction Date: 01/21/04
Analysis Date: 01/26/04
Report Date: 02/20/2004
Matrix: WATER
% Solids: NA

Lab ID: WG5554-1
Client ID: WG5554-Blank
SDG: WU0149
Extracted by: AZ
Extraction Method: SW846 3510
Analyst: LRS
Analysis Method: SW846 8081A
Lab Prep Batch: WG5554
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
319-84-6	alpha-BHC	U	0.25	1.0	0.25	0.25	0.019
58-89-9	gamma BHC	U	0.25	1.0	0.25	0.25	0.017
76-44-8	Heptachlor	U	0.25	1.0	0.25	0.25	0.021
319-85-7	beta-BHC	U	0.25	1.0	0.25	0.25	0.014
309-00-2	Aldrin	U	0.25	1.0	0.25	0.25	0.021
319-86-8	delta-BHC	U	0.25	1.0	0.25	0.25	0.015
1024-57-3	Heptachlor Epoxide	U	0.25	1.0	0.25	0.25	0.018
959-98-8	Endosulfan I	U	0.25	1.0	0.25	0.25	0.014
72-55-9	4,4'-DDE	U	0.50	1.0	0.50	0.50	0.012
60-57-1	Dieldrin	U	0.50	1.0	0.50	0.50	0.013
72-20-8	Endrin	U	0.50	1.0	0.50	0.50	0.012
72-54-8	4,4'-DDD	U	0.50	1.0	0.50	0.50	0.010
33213-65-9	Endosulfan II	U	0.50	1.0	0.50	0.50	0.0093
50-29-3	4,4'-DDT	U	0.50	1.0	0.50	0.50	0.016
7421-36-3	Endrin Aldehyde	U	0.50	1.0	0.50	0.50	0.010
1031-07-8	Endosulfan sulfate	U	0.50	1.0	0.50	0.50	0.025
72-43-5	Methoxychlor	U	2.5	1.0	2.5	2.5	0.024
8001-35-2	Toxaphene	U	5.0	1.0	5.0	5.0	0.37
5103-71-9	alpha-Chlordane	U	0.25	1.0	0.25	0.25	0.016
5103-74-2	gamma-Chlordane	U	0.25	1.0	0.25	0.25	0.017
53494-70-5	Endrin Ketone	U	0.50	1.0	0.50	0.50	0.017
877-09-8	Tetrachloro-m-Xylene		74%				
2051-24-3	Decachlorobiphenyl		82%				

FORM 8
SEMIVOLATILE ANALYTICAL SEQUENCE

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO91 NS MAYPORT SDG No.: WU0149

GC Column: RTX-CLPI ID: 0.53 (mm) Init. Calib. Date(s): 01/26/04 01/26/04

Instrument ID: GC08

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION
DCB: 14.95 TCX: 3.16

	CLIENT SAMPLE ID	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	DCB RT #	TCX RT #
01	EVAL	EVAL	01/26/04	1244		
02	ICAL	INDAB 0.05PP	01/26/04	1311	14.95	3.16
03	ICAL	INDAB 0.005P	01/26/04	1338	14.95	3.16
04	ICAL	INDAB 0.01PP	01/26/04	1405	14.95	3.15
05	ICAL	INDAB 0.025P	01/26/04	1432	14.95	3.16
06	ICAL	INDAB 0.1PPM	01/26/04	1459	14.95	3.15
07	ICAL	INDAB 0.25PP	01/26/04	1527	14.95	3.16
08	IND SOURCE	IND 0.05PPM	01/26/04	1554		
09	ICAL	TOX 1.0PPM	01/26/04	1621		
10	ICAL	TC 0.5PPM	01/26/04	1904		
11	WG5554-BLANK	WG5554-1	01/26/04	2147	14.95	3.16
12	WG5554-LCS	WG5554-2	01/26/04	2214	14.95	3.16
13	WG5554-LCSD	WG5554-3	01/26/04	2241	14.95	3.15
14	MPT-45-A1-2'	WU0149-1	01/27/04	0057	14.95	3.15
15	MPT-45-A2-2'	WU0149-2	01/27/04	0125	14.95	3.16
16	CV	INDAB 0.05PP	01/27/04	0650	14.95	3.15
17						
18						
19						
20						

QC LIMITS

DCB = Decachlorobiphenyl (+/- 0.07 MINUTES)
TCX = Tetrachloro-m-Xylene (+/- 0.07 MINUTES)

Column used to flag retention time values with an asterisk.
* Values outside of QC limits.

FORM 8
SEMIVOLATILE ANALYTICAL SEQUENCE

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO91 NS MAYPORT SDG No.: WU0149

GC Column: RTX-CLPII ID: 0.53 (mm) Init. Calib. Date(s): 01/26/04 01/26/04

Instrument ID: GC08

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

	MEAN SURROGATE RT FROM INITIAL CALIBRATION DCB: 18.48 TCX: 3.71					
	CLIENT SAMPLE ID	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	DCB RT #	TCX RT #
01	EVAL	EVAL	01/26/04	1244		
02	ICAL	INDAB 0.05PP	01/26/04	1311	18.48	3.71
03	ICAL	INDAB 0.005P	01/26/04	1338	18.48	3.71
04	ICAL	INDAB 0.01PP	01/26/04	1405	18.48	3.71
05	ICAL	INDAB 0.025P	01/26/04	1432	18.48	3.71
06	ICAL	INDAB 0.1PPM	01/26/04	1459	18.48	3.71
07	ICAL	INDAB 0.25PP	01/26/04	1527	18.48	3.71
08	IND SOURCE	IND 0.05PPM	01/26/04	1554		
09	ICAL	TOX 1.0PPM	01/26/04	1621		
10	ICAL	TC 0.5PPM	01/26/04	1904		
11	WG5554-BLANK	WG5554-1	01/26/04	2147	18.48	3.71
12	WG5554-LCS	WG5554-2	01/26/04	2214	18.48	3.71
13	WG5554-LCSD	WG5554-3	01/26/04	2241	18.48	3.71
14	MPT-45-A1-2'	WU0149-1	01/27/04	0057	18.48	3.69
15	MPT-45-A2-2'	WU0149-2	01/27/04	0125	18.48	3.71
16	CV	INDAB 0.05PP	01/27/04	0650	18.48	3.69
17						
18						
19						
20						

QC LIMITS

DCB = Decachlorobiphenyl (+/- 0.07 MINUTES)
TCX = Tetrachloro-m-Xylene (+/- 0.07 MINUTES)

Column used to flag retention time values with an asterisk.
* Values outside of QC limits.

FORM 6
SEMIVOLATILE INITIAL CALIBRATION DATA

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project CTO91 NS MAYPORT SDG No.: WU0149

Instrument ID: GC08 Calibration Date(s): 01/26/04 01/26/04

Column: RTX-CLPI ID: 0.53 (mm) Calibration Time(s): 1311 2120

LAB FILE ID: RF0.005: 8UA3127 RF0.01: 8UA3128 RF0.025: 8UA3129
RF0.05: 8UA3126 RF0.1: 8UA3130 RF0.25: 8UA3131

								COEFFICENTS			%RSD	MAX %RSD	
COMPOUND	RF0.005	RF0.01	RF0.025	RF0.05	RF0.1	RF0.25	CURVE	A0	A1	A2	OR R^2	OR R^2	
alpha-BHC	25017	54530	152920	265610	552670	981990	2ORDR	3.297e-003	1.085e-007	1.437e-013	0.99732	0.99000	
gamma BHC	24688	52754	145950	247890	521680	979050	2ORDR	2.348e-003	1.353e-007	1.191e-013	0.99829	0.99000	
Heptachlor	29037	56745	136490	241410	494200	979700	2ORDR	1.005e-003	1.604e-007	9.506e-014	0.99923	0.99000	
beta-BHC	14437	30268	73195	121710	257020	571720	2ORDR	-2.72e-004	3.635e-007	1.293e-013	0.99948	0.99000	
Aldrin	23546	46643	130660	232950	474770	965590	2ORDR	1.336e-003	1.716e-007	8.849e-014	0.99948	0.99000	
delta-BHC	20306	47299	125650	233160	512310	979350	2ORDR	3.059e-003	1.458e-007	1.074e-013	0.99789	0.99000	
Heptachlor Epoxide	25677	49513	126000	224280	442120	940480	2ORDR	1.023e-004	1.958e-007	7.412e-014	0.99985	0.99000	
Endosulfan I	26262	50973	127880	231060	446970	945850	2ORDR	5.02e-005	1.911e-007	7.727e-014	0.99991	0.99000	
4,4'-DDE	21722	43843	115880	220650	435610	945450	2ORDR	7.015e-004	2.023e-007	6.473e-014	0.99991	0.99000	
Dieldrin	24330	48627	121820	229380	447070	964270	2ORDR	3.141e-004	1.958e-007	6.537e-014	0.99994	0.99000	
Endrin	20614	40713	105910	189430	374470	791860	2ORDR	3.629e-004	2.29e-007	1.086e-013	0.99983	0.99000	
4,4'-DDD	14447	30091	80594	152690	303330	698580	2ORDR	3.392e-004	3.088e-007	6.943e-014	0.99996	0.99000	
Endosulfan II	20585	40559	96903	181740	348740	756960	2ORDR	-1.59e-004	2.526e-007	1.028e-013	0.99998	0.99000	
4,4'-DDT	14456	30674	76348	138340	302240	699580	2ORDR	6.57e-004	3.211e-007	4.997e-014	0.99954	0.99000	
Endrin Aldehyde	14782	29589	69386	131790	250030	550000	2ORDR	-3.42e-004	3.564e-007	1.795e-013	0.99999	0.99000	
Endosulfan sulfate	7645	15714	35804	64358	127310	279780	2ORDR	-5.02e-004	7.129e-007	6.512e-013	0.99987	0.99000	
Methoxychlor	12976	25529	62306	119830	236680	532960	2ORDR	1.026e-004	3.901e-007	1.476e-013	0.99997	0.99000	
Toxaphene	3507	7527	14587	28504	69261	259890	2ORDR	-1.54e-002	3.543e-005	1.196e-011	1.00000	0.99000	
(2)	7581	16598	31627	61673	140590	469820	2ORDR	-2.13e-002	1.632e-005	1.067e-011	0.99998	0.99000	
(3)	7463	16519	32092	63355	145800	492060	2ORDR	-1.51e-002	1.581e-005	9.231e-012	0.99999	0.99000	
(4)	9544	21313	42154	82733	188930	626350	2ORDR	-1.37e-002	1.203e-005	6.312e-012	0.99999	0.99000	
(5)	9949	21297	41138	80512	183690	605450	2ORDR	-1.76e-002	1.236e-005	6.91e-012	0.99999	0.99000	
(6)	11109	25012	49677	98958	232230	763780	2ORDR	-1.35e-003	9.748e-006	4.381e-012	1.00000	0.99000	
(7)	9079	20085	39437	79153	185470	624890	2ORDR	-5.45e-003	1.241e-005	5.758e-012	1.00000	0.99000	
(8)	13087	31024	60079	119370	272000	867200	2ORDR	-5.77e-003	8.104e-006	3.961e-012	0.99999	0.99000	
(9)	8944	21105	42447	87944	209210	703620	2ORDR	9.208e-003	1.095e-005	4.624e-012	0.99999	0.99000	
(10)	6832	16090	31594	65159	157420	538870	2ORDR	8.039e-003	1.476e-005	7.023e-012	0.99999	0.99000	
alpha-Chlordane	27144	52220	124400	230560	445080	962240	2ORDR	-2.22e-004	1.978e-007	6.461e-014	0.99996	0.99000	
gamma-Chlordane	26882	51875	122030	231260	448600	961950	2ORDR	4.686e-005	1.946e-007	6.768e-014	0.99994	0.99000	
Endrin Ketone	15672	31482	77109	141740	272660	589620	2ORDR	-1.27e-004	3.213e-007	1.744e-013	0.99996	0.99000	
Tetrachloro-m-Xylene	21744	42602	105260	179460	353470	791560	2ORDR	-8.75e-004	2.606e-007	7.12e-014	0.99980	0.99000	
Decachlorobiphenyl	19022	35409	78012	138650	260050	563350	2ORDR	-1.36e-003	3.391e-007	1.904e-013	0.99990	0.99000	

FORM VI SV

FORM 7B
PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO91 NS MAYPORT SDG No.: WU0149

Instrument ID: GC08 Calibration Date: 01/26/04 Time: 1554

Lab File ID: 8UA3119 Init. Calib. Date(s): 01/26/04 01/26/04

Init. Calib. Times: 1311 2120

GC Column: RTX-CLPI ID: 0.53 (mm)

COMPOUND	RRF or AMOUNT	RRF5e-002 or AMOUNT	CCAL RRF5e-002	MIN RRF	%D or %DRIFT	MAX %D or %DRIFT	CURV TYPE
Endosulfan I	4.85e-002	5.e-002	4635500.0	0.01	-3.00	15.00	2RDR
gamma BHC	4.53e-002	5.e-002	5170300.0	0.01	-9.40	15.00	2RDR
beta-BHC	5.02e-002	5.e-002	2651500.0	0.01	0.40	15.00	2RDR
delta-BHC	4.73e-002	5.e-002	5111600.0	0.01	-5.40	15.00	2RDR
Heptachlor	4.8e-002	5.e-002	5086900.0	0.01	-4.00	15.00	2RDR
Aldrin	4.67e-002	5.e-002	4715100.0	0.01	-6.60	15.00	2RDR
Heptachlor Epoxide	4.79e-002	5.e-002	4502600.0	0.01	-4.20	15.00	2RDR
gamma-Chlordane	4.96e-002	5.e-002	4706500.0	0.01	-0.80	15.00	2RDR
alpha-Chlordane	4.95e-002	5.e-002	4671300.0	0.01	-1.00	15.00	2RDR
4,4'-DDE	4.8e-002	5.e-002	4365700.0	0.01	-4.00	15.00	2RDR
alpha-BHC	4.38e-002	5.e-002	5481100.0	0.01	-12.40	15.00	2RDR
Dieldrin	4.91e-002	5.e-002	4628900.0	0.01	-1.80	15.00	2RDR
Endrin	5.14e-002	5.e-002	4064400.0	0.01	2.80	15.00	2RDR
4,4'-DDD	4.84e-002	5.e-002	3007800.0	0.01	-3.20	15.00	2RDR
Endosulfan II	4.89e-002	5.e-002	3614500.0	0.01	-2.20	15.00	2RDR
4,4'-DDT	5.23e-002	5.e-002	3141700.0	0.01	4.60	15.00	2RDR
Endrin Aldehyde	4.86e-002	5.e-002	2580700.0	0.01	-2.80	15.00	2RDR
Methoxychlor	4.94e-002	5.e-002	2415000.0	0.01	-1.20	15.00	2RDR
Endosulfan sulfate	5.14e-002	5.e-002	1370900.0	0.01	2.80	15.00	2RDR
Endrin Ketone	5.13e-002	5.e-002	2960100.0	0.01	2.60	15.00	2RDR

FORM 6
SEMIVOLATILE INITIAL CALIBRATION DATA

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project CTO91 NS MAYPORT SDG No.: WU0149

Instrument ID: GC08 Calibration Date(s): 01/26/04 01/26/04

Column: RTX-CLPII ID: 0.53 (mm) Calibration Time(s): 1311 2120

LAB FILE ID: RF0.005: 8UA4127 RF0.01: 8UA4128 RF0.025: 8UA4129
RF0.05: 8UA4126 RF0.1: 8UA4130 RF0.25: 8UA4131

								COEFFICENTS			%RSD	MAX %RSD	
COMPOUND	RF0.005	RF0.01	RF0.025	RF0.05	RF0.1	RF0.25	CURVE	A0	A1	A2	OR R^2	OR R^2	
alpha-BHC	15071	34541	100700	190620	396020	880010	2ORDR	1.456e-003	2.297e-007	5.956e-014	0.99974	0.99000	
gamma BHC	13346	30952	90013	156550	341220	746010	2ORDR	1.446e-003	2.663e-007	8.897e-014	0.99932	0.99000	
Heptachlor	14189	28288	68087	131540	260960	599540	2ORDR	-1.18e-005	3.611e-007	9.304e-014	0.99997	0.99000	
beta-BHC	9235	18202	46322	81396	167590	369430	2ORDR	1.279e-004	5.465e-007	3.503e-013	0.99972	0.99000	
Aldrin	13667	29924	82296	154940	320850	710210	2ORDR	1.158e-003	2.837e-007	9.337e-014	0.99976	0.99000	
delta-BHC	12351	29891	82363	165350	347000	780720	2ORDR	1.761e-003	2.66e-007	6.609e-014	0.99971	0.99000	
Heptachlor Epoxide	13957	28819	73973	129730	276050	617250	2ORDR	4.491e-004	3.389e-007	1.053e-013	0.99958	0.99000	
Endosulfan I	12252	25055	63675	122030	240440	532250	2ORDR	4.235e-004	3.754e-007	1.754e-013	0.99995	0.99000	
4,4'-DDE	11973	24569	64260	125480	249990	551600	2ORDR	8.265e-004	3.599e-007	1.66e-013	0.99991	0.99000	
Dieldrin	10297	21198	56262	110020	226660	507970	2ORDR	1.096e-003	4.07e-007	1.626e-013	0.99981	0.99000	
Endrin	8414	17377	44727	81971	178980	405720	2ORDR	9.863e-004	5.314e-007	2.01e-013	0.99949	0.99000	
4,4'-DDD	6102	12680	33010	66987	137630	321880	2ORDR	1.001e-003	6.947e-007	2.436e-013	0.99989	0.99000	
Endosulfan II	8562	17178	43218	84908	170650	393290	2ORDR	4.365e-004	5.533e-007	2.06e-013	0.99995	0.99000	
4,4'-DDT	5643	11664	29383	60357	126490	309580	2ORDR	8.986e-004	7.859e-007	5.902e-014	0.99988	0.99000	
Endrin Aldehyde	5969	12396	29626	57852	117230	272250	2ORDR	2.495e-004	8.151e-007	3.742e-013	0.99994	0.99000	
Endosulfan sulfate	5685	11695	29076	58866	122380	287030	2ORDR	8.934e-004	7.882e-007	2.755e-013	0.99985	0.99000	
Methoxychlor	3019	6083	14375	27040	53172	118500	2ORDR	-1.51e-004	1.721e-006	3.286e-012	0.99995	0.99000	
Toxaphene	2174	5174	8295	21148	49365	179410	2ORDR	1.351e-002	4.808e-005	4.226e-011	0.99987	0.99000	
(2)	1894	4673	6766	19904	48279	183830	2ORDR	3.636e-002	4.989e-005	2.347e-011	0.99975	0.99000	
(3)	4883	11714	21646	46759	112710	382040	2ORDR	1.24e-002	2.046e-005	1.487e-011	0.99998	0.99000	
(4)	1954	4978	8749	21371	53350	200640	2ORDR	2.994e-002	4.532e-005	2.179e-011	0.99992	0.99000	
(5)	3240	8476	16159	36781	93064	330930	2ORDR	3.378e-002	2.536e-005	1.436e-011	0.99994	0.99000	
(6)	1823	4939	9479	22582	59696	236830	2ORDR	4.47e-002	4.131e-005	3.029e-012	0.99991	0.99000	
(7)	4074	10785	21634	45484	113970	387760	2ORDR	2.694e-002	2.026e-005	1.408e-011	0.99997	0.99000	
(8)	2505	6731	14078	31012	81669	302120	2ORDR	4.254e-002	2.945e-005	1.161e-011	0.99993	0.99000	
(9)	2379	6353	13087	28650	75586	280860	2ORDR	4.043e-002	3.192e-005	1.259e-011	0.99993	0.99000	
(10)	2332	6222	12713	27252	71138	270410	2ORDR	3.167e-002	3.43e-005	9.47e-012	0.99996	0.99000	
alpha-Chlordane	13589	27288	69484	131040	261700	571000	2ORDR	5.269e-004	3.414e-007	1.666e-013	0.99988	0.99000	
gamma-Chlordane	14024	27995	72688	137710	277160	605720	2ORDR	6.952e-004	3.233e-007	1.452e-013	0.99986	0.99000	
Endrin Ketone	8028	16682	42789	81583	165110	367390	2ORDR	6.57e-004	5.539e-007	3.385e-013	0.99988	0.99000	
Tetrachloro-m-Xylene	13765	27245	69405	121720	242970	538070	2ORDR	-2.34e-004	3.75e-007	1.671e-013	0.99984	0.99000	
Decachlorobiphenyl	11774	22930	53130	98173	187840	424360	2ORDR	-8.54e-004	4.913e-007	2.356e-013	0.99996	0.99000	

FORM VI SV

FORM 7B
PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO91 NS MAYPORT SDG No.: WU0149

Instrument ID: GC08 Calibration Date: 01/26/04 Time: 1554

Lab File ID: 8UA4119 Init. Calib. Date(s): 01/26/04 01/26/04

Init. Calib. Times: 1311 2120

GC Column: RTX-CLPII ID: 0.53 (mm)

COMPOUND	RRF or AMOUNT	RRF5e-002 or AMOUNT	CCAL RRF5e-002	MIN RRF	%D or %DRIFT	MAX %D or %DRIFT	CURV TYPE
4,4'-DDE	4.84e-002	5.e-002	2498400.0	0.01	-3.20	15.00	2RDR
gamma BHC	4.86e-002	5.e-002	3354300.0	0.01	-2.80	15.00	2RDR
beta-BHC	5.01e-002	5.e-002	1731600.0	0.01	0.20	15.00	2RDR
delta-BHC	5.04e-002	5.e-002	3501900.0	0.01	0.80	15.00	2RDR
Heptachlor	5.1e-002	5.e-002	2728600.0	0.01	2.00	15.00	2RDR
Aldrin	4.98e-002	5.e-002	3253900.0	0.01	-0.40	15.00	2RDR
Heptachlor Epoxide	5.15e-002	5.e-002	2884100.0	0.01	3.00	15.00	2RDR
gamma-Chlordane	4.8e-002	5.e-002	2757200.0	0.01	-4.00	15.00	2RDR
alpha-Chlordane	4.85e-002	5.e-002	2641600.0	0.01	-3.00	15.00	2RDR
Endosulfan I	4.99e-002	5.e-002	2492800.0	0.01	-0.20	15.00	2RDR
alpha-BHC	4.93e-002	5.e-002	3963900.0	0.01	-1.40	15.00	2RDR
Dieldrin	4.89e-002	5.e-002	2248400.0	0.01	-2.20	15.00	2RDR
Endrin	5.45e-002	5.e-002	1941900.0	0.01	9.00	15.00	2RDR
4,4'-DDD	4.8e-002	5.e-002	1321900.0	0.01	-4.00	15.00	2RDR
Endosulfan II	5.08e-002	5.e-002	1764000.0	0.01	1.60	15.00	2RDR
4,4'-DDT	5.21e-002	5.e-002	1297700.0	0.01	4.20	15.00	2RDR
Endrin Aldehyde	5.04e-002	5.e-002	1198500.0	0.01	0.80	15.00	2RDR
Endosulfan sulfate	4.84e-002	5.e-002	1180700.0	0.01	-3.20	15.00	2RDR
Methoxychlor	5.11e-002	5.e-002	565040.00	0.01	2.20	15.00	2RDR
Endrin Ketone	5.2e-002	5.e-002	1758500.0	0.01	4.00	15.00	2RDR

FORM 7B
PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CT091 NS MAYPORT SDG No.: WU0149

Instrument ID: GC08 Calibration Date: 01/27/04 Time: 0650

Lab File ID: 8UA3152 Init. Calib. Date(s): 01/26/04 01/26/04

Init. Calib. Times: 1311 2120

GC Column: RTX-CLPI ID: 0.53 (mm)

COMPOUND	RRF or AMOUNT	RRF5e-002 or AMOUNT	CCAL RRF5e-002	MIN RRF	%D or %DRIFT	MAX %D or %DRIFT	CURV TYPE	
alpha-BHC	4.28e-002	5.e-002	5376100.0	0.01	-14.40	15.00	2RDR	
gamma BHC	4.27e-002	5.e-002	4909200.0	0.01	-14.60	15.00	2RDR	
Heptachlor	4.77e-002	5.e-002	5058200.0	0.01	-4.60	15.00	2RDR	
beta-BHC	4.37e-002	5.e-002	2324600.0	0.01	-12.60	15.00	2RDR	
Aldrin	4.49e-002	5.e-002	4547200.0	0.01	-10.20	15.00	2RDR	
delta-BHC	4.24e-002	5.e-002	4616400.0	0.01	-15.20	15.00	2RDR	<-
Heptachlor Epoxide	4.46e-002	5.e-002	4210900.0	0.01	-10.80	15.00	2RDR	
Endosulfan I	4.52e-002	5.e-002	4346200.0	0.01	-9.60	15.00	2RDR	
4,4'-DDE	4.56e-002	5.e-002	4161100.0	0.01	-8.80	15.00	2RDR	
Dieldrin	4.76e-002	5.e-002	4496700.0	0.01	-4.80	15.00	2RDR	
Endrin	4.89e-002	5.e-002	3884300.0	0.01	-2.20	15.00	2RDR	
4,4'-DDD	4.95e-002	5.e-002	3078700.0	0.01	-1.00	15.00	2RDR	
Endosulfan II	4.8e-002	5.e-002	3556200.0	0.01	-4.00	15.00	2RDR	
4,4'-DDT	4.91e-002	5.e-002	2949700.0	0.01	-1.80	15.00	2RDR	
Endrin Aldehyde	4.87e-002	5.e-002	2581700.0	0.01	-2.60	15.00	2RDR	
Endosulfan sulfate	5.63e-002	5.e-002	1490800.0	0.01	12.60	15.00	2RDR	
Methoxychlor	4.93e-002	5.e-002	2413800.0	0.01	-1.40	15.00	2RDR	
alpha-Chlordane	4.76e-002	5.e-002	4500300.0	0.01	-4.80	15.00	2RDR	
gamma-Chlordane	4.82e-002	5.e-002	4584000.0	0.01	-3.60	15.00	2RDR	
Endrin Ketone	4.84e-002	5.e-002	2807200.0	0.01	-3.20	15.00	2RDR	
Tetrachloro-m-Xylene	4.9e-002	5.e-002	3645400.0	0.01	-2.00	15.00	2RDR	
Decachlorobiphenyl	4.86e-002	5.e-002	2738500.0	0.01	-2.80	15.00	2RDR	

FORM VII PEST

FORM 7B
PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO91 NS MAYPORT SDG No.: WU0149

Instrument ID: GC08 Calibration Date: 01/27/04 Time: 0650

Lab File ID: 8UA4152 Init. Calib. Date(s): 01/26/04 01/26/04

Init. Calib. Times: 1311 2120

GC Column: RTX-CLPII ID: 0.53 (mm)

COMPOUND	RRF or AMOUNT	RRF5e-002 or AMOUNT	CCAL RRF5e-002	MIN RRF	%D or %DRIFT	MAX %D or %DRIFT	CURV TYPE	
alpha-BHC	4.71e-002	5.e-002	3791300.0	0.01	-5.80	15.00	2RDR	
gamma BHC	4.91e-002	5.e-002	3385700.0	0.01	-1.80	15.00	2RDR	
Heptachlor	5.62e-002	5.e-002	2997600.0	0.01	12.40	15.00	2RDR	
beta-BHC	4.56e-002	5.e-002	1582500.0	0.01	-8.80	15.00	2RDR	
Aldrin	4.67e-002	5.e-002	3057900.0	0.01	-6.60	15.00	2RDR	
delta-BHC	4.86e-002	5.e-002	3377000.0	0.01	-2.80	15.00	2RDR	
Heptachlor Epoxide	4.65e-002	5.e-002	2610900.0	0.01	-7.00	15.00	2RDR	
Endosulfan I	4.93e-002	5.e-002	2464500.0	0.01	-1.40	15.00	2RDR	
4,4'-DDE	4.75e-002	5.e-002	2455100.0	0.01	-5.00	15.00	2RDR	
Dieldrin	5.11e-002	5.e-002	2346800.0	0.01	2.20	15.00	2RDR	
Endrin	5.e-002	5.e-002	1784700.0	0.01	0.00	15.00	2RDR	
4,4'-DDD	5.41e-002	5.e-002	1488900.0	0.01	8.20	15.00	2RDR	
Endosulfan II	5.17e-002	5.e-002	1794300.0	0.01	3.40	15.00	2RDR	
4,4'-DDT	5.41e-002	5.e-002	1347900.0	0.01	8.20	15.00	2RDR	
Endrin Aldehyde	5.36e-002	5.e-002	1272800.0	0.01	7.20	15.00	2RDR	
Endosulfan sulfate	5.13e-002	5.e-002	1252500.0	0.01	2.60	15.00	2RDR	
Methoxychlor	6.e-002	5.e-002	657460.00	0.01	20.00	15.00	2RDR	<-
alpha-Chlordane	4.79e-002	5.e-002	2607200.0	0.01	-4.20	15.00	2RDR	
gamma-Chlordane	4.86e-002	5.e-002	2786500.0	0.01	-2.80	15.00	2RDR	
Endrin Ketone	5.26e-002	5.e-002	1779500.0	0.01	5.20	15.00	2RDR	
Tetrachloro-m-Xylene	4.83e-002	5.e-002	2454700.0	0.01	-3.40	15.00	2RDR	
Decachlorobiphenyl	5.18e-002	5.e-002	2043700.0	0.01	3.60	15.00	2RDR	

FORM VII PEST

Katahdin Analytical Services, Inc.
Instrument: GC08
Amount Injected 2ul

GC Laboratory Instrument Runlog

Method: 608 / (8081) / 8082
(circle)

Reviewed by/ Date:

Date	Init.	Result File	Sample ID	MI	Y/N	Method	Column	Sequence
1-21-04	LAD	RUA3/4095	WU0077-2 3545		Y	PSTA/B103A.m	230/231	
		96	-3					
		97	-4					
		98	-5					
		99	-6	Y				
		100	-7					
		101	EVAL P2731	N	Y			
1-22-04		102	AB 0.05PPM P2744	N	Y			a - DOT ↓ b - Hept Epox ↓
		103	Eval P2731	—	—			
		104	Eval P2731	N	Y			
		105	AB 0.05PPM P2744	N	Y			
		LAD 1-23-04 106	WU0049-3 DL	N	Y			1:2 500ul → 1000ul
		107	AB 0.05ppm P2744	N	Y			a - hept ↓ b - OK
1/26/04	JRS	RUA3/4 108	Hexane	—	—			
		109	Eval P2731	N	N			
		110	IND/ABO.05ppm P2744					
		111						
		112	Eval P2731	N	Y	PSTA/B104A.m		
		113	IND/ABO.05ppm P2744					
		114	0.005 P2745					
		115	0.01 P2613					
		116	0.025 P2614					
		117	0.1 P2616					
		118	0.25 P2617					
		119	IND/ABO.05ppm (N.) P2746					
		120	Toxaphene 1.0ppm P2720	Y				
		121	0.1 P2725					
		122	0.25 P2724					
		123	0.5 P2723					
		124	2.5 P2722	N				

Katahdin Analytical Services, Inc.
Instrument: GC08
Amount Injected 2ul

GC Laboratory Instrument Runlog

Method: 608 / (8081) / 8082
(circle)

Reviewed by/ Date:

Date	Init.	Result File	Sample ID	MI	Y/N	Method	Column	Sequence
1/26/04	BY	SLA314 125	Toxaphene 10ppm P2699	N	Y	B5TMB104A.M	230/231	
		126	Tech Chlor. 0.5ppm P2731	↓				
		127	0.05 P2764	Y				
		128	0.1 P2763	Y				
		129	0.25 P2762	N				
		130	1.0 P2761					
		131	2.5 P2760					
		132	WG5554-1 3510					
		133	-2					
		134	-3					
		135	WG5509-1 3520					
		136	-2					
1/27/04		137	PBT 631A 3510					
		138	WW0080-2					
		139	WW0149-1					
		140	-2					
		141	WW0065-1 3520					
		142	-3					
		143	-5					
		144	WW0078-1					
		145	WW0111-1	↓				
		146	-2	Y				
		147	-3	N				
		148	WG5509-3	↓	↓			
		149	-4	↓	↓			
		150	Hexane	—	—			
		151	Eval P2731	N	Y			
		152	INDAB 0.05ppm P2741	↓	↓			
	↓	153	Tech Chlor. 0.5ppm P2731	↓	↓	↓	↓	
↓	↓	154	WG5556-1 3520	↓	↓	↓	↓	

FORM 4

SEMIVOLATILE METHOD BLANK SUMMARY

CLIENT SAMPLE ID

WG5553-BLANK

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code:

Project: CTO91 NS MAYPORT SDG No.: WU0149

Lab File ID: CUB2010 Lab Sample ID: WG5553-1

Instrument ID: GC12 Date Extracted: 01/21/04

Matrix: (soil/water) WATER Date Analyzed: 02/11/04

Level: (low/med) LOW Time Analyzed: 2034

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	WG5553-LCS	WG5553-2	CUB2011	02/11/04	2144
02	WG5553-LCSD	WG5553-3	CUB2012	02/11/04	2254
03	BLANK	PBP609A	CUB2013	02/12/04	0003
04	MPT-45-A4-2'	WU0149-4	CUB2014	02/12/04	0113
05	MPT-45-B1-2'	WU0149-5	CUB2015	02/12/04	0223
06	MPT-45-B3-2'	WU0149-7	CUB2016	02/12/04	0334
07	MPT-45-D3-2'	WU0149-13	CUB2017	02/12/04	0444
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					

COMMENTS:

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client:
Project: CTO91 NS MAYPORT
PO No:
Sample Date:
Received Date:
Extraction Date: 01/21/04
Analysis Date: 02/11/04
Report Date: 02/18/2004
Matrix: WATER
% Solids: NA

Lab ID: WG5553-1
Client ID: WG5553-Blank
SDG: WU0149
Extracted by: AZ
Extraction Method: SW846 3510
Analyst: SAW
Analysis Method: SW846 M8015
Lab Prep Batch: WG5553
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
	Petroleum Range Organics	U	500	1.0	500	500	280
	n-Triacontane-D62		85%				
	O-Terphenyl		82%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client:
Project: CTO91 NS MAYPORT
PO No:
Sample Date:
Received Date:
Extraction Date: 01/21/04
Analysis Date: 02/12/04
Report Date: 02/20/2004
Matrix: WATER
% Solids: NA

Lab ID: PBP609A
Client ID: BLANK
SDG: WU0149
Extracted by: AZ
Extraction Method: SW846 3510
Analyst: SAW
Analysis Method: SW846 M8015B
Lab Prep Batch: WG5553
Units: ug/L

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
	Petroleum Range Organics	U	500	1.0	500	500	280
	n-Triacontane-D62		91%				
	O-Terphenyl		90%				

FORM 6
FL-PRO INITIAL CALIBRATION DATA

Lab Name: KATAHDIN ANALYTICAL SERVI Contract: CTO91 NS MAYPORT

Lab Code: Case No.: SAS No.: SDG No.: WU0149

Instrument ID: GC12 Calibration Date(s): 01/15/04 01/15/04

Column: ZB-1 ID: 0.53 (mm) Calibration Time(s): 0329 0809

LAB FILE ID: RF5: CUA2058 RF20: CUA2059 RF50: CUA2060
RF100: CUA2061 RF200: CUA2062

COMPOUND	RF5	RF20	RF50	RF100	RF200
C-24	28608	115080	291160	567020	1159700
C-8	29571	113520	285540	559500	1120700
C-10	44616	119260	291320	572080	1153100
C-12	8727	118790	296890	573940	1155400
C-14	30797	116970	289990	572110	1157900
C-16	30385	117240	293420	575020	1165800
C-18	29940	116910	292420	573010	1166600
C-28	29723	116310	294110	572040	1164400
C-20	29610	116560	293280	571720	1164600
C-22	29259	116660	293340	572810	1169300
FL-PRO peaks C8-C40	491470	1955200	4966100	9706200	19667000
C-26	29407	115890	294330	572720	1167500
C-38	28905	107560	279190	558160	1129200
C-40	23709	102680	285040	550470	1136800
C-30	31378	117890	295870	573650	1161900
C-32	29450	114070	293980	572950	1156100
C-34	29113	115760	300230	585980	1178500
C-36	28271	114090	296030	583060	1159300
O-Terphenyl	6399.800	6360.200	6552.400	6396.500	6295.500
n-Triacontane-D62	5100.800	5099.400	5229.100	5106.600	5062.000

FORM 6
FL-PRO INITIAL CALIBRATION DATA

Lab Name: KATAHDIN ANALYTICAL SERVI Contract: CTO91 NS MAYPORT

Lab Code: Case No.: SAS No.: SDG No.: WU0149

Instrument ID: GC12 Calibration Date(s): 01/15/04 01/15/04

Column: ZB-1 ID: 0.53 (mm) Calibration Time(s): 0329 0809

COMPOUND	CURVE	COEFFICENTS A0	COEFFICENTS A1	%RSD OR R^2	MAX %RSD OR R^2
C-24	LINR	0.21946184	1.729e-004	0.9998600	0.9900000
C-8	LINR	-0.3179999	1.787e-004	0.9999800	0.9900000
C-10	LINR	-0.9962156	1.747e-004	0.9998100	0.9900000
C-12	LINR	0.67416490	1.722e-004	0.9995500	0.9900000
C-14	LINR	-5.64e-002	1.731e-004	0.9999600	0.9900000
C-16	LINR	-3.37e-002	1.72e-004	0.9999400	0.9900000
C-18	LINR	8.384e-002	1.719e-004	0.9999100	0.9900000
C-28	LINR	3.314e-002	1.722e-004	0.9999000	0.9900000
C-20	LINR	6.577e-002	1.722e-004	0.9999000	0.9900000
C-22	LINR	0.16148628	1.715e-004	0.9998900	0.9900000
FL-PRO peaks C8-C40	LINR	0.84359268	1.732e-004	0.9999400	0.9900000
C-26	LINR	0.11742793	1.717e-004	0.9998900	0.9900000
C-38	LINR	0.41790430	1.771e-004	0.9999500	0.9900000
C-40	LINR	1.00039501	1.758e-004	0.9997000	0.9900000
C-30	LINR	-0.2570571	1.727e-004	0.9999200	0.9900000
C-32	LINR	-4.48e-002	1.732e-004	0.9999500	0.9900000
C-34	LINR	-2.36e-002	1.698e-004	0.9999500	0.9900000
C-36	LINR	-0.1381361	1.723e-004	0.9999500	0.9900000
O-Terphenyl	AVRG		6400.87200	1.477	40.000
n-Triacontane-D62	AVRG		5119.58333	1.245	40.000

FORM VI FL-PRO

FORM 8
FL-PRO ANALYTICAL SEQUENCE

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code:

Project: CTO91 NS MAYPORT SDG No.: WU0149

GC Column: ZB-1 ID: 0.53 (mm) Init. Calib. Date(s): 01/15/04 01/15/04

Instrument ID: GC12

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION
S1 : 18.20 S2 : 24.42

	CLIENT SAMPLE ID	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	S1 RT #	S2 RT #
01	ICAL	FLPRO 5 UG/M	01/15/04	0329	18.20	24.42
02	ICAL	FLPRO 20 UG/	01/15/04	0438	18.20	24.42
03	ICAL	FLPRO 50 UG/	01/15/04	0548	18.20	24.42
04	ICAL	FLPRO 100UG/	01/15/04	0658	18.20	24.42
05	ICAL	FLPRO 200UG/	01/15/04	0809	18.20	24.42
06	INDSOURCE	FLPRO IND	01/15/04	0919	18.20	24.42
07	CV	FLPRO 50 UG/	02/11/04	1426	18.20	24.41
08	WG5553-BLANK	WG5553-1	02/11/04	2034	18.20	24.42
09	WG5553-LCS	WG5553-2	02/11/04	2144	18.20	24.41
10	WG5553-LCSD	WG5553-3	02/11/04	2254	18.20	24.41
11	BLANK	PBP609A	02/12/04	0003	18.20	24.41
12	MPT-45-A4-2'	WU0149-4	02/12/04	0113	18.20	24.42
13	MPT-45-B1-2'	WU0149-5	02/12/04	0223	18.20	24.41
14	MPT-45-B3-2'	WU0149-7	02/12/04	0334	18.20	24.41
15	MPT-45-D3-2'	WU0149-13	02/12/04	0444	18.20	24.41
16	CV	FLPRO 50 UG/	02/12/04	0814	18.20	24.41
17						
18						
19						
20						

QC LIMITS

S1 = O-Terphenyl (+/- 0.36 MINUTES)
S2 = n-Triacontane-D62 (+/- 0.49 MINUTES)

Column used to flag retention time values with an asterisk.
* Values outside of QC limits.

FORM 7B
SEMIVOLATILE CALIBRATION VERIFICATION SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code:

Project: CTO91 NS MAYPORT SDG No.: WU0149

Instrument ID: GC12 Calibration Date: 02/11/04 Time: 1426

Lab File ID: CUB2005 Init. Calib. Date(s): 01/15/04 01/15/04

Init. Calib. Times: 0329 0809

GC Column: ZB-1 ID: 0.53 (mm)

COMPOUND	RRF or AMOUNT	RRF50.000 or AMOUNT	CCAL RRF50.000	MIN RRF	%D or %DRIFT	MAX %D or %DRIFT	CURV TYPE	
C-24	43.539000	50.000000	5011.6000	0.01	-12.92	25.00	LINR	
C-8	44.598000	50.000000	5026.1000	0.01	-10.80	25.00	LINR	
C-10	40.996000	50.000000	4806.4000	0.01	-18.01	25.00	LINR	
C-12	46.043000	50.000000	5268.0000	0.01	-7.91	25.00	LINR	
C-14	44.724000	50.000000	5172.5000	0.01	-10.55	25.00	LINR	
C-16	43.889000	50.000000	5108.5000	0.01	-12.22	25.00	LINR	
C-18	43.727000	50.000000	5078.4000	0.01	-12.55	25.00	LINR	
C-28	43.807000	50.000000	5084.2000	0.01	-12.39	25.00	LINR	
C-20	43.872000	50.000000	5088.7000	0.01	-12.26	25.00	LINR	
C-22	44.083000	50.000000	5123.1000	0.01	-11.83	25.00	LINR	
FL-PRO peaks C8-C40	728.06000	850.00000	4941.9000	0.01	-14.35	25.00	LINR	
C-26	43.392000	50.000000	5040.5000	0.01	-13.22	25.00	LINR	
C-38	38.236000	50.000000	4270.2000	0.01	-23.53	25.00	LINR	
C-40	37.186000	50.000000	4116.1000	0.01	-25.63	25.00	LINR	<-
C-30	43.302000	50.000000	5045.3000	0.01	-13.40	25.00	LINR	
C-32	43.701000	50.000000	5051.1000	0.01	-12.60	25.00	LINR	
C-34	42.734000	50.000000	5036.9000	0.01	-14.53	25.00	LINR	
C-36	40.233000	50.000000	4685.1000	0.01	-19.53	25.00	LINR	
O-Terphenyl	6400.9000	5700.3000	5700.3000	0.01	-10.94	25.00	AVRG	
n-Triacontane-D62	5119.6000	4507.0000	4507.0000	0.01	-11.97	25.00	AVRG	

TPH < 15%
3/1/04

FORM VII PEST

FORM 7B
SEMIVOLATILE CALIBRATION VERIFICATION SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code:

Project: CTO91 NS MAYPORT SDG No.: WU0149

Instrument ID: GC12 Calibration Date: 02/12/04 Time: 0814

Lab File ID: CUB2020 Init. Calib. Date(s): 01/15/04 01/15/04

Init. Calib. Times: 0329 0809

GC Column: ZB-1 ID: 0.53 (mm)

COMPOUND	RRF or AMOUNT	RRF50.000 or AMOUNT	CCAL RRF50.000	MIN RRF	%D or %DRIFT	MAX %D or %DRIFT	CURV TYPE	
C-24	45.224000	50.000000	5206.6000	0.01	-9.55	25.00	LINR	
C-8	45.544000	50.000000	5131.9000	0.01	-8.91	25.00	LINR	
C-10	42.219000	50.000000	4946.4000	0.01	-15.56	25.00	LINR	
C-12	48.035000	50.000000	5499.4000	0.01	-3.93	25.00	LINR	
C-14	47.272000	50.000000	5466.8000	0.01	-5.46	25.00	LINR	
C-16	45.507000	50.000000	5296.7000	0.01	-8.99	25.00	LINR	
C-18	45.638000	50.000000	5300.7000	0.01	-8.72	25.00	LINR	
C-28	45.660000	50.000000	5299.3000	0.01	-8.68	25.00	LINR	
C-20	45.501000	50.000000	5278.0000	0.01	-9.00	25.00	LINR	
C-22	45.471000	50.000000	5285.1000	0.01	-9.06	25.00	LINR	
FL-PRO peaks C8-C40	760.21000	850.00000	5161.0000	0.01	-10.56	25.00	LINR	
C-26	45.186000	50.000000	5249.4000	0.01	-9.63	25.00	LINR	
C-38	39.853000	50.000000	4452.8000	0.01	-20.29	25.00	LINR	
C-40	37.307000	50.000000	4129.9000	0.01	-25.39	25.00	LINR	<-
C-30	46.202000	50.000000	5381.2000	0.01	-7.60	25.00	LINR	
C-32	46.044000	50.000000	5321.7000	0.01	-7.91	25.00	LINR	
C-34	46.244000	50.000000	5450.4000	0.01	-7.51	25.00	LINR	
C-36	43.304000	50.000000	5041.5000	0.01	-13.39	25.00	LINR	
O-Terphenyl	6400.9000	5940.6000	5940.6000	0.01	-7.19	25.00	AVRG	
n-Triacontane-D62	5119.6000	4685.1000	4685.1000	0.01	-8.49	25.00	AVRG	

TPH 15%

SCS
3/1/04

FORM VII PEST

FORM 2
WATER FL-PRO SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code:

Project: CTO91 NS MAYPORT SDG No.: WU0149

	CLIENT SAMPLE ID	LAB SAMPLE ID	S1 #	S2 OTP#	S3 #	S4 #	S5 #	S6 #	S7 #	S8 #	TOT OUT
01	WG5553-BLANK	WG5553-1	85	82							0
02	WG5553-LCS	WG5553-2	76	83							0
03	WG5553-LCSD	WG5553-3	84	83							0
04	BLANK	PBP609A	91	90							0
05	MPT-45-A4-2'	WU0149-4	89	89							0
06	MPT-45-B1-2'	WU0149-5	82	81*							1
07	MPT-45-B3-2'	WU0149-7	87	86							0
08	MPT-45-D3-2'	WU0149-13	84	79*							1
09											
10											
11											
12											
13											
14											
15											
16											
17											
18											
19											
20											
21											
22											
23											
24											
25											
26											
27											
28											

		QC LIMITS
S1	= n-Triacontane-D62	(42-193)
S2 (OTP)	= O-Terphenyl	(82-142)

Column to be used to flag recovery values
* Values outside of contract required QC limits
D Surrogate diluted out

KATAHDIN ANALYTICAL SERVICES
GC/MS SVOA INJ LOG INSTRUMENT: 5970-X

DATE OF DFTPP INJECTION: 021904

NOTEBOOK NO:

CLIENT	JOB	SAMPLE	DATAFILE	DF	ALS #	METHOD	UL INJ	CHEMIST	COMMENTS
	TUNE 30ng	DFTPP	XD186	1	1	DFTPP35	2.0	JCG	OK 9104
	SSTD1.00X021904		X4393		2	XS1M00K	1.0		OK
	WB00050-28RA3		94		3				156↑ OK
	WC55555	-1	95		4				OK
		-2	96		5				OK
		-3	97		6				OK
	PBP609A	-V	98		7				OK
	PBP610A	-V	99		8				OK
	WU01149	-2	X4400		9				OK
		-5	01		10				OK
		-6	02		11				OK
		-9	03		12				OK
		-10	04		13				OK
		-11	X4405		14				OK
		-12	06		15				OK
		-13	07		16				OK
	WU01116	-29RA	08		17				OK
	WU01123	-4DL	09	10	18				(B) 1:50 00C
		-5DL	X4410	50	19				(B) 1:100 ↓

STANDARD	CODE
DFTPP	50183
CAL STD.	50185
IS MIX	50171

REVIEWED AND APPROVED BY:

DATE:

QAMS238

Katahdin Analytical Services 2000108

0000065

KATAHDIN ANALYTICAL SERVICES
GC/MS SVOA INJ LOG INSTRUMENT: 5970-X

DATE OF DFTPP INJECTION: 02704

NOTEBOOK NO:

CLIENT ID	JOB NO	SAMPLE NO	DATAFILE	DF	ALS #	METHOD	UL INJ	CHEMIST	COMMENTS
Tune	50ng DFTPP		XD183	1	1	DFTPP390	2.0	JL	OK
	SSTD 1.00 X0217		X4354		2	X5IM00X	1.0		✓
	3.00		55		3				✓
	2.00		56		4				✓
	0.50		57		5				✓
	0.20		58		6				✓
	0.05		59		7				✓
Restart	50ng DFTPP		XD184		1	DFTPP390	2.0	JL	
	WA57788	-1	X4360			JL			
		-2	61						
		-3	62						
	WW0951	-11	63						
		-12	64						
		-13	X4365						
	WW0952	-5	66						
		-6 JL	67						
		-7	68						
	WW0116	-16	69						
		-17							
		-18							
		-19							
		-20							

STANDARD	CODE
DFTPP	50183
CAL. STD.	50185 50166 50168, 50179, 50170, 50180
IS MIX	50171

REVIEWED AND APPROVED BY:

DATE:

QAMS238

00000666

FLA PRO - Sep

[redacted]

Analysis: FUEL OILS by: SW846/8015M MEDEP 4.1.25 MADEP EPH **FLOPRO** CT ETPH

Extraction: SW846: CLLE/3520 SEP/3510

Date QC Started: 1-21-04

QC Expiration Date: 2-4-04 **Matrix:** AQUEOUS

QC Batch ID:

SURROGATE ID: GC0070 **SPIKE ID:** GC0064

CLEAN-UP: GC screen, GPC, Florosil, Acid Wash, Other:

Sample pHs checked prior to extraction: (Y) / N

Solvent Lot # CH_2Cl_2 : Y41E71

(unpreserved samples should be noted on comments.)

Solvent Lot #

Blanks & LCSs adjusted to pH 2 w/ 1:1 HCl: (Y) / N

* 0.3g of silica gel added to all samples & QC

Count	Date Extracted	Ext. Init.	Sample ID	Initial Volume	Surr. Vol.	Spike Vol.	Final Vol.	Date Conc.	Tray Location	Init.	Comments
Blank-1	1-21-04	AZ	WG5553-1	1000 ml	2.0 ml	NR	2 ml	1-31-04	FL12 C2	AZ	R17635
LCS-1	↓	↓	-2	↓	↓	2.0 ml	↓	↓	C3	↓	
MS	↓	↓	-3	↓	↓	↓	↓	↓	C4	↓	
MSD											
Blank-2											
LCS-2											
Blank-3											
LCS-3											
Blank-4											
LCS-4											
Blank-5											
LCS-5											
Blank-6											
LCS-6											

Count	Date Extracted	Ext. Init.	Sample ID	Initial Volume	Surr. Vol.	Spike Vol.	Final Vol.	Date Conc.	Tray Location	Init.	Comments
1	1-21-04	AZ	WU0050-4	200 ml	20ml	NR	20ml	1-31-04	FL12 C5	AZ	WU0149-4
2	↓	↓	-5	↓	↓	↓	↓	↓	C6	↓	WU0149-5
3			-7						C7		WU0149-7
4			-13						C8		WU0149-13
5	↓	↓	PBB609A	↓	↓	↓	↓	↓	C9	↓	
6											
7											
8											
9											
10											
11											
12											
13											
14											
15											
16											
17											
18											
19											
20											

Reviewed By: _____

Katahdin Analytical Services, Inc.
Instrument: GC12 (FID)
Amount Injected 1mL

GC Laboratory Instrument Runlog

Method (circle): EPH(MADEP) / (FL PRO)

Reviewed by/ Date:

DRO/TPH - 8015Mod. / MDEP 4.1.25 / 8100Mod

Date	Init.	Result File	Sample ID	Y/N	Method	Column	Comments
01-15-04	SDW	CUA2057	Thermal Bleed	Y	FLPB004A	215	
		58	FLPRO 5ug/mL H1231				ICAL
		59	FLPRO 20ug/mL H1232				
		60	FLPRO 50ug/mL H1213				
		61	FLPRO 100ug/mL H1233				
		62	FLPRO 200ug/mL H1234				
		63	FL PRO IND H1222				
		64	MeCl2	N			
		65	Thermal Bleed	Y			
		66	WG5362-1 3550				
		67	-2	Y			SAMPLE 1:2 DIL PRO low
		68	-3				PRO low
		69	WU0050-14	Y			
		70	-15				
		71	-1				
		72	-2				
01-16-04		73	-3				
		74	-4	N			RERUN 1:5
		75	MeCl2				
		76	Thermal Bleed	Y			
		77	FLPRO 50ug/mL H1213				
		78	WU0050-16 3550				
		79	-9				
		80	-10				
		81	-12				
		82	-7	N			RERUN 1:3
		83	-11	Y			
		84	-6				
		85	-5	N			RERUN 1:3
		86	-8	Y			

Katahdin Analytical Services, Inc.
Instrument: GC12 (FID)
Amount Injected 1 µL

GC Laboratory Instrument Runlog

Method (circle): EPH(MADEP) / FL PRO

Reviewed by/ Date:

DRO/TPH - 8015Mod. / MDEP 4.1.25 / 8100Mod

Date	Init.	Result File	Sample ID	Y/N	Method	Column	Comments
01-29-04	SDW	CUA2171	FLPRO 50ug/mL H1213	Y	FLPB004A	215	
01-30-04		172	FLPRO 50ug/mL H1213	Y			
		173	WU0077-7 3540				
		174	WU0049-3				
		175	FLPRO 50ug/mL H1213				
		176	Thermal Bleed				
02-11-04	SDW	CUB2001	Thermal Bleed	N			
		2					
		3	FLPRO 50ug/mL H1213				C38, C40 low
		4	Thermal Bleed	N			Changed liner
		5	FLPRO 50ug/mL H1213	Y			C40 low
		6	Thermal Bleed				
		7	GC0070	Y			
		8	GC0078				
		9	GC0079				
		10	WG5553-1	Y			
		11	-2				
		12	-3				
02-12-04		13	PBP1.09A				
		14	WU0149-4				
		15	-5				
		16	-7				
		17	-13				
		18	$MeCl_2$	N			
		19	Thermal Bleed	Y			
		20	FLPRO 50ug/mL H1213				C40 low

Tetra Tech NUS **INTERNAL CORRESPONDENCE**

TO:	**T. HANSEN**	**DATE:**	**MARCH 5, 2004**
FROM:	**ETHAN G. LEE**	**COPIES:**	**DV FILE**

SUBJECT: **INORGANIC DATA VALIDATION – SPLP ARSENIC AND COPPER**
NS MAYPORT – CTO 091
SAMPLE DELIVERY GROUP (SDG) – WU0149

SAMPLES: 14/SPLP/

MPT-45-A1-2'	MPT-45-A2-2'	MPT-45-A3-2'
MPT-45-B1-2'	MPT-45-B2-2'	MPT-45-B3-2'
MPT-45-B4-2'	MPT-45-C1-2'	MPT-45-C2-2'
MPT-45-C3-2'	MPT-45-C4-2'	MPT-45-D3-2'
MPT-45-E4-2'	MPT-45-E4-5'	

Overview

The sample set for NS Mayport, CTO 091, SDG WU0149, consists of fourteen (14) synthetic precipitation leaching procedure (SPLP) environmental samples.

The samples were analyzed for SPLP arsenic and copper. The samples were collected by Tetra Tech NUS on January 5, 2004 and analyzed by Katahdin Analytical Services. Metals analyses were conducted using SW846 method 6010B.

Metals analyses were conducted using Inductively Coupled Plasma (ICP) methodologies.

These data were evaluated based on the following parameters:

* • Data Completeness
* • Holding Times
* • Calibration Recoveries
* • Laboratory Blank Analyses
* • ICP Interference Results
* • Laboratory Control Sample Results
* • Sample Quantitation
* • Detection Limits

* - All quality control criteria were met for this parameter.

Notes

No information was available to verify that the laboratory provided analysis of the correct analyte list. The review only considered the analytes reported by the laboratory.

Matrix spike, laboratory duplicate, and ICP serial dilution analyses were not performed for this SDG.

Executive Summary

Laboratory Performance: No quality control issues were noted for this SDG.

Other Factors Affecting Data Quality: None.

The data for these analyses were reviewed with reference to the "National Functional Guidelines for Inorganic Review", July 2002 and the NFESC document entitled "Navy IRCDQM" (September 1999).

The text of this report has been formulated to address only those problem areas affecting data quality.

"I attest that the data referenced herein were validated according to the agreed upon validation criteria as specified in the NFESC Guidelines and the Quality Assurance Project Plan (QAPP)."

Tetra Tech NUS
Ethan G. Lee
Environmental Scientist

Tetra Tech NUS
Joseph A. Samchuck
Quality Assurance Officer

Attachments:

1. Appendix A - Qualified Analytical Results
2. Appendix B - Results as reported by the Laboratory
3. Appendix C - Support Documentation

APPENDIX A

QUALIFIED ANALYTICAL RESULTS

Qualifier Codes:

A = Lab Blank Contamination
B = Field Blank Contamination
C = Calibration Noncompliance (i.e., % RSDs, %Ds, ICVs, CCVs, RRFs, etc.)
C01 = GC/MS Tuning Noncompliance
D = MS/MSD Recovery Noncompliance
E = LCS/LCSD Recovery Noncompliance
F = Lab Duplicate Imprecision
G = Field Duplicate Imprecision
H = Holding Time Exceedance
I = ICP Serial Dilution Noncompliance
J = GFAA PDS - GFAA MSA's $r < 0.995$
K = ICP Interference - includes ICS % R Noncompliance
L = Instrument Calibration Range Exceedance
M = Sample Preservation Noncompliance
N = Internal Standard Noncompliance
N01 = Internal Standard Recovery Noncompliance Dioxins
N02 = Recovery Standard Noncompliance Dioxins
N03 = Clean-up Standard Noncompliance Dioxins
O = Poor Instrument Performance (i.e., base-time drifting)
P = Uncertainty near detection limit (< 2 x IDL for inorganics and <CRQL for organics)
Q = Other problems (can encompass a number of issues; i.e.chromatography,interferences, etc.)
R = Surrogates Recovery Noncompliance
S = Pesticide/PCB Resolution
T = % Breakdown Noncompliance for DDT and Endrin
U = % Difference between columns/detectors >25% for positive results determined via GC/HPLC
V = Non-linear calibrations; correlation coefficient $r < 0.995$
W = EMPC result
X = Signal to noise response drop
Y = Percent solids <30%
Z = Uncertainty at 2 sigma deviation is less than sample activity

PROJ_NO: 0123

SDG: WU0149 MEDIA: SPLP DATA FRACTION: SPLPM

nsample	MPT-45-A1-2'	nsample	MPT-45-A2-2'	nsample	MPT-45-A3-2'
samp_date	1/5/2004	samp_date	1/5/2004	samp_date	1/5/2004
lab_id	WU0149-001	lab_id	WU0149-002	lab_id	WU0149-003
qc_type	NM	qc_type	NM	qc_type	NM
units	UG/L	units	UG/L	units	UG/L
Pct_Solids		Pct_Solids		Pct_Solids	
DUP_OF:		DUP_OF:		DUP_OF:	

Parameter	Result	Val Qual	Qual Code
ARSENIC	2.13	U	
COPPER	69.1		

Parameter	Result	Val Qual	Qual Code
ARSENIC	2.13	U	
COPPER	112		

Parameter	Result	Val Qual	Qual Code
ARSENIC	2.13	U	
COPPER	67.4		

PROJ_NO: 0123

SDG: WU0149 MEDIA: SPLP DATA FRACTION: SPLPM

nsample	MPT-45-B1-2'
samp_date	1/5/2004
lab_id	WU0149-005
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
ARSENIC	2.13	U	
COPPER	323		

nsample	MPT-45-B2-2'
samp_date	1/5/2004
lab_id	WU0149-006
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
ARSENIC	2.13	U	
COPPER	90.7		

nsample	MPT-45-B3-2'
samp_date	1/5/2004
lab_id	WU0149-007
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
ARSENIC	2.13	U	
COPPER	85.1		

PROJ_NO: 0123

SDG: WU0149 MEDIA: SPLP DATA FRACTION: SPLPM

nsample	MPT-45-B4-2'	nsample	MPT-45-C1-2'	nsample	MPT-45-C2-2'
samp_date	1/5/2004	samp_date	1/5/2004	samp_date	1/5/2004
lab_id	WU0149-008R	lab_id	WU0149-009	lab_id	WU0149-010
qc_type	NM	qc_type	NM	qc_type	NM
units	UG/L	units	UG/L	units	UG/L
Pct_Solids		Pct_Solids		Pct_Solids	
DUP_OF:		DUP_OF:		DUP_OF:	

Parameter	Result	Val Qual	Qual Code
ARSENIC	2.13	U	
COPPER	94.8		

Parameter	Result	Val Qual	Qual Code
ARSENIC	2.13	U	
COPPER	91.5		

Parameter	Result	Val Qual	Qual Code
ARSENIC	2.13	U	
COPPER	133		

PROJ_NO: 0123

SDG: WU0149 MEDIA: SPLP DATA FRACTION: SPLPM

nsample	MPT-45-C3-2'
samp_date	1/5/2004
lab_id	WU0149-011
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
ARSENIC	2.13	U	
COPPER	82.3		

nsample	MPT-45-C4-2'
samp_date	1/5/2004
lab_id	WU0149-012
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
ARSENIC	2.2		
COPPER	110		

nsample	MPT-45-D3-2'
samp_date	1/5/2004
lab_id	WU0149-013
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
ARSENIC	2.13	U	
COPPER	62.4		

PROJ_NO: 0123

SDG: WU0149 MEDIA: SPLP DATA FRACTION: SPLPM

nsample	MPT-45-E4-2'
samp_date	1/5/2004
lab_id	WU0149-014
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
ARSENIC	3.8		
COPPER	192		

nsample	MPT-45-E4-5'
samp_date	1/5/2004
lab_id	WU0149-015
qc_type	NM
units	UG/L
Pct_Solids	
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
ARSENIC	6.5		
COPPER	19.4		

APPENDIX B

RESULTS AS REPORTED BY THE LABORATORY

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services **Client Field ID:** MPT-45-A1-2'

Matrix: WATER **SDG Name:** WU0149

Percent Solids: 0.00 **Lab Sample ID:** WU0149-001

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	DF	Adjusted PQL	Adjusted IDL
7440-38-2	ARSENIC, SPLP	2.13	U		P	1	8.0	2.13
7440-50-8	COPPER, SPLP	69.1			P	1	25	1.14

Color Before: N/A Clarity Before: N/A

Color After: N/A Clarity After: N/A

Comments:

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services **Client Field ID:** MPT-45-A2-2'

Matrix: WATER **SDG Name:** WU0149

Percent Solids: 0.00 **Lab Sample ID:** WU0149-002

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	DF	Adjusted PQL	Adjusted IDL
7440-38-2	ARSENIC, SPLP	2.13	U		P	1	8.0	2.13
7440-50-8	COPPER, SPLP	112			P	1	25	1.14

Color Before: N/A Clarity Before: N/A

Color After: N/A Clarity After: N/A

Comments:

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services **Client Field ID:** MPT-45-A3-2'

Matrix: WATER **SDG Name:** WU0149

Percent Solids: 0.00 **Lab Sample ID:** WU0149-003

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	DF	Adjusted PQL	Adjusted IDL
7440-38-2	ARSENIC, SPLP	2.13	U		P	1	8.0	2.13
7440-50-8	COPPER, SPLP	67.4			P	1	25	1.14

Color Before: N/A Clarity Before: N/A

Color After: N/A Clarity After: N/A

Comments:

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services **Client Field ID:** MPT-45-B1-2'

Matrix: WATER **SDG Name:** WU0149

Percent Solids: 0.00 **Lab Sample ID:** WU0149-005

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	DF	Adjusted PQL	Adjusted IDL
7440-38-2	ARSENIC, SPLP	2.13	U		P	1	8.0	2.13
7440-50-8	COPPER, SPLP	323			P	1	25	1.14

Color Before: N/A Clarity Before: N/A

Color After: N/A Clarity After: N/A

Comments:

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services **Client Field ID:** MPT-45-B2-2'

Matrix: WATER **SDG Name:** WU0149

Percent Solids: 0.00 **Lab Sample ID:** WU0149-006

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	DF	Adjusted PQL	Adjusted IDL
7440-38-2	ARSENIC, SPLP	2.13	U		P	1	8.0	2.13
7440-50-8	COPPER, SPLP	90.7			P	1	25	1.14

Color Before: N/A Clarity Before: N/A

Color After: N/A Clarity After: N/A

Comments:

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services **Client Field ID:** MPT-45-B3-2'

Matrix: WATER **SDG Name:** WU0149

Percent Solids: 0.00 **Lab Sample ID:** WU0149-007

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	DF	Adjusted PQL	Adjusted IDL
7440-38-2	ARSENIC, SPLP	2.13	U		P	1	8.0	2.13
7440-50-8	COPPER, SPLP	85.1			P	1	25	1.14

Color Before: N/A Clarity Before: N/A

Color After: N/A Clarity After: N/A

Comments:

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services **Client Field ID:** MPT-45-B4-2'

Matrix: WATER **SDG Name:** WU0149

Percent Solids: 0.00 **Lab Sample ID:** WU0149-008

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	DF	Adjusted PQL	Adjusted IDL
7440-38-2	ARSENIC, SPLP	2.13	U		P	1	8.0	2.13
7440-50-8	COPPER, SPLP	94.8			P	1	25	1.14

Color Before: N/A Clarity Before: N/A

Color After: N/A Clarity After: N/A

Comments:

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services **Client Field ID:** MPT-45-C1-2'

Matrix: WATER **SDG Name:** WU0149

Percent Solids: 0.00 **Lab Sample ID:** WU0149-009

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	DF	Adjusted PQL	Adjusted IDL
7440-38-2	ARSENIC, SPLP	2.13	U		P	1	8.0	2.13
7440-50-8	COPPER, SPLP	91.5			P	1	25	1.14

Color Before: N/A Clarity Before: N/A

Color After: N/A Clarity After: N/A

Comments:

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services **Client Field ID:** MPT-45-C2-2'

Matrix: WATER **SDG Name:** WU0149

Percent Solids: 0.00 **Lab Sample ID:** WU0149-010

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	DF	Adjusted PQL	Adjusted IDL
7440-38-2	ARSENIC, SPLP	2.13	U		P	1	8.0	2.13
7440-50-8	COPPER, SPLP	133			P	1	25	1.14

Color Before: N/A Clarity Before: N/A

Color After: N/A Clarity After: N/A

Comments:

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services **Client Field ID:** MPT-45-C3-2'

Matrix: WATER **SDG Name:** WU0149

Percent Solids: 0.00 **Lab Sample ID:** WU0149-011

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	DF	Adjusted PQL	Adjusted IDL
7440-38-2	ARSENIC, SPLP	2.13	U		P	1	8.0	2.13
7440-50-8	COPPER, SPLP	82.3			P	1	25	1.14

Color Before: N/A Clarity Before: N/A

Color After: N/A Clarity After: N/A

Comments:

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services **Client Field ID:** MPT-45-C4-2'

Matrix: WATER **SDG Name:** WU0149

Percent Solids: 0.00 **Lab Sample ID:** WU0149-012

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	DF	Adjusted PQL	Adjusted IDL
7440-38-2	ARSENIC, SPLP	2.2	B		P	1	8.0	2.13
7440-50-8	COPPER, SPLP	110			P	1	25	1.14

Color Before: N/A Clarity Before: N/A

Color After: N/A Clarity After: N/A

Comments:

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services **Client Field ID:** MPT-45-D3-2'

Matrix: WATER **SDG Name:** WU0149

Percent Solids: 0.00 **Lab Sample ID:** WU0149-013

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	DF	Adjusted PQL	Adjusted IDL
7440-38-2	ARSENIC, SPLP	2.13	U		P	1	8.0	2.13
7440-50-8	COPPER, SPLP	62.4			P	1	25	1.14

Color Before: N/A Clarity Before: N/A

Color After: N/A Clarity After: N/A

Comments:

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services **Client Field ID:** MPT-45-E4-2'

Matrix: WATER **SDG Name:** WU0149

Percent Solids: 0.00 **Lab Sample ID:** WU0149-014

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	DF	Adjusted PQL	Adjusted IDL
7440-38-2	ARSENIC, SPLP	3.8	B		P	1	8.0	2.13
7440-50-8	COPPER, SPLP	192			P	1	25	1.14

Color Before: N/A Clarity Before: N/A

Color After: N/A Clarity After: N/A

Comments:

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services **Client Field ID:** MPT-45-E4-5'

Matrix: WATER **SDG Name:** WU0149

Percent Solids: 0.00 **Lab Sample ID:** WU0149-015

Concentration Units : ug/L

CAS No.	Analyte	Concentration	C	Q	M	DF	Adjusted PQL	Adjusted IDL
7440-38-2	ARSENIC, SPLP	6.5	B		P	1	8.0	2.13
7440-50-8	COPPER, SPLP	19.4	B		P	1	25	1.14

Color Before: N/A Clarity Before: N/A

Color After: N/A Clarity After: N/A

Comments:

APPENDIX C

SUPPORT DOCUMENTATION

HOLDTIME

SDG WU0149

SORT	UNITS	NSAMPLE	LAB_ID	QC_TYPE	SAMP_DATE	EXTR_DATE	ANAL_DATE	SMP_EXTR	EXTR_ANL	SMP_ANL
M	UG/L	MPT-45-C3-2'	WU0149-011	NM	01/05/2004	01/22/2004	01/23/2004	17	1	18
M	UG/L	MPT-45-A1-2'	WU0149-001	NM	01/05/2004	01/22/2004	01/23/2004	17	1	18
M	UG/L	MPT-45-E4-5'	WU0149-015	NM	01/05/2004	01/22/2004	01/23/2004	17	1	18
M	UG/L	MPT-45-E4-2'	WU0149-014	NM	01/05/2004	01/22/2004	01/23/2004	17	1	18
M	UG/L	MPT-45-C4-2'	WU0149-012	NM	01/05/2004	01/22/2004	01/23/2004	17	1	18
M	UG/L	MPT-45-C2-2'	WU0149-010	NM	01/05/2004	01/22/2004	01/23/2004	17	1	18
M	UG/L	MPT-45-C1-2'	WU0149-009	NM	01/05/2004	01/22/2004	01/23/2004	17	1	18
M	UG/L	MPT-45-B4-2'	WU0149-008R	NM	01/05/2004	01/23/2004	01/26/2004	18	3	21
M	UG/L	MPT-45-B3-2'	WU0149-007	NM	01/05/2004	01/22/2004	01/23/2004	17	1	18
M	UG/L	MPT-45-B2-2'	WU0149-006	NM	01/05/2004	01/22/2004	01/23/2004	17	1	18
M	UG/L	MPT-45-B1-2'	WU0149-005	NM	01/05/2004	01/22/2004	01/23/2004	17	1	18
M	UG/L	MPT-45-A3-2'	WU0149-003	NM	01/05/2004	01/22/2004	01/23/2004	17	1	18
M	UG/L	MPT-45-A2-2'	WU0149-002	NM	01/05/2004	01/22/2004	01/23/2004	17	1	18
M	UG/L	MPT-45-D3-2'	WU0149-013	NM	01/05/2004	01/22/2004	01/23/2004	17	1	18
OS	%	MPT-45-D3-2'	WU0149-13	NM	01/05/2004	01/21/2004	02/19/2004	16	29	45

SORT	UNITS	NSAMPLE	LAB_ID	QC_TYPE	SAMP_DATE	EXTR_DATE	ANAL_DATE	SMP_EXTR	EXTR_ANL	SMP_ANL
OS	%	MPT-45-C4-2'	WU0149-12	NM	01/05/2004	01/21/2004	02/19/2004	16	29	45
OS	%	MPT-45-A2-2'	WU0149-2	NM	01/05/2004	01/21/2004	02/19/2004	16	29	45
OS	%	MPT-45-B1-2'	WU0149-5	NM	01/05/2004	01/21/2004	02/19/2004	16	29	45
OS	%	MPT-45-B2-2'	WU0149-6	NM	01/05/2004	01/21/2004	02/19/2004	16	29	45
OS	%	MPT-45-C1-2'	WU0149-9	NM	01/05/2004	01/21/2004	02/19/2004	16	29	45
OS	%	MPT-45-C2-2'	WU0149-10	NM	01/05/2004	01/21/2004	02/19/2004	16	29	45
OS	%	MPT-45-C3-2'	WU0149-11	NM	01/05/2004	01/21/2004	02/19/2004	16	29	45
OS	UG/L	MPT-45-A2-2'	WU0149-2	NM	01/05/2004	01/21/2004	02/19/2004	16	29	45
OS	UG/L	MPT-45-B1-2'	WU0149-5	NM	01/05/2004	01/21/2004	02/19/2004	16	29	45
OS	UG/L	MPT-45-B2-2'	WU0149-6	NM	01/05/2004	01/21/2004	02/19/2004	16	29	45
OS	UG/L	MPT-45-C1-2'	WU0149-9	NM	01/05/2004	01/21/2004	02/19/2004	16	29	45
OS	UG/L	MPT-45-C2-2'	WU0149-10	NM	01/05/2004	01/21/2004	02/19/2004	16	29	45
OS	UG/L	MPT-45-C3-2'	WU0149-11	NM	01/05/2004	01/21/2004	02/19/2004	16	29	45
OS	UG/L	MPT-45-C4-2'	WU0149-12	NM	01/05/2004	01/21/2004	02/19/2004	16	29	45
OS	UG/L	MPT-45-D3-2'	WU0149-13	NM	01/05/2004	01/21/2004	02/19/2004	16	29	45
PEST	%	MPT-45-A1-2'	WU0149-1	NM	01/05/2004	01/21/2004	01/27/2004	16	6	22
PEST	%	MPT-45-A2-2'	WU0149-2	NM	01/05/2004	01/21/2004	01/27/2004	16	6	22
PEST	UG/L	MPT-45-A2-2'	WU0149-2	NM	01/05/2004	01/21/2004	01/27/2004	16	6	22

SORT	UNITS	NSAMPLE	LAB_ID	QC_TYPE	SAMP_DATE	EXTR_DATE	ANAL_DATE	SMP_EXTR	EXTR_ANL	SMP_ANL
PEST	UG/L	MPT-45-A1-2'	WU0149-1	NM	01/05/2004	01/21/2004	01/27/2004	16	6	22
TPH	%	MPT-45-A4-2^	WU0149-4	NM	01/05/2004	01/21/2004	02/12/2004	16	22	38
TPH	%	MPT-45-B1-2'	WU0149-5	NM	01/05/2004	01/21/2004	02/12/2004	16	22	38
TPH	%	MPT-45-B3-2'	WU0149-7	NM	01/05/2004	01/21/2004	02/12/2004	16	22	38
TPH	%	MPT-45-D3-2'	WU0149-13	NM	01/05/2004	01/21/2004	02/12/2004	16	22	38
TPH	UG/L	MPT-45-D3-2'	WU0149-13	NM	01/05/2004	01/21/2004	02/12/2004	16	22	38
TPH	UG/L	MPT-45-A4-2^	WU0149-4	NM	01/05/2004	01/21/2004	02/12/2004	16	22	38
TPH	UG/L	MPT-45-B1-2'	WU0149-5	NM	01/05/2004	01/21/2004	02/12/2004	16	22	38
TPH	UG/L	MPT-45-B3-2'	WU0149-7	NM	01/05/2004	01/21/2004	02/12/2004	16	22	38

TETRA TECH NUS, INC. | CHAIN OF CUSTODY | NUMBER 11223 | PAGE 1 OF 2

PROJECT NO: N0123 (CTO 91)	FACILITY: NS Mayport	PROJECT MANAGER Terry Hansen	PHONE NUMBER	LABORATORY NAME AND CONTACT: Katahdin / Andrea Colby
SAMPLERS (SIGNATURE) Charles MeTz		FIELD OPERATIONS LEADER Charles MeTz	PHONE NUMBER 904-636-6125	ADDRESS 340 County Rd #5
		CARRIER/WAYBILL NUMBER		CITY, STATE Westbrook, ME 04092

STANDARD TAT ☐
RUSH TAT ☑
☐ 24 hr. ☐ 48 hr. ☐ 72 hr. ☐ 7 day ☐ 14 day

DATE (YEAR 2003)	TIME	SAMPLE ID	LOCATION ID	TOP DEPTH (FT)	BOTTOM DEPTH (FT)	MATRIX (GW, SO, SW, SD, QC, ETC.)	COLLECTION METHOD GRAB (G) COMP (C)	No. OF CONTAINERS	CONTAINER TYPE PLASTIC (P) or GLASS (G)	PRESERVATIVE USED	TYPE OF ANALYSIS All Analysis *	COMMENTS
									G			
1-5	1400	MPT-45-A1-2' ✓		1	2	SO	C	1	1		1 ✓	
	1352	MPT-45-A2-2' ✓					C	1	1		1 ✓	
	1345	MPT-45-A3-2' ✓					C	1	1		1 ✓	
	1300	MPT-45-A4-2'					C	1	1		1	
	1426	MPT-45-B1-2' ✓					C	1	1		1 ✓	Cool 4°C
	1418	MPT-45-B2-2' ✓					C	1	1		1 ✓	
	1410	MPT-45-B3-2' ✓					C	1	1		1 ✓	* (TCL Semivolatile, Pesticide, PAH, PCB, TRPH, SPLP, TAL Metals, and Cyanide.)
	1255	MPT-45-B4-2' ✓					C	1	1		1 ✓	
	1503	MPT-45-C1-2' ✓					C	1	1		1 ✓	
	1458	MPT-45-C2-2' ✓					C	1	1		1 ✓	
	1449	MPT-45-C3-2' ✓					C	1	1		1 ✓	
	1240	MPT-45-C4-2' ✓					C	1	1		1 ✓	# WR410(55)
↓	1524	MPT-45-D3-2' ✓		↓	↓	↓	C	1	1		1 ✓	

1. RELINQUISHED BY Charles MeTz	DATE 1-8-04	TIME 1850	1. RECEIVED BY	DATE	TIME
2. RELINQUISHED BY	DATE	TIME	2. RECEIVED BY	DATE	TIME
3. RELINQUISHED BY	DATE	TIME	3. RECEIVED BY	DATE	TIME

COMMENTS

DISTRIBUTION: WHITE (ACCOMPANIES SAMPLE) YELLOW (FIELD COPY) PINK (FILE COPY)

4/02R
FORM NO. TtNUS-001

TETRA TECH NUS, INC. | CHAIN OF CUSTODY | NUMBER 11223 | PAGE 2 OF 2

PROJECT NO: N0123 (CTO 091)	FACILITY: NS Maypoint	PROJECT MANAGER Telly Hansen	PHONE NUMBER	LABORATORY NAME AND CONTACT: Katahdin / Andrea Colby
SAMPLERS (SIGNATURE) Charles Metz		FIELD OPERATIONS LEADER Charles Metz	PHONE NUMBER 904-836-6125	ADDRESS 340 County Rd #5
		CARRIER/WAYBILL NUMBER 7905-1407-8163 7905-1407-8141		CITY, STATE Westbrook Me 04092

STANDARD TAT ☐
RUSH TAT ☑
☐ 24 hr. ☐ 48 hr. ☐ 72 hr. ☐ 7 day ☐ 14 day

DATE YEAR 2003	TIME	SAMPLE ID	LOCATION ID	TOP DEPTH (FT)	BOTTOM DEPTH (FT)	MATRIX (GW, SO, SW, SD, QC, ETC.)	COLLECTION METHOD GRAP (G) COMP (C)	No. OF CONTAINERS	CONTAINER TYPE PLASTIC (P) or GLASS (G): G	PRESERVATIVE USED: —	TYPE OF ANALYSIS: All Analysis *	COMMENTS
1-5	1514	MPT-45-D4-2'		1	2	SO	C	1	1			
1-5	1200	MPT-45-E4-2' ✓		1	2	SO	C	1	1 ✓			
1-5	1220	MPT-45-E4-5' ✓		4	5	SO	C	1	1 ✓			
												Cool 4°C
												* TCL Semivolatile, Pesticide, PAH, PCB, TRPH, SPLP, TAL Metals, and Cyanide
												# WRH10(SS)

2 Coolers

1. RELINQUISHED BY Charles Metz	DATE 1-8-04	TIME 1850	1. RECEIVED BY	DATE	TIME
2. RELINQUISHED BY	DATE	TIME	2. RECEIVED BY	DATE	TIME
3. RELINQUISHED BY	DATE	TIME	3. RECEIVED BY	DATE	TIME

COMMENTS

DISTRIBUTION: WHITE (ACCOMPANIES SAMPLE) YELLOW (FIELD COPY) PINK (FILE COPY)

4/02R
FORM NO. TtNUS-001

SDG NARRATIVE
KATAHDIN ANALYTICAL SERVICES
TETRA TECH NUS
CASE NS MAYPORT
TASK ORDER MANAGER: TERRY HANSEN
WU0149

Sample Receipt

The following samples were received on January 9, 2004 and were logged in under Katahdin Analytical Services work order number WU0149 for a hardcopy due date of February 13, 2004.

KATAHDIN Sample No.	TTNUS Sample Identification
WU0149-1	MPT-45-A1-2'
WU0149-2	MPT-45-A2-2'
WU0149-3	MPT-45-A3-2'
WU0149-4	MPT-45-A4-2'
WU0149-5	MPT-45-B1-2'
WU0149-6	MPT-45-B2-2'
WU0149-7	MPT-45-B3-2'
WU0149-8	MPT-45-B4-2'
WU0149-9	MPT-45-C1-2'
WU0149-10	MPT-45-C2-2'
WU0149-11	MPT-45-C3-2'
WU0149-12	MPT-45-C4-2'
WU0149-13	MPT-45-D3-2'
WU0149-14	MPT-45-E4-2'
WU0149-15	MPT-45-E4-5'

The samples were logged in for the analyses specified on the chain of custody form. All problems encountered and resolved during sample receipt have been documented on the applicable chain of custody forms.

Sample analyses have been performed by the methods as noted herein.

Should you have any questions or comments concerning this Report of Analysis, please do not hesitate to contact your Katahdin Analytical Services Project Manager, **Andrea J. Colby**. This narrative is an integral part of the Report of Analysis.

Organics Analysis

The samples of Work Order WU0149 were analyzed in accordance with "Test Methods for Evaluating Solid Wastes: Physical/Chemical Methods." SW-846. 2nd edition, 1982 (revised 1984), 3rd edition, 1986, and Updates I, II, IIA, and III 1996, Office of Solid Waste and Emergency Response, U.S. EPA and/or Method for Determination of Petroleum Range Organics (Method #FL-PRO), Florida Department of Environmental Protection, November 1, 1995 for the

specific methods listed below or on the Report of Analysis. Some manual integrations may have been performed due to split peaks and/or corrected baselines. All have been flagged with a "M" (software-generated) on the pertinent quantitation report.

SPLP-8270C SIM Analysis:

There were no protocol deviations or observations noted by the organic laboratory staff for this analysis.

SPLP-FL-PRO Analysis

Samples WU0149-5 and 13 had recoveries for the surrogate, o-terphenyl that were low and outside of the method acceptance limits but were within the laboratory established acceptance limits. Since the recoveries for the second surrogate were acceptable, the samples were not reextracted.

The calibration verification standard (file CUB2005) had a low response for hydrocarbon C_{40}, which resulted in a %D that was above the method acceptance limit of 25%. Since the method requirement applies to only the PRO range response, which was acceptable, the associated samples were not reanalyzed.

SPLP-8081 Analysis

The closing CV standard (file 8UA4152) had a high response for methoxychlor on channel B, which resulted in a %D that was outside of the method acceptance limits of 15%. Since the responses for all of the target analytes and surrogates were acceptable on one channel, the associated samples were not reanalyzed.

There were no other protocol deviations or observations noted by the organics laboratory staff.

Metals Analysis

The samples of Katahdin Work Order WU0149 were prepared and analyzed for metals in accordance with the "Test Methods for Evaluating Aqueous Waste", SW-846, November 1986, Third Edition.

SPLP Extraction (EPA Method 1312)

Katahdin Sample Nos. WU0149-(1-3, 5-15) is a SPLP extract of a solid sample. The extraction dates and the associated SPLP fluid blank identification number for this sample are summarized in the following table.

Katahdin Sample Numbers	SPLP Extraction Start Date	Extraction Finish/Filter Date	Associated SPLP Fluid Blank ID
WU0149-(1-3, 5-15)	01/13/04	01/14/04	PBP608A

Inductively-Coupled Plasma (ICP) Atomic Emission Spectroscopic Analysis

Aqueous-matrix Katahdin Sample Nos. WU0149-(1-3, 5-15) were digested for ICP analysis on 01/22/04 (QC Batch UA22ICW0) in accordance with USEPA Method 3010A. Sample No. WU0149-8 was spilt during digestion. For this reason, the sample was redigested for analysis on 01/23/04 (QC Batch UA23ICW0). Redigestates are identified throughout the raw data by the suffixes "R" or "X" appended to the Katahdin sample number, e.g. "WU0149-008R".

ICP analyses of Katahdin Work Order WU0149 sample digestates were performed in accordance with USEPA Method 6010B, using a Thermo Jarrell Ash (TJA) Trace ICP spectrometer. All samples were analyzed within holding times and all QC criteria were met, with the following comments or exceptions:

Some of the results for analytical run QC samples (ICV, ICB, CCV, CCB, ICSA, and ICSAB) included in the accompanying data package may have exceeded acceptance limits for some elements. Please note that all client samples and batch QC samples associated with out-of-control results for run QC samples were subsequently reanalyzed for the analytes in question.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package has been authorized by the Operations Manager or the Quality Assurance Officer as verified by the following signature.

María Crouch
02.20.04
María Crouch
Quality Assurance Officer

COVER PAGE - INORGANIC ANALYSES DATA PACKAGE

Lab Name: Katahdin Analytical Services

SDG Name: WU0149 **SOW No.** SW846

Client Field ID	Lab Sample ID
MPT-45-A1-2'	WU0149-001
MPT-45-A2-2'	WU0149-002
MPT-45-A3-2'	WU0149-003
MPT-45-B1-2'	WU0149-005
MPT-45-B2-2'	WU0149-006
MPT-45-B3-2'	WU0149-007
MPT-45-B4-2'	WU0149-008
MPT-45-C1-2'	WU0149-009
MPT-45-C2-2'	WU0149-010
MPT-45-C3-2'	WU0149-011
MPT-45-C4-2'	WU0149-012
MPT-45-D3-2'	WU0149-013
MPT-45-E4-2'	WU0149-014
MPT-45-E4-5'	WU0149-015

Were ICP interelement corrections applied ?	Yes
Were ICP background corrections applied ?	Yes
If yes - were raw data generated before application of background corrections ?	No

Comments:

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on floppy diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: Molly Tabbicorde Name: Molly Tabbicorde

Date: 2-12-04 Title: Chemist

3P

PREPARATION BLANKS

Lab Name: Katahdin Analytical Services **Sample ID:** PBWUA22ICW0

Matrix: WATER **SDG Name:** WU0149

QC Batch ID: UA22ICW0

Concentration Units : ug/L

Analyte	RESULT	C
ARSENIC	2.130	U
COPPER	-2.610	B

3P

PREPARATION BLANKS

Lab Name: Katahdin Analytical Services **Sample ID:** PBWUA23ICW0

Matrix: WATER **SDG Name:** WU0149

QC Batch ID: UA23ICW0

Concentration Units : ug/L

Analyte	RESULT	C
ARSENIC	2.130	U
COPPER	-4.170	B

3A

INITIAL AND CONTINUING CALIBRATION BLANKS

Lab Name: Katahdin Analytical Services **SDG Name:** WU0149

Concentration Units: ug/L

SAMPLE: ICB

File: AUA23A Jan 23, 2004 10:07

Analyte	Result	C
ALUMINUM	29.20	U
ARSENIC	2.13	U
CALCIUM	12.40	U
COPPER	1.14	U
IRON	13.90	U
MAGNESIUM	5.65	U

SAMPLE: CCB

File: AUA23A Jan 23, 2004 10:47

Analyte	Result	C
ALUMINUM	29.20	U
ARSENIC	2.13	U
CALCIUM	20.12	B
COPPER	1.14	U
IRON	13.90	U
MAGNESIUM	17.60	B

SAMPLE: CCB

File: AUA23A Jan 23, 2004 12:07

Analyte	Result	C
ALUMINUM	29.20	U
ARSENIC	2.13	U
CALCIUM	13.82	B
COPPER	1.14	U
IRON	13.90	U
MAGNESIUM	6.14	B

3A

INITIAL AND CONTINUING CALIBRATION BLANKS

Lab Name: Katahdin Analytical Services **SDG Name:** WU0149

Concentration Units: ug/L

SAMPLE: CCB

File: AUA23A Jan 23, 2004 13:27

Analyte	Result	C
ALUMINUM	29.20	U
ARSENIC	2.13	U
CALCIUM	12.40	U
COPPER	1.14	U
IRON	13.90	U
MAGNESIUM	5.65	U

SAMPLE: CCB

File: AUA23A Jan 23, 2004 14:50

Analyte	Result	C
ALUMINUM	29.20	U
ARSENIC	2.13	U
CALCIUM	12.40	U
COPPER	1.14	U
IRON	13.90	U
MAGNESIUM	10.41	B

SAMPLE: CCB

File: AUA23A Jan 23, 2004 16:11

Analyte	Result	C
ALUMINUM	29.20	U
ARSENIC	2.13	U
CALCIUM	12.40	U
COPPER	1.14	U
IRON	13.90	U
MAGNESIUM	5.65	U

3A

INITIAL AND CONTINUING CALIBRATION BLANKS

Lab Name: Katahdin Analytical Services **SDG Name:** WU0149

Concentration Units: ug/L

SAMPLE: CCB

File: AUA23A Jan 23, 2004 17:31

Analyte	Result	C
ALUMINUM	33.22	B
ARSENIC	2.13	U
CALCIUM	12.40	U
COPPER	-1.57	B
IRON	13.90	U
MAGNESIUM	5.65	U

SAMPLE: CCB

File: AUA23A Jan 23, 2004 18:51

Analyte	Result	C
ALUMINUM	78.28	B
ARSENIC	2.13	U
CALCIUM	12.40	U
COPPER	-1.61	B
IRON	13.90	U
MAGNESIUM	5.65	U

SAMPLE: CCB

File: AUA23A Jan 23, 2004 20:12

Analyte	Result	C
ALUMINUM	117.08	B
ARSENIC	2.13	U
CALCIUM	-20.80	B
COPPER	-2.38	B
IRON	13.90	U
MAGNESIUM	5.65	U

3A

INITIAL AND CONTINUING CALIBRATION BLANKS

Lab Name: Katahdin Analytical Services **SDG Name:** WU0149

Concentration Units: ug/L

SAMPLE: ICB

File: AUA26A Jan 26, 2004 9:53

Analyte	Result	C
ALUMINUM	29.20	U
ARSENIC	2.13	U
CALCIUM	12.40	U
COPPER	1.14	U
IRON	13.90	U
MAGNESIUM	5.65	U

SAMPLE: CCB

File: AUA26A Jan 26, 2004 10:33

Analyte	Result	C
ALUMINUM	29.20	U
ARSENIC	2.13	U
CALCIUM	16.07	B
COPPER	1.14	U
IRON	13.90	U
MAGNESIUM	16.65	B

SAMPLE: CCB

File: AUA26A Jan 26, 2004 11:53

Analyte	Result	C
ALUMINUM	29.20	U
ARSENIC	2.13	U
CALCIUM	12.40	U
COPPER	1.14	U
IRON	13.90	U
MAGNESIUM	12.09	B

INITIAL AND CONTINUING CALIBRATION BLANKS

Lab Name: Katahdin Analytical Services **SDG Name:** WU0149

Concentration Units: ug/L

SAMPLE: CCB

File: AUA26A Jan 26, 2004 13:18

Analyte	Result	C
ALUMINUM	29.20	U
ARSENIC	-2.14	B
CALCIUM	12.40	U
COPPER	1.14	U
IRON	13.90	U
MAGNESIUM	8.72	B

SAMPLE: CCB

File: AUA26A Jan 26, 2004 14:40

Analyte	Result	C
ALUMINUM	29.20	U
ARSENIC	2.13	U
CALCIUM	12.40	U
COPPER	-1.57	B
IRON	13.90	U
MAGNESIUM	5.65	U

INSTRUMENT DETECTION LIMITS

Lab Name: Katahdin Analytical Services **Instrument Code:** A

Instrument Name: TJA TRACE ICP **Date:** 7/23/03

Concentration Units: ug/L

Analyte	CRDL	IDL	M
ARSENIC	8.0	2.13	P
COPPER	25	1.14	P

ICP LINEAR RANGES

Lab Name: Katahdin Analytical Services **Instrument Code:** A

Instrument Name: TJA TRACE ICP **Date:** 1/17/03

Concentration Units: ug/L

Analyte	Integration Time (sec)	Linear Range	M
ALUMINUM	15.00	500000	P
ARSENIC	15.00	10000	P
CALCIUM	15.00	500000	P
COPPER	15.00	10000	P
IRON	15.00	250000	P
MAGNESIUM	15.00	500000	P

PREPARATION LOG

Lab Name: Katahdin Analytical Services **QC Batch ID:** UA22ICW0

Matrix: WATER **SDG Name:** WU0149

Method: P **Prep Date:** 01/22/2004

Client ID	Lab Sample ID	Initial (L)	Final (L)
LCSWUA22ICW0	LCSWUA22ICW0	0.05	0.05
PBWUA22ICW0	PBWUA22ICW0	0.05	0.05
MPT-45-A1-2'	WU0149-001	0.05	0.05
MPT-45-A2-2'	WU0149-002	0.05	0.05
MPT-45-A3-2'	WU0149-003	0.05	0.05
MPT-45-B1-2'	WU0149-005	0.05	0.05
MPT-45-B2-2'	WU0149-006	0.05	0.05
MPT-45-B3-2'	WU0149-007	0.05	0.05
MPT-45-B4-2'	WU0149-008	0.05	0.05
MPT-45-C1-2'	WU0149-009	0.05	0.05
MPT-45-C2-2'	WU0149-010	0.05	0.05
MPT-45-C3-2'	WU0149-011	0.05	0.05
MPT-45-C4-2'	WU0149-012	0.05	0.05
MPT-45-D3-2'	WU0149-013	0.05	0.05
MPT-45-E4-2'	WU0149-014	0.05	0.05
MPT-45-E4-5'	WU0149-015	0.05	0.05

PREPARATION LOG

Lab Name: Katahdin Analytical Services **QC Batch ID:** UA23ICW0

Matrix: WATER **SDG Name:** WU0149

Method: P **Prep Date:** 01/23/2004

Client ID	Lab Sample ID	Initial (L)	Final (L)
LCSWUA23ICW0	LCSWUA23ICW0	0.05	0.05
PBWUA23ICW0	PBWUA23ICW0	0.05	0.05
MPT-45-B4-2'	WU0149-008R	0.05	0.05

ANALYSIS RUN LOG

Lab Name: Katahdin Analytical Services **SDG Name:** WU0149

Instrument ID: TJA TRACE ICP **File Name:** AUA23A

Date: 1/23/04 **Method:** P

Lab Sample ID	Client ID	D.F.	Time	Elements				
S0		1	9:17	Al	As	Ca	Cu Fe	Mg
S1		1	9:23	Al	As	Ca	Cu Fe	Mg
AL_IEC		1	9:33	Al	As	Ca	Cu Fe	Mg
FE_IEC		1	9:40	Al	As	Ca	Cu Fe	Mg
MN_IEC		1	9:46	Al	As	Ca	Cu Fe	Mg
IEC		1	9:53	Al	As	Ca	Cu Fe	Mg
ICV		1	10:00	Al	As	Ca	Cu Fe	Mg
ICB		1	10:07	Al	As	Ca	Cu Fe	Mg
PQL		1	10:13	Al	As	Ca	Cu Fe	Mg
CRI		1	10:20	Al	As	Ca	Cu Fe	Mg
ICSA		1	10:27	Al	As	Ca	Cu Fe	Mg
ICSAB		1	10:34	Al	As	Ca	Cu Fe	Mg
CCV		1	10:40	Al	As	Ca	Cu Fe	Mg
CCB		1	10:47	Al	As	Ca	Cu Fe	Mg
ZZZZZZ		1	10:54					
ZZZZZZ		1	11:00					
ZZZZZZ		1	11:07					
ZZZZZZ		1	11:14					
PBWUA22ICW0		1	11:20		As		Cu	
LCSWUA22ICW0		1	11:27		As		Cu	
ZZZZZZ		5	11:34					
ZZZZZZ		5	11:40					
ZZZZZZ		2	11:47					
ZZZZZZ		2	11:54					
CCV		1	12:00	Al	As	Ca	Cu Fe	Mg
CCB		1	12:07	Al	As	Ca	Cu Fe	Mg
ZZZZZZ		5	12:14					
ZZZZZZ		5	12:21					
ZZZZZZ		1	12:27					
ZZZZZZ		1	12:34					
ZZZZZZ		1	12:41					
ZZZZZZ		1	12:47					
ZZZZZZ		1	12:54					
ZZZZZZ		1	13:01					
ZZZZZZ		5	13:07					
ZZZZZZ		1	13:14					
CCV		1	13:21	Al	As	Ca	Cu Fe	Mg
CCB		1	13:27	Al	As	Ca	Cu Fe	Mg
ZZZZZZ		1	13:34					
ZZZZZZ		1	13:41					
ZZZZZZ		1	13:48					
ZZZZZZ		1	13:54					
ZZZZZZ		1	14:01					
ZZZZZZ		1	14:08					
ZZZZZZ		1	14:14					
CRI		1	14:21	Al	As	Ca	Cu Fe	Mg
ICSA		1	14:30	Al	As	Ca	Cu Fe	Mg
ICSAB		1	14:37	Al	As	Ca	Cu Fe	Mg
CCV		1	14:44	Al	As	Ca	Cu Fe	Mg
CCB		1	14:50	Al	As	Ca	Cu Fe	Mg

ANALYSIS RUN LOG

Lab Name: Katahdin Analytical Services **SDG Name:** WU0149

Instrument ID: TJA TRACE ICP **File Name:** AUA23A

Date: 1/23/04 **Method:** P

Lab Sample ID	Client ID	D.F.	Time	Elements					
ZZZZZZ		1	14:57						
ZZZZZZ		1	15:04						
ZZZZZZ		1	15:10						
ZZZZZZ		5	15:17						
ZZZZZZ		1	15:24						
ZZZZZZ		1	15:30						
ZZZZZZ		1	15:37						
ZZZZZZ		5	15:44						
ZZZZZZ		1	15:51						
ZZZZZZ		1	15:57						
CCV		1	16:04	Al	As	Ca	Cu	Fe	Mg
CCB		1	16:11	Al	As	Ca	Cu	Fe	Mg
ZZZZZZ		1	16:17						
ZZZZZZ		1	16:24						
ZZZZZZ		1	16:31						
ZZZZZZ		5	16:37						
ZZZZZZ		1	16:44						
ZZZZZZ		1	16:51						
ZZZZZZ		1	16:57						
WU0149-001	MPT-45-A1-2'	1	17:04		As		Cu		
WU0149-002	MPT-45-A2-2'	1	17:11		As		Cu		
WU0149-003	MPT-45-A3-2'	1	17:18		As		Cu		
CCV		1	17:24	Al	As	Ca	Cu	Fe	Mg
CCB		1	17:31	Al	As	Ca	Cu	Fe	Mg
WU0149-005	MPT-45-B1-2'	1	17:38		As		Cu		
WU0149-006	MPT-45-B2-2'	1	17:44		As		Cu		
WU0149-007	MPT-45-B3-2'	1	17:51		As		Cu		
WU0149-009	MPT-45-C1-2'	1	17:58		As		Cu		
WU0149-010	MPT-45-C2-2'	1	18:04		As		Cu		
WU0149-011	MPT-45-C3-2'	1	18:11		As		Cu		
WU0149-012	MPT-45-C4-2'	1	18:18		As		Cu		
WU0149-013	MPT-45-D3-2'	1	18:25		As		Cu		
WU0149-014	MPT-45-E4-2'	1	18:31		As		Cu		
WU0149-015	MPT-45-E4-5'	1	18:38		As		Cu		
CCV		1	18:45	Al	As	Ca	Cu	Fe	Mg
CCB		1	18:51	Al	As	Ca	Cu	Fe	Mg
ZZZZZZ		5	18:58						
ZZZZZZ		2	19:05						
ZZZZZZ		2	19:11						
ZZZZZZ		2	19:18						
ZZZZZZ		2	19:25						
ZZZZZZ		5	19:32						
ZZZZZZ		2	19:38						
CRI		1	19:45	Al	As	Ca	Cu	Fe	Mg
ICSA		1	19:52	Al	As	Ca	Cu	Fe	Mg
ICSAB		1	19:58	Al	As	Ca	Cu	Fe	Mg
CCV		1	20:05	Al	As	Ca	Cu	Fe	Mg
CCB		1	20:12	Al	As	Ca	Cu	Fe	Mg

ANALYSIS RUN LOG

Lab Name: Katahdin Analytical Services **SDG Name:** WU0149

Instrument ID: TJA TRACE ICP **File Name:** AUA26A

Date: 1/26/04 **Method:** P

Lab Sample ID	Client ID	D.F.	Time	Elements					
S0		1	9:03	Al	As	Ca	Cu	Fe	Mg
S1		1	9:09	Al	As	Ca	Cu	Fe	Mg
AL_IEC		1	9:19	Al	As	Ca	Cu	Fe	Mg
FE_IEC		1	9:26	Al	As	Ca	Cu	Fe	Mg
MN_IEC		1	9:32	Al	As	Ca	Cu	Fe	Mg
IEC		1	9:39	Al	As	Ca	Cu	Fe	Mg
ICV		1	9:46	Al	As	Ca	Cu	Fe	Mg
ICB		1	9:53	Al	As	Ca	Cu	Fe	Mg
PQL		1	9:59	Al	As	Ca	Cu	Fe	Mg
CRI		1	10:06	Al	As	Ca	Cu	Fe	Mg
ICSA		1	10:13	Al	As	Ca	Cu	Fe	Mg
ICSAB		1	10:19	Al	As	Ca	Cu	Fe	Mg
CCV		1	10:26	Al	As	Ca	Cu	Fe	Mg
CCB		1	10:33	Al	As	Ca	Cu	Fe	Mg
ZZZZZZ		1	10:40						
ZZZZZZ		5	10:46						
ZZZZZZ		1	10:53						
ZZZZZZ		1	11:00						
ZZZZZZ		1	11:06						
ZZZZZZ		1	11:13						
ZZZZZZ		2	11:20						
ZZZZZZ		5	11:26						
ZZZZZZ		2	11:33						
ZZZZZZ		2	11:40						
CCV		1	11:46	Al	As	Ca	Cu	Fe	Mg
CCB		1	11:53	Al	As	Ca	Cu	Fe	Mg
ZZZZZZ		5	12:00						
ZZZZZZ		2	12:07						
ZZZZZZ		5	12:13						
ZZZZZZ		2	12:20						
ZZZZZZ		10	12:27						
ZZZZZZ		2	12:33						
ZZZZZZ		2	12:40						
ZZZZZZ		2	12:51						
ZZZZZZ		10	12:58						
ZZZZZZ		2	13:04						
CCV		1	13:11	Al	As	Ca	Cu	Fe	Mg
CCB		1	13:18	Al	As	Ca	Cu	Fe	Mg
ZZZZZZ		2	13:24						
ZZZZZZ		2	13:31						
ZZZZZZ		5	13:38						
PBWUA23ICW0		1	13:46		As		Cu		
LCSWUA23ICW0		1	13:53		As		Cu		
WU0149-008R	MPT-45-B4-2'R	1	14:00		As		Cu		
ZZZZZZ		1	14:06						
CRI		1	14:13	Al	As	Ca	Cu	Fe	Mg
ICSA		1	14:20	Al	As	Ca	Cu	Fe	Mg
ICSAB		1	14:26	Al	As	Ca	Cu	Fe	Mg
CCV		1	14:33	Al	As	Ca	Cu	Fe	Mg
CCB		1	14:40	Al	As	Ca	Cu	Fe	Mg

FORM XIV - IN

Tetra Tech NUS **INTERNAL CORRESPONDENCE**

TO: **T. HANSEN** **DATE:** **MARCH 4, 2004**

FROM: **BERNARD F SPADA III** **COPIES:** **DV FILE**

SUBJECT: **ORGANIC DATA VALIDATION- SVOC/PAH/PEST/PCB/TPH**
CTO 091, NS MAYPORT
SDG WU0050

SAMPLES: 16/Soil

MPT-45-A1-2'	MPT-45-A2-2'	MPT-45-A3-2'
MPT-45-A4-2'	MPT-45-B1-2'	MPT-45-B2-2'
MPT-45-B3-2'	MPT-45-B4-2'	MPT-45-C1-2'
MPT-45-C2-2'	MPT-45-C3-2'	MPT-45-C4-2'
MPT-45-D3-2'	MPT-45-D4-2'	MPT-45-E4-2'
MPT-45-E4-5'		

OVERVIEW

The sample set for CTO 091, NS Mayport, SDG WU0050 consists of sixteen (16) environmental soil samples. The samples were analyzed for semivolatile organic compounds (SVOC), polynuclear aromatic hydrocarbons (PAH), pesticides (PEST), polychlorinated biphenyls (PCB), and total petroleum hydrocarbons (TPH).

The samples were collected by Tetra Tech NUS on January 5, 2004 and analyzed by Katahdin Analytical Services. All analyses were conducted in accordance with Naval Facilities Engineering Service Center (NFESC) Quality Assurance/Quality Control (QA/QC) criteria using SW-846 Methods 8270C, 8270 SIM, 8081, 8082, and Florida PRO analytical and reporting protocols. The data contained in this SDG were validated with regard to the following parameters:

	• Data completeness
*	• Holding times
*	• GC/MS Tuning
	• Initial and continuing calibration
	• Blank results
	• Surrogate spike recoveries
	• Internal standard recoveries
	• Blank Spike/Blank Spike Duplicate Results
*	• Compound Quantitation
*	• Compound Identification
*	• Detection Limits

The symbol (*) indicates that all quality control criteria were met for this parameter. Problems affecting data quality are discussed below; documentation supporting these findings is presented in Appendix C. Qualified Analytical results are presented in Appendix A. Results as reported by the laboratory are presented in Appendix B.

Semivolatiles

The initial calibration performed on January 12, 2004 on the GCMS-U instrument exceeded the 30% relative standard deviation (RSD) quality control criteria for 2,4-dinitrophenol and diethylphthalate. Non-

detected results for 2,4-dinitrophenol and diethylphthalate were qualified as estimated (UJ) in all samples except MPT-45-A1-2', MPT-45-A2-2', MPT-45-A3-2', MPT-45-A4-2', and MPT-45-B1-2'. The positive result for diethylphthalate in sample MPT-45-B2-2' was qualified as estimated (U) due to method blank contamination.

The continuing calibration performed on January 15 at 13:18 on the GCMS-U instrument exceeded the 25% difference quality control criteria for phenol, bis(2-chloroethyl)ether, 2,2'-oxybis(1-chloropropane), hexachloroethane, N-niroso-di-n-propylamine, 4-methylphenol, nitrobenzene, isophorone, 2-nitroaniline, 4-nitrophenol, butylbenzylphthalate, and bis(2-ethylhexyl)phthalate. Positive and non-detected results for the aforementioned compounds were qualified as estimated (J and UJ), respectively, in samples MPT-45-C4-2', MPT-45-D3-2', MPT-45-D4-2', and MPT-45-E4-5'. No qualifications were made to samples MPT-45-C3-2' and MPT-45-E4-2' on this basis because the re-analyses of these samples were used for validation and were associated with the following CCAL.

The continuing calibration performed on January 16 at 10:51 on the GCMS-U instrument exceeded the 25% difference quality control criteria for phenol, bis(2-chloroethyl)ether, 2,2'-oxybis(1-chloropropane), N-nitroso-di-n-propylamine, nitrobenzene, isophorone, 2-nitroaniline, 4-nitrophenol, diethylphthalate, butylbenzylphthalate, and bis(2-ethylhexyl)phthalate. No qualifications were made to diethylphthalate in sample MPT-45-B2-2' on this basis because it was qualified for method blank contamination. Positive and non-detected results for the remaining aforementioned compounds were qualified as estimated (J and UJ), respectively, in samples MPT-45-B2-2', MPT-45-B3-2', MPT-45-B4-2', MPT-45-C1-2', MPT-45-C3-2', MPT-45-E4-2', and MPT-45-C2-2'.

The continuing calibration performed on January 15 at 16:24 on the GCMS-X instrument exceeded the 25% difference quality control criteria for 4-methylphenol. Non-detected results for 4-methylphenol were qualified as estimated (UJ) in samples MPT-45-A1-2', MPT-45-A2-2', MPT-45-A3-2', MPT-45-A4-2', and MPT-45-B1-2'.

The following compound was detected in the method blank:

Compound	Maximum Concentration	Blank Action Level
Diethylphthalate	420 µg/kg	4200 µg/kg

Sample aliquot, percent solids, and dilution factors were taken into consideration when applying the blank action levels. All positive results for diethylphthalate was qualified as non-detected (U) due to method blank contamination.

No MS/MSD was analyzed with this fraction. An LCS/LCSD was analyzed, but on a different day than all the associated samples and using a different ICAL. No qualifications were made on this basis.

The following table summarizes the SVOC non-compliant internal standard performances:

Samples	Internal Standard Performances	Validated	Qualifications
MPT-45-C3-2'	3(H), 4(H), 5(H)	N	
MPT-45-C3-2' RE	3(H)	Y	None
MPT-45-D3-2'	4(H)	Y	J
MPT-45-D3-2' RE	1(H), 2(H), 3(H), 4(H), 5(H)	N	

MPT-45-D4-2'	3(H), 4(H), 5(H), 6(H)	N	
MPT-45-D4-2' RE	2(H), 3(H), 4(H)	Y	J
MPT-45-E4-2'	3(H), 4(H), 5(H)	N	
MPT-45-E4-2' RE	2(H), 3(H), 4(H)	Y	None
MPT-45-E4-5'	5(H)	Y	None
MPT-45-E4-5' RE	1(H), 2(H), 3(H), 4(H), 5(H)	N	
MPT-45-B4-2'	1(H), 2(H), 3(H), 4(H), 5(H)	Y	J
MPT-45-B4-2' RE	1(H), 2(H), 3(H), 4(H), 5(H)	N	
MPT-45-C1-2'	1(H), 2(H), 3(H), 4(H), 5(H), 6(H)	N	
MPT-45-C1-2' RE	4(H)	Y	J
MPT-45-C2-2'	3(H), 4(H), 5(H)	Y	J
MPT-45-C2-2' RE	1(H), 2(H), 3(H), 4(H), 5(H)	N	

Internal Standards:
1 – 1,4-Dichlorobenzene-d4
2 – Naphthalene-d8
3 – Acenaphthene-d10
4 – Phenanthrene-d10
5 – Chrysene-d12
6 – Perylene-d12

(L) indicates a low performance.
(H) indicates a high performance.

Only positive results for compounds quantitated using the out of criteria internal standards were qualified as estimated (J) in the aforementioned samples.

PAH

The results for samples MPT-45-D4-2' and MPT-45-E4-2' on the Form Is did not match the EDD. The validator contacted the laboratory to determine which results were correct because the samples were marked as re-analyses on the Form Is. The laboratory informed the validator that the aforementioned samples along with samples MPT-45-D3-2' and MPT-45-E4-5' were originally analyzed beyond 12-hours of the associated instrument tune. The original analyses were not reported and no comment was made in the case narrative. This explains why the aforementioned samples were marked as re-analyses, but no original analysis is reported. The validator was also informed that the results on the Form Is for samples MPT-45-D4-2' and MPT-45-E4-2' were incorrect. The data was re-processed and new Form Is were generated for samples MPT-45-D4-2' and MPT-45-E4-2'. The laboratory re-issued the case narrative with an explanation of this error. No qualifications were made on this basis.

Several results in sample MPT-45-C4-2' greatly exceeded (1500-4300 ug/kg) the linear calibration range of the instrument. The sample was re-analyzed at a 10X dilution. All positive results were below the calibration range of the instrument (8.5-69 ug/kg). The validator contacted the laboratory to determine which results were correct because no explanation was given in the narrative, the result sets were both outside the linear calibration range of the instrument, and were two orders of magnitude different. The laboratory re-analyzed the un-diluted extract within holding time and found that the results were within calibration range. The results were consistent with the diluted analysis. The laboratory could not explain the inital over-range analysis. The validator used the re-analyzed un-diluted anlaysis of sample MPT-45-C4-2' for validation. The laboratory re-issued the case narrative addressing this error. No qualifications were made on this basis.

The following compound was detected in the method blank:

Compound	Maximum Concentration	Blank Action Level
Naphthalene	1.3 µg/kg	6.5 µg/kg

Sample aliquot, percent solids, and dilution factors were taken into consideration when applying the blank action levels. All positive results for naphthalene were qualified as non-detected (U) due to method blank contamination.

The continuing calibration performed on January 19 at 11:28 exceeded the 25% difference quality control criteria for pyrene and indeno(1,2,3-cd)perylene. Positive and non-detected results for the aforementioned compounds were qualified as estimated (J, UJ) in samples MPT-45-A3-2', MPT-45-A4-2', MPT-45-B1-2', and MPT-45-D3-2'.

All surrogates were diluted out of samples MPT-45-B1-2', MPT-45-D3-2', and MPT-45-C4-2'. No qualifications were made on this basis because the samples were analyzed at 20X, 100X, and 10X dilutions respectively. The surrogates in the un-diluted samples were recovered within QC criteria.

Internal standard 6 (perylene-d12) exceeded the +100% recovery quality control criteria in the diluted samples MPT-45-B2-2', MPT-45-C1-2', MPT-45-C2-2', and MPT-45-C3-2'. Internal standard 5 (chrysene-d12) also exceeded the +100% recovery quality control criteria in the diluted samples MPT-45-B2-2' and MPT-45-C1-2'. Positive results for compounds quantitated using the out of criteria internal standards were qualified as estimated (J) in the aforementioned samples.

The following table summarizes the remaining PAH non-compliant internal standard performances:

Samples	Internal Standard Performances	Validated	Qualifications
MPT-45-A1-2'	6(H)	Y	J
MPT-45-A1-2' RE	5(H), 6(H)	N	
MPT-45-A3-2'	3(H), 4(H), 5(H), 6(H)	N	
MPT-45-A3-2' RE	5(H), 6(H)	Y	J
MPT-45-A4-2'	3(H), 4(H), 5(H)	N	
MPT-45-A4-2' RE	5(H), 6(H)	Y	J

MPT-45-D3-2'	5(H), 6(H)	Y	None
MPT-45-D4-2'	5(H), 6(H)	Y	J
MPT-45-E4-2'	5(H), 6(H)	Y	J
MPT-45-E4-5'	5(H), 6(H)	Y	J
MPT-45-B1-2'	3(H), 4(H), 5(H)	Y**	J
MPT-45-A2-2'	5(H), 6(H)	Y	J
MPT-45-A2-2' DL	5(H), 6(H)	Y	J Benzo(b)fluoranthene

** Positive results for acenaphthene and fluorene were qualified for internal standards non-compliances in sample MPT-45-B1-2' because they did not require dilution.

Internal Standards:
1 – 1,4-Dichlorobenzene-d4
2 – Naphthalene-d8
3 – Acenaphthene-d10
4 – Phenanthrene-d10
5 – Chrysene-d12
6 – Perylene-d12

(L) indicates a low performance.
(H) indicates a high performance.

Samples MPT-45-A2-2', MPT-45-B1-2', MPT-45-B2-2', MPT-45-C1-2', MPT-45-C2-2', MPT-45-C3-2', MPT-45-C4-2', and MPT-45-D3-2' were re-analyzed at dilutions because the concentration of target analytes exceeded the linear calibration range of the instrument. The results from the diluted analyses were transposed to the un-diluted analyses and used for validation for the over-range analytes.

Pesticide

The continuing calibration analyzed on January 15 at 18:13 exceeded the 15%D quality control criteria for alpha-BHC on the RTX-CLPI column. No action was taken on this basis because the RTX-CLPII column was compliant.

The continuing calibration analyzed on January 16 at 05:31 exceeded the 15%D quality control criteria for alpha-BHC, heptachlor, delta-BHC, and 4,4'-DDE on the CLPI column. No action was taken on this basis because the RTX-CLPII column was compliant.

The continuing calibration analyzed on January 16 at 09:00 exceeded the 15%D quality control criteria for alpha-BHC and delta-BHC on the CLPI column. No action was taken on this basis because the RTX-CLPII column was compliant.

The continuing calibration analyzed on January 16 at 17:09 exceeded the 15%D quality control criteria for alpha-BHC on the CLPI column. No action was taken on this basis because the RTX-CLPII column was compliant.

The surrogate decachlorobiphenyl was below the percent recovery quality control criteria on both columns in sample MPT-45-D4-2'. The sample was not re-analyzed. Non-detected results were qualified as estimated (UJ) in sample MPT-45-D4-2'.

The blank spike / blank spike duplicate recovery of endosulfan II was below the quality control criteria. Non-detected results for endosulfan II were qualified as estimated (UJ) in all samples.

The following table details pesticide % difference between analytical columns non-compliances.

Sample	Compound	% Difference	Qualification
MPT-45-A1-2'	alpha-Chlordane	40.2	J
MPT-45-A2-2'	alpha-Chlordane	38.5	J
MPT-45-A3-2'	alpha-Chlordane	45.3	J
MPT-45-A4-2'	gamma-Chlordane	43.0	J
MPT-45-B4-2'	alpha-Chlordane	41.5	J
MPT-45-C2-2'	4,4'-DDT	42.7	J
MPT-45-C4-2'	4,4'-DDT	31.1	J

PCB

The continuing calibrations analyzed on January 16 at 01:08 and 08:40 exceeded the 15%D quality control criteria for Aroclor 1016 on the RTX-35 column. No action was taken on this basis because the RTX-5 column was compliant.

The surrogate tetrachloro-m-xylene exceeded the percent recovery quality control criteria on the RTX-35 column in the method blank, LCSD, and sample MPT-45-C3-2'. No qualifications were made on this basis because only one surrogate was non-compliant.

The surrogate decachlorobiphenyl was below the percent recovery quality control criteria on both columns in sample MPT-45-D4-2'. Non-detected results were qualified as estimated (UJ) in the sample.

The result for Aroclor 1260 exceeded the 25% difference between analytical columns quality control criteria in sample MPT-45-C2-2'. The result for Aroclor 1260 was qualified as estimated (J) in sample MPT-45-C2-2'.

TPH

Samples MPT-45-A4-2', MPT-45-B1-2', MPT-45-B3-2', and MPT-45-D3-2' were analyzed at 5X, 3X, 3X, and 5X dilutions respectively, because the concentration of TPH exceeded the linear calibration range of the instrument. No qualifications were made on this basis.

The continuing calibration analyzed on January 19 at 20:40 exceeded the 15% difference quality control criteria for TPH. Positive results were qualified as estimated (J) in samples MPT-45-A4-2', MPT-45-B1-2', MPT-45-B3-2', and MPT-45-D3-2'.

The continuing calibration analyzed on January 20 at 10:42 exceeded the 15% difference quality control criteria for TPH. Positive results were qualified as estimated (J) in samples MPT-45-A4-2', MPT-45-B1-2', MPT-45-B3-2', and MPT-45-D3-2'.

The following compound was detected in the method blank:

Compound	Maximum Concentration	Blank Action Level
TPH	4.5 mg/kg	22.5 mg/kg

Sample aliquot, percent solids, and dilution factors were taken into consideration when applying the blank action levels. All positive results for TPH less than the blank action level were qualified as non-detected (U) due to method blank contamination.

Additional Comments

All positive results reported below the reporting limit (RL) were qualified as estimated (J) due to uncertainty near the detection limit.

EXECUTIVE SUMMARY

Laboratory Performance Issues: Qualifications were made based on calibration non-compliances, percent difference between analytical columns, surrogate recovery non-compliances, blank spike recovery non-compliances, internal standard recovery non-compliances, and method blank contamination.

Other Factors Affecting Data Quality: None.

The data for these analyses were reviewed with reference to the EPA Functional Guidelines for Organic Data Validation (10/99) and the NFESC guidelines. The text of this report has been formulated to address only those problem areas affecting data quality.

"I attest that the data referenced herein were validated according to the agreed upon validation criteria as specified in the NFESC guidelines and the Quality Assurance Project Plan (QAPP)."

Bernard F. Spada III

Tetra Tech NUS
Bernard F. Spada III
Chemist/Data Validator

Edward Sedlmeyer/for

TetraTech NUS
Joseph A. Samchuck
Data Validation Quality Assurance Officer

Attachments:

1. Appendix A - Qualified Analytical Results
2. Appendix B - Results as Reported by the Laboratory
3. Appendix C - Support Documentation

APPENDIX A

QUALIFIED ANALYTICAL RESULTS

Qualifier Codes:

A = Lab Blank Contamination
B = Field Blank Contamination
C = Calibration Noncompliance (i.e., % RSDs, %Ds, ICVs, CCVs, RRFs, etc.)
C01 = GC/MS Tuning Noncompliance
D = MS/MSD Recovery Noncompliance
E = LCS/LCSD Recovery Noncompliance
F = Lab Duplicate Imprecision
G = Field Duplicate Imprecision
H = Holding Time Exceedance
I = ICP Serial Dilution Noncompliance
J = GFAA PDS - GFAA MSA's $r < 0.995$
K = ICP Interference - includes ICS % R Noncompliance
L = Instrument Calibration Range Exceedance
M = Sample Preservation Noncompliance
N = Internal Standard Noncompliance
N01 = Internal Standard Recovery Noncompliance Dioxins
N02 = Recovery Standard Noncompliance Dioxins
N03 = Clean-up Standard Noncompliance Dioxins
O = Poor Instrument Performance (i.e., base-time drifting)
P = Uncertainty near detection limit (< 2 x IDL for inorganics and <CRQL for organics)
Q = Other problems (can encompass a number of issues; i.e.chromatography,interferences, etc.)
R = Surrogates Recovery Noncompliance
S = Pesticide/PCB Resolution
T = % Breakdown Noncompliance for DDT and Endrin
U = % Difference between columns/detectors >25% for positive results determined via GC/HPLC
V = Non-linear calibrations; correlation coefficient $r < 0.995$
W = EMPC result
X = Signal to noise response drop
Y = Percent solids <30%
Z = Uncertainty at 2 sigma deviation is less than sample activity

PROJ_NO: 0123

SDG: WU0050 MEDIA: SOIL DATA FRACTION: OS

nsample	MPT-45-A1-2'	nsample	MPT-45-A1-2'	nsample	MPT-45-A2-2'
samp_date	1/5/2004	samp_date	1/5/2004	samp_date	1/5/2004
lab_id	WU0050-1	lab_id	WU0050-1	lab_id	WU0050-2
qc_type	NM	qc_type	NM	qc_type	NM
units	UG/KG	units	UG/KG	units	UG/KG
Pct_Solids	91.2	Pct_Solids	91.2	Pct_Solids	93.0
DUP_OF:		DUP_OF:		DUP_OF:	

Parameter	Result	Val Qual	Qual Code
1,2,4-TRICHLOROBENZENE	360	U	
1,2-DICHLOROBENZENE	360	U	
1,3-DICHLOROBENZENE	360	U	
1,4-DICHLOROBENZENE	360	U	
2,2'-OXYBIS(1-CHLOROPROPANE)	360	U	
2,4,5-TRICHLOROPHENOL	900	U	
2,4,6-TRICHLOROPHENOL	360	U	
2,4-DICHLOROPHENOL	360	U	
2,4-DIMETHYLPHENOL	360	U	
2,4-DINITROPHENOL	900	U	
2,4-DINITROTOLUENE	360	U	
2,6-DINITROTOLUENE	360	U	
2-CHLORONAPHTHALENE	360	U	
2-CHLOROPHENOL	360	U	
2-METHYLPHENOL	360	U	
2-NITROANILINE	900	U	
2-NITROPHENOL	360	U	
3,3'-DICHLOROBENZIDINE	360	U	
3-NITROANILINE	900	U	
4,6-DINITRO-2-METHYLPHENOL	900	U	
4-BROMOPHENYL PHENYL ETHER	360	U	
4-CHLORO-3-METHYLPHENOL	360	U	
4-CHLOROANILINE	360	U	
4-CHLOROPHENYL PHENYL ETHER	360	U	
4-METHYLPHENOL	360	UJ	C
4-NITROANILINE	900	U	
4-NITROPHENOL	900	U	
BIS(2-CHLOROETHOXY)METHANE	360	U	
BIS(2-CHLOROETHYL)ETHER	360	U	
BIS(2-ETHYLHEXYL)PHTHALATE	360	U	
BUTYL BENZYL PHTHALATE	360	U	
CARBAZOLE	360	U	

Parameter	Result	Val Qual	Qual Code
DIBENZOFURAN	360	U	
DIETHYL PHTHALATE	360	U	
DIMETHYL PHTHALATE	360	U	
DI-N-BUTYL PHTHALATE	350	J	P
DI-N-OCTYL PHTHALATE	360	U	
HEXACHLOROBENZENE	360	U	
HEXACHLOROBUTADIENE	360	U	
HEXACHLOROCYCLOPENTADIENE	360	U	
HEXACHLOROETHANE	360	U	
ISOPHORONE	360	U	
NITROBENZENE	360	U	
N-NITROSO-DI-N-PROPYLAMINE	360	U	
N-NITROSODIPHENYLAMINE	360	U	
PENTACHLOROPHENOL	900	U	
PHENOL	360	U	

Parameter	Result	Val Qual	Qual Code
1,2,4-TRICHLOROBENZENE	350	U	
1,2-DICHLOROBENZENE	350	U	
1,3-DICHLOROBENZENE	350	U	
1,4-DICHLOROBENZENE	350	U	
2,2'-OXYBIS(1-CHLOROPROPANE)	350	U	
2,4,5-TRICHLOROPHENOL	880	U	
2,4,6-TRICHLOROPHENOL	350	U	
2,4-DICHLOROPHENOL	350	U	
2,4-DIMETHYLPHENOL	350	U	
2,4-DINITROPHENOL	880	U	
2,4-DINITROTOLUENE	350	U	
2,6-DINITROTOLUENE	350	U	
2-CHLORONAPHTHALENE	350	U	
2-CHLOROPHENOL	350	U	
2-METHYLPHENOL	350	U	
2-NITROANILINE	880	U	
2-NITROPHENOL	350	U	
3,3'-DICHLOROBENZIDINE	350	U	
3-NITROANILINE	880	U	
4,6-DINITRO-2-METHYLPHENOL	880	U	
4-BROMOPHENYL PHENYL ETHER	350	U	
4-CHLORO-3-METHYLPHENOL	350	U	
4-CHLOROANILINE	350	U	
4-CHLOROPHENYL PHENYL ETHER	350	U	
4-METHYLPHENOL	350	UJ	C
4-NITROANILINE	880	U	
4-NITROPHENOL	880	U	
BIS(2-CHLOROETHOXY)METHANE	350	U	
BIS(2-CHLOROETHYL)ETHER	350	U	
BIS(2-ETHYLHEXYL)PHTHALATE	190	J	P
BUTYL BENZYL PHTHALATE	350	U	
CARBAZOLE	350	U	

nsample	MPT-45-A2-2'	nsample	MPT-45-A3-2'	nsample	MPT-45-A3-2'
samp_date	1/5/2004	samp_date	1/5/2004	samp_date	1/5/2004
lab_id	WU0050-2	lab_id	WU0050-3	lab_id	WU0050-3
qc_type	NM	qc_type	NM	qc_type	NM
units	UG/KG	units	UG/KG	units	UG/KG
Pct_Solids	93.0	Pct_Solids	95.4	Pct_Solids	95.4
DUP_OF:		DUP_OF:		DUP_OF:	

Parameter	Result	Val Qual	Qual Code
DIBENZOFURAN	350	U	
DIETHYL PHTHALATE	350	U	
DIMETHYL PHTHALATE	350	U	
DI-N-BUTYL PHTHALATE	360		
DI-N-OCTYL PHTHALATE	350	U	
HEXACHLOROBENZENE	350	U	
HEXACHLOROBUTADIENE	350	U	
HEXACHLOROCYCLOPENTADIENE	350	U	
HEXACHLOROETHANE	350	U	
ISOPHORONE	350	U	
NITROBENZENE	350	U	
N-NITROSO-DI-N-PROPYLAMINE	350	U	
N-NITROSODIPHENYLAMINE	350	U	
PENTACHLOROPHENOL	880	U	
PHENOL	350	U	

Parameter	Result	Val Qual	Qual Code
1,2,4-TRICHLOROBENZENE	340	U	
1,2-DICHLOROBENZENE	340	U	
1,3-DICHLOROBENZENE	340	U	
1,4-DICHLOROBENZENE	340	U	
2,2'-OXYBIS(1-CHLOROPROPANE)	340	U	
2,4,5-TRICHLOROPHENOL	860	U	
2,4,6-TRICHLOROPHENOL	340	U	
2,4-DICHLOROPHENOL	340	U	
2,4-DIMETHYLPHENOL	340	U	
2,4-DINITROPHENOL	860	U	
2,4-DINITROTOLUENE	340	U	
2,6-DINITROTOLUENE	340	U	
2-CHLORONAPHTHALENE	340	U	
2-CHLOROPHENOL	340	U	
2-METHYLPHENOL	340	U	
2-NITROANILINE	860	U	
2-NITROPHENOL	340	U	
3,3'-DICHLOROBENZIDINE	340	U	
3-NITROANILINE	860	U	
4,6-DINITRO-2-METHYLPHENOL	860	U	
4-BROMOPHENYL PHENYL ETHER	340	U	
4-CHLORO-3-METHYLPHENOL	340	U	
4-CHLOROANILINE	340	U	
4-CHLOROPHENYL PHENYL ETHER	340	U	
4-METHYLPHENOL	340	UJ	C
4-NITROANILINE	860	U	
4-NITROPHENOL	860	U	
BIS(2-CHLOROETHOXY)METHANE	340	U	
BIS(2-CHLOROETHYL)ETHER	340	U	
BIS(2-ETHYLHEXYL)PHTHALATE	210	J	P
BUTYL BENZYL PHTHALATE	340	U	
CARBAZOLE	340	U	

Parameter	Result	Val Qual	Qual Code
DIBENZOFURAN	340	U	
DIETHYL PHTHALATE	340	U	
DIMETHYL PHTHALATE	340	U	
DI-N-BUTYL PHTHALATE	360		
DI-N-OCTYL PHTHALATE	340	U	
HEXACHLOROBENZENE	340	U	
HEXACHLOROBUTADIENE	340	U	
HEXACHLOROCYCLOPENTADIENE	340	U	
HEXACHLOROETHANE	340	U	
ISOPHORONE	340	U	
NITROBENZENE	340	U	
N-NITROSO-DI-N-PROPYLAMINE	340	U	
N-NITROSODIPHENYLAMINE	340	U	
PENTACHLOROPHENOL	860	U	
PHENOL	340	U	

PROJ_NO: 0123

SDG: WU0050 MEDIA: SOIL DATA FRACTION: OS

nsample	MPT-45-A4-2'
samp_date	1/5/2004
lab_id	WU0050-4
qc_type	NM
units	UG/KG
Pct_Solids	92.7
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
1,2,4-TRICHLOROBENZENE	360	U	
1,2-DICHLOROBENZENE	360	U	
1,3-DICHLOROBENZENE	360	U	
1,4-DICHLOROBENZENE	360	U	
2,2'-OXYBIS(1-CHLOROPROPANE)	360	U	
2,4,5-TRICHLOROPHENOL	880	U	
2,4,6-TRICHLOROPHENOL	360	U	
2,4-DICHLOROPHENOL	360	U	
2,4-DIMETHYLPHENOL	360	U	
2,4-DINITROPHENOL	880	U	
2,4-DINITROTOLUENE	360	U	
2,6-DINITROTOLUENE	360	U	
2-CHLORONAPHTHALENE	360	U	
2-CHLOROPHENOL	360	U	
2-METHYLPHENOL	360	U	
2-NITROANILINE	880	U	
2-NITROPHENOL	360	U	
3,3'-DICHLOROBENZIDINE	360	U	
3-NITROANILINE	880	U	
4,6-DINITRO-2-METHYLPHENOL	880	U	
4-BROMOPHENYL PHENYL ETHER	360	U	
4-CHLORO-3-METHYLPHENOL	360	U	
4-CHLOROANILINE	360	U	
4-CHLOROPHENYL PHENYL ETHER	360	U	
4-METHYLPHENOL	360	UJ	C
4-NITROANILINE	880	U	
4-NITROPHENOL	880	U	
BIS(2-CHLOROETHOXY)METHANE	360	U	
BIS(2-CHLOROETHYL)ETHER	360	U	
BIS(2-ETHYLHEXYL)PHTHALATE	280	J	P
BUTYL BENZYL PHTHALATE	360	U	
CARBAZOLE	360	U	

nsample	MPT-45-A4-2'
samp_date	1/5/2004
lab_id	WU0050-4
qc_type	NM
units	UG/KG
Pct_Solids	92.7
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
DIBENZOFURAN	360	U	
DIETHYL PHTHALATE	360	U	A
DIMETHYL PHTHALATE	360	U	
DI-N-BUTYL PHTHALATE	440		
DI-N-OCTYL PHTHALATE	360	U	
HEXACHLOROBENZENE	360	U	
HEXACHLOROBUTADIENE	360	U	
HEXACHLOROCYCLOPENTADIENE	360	U	
HEXACHLOROETHANE	360	U	
ISOPHORONE	360	U	
NITROBENZENE	360	U	
N-NITROSO-DI-N-PROPYLAMINE	360	U	
N-NITROSODIPHENYLAMINE	360	U	
PENTACHLOROPHENOL	880	U	
PHENOL	360	U	

nsample	MPT-45-B1-2'
samp_date	1/5/2004
lab_id	WU0050-5
qc_type	NM
units	UG/KG
Pct_Solids	90.8
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
1,2,4-TRICHLOROBENZENE	360	U	
1,2-DICHLOROBENZENE	360	U	
1,3-DICHLOROBENZENE	360	U	
1,4-DICHLOROBENZENE	360	U	
2,2'-OXYBIS(1-CHLOROPROPANE)	360	U	
2,4,5-TRICHLOROPHENOL	900	U	
2,4,6-TRICHLOROPHENOL	360	U	
2,4-DICHLOROPHENOL	360	U	
2,4-DIMETHYLPHENOL	360	U	
2,4-DINITROPHENOL	900	U	
2,4-DINITROTOLUENE	360	U	
2,6-DINITROTOLUENE	360	U	
2-CHLORONAPHTHALENE	360	U	
2-CHLOROPHENOL	360	U	
2-METHYLPHENOL	360	U	
2-NITROANILINE	900	U	
2-NITROPHENOL	360	U	
3,3'-DICHLOROBENZIDINE	360	U	
3-NITROANILINE	900	U	
4,6-DINITRO-2-METHYLPHENOL	900	U	
4-BROMOPHENYL PHENYL ETHER	360	U	
4-CHLORO-3-METHYLPHENOL	360	U	
4-CHLOROANILINE	360	U	
4-CHLOROPHENYL PHENYL ETHER	360	U	
4-METHYLPHENOL	360	UJ	C
4-NITROANILINE	900	U	
4-NITROPHENOL	900	U	
BIS(2-CHLOROETHOXY)METHANE	360	U	
BIS(2-CHLOROETHYL)ETHER	360	U	
BIS(2-ETHYLHEXYL)PHTHALATE	390		
BUTYL BENZYL PHTHALATE	360	U	
CARBAZOLE	170	J	P

PROJ_NO: 0123

SDG: WU0050 MEDIA: SOIL DATA FRACTION: OS

nsample	MPT-45-B1-2'
samp_date	1/5/2004
lab_id	WU0050-5
qc_type	NM
units	UG/KG
Pct_Solids	90.8
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
DIBENZOFURAN	150	J	P
DIETHYL PHTHALATE	360	U	A
DIMETHYL PHTHALATE	360	U	
DI-N-BUTYL PHTHALATE	360	J	P
DI-N-OCTYL PHTHALATE	360	U	
HEXACHLOROBENZENE	360	U	
HEXACHLOROBUTADIENE	360	U	
HEXACHLOROCYCLOPENTADIENE	360	U	
HEXACHLOROETHANE	360	U	
ISOPHORONE	360	U	
NITROBENZENE	360	U	
N-NITROSO-DI-N-PROPYLAMINE	360	U	
N-NITROSODIPHENYLAMINE	360	U	
PENTACHLOROPHENOL	900	U	
PHENOL	360	U	

nsample	MPT-45-B2-2'
samp_date	1/5/2004
lab_id	WU0050-6RA
qc_type	NM
units	UG/KG
Pct_Solids	95.8
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
1,2,4-TRICHLOROBENZENE	340	U	
1,2-DICHLOROBENZENE	340	U	
1,3-DICHLOROBENZENE	340	U	
1,4-DICHLOROBENZENE	340	U	
2,2'-OXYBIS(1-CHLOROPROPANE)	340	UJ	C
2,4,5-TRICHLOROPHENOL	860	U	
2,4,6-TRICHLOROPHENOL	340	U	
2,4-DICHLOROPHENOL	340	U	
2,4-DIMETHYLPHENOL	340	U	
2,4-DINITROPHENOL	860	UJ	C
2,4-DINITROTOLUENE	340	U	
2,6-DINITROTOLUENE	340	U	
2-CHLORONAPHTHALENE	340	U	
2-CHLOROPHENOL	340	U	
2-METHYLPHENOL	340	U	
2-NITROANILINE	860	UJ	C
2-NITROPHENOL	340	U	
3,3'-DICHLOROBENZIDINE	340	U	
3-NITROANILINE	860	U	
4,6-DINITRO-2-METHYLPHENOL	860	U	
4-BROMOPHENYL PHENYL ETHER	340	U	
4-CHLORO-3-METHYLPHENOL	340	U	
4-CHLOROANILINE	340	U	
4-CHLOROPHENYL PHENYL ETHER	340	U	
4-METHYLPHENOL	340	U	
4-NITROANILINE	860	U	
4-NITROPHENOL	860	UJ	C
BIS(2-CHLOROETHOXY)METHANE	340	U	
BIS(2-CHLOROETHYL)ETHER	340	UJ	C
BIS(2-ETHYLHEXYL)PHTHALATE	230	J	CP
BUTYL BENZYL PHTHALATE	340	UJ	C
CARBAZOLE	340	J	P

nsample	MPT-45-B2-2'
samp_date	1/5/2004
lab_id	WU0050-6RA
qc_type	NM
units	UG/KG
Pct_Solids	95.8
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
DIBENZOFURAN	340	U	
DIETHYL PHTHALATE	340	U	A
DIMETHYL PHTHALATE	340	U	
DI-N-BUTYL PHTHALATE	540		
DI-N-OCTYL PHTHALATE	330	J	P
HEXACHLOROBENZENE	340	U	
HEXACHLOROBUTADIENE	340	U	
HEXACHLOROCYCLOPENTADIENE	340	U	
HEXACHLOROETHANE	340	U	
ISOPHORONE	340	UJ	C
NITROBENZENE	340	UJ	C
N-NITROSO-DI-N-PROPYLAMINE	340	UJ	C
N-NITROSODIPHENYLAMINE	340	U	
PENTACHLOROPHENOL	860	U	
PHENOL	340	UJ	C

PROJ_NO: 0123

SDG: WU0050 MEDIA: SOIL DATA FRACTION: OS

nsample	MPT-45-B3-2'
samp_date	1/5/2004
lab_id	WU0050-7
qc_type	NM
units	UG/KG
Pct_Solids	91.4
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
1,2,4-TRICHLOROBENZENE	360	U	
1,2-DICHLOROBENZENE	360	U	
1,3-DICHLOROBENZENE	360	U	
1,4-DICHLOROBENZENE	360	U	
2,2'-OXYBIS(1-CHLOROPROPANE)	360	UJ	C
2,4,5-TRICHLOROPHENOL	900	U	
2,4,6-TRICHLOROPHENOL	360	U	
2,4-DICHLOROPHENOL	360	U	
2,4-DIMETHYLPHENOL	360	U	
2,4-DINITROPHENOL	900	UJ	C
2,4-DINITROTOLUENE	360	U	
2,6-DINITROTOLUENE	360	U	
2-CHLORONAPHTHALENE	360	U	
2-CHLOROPHENOL	360	U	
2-METHYLPHENOL	360	U	
2-NITROANILINE	900	UJ	C
2-NITROPHENOL	360	U	
3,3'-DICHLOROBENZIDINE	360	U	
3-NITROANILINE	900	U	
4,6-DINITRO-2-METHYLPHENOL	900	U	
4-BROMOPHENYL PHENYL ETHER	360	U	
4-CHLORO-3-METHYLPHENOL	360	U	
4-CHLOROANILINE	360	U	
4-CHLOROPHENYL PHENYL ETHER	360	U	
4-METHYLPHENOL	360	U	
4-NITROANILINE	900	U	
4-NITROPHENOL	900	UJ	C
BIS(2-CHLOROETHOXY)METHANE	360	U	
BIS(2-CHLOROETHYL)ETHER	360	UJ	C
BIS(2-ETHYLHEXYL)PHTHALATE	260	J	CP
BUTYL BENZYL PHTHALATE	360	UJ	C
CARBAZOLE	340	J	P

nsample	MPT-45-B3-2'
samp_date	1/5/2004
lab_id	WU0050-7
qc_type	NM
units	UG/KG
Pct_Solids	91.4
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
DIBENZOFURAN	360	U	
DIETHYL PHTHALATE	360	UJ	C
DIMETHYL PHTHALATE	360	U	
DI-N-BUTYL PHTHALATE	930		
DI-N-OCTYL PHTHALATE	340	J	P
HEXACHLOROBENZENE	360	U	
HEXACHLOROBUTADIENE	360	U	
HEXACHLOROCYCLOPENTADIENE	360	U	
HEXACHLOROETHANE	360	U	
ISOPHORONE	360	UJ	C
NITROBENZENE	360	UJ	C
N-NITROSO-DI-N-PROPYLAMINE	360	UJ	C
N-NITROSODIPHENYLAMINE	360	U	
PENTACHLOROPHENOL	900	U	
PHENOL	360	UJ	C

nsample	MPT-45-B4-2'
samp_date	1/5/2004
lab_id	WU0050-8
qc_type	NM
units	UG/KG
Pct_Solids	95.8
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
1,2,4-TRICHLOROBENZENE	340	U	
1,2-DICHLOROBENZENE	340	U	
1,3-DICHLOROBENZENE	340	U	
1,4-DICHLOROBENZENE	340	U	
2,2'-OXYBIS(1-CHLOROPROPANE)	340	UJ	C
2,4,5-TRICHLOROPHENOL	860	U	
2,4,6-TRICHLOROPHENOL	340	U	
2,4-DICHLOROPHENOL	340	U	
2,4-DIMETHYLPHENOL	340	U	
2,4-DINITROPHENOL	860	UJ	C
2,4-DINITROTOLUENE	340	U	
2,6-DINITROTOLUENE	340	U	
2-CHLORONAPHTHALENE	340	U	
2-CHLOROPHENOL	340	U	
2-METHYLPHENOL	340	U	
2-NITROANILINE	860	UJ	C
2-NITROPHENOL	340	U	
3,3'-DICHLOROBENZIDINE	340	U	
3-NITROANILINE	860	U	
4,6-DINITRO-2-METHYLPHENOL	860	U	
4-BROMOPHENYL PHENYL ETHER	340	U	
4-CHLORO-3-METHYLPHENOL	340	U	
4-CHLOROANILINE	340	U	
4-CHLOROPHENYL PHENYL ETHER	340	U	
4-METHYLPHENOL	340	U	
4-NITROANILINE	860	U	
4-NITROPHENOL	860	UJ	C
BIS(2-CHLOROETHOXY)METHANE	340	U	
BIS(2-CHLOROETHYL)ETHER	340	UJ	C
BIS(2-ETHYLHEXYL)PHTHALATE	230	J	CNP
BUTYL BENZYL PHTHALATE	340	UJ	C
CARBAZOLE	320	J	NP

PROJ_NO: 0123

SDG: WU0050 MEDIA: SOIL DATA FRACTION: OS

nsample	MPT-45-B4-2'
samp_date	1/5/2004
lab_id	WU0050-8
qc_type	NM
units	UG/KG
Pct_Solids	95.8
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
DIBENZOFURAN	340	U	
DIETHYL PHTHALATE	340	UJ	C
DIMETHYL PHTHALATE	340	U	
DI-N-BUTYL PHTHALATE	310	J	NP
DI-N-OCTYL PHTHALATE	320	J	P
HEXACHLOROBENZENE	340	U	
HEXACHLOROBUTADIENE	340	U	
HEXACHLOROCYCLOPENTADIENE	340	U	
HEXACHLOROETHANE	340	U	
ISOPHORONE	340	UJ	C
NITROBENZENE	340	UJ	C
N-NITROSO-DI-N-PROPYLAMINE	340	UJ	C
N-NITROSODIPHENYLAMINE	340	U	
PENTACHLOROPHENOL	860	U	
PHENOL	340	UJ	C

nsample	MPT-45-C1-2'
samp_date	1/5/2004
lab_id	WU0050-9RA
qc_type	NM
units	UG/KG
Pct_Solids	96.8
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
1,2,4-TRICHLOROBENZENE	340	U	
1,2-DICHLOROBENZENE	340	U	
1,3-DICHLOROBENZENE	340	U	
1,4-DICHLOROBENZENE	340	U	
2,2'-OXYBIS(1-CHLOROPROPANE)	340	UJ	C
2,4,5-TRICHLOROPHENOL	850	U	
2,4,6-TRICHLOROPHENOL	340	U	
2,4-DICHLOROPHENOL	340	U	
2,4-DIMETHYLPHENOL	340	U	
2,4-DINITROPHENOL	850	UJ	C
2,4-DINITROTOLUENE	340	U	
2,6-DINITROTOLUENE	340	U	
2-CHLORONAPHTHALENE	340	U	
2-CHLOROPHENOL	340	U	
2-METHYLPHENOL	340	U	
2-NITROANILINE	850	UJ	C
2-NITROPHENOL	340	U	
3,3'-DICHLOROBENZIDINE	340	U	
3-NITROANILINE	850	U	
4,6-DINITRO-2-METHYLPHENOL	850	U	
4-BROMOPHENYL PHENYL ETHER	340	U	
4-CHLORO-3-METHYLPHENOL	340	U	
4-CHLOROANILINE	340	U	
4-CHLOROPHENYL PHENYL ETHER	340	U	
4-METHYLPHENOL	340	U	
4-NITROANILINE	850	U	
4-NITROPHENOL	850	UJ	C
BIS(2-CHLOROETHOXY)METHANE	340	U	
BIS(2-CHLOROETHYL)ETHER	340	UJ	C
BIS(2-ETHYLHEXYL)PHTHALATE	340	UJ	C
BUTYL BENZYL PHTHALATE	340	UJ	C
CARBAZOLE	340	U	

nsample	MPT-45-C1-2'
samp_date	1/5/2004
lab_id	WU0050-9RA
qc_type	NM
units	UG/KG
Pct_Solids	96.8
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
DIBENZOFURAN	340	U	
DIETHYL PHTHALATE	340	UJ	C
DIMETHYL PHTHALATE	340	U	
DI-N-BUTYL PHTHALATE	270	J	NP
DI-N-OCTYL PHTHALATE	340	U	
HEXACHLOROBENZENE	340	U	
HEXACHLOROBUTADIENE	340	U	
HEXACHLOROCYCLOPENTADIENE	340	U	
HEXACHLOROETHANE	340	U	
ISOPHORONE	340	UJ	C
NITROBENZENE	340	UJ	C
N-NITROSO-DI-N-PROPYLAMINE	340	UJ	C
N-NITROSODIPHENYLAMINE	340	U	
PENTACHLOROPHENOL	850	U	
PHENOL	340	UJ	C

PROJ_NO: 0123

SDG: WU0050 MEDIA: SOIL DATA FRACTION: OS

nsample	MPT-45-C2-2'
samp_date	1/5/2004
lab_id	WU0050-10
qc_type	NM
units	UG/KG
Pct_Solids	95.8
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
1,2,4-TRICHLOROBENZENE	340	U	
1,2-DICHLOROBENZENE	340	U	
1,3-DICHLOROBENZENE	340	U	
1,4-DICHLOROBENZENE	340	U	
2,2'-OXYBIS(1-CHLOROPROPANE)	340	UJ	C
2,4,5-TRICHLOROPHENOL	860	U	
2,4,6-TRICHLOROPHENOL	340	U	
2,4-DICHLOROPHENOL	340	U	
2,4-DIMETHYLPHENOL	340	U	
2,4-DINITROPHENOL	860	UJ	C
2,4-DINITROTOLUENE	340	U	
2,6-DINITROTOLUENE	340	U	
2-CHLORONAPHTHALENE	340	U	
2-CHLOROPHENOL	340	U	
2-METHYLPHENOL	340	U	
2-NITROANILINE	860	UJ	C
2-NITROPHENOL	340	U	
3,3'-DICHLOROBENZIDINE	340	U	
3-NITROANILINE	860	U	
4,6-DINITRO-2-METHYLPHENOL	860	U	
4-BROMOPHENYL PHENYL ETHER	340	U	
4-CHLORO-3-METHYLPHENOL	340	U	
4-CHLOROANILINE	340	U	
4-CHLOROPHENYL PHENYL ETHER	340	U	
4-METHYLPHENOL	340	U	
4-NITROANILINE	860	U	
4-NITROPHENOL	860	UJ	C
BIS(2-CHLOROETHOXY)METHANE	340	U	
BIS(2-CHLOROETHYL)ETHER	340	UJ	C
BIS(2-ETHYLHEXYL)PHTHALATE	340	UJ	C
BUTYL BENZYL PHTHALATE	340	UJ	C
CARBAZOLE	320	J	NP

nsample	MPT-45-C2-2'
samp_date	1/5/2004
lab_id	WU0050-10
qc_type	NM
units	UG/KG
Pct_Solids	95.8
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
DIBENZOFURAN	340	U	
DIETHYL PHTHALATE	340	UJ	C
DIMETHYL PHTHALATE	340	U	
DI-N-BUTYL PHTHALATE	340	J	NP
DI-N-OCTYL PHTHALATE	320	J	P
HEXACHLOROBENZENE	340	U	
HEXACHLOROBUTADIENE	340	U	
HEXACHLOROCYCLOPENTADIENE	340	U	
HEXACHLOROETHANE	340	U	
ISOPHORONE	340	UJ	C
NITROBENZENE	340	UJ	C
N-NITROSO-DI-N-PROPYLAMINE	340	UJ	C
N-NITROSODIPHENYLAMINE	340	U	
PENTACHLOROPHENOL	860	U	
PHENOL	340	UJ	C

nsample	MPT-45-C3-2'
samp_date	1/5/2004
lab_id	WU0050-11RA
qc_type	NM
units	UG/KG
Pct_Solids	94.9
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
1,2,4-TRICHLOROBENZENE	350	U	
1,2-DICHLOROBENZENE	350	U	
1,3-DICHLOROBENZENE	350	U	
1,4-DICHLOROBENZENE	350	U	
2,2'-OXYBIS(1-CHLOROPROPANE)	350	U	
2,4,5-TRICHLOROPHENOL	860	UJ	C
2,4,6-TRICHLOROPHENOL	350	U	
2,4-DICHLOROPHENOL	350	U	
2,4-DIMETHYLPHENOL	350	U	
2,4-DINITROPHENOL	860	UJ	C
2,4-DINITROTOLUENE	350	U	
2,6-DINITROTOLUENE	350	U	
2-CHLORONAPHTHALENE	350	U	
2-CHLOROPHENOL	350	U	
2-METHYLPHENOL	350	U	
2-NITROANILINE	860	UJ	C
2-NITROPHENOL	350	U	
3,3'-DICHLOROBENZIDINE	350	U	
3-NITROANILINE	860	U	
4,6-DINITRO-2-METHYLPHENOL	860	U	
4-BROMOPHENYL PHENYL ETHER	350	U	
4-CHLORO-3-METHYLPHENOL	350	U	
4-CHLOROANILINE	350	U	
4-CHLOROPHENYL PHENYL ETHER	350	U	
4-METHYLPHENOL	350	U	
4-NITROANILINE	860	U	
4-NITROPHENOL	860	UJ	C
BIS(2-CHLOROETHOXY)METHANE	350	U	
BIS(2-CHLOROETHYL)ETHER	350	UJ	C
BIS(2-ETHYLHEXYL)PHTHALATE	250	J	CP
BUTYL BENZYL PHTHALATE	400	J	C
CARBAZOLE	330	J	P

PROJ_NO: 0123

SDG: WU0050 MEDIA: SOIL DATA FRACTION: OS

nsample	MPT-45-C3-2'
samp_date	1/5/2004
lab_id	WU0050-11RA
qc_type	NM
units	UG/KG
Pct_Solids	94.9
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
DIBENZOFURAN	350	U	
DIETHYL PHTHALATE	350	UJ	C
DIMETHYL PHTHALATE	350	U	
DI-N-BUTYL PHTHALATE	380		
DI-N-OCTYL PHTHALATE	320	J	P
HEXACHLOROBENZENE	350	U	
HEXACHLOROBUTADIENE	350	U	
HEXACHLOROCYCLOPENTADIENE	350	U	
HEXACHLOROETHANE	350	U	
ISOPHORONE	350	UJ	C
NITROBENZENE	350	UJ	C
N-NITROSO-DI-N-PROPYLAMINE	350	UJ	C
N-NITROSODIPHENYLAMINE	350	U	
PENTACHLOROPHENOL	860	U	
PHENOL	350	UJ	C

nsample	MPT-45-C4-2'
samp_date	1/5/2004
lab_id	WU0050-12
qc_type	NM
units	UG/KG
Pct_Solids	96.1
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
1,2,4-TRICHLOROBENZENE	340	U	
1,2-DICHLOROBENZENE	340	U	
1,3-DICHLOROBENZENE	340	U	
1,4-DICHLOROBENZENE	340	U	
2,2'-OXYBIS(1-CHLOROPROPANE)	340	UJ	C
2,4,5-TRICHLOROPHENOL	850	U	
2,4,6-TRICHLOROPHENOL	340	U	
2,4-DICHLOROPHENOL	340	U	
2,4-DIMETHYLPHENOL	340	U	
2,4-DINITROPHENOL	850	UJ	C
2,4-DINITROTOLUENE	340	U	
2,6-DINITROTOLUENE	340	U	
2-CHLORONAPHTHALENE	340	U	
2-CHLOROPHENOL	340	U	
2-METHYLPHENOL	340	U	
2-NITROANILINE	850	UJ	C
2-NITROPHENOL	340	U	
3,3'-DICHLOROBENZIDINE	340	U	
3-NITROANILINE	850	U	
4,6-DINITRO-2-METHYLPHENOL	850	U	
4-BROMOPHENYL PHENYL ETHER	340	U	
4-CHLORO-3-METHYLPHENOL	340	U	
4-CHLOROANILINE	340	U	
4-CHLOROPHENYL PHENYL ETHER	340	U	
4-METHYLPHENOL	340	UJ	C
4-NITROANILINE	850	U	
4-NITROPHENOL	850	UJ	C
BIS(2-CHLOROETHOXY)METHANE	340	U	
BIS(2-CHLOROETHYL)ETHER	340	UJ	C
BIS(2-ETHYLHEXYL)PHTHALATE	340	UJ	C
BUTYL BENZYL PHTHALATE	340	UJ	C
CARBAZOLE	330	J	P

nsample	MPT-45-C4-2'
samp_date	1/5/2004
lab_id	WU0050-12
qc_type	NM
units	UG/KG
Pct_Solids	96.1
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
DIBENZOFURAN	340	U	
DIETHYL PHTHALATE	340	U	
DIMETHYL PHTHALATE	340	U	
DI-N-BUTYL PHTHALATE	280	J	P
DI-N-OCTYL PHTHALATE	310	J	P
HEXACHLOROBENZENE	340	U	
HEXACHLOROBUTADIENE	340	U	
HEXACHLOROCYCLOPENTADIENE	340	U	
HEXACHLOROETHANE	340	UJ	C
ISOPHORONE	340	UJ	C
NITROBENZENE	340	UJ	C
N-NITROSO-DI-N-PROPYLAMINE	340	UJ	C
N-NITROSODIPHENYLAMINE	340	U	
PENTACHLOROPHENOL	850	U	
PHENOL	340	UJ	C

PROJ_NO: 0123

SDG: WU0050 MEDIA: SOIL DATA FRACTION: OS

nsample	MPT-45-D3-2'	nsample	MPT-45-D3-2'	nsample	MPT-45-D4-2'
samp_date	1/5/2004	samp_date	1/5/2004	samp_date	1/5/2004
lab_id	WU0050-13	lab_id	WU0050-13	lab_id	WU0050-14RA
qc_type	NM	qc_type	NM	qc_type	NM
units	UG/KG	units	UG/KG	units	UG/KG
Pct_Solids	93.3	Pct_Solids	93.3	Pct_Solids	86.8
DUP_OF:		DUP_OF:		DUP_OF:	

Parameter	Result	Val Qual	Qual Code
1,2,4-TRICHLOROBENZENE	350	U	
1,2-DICHLOROBENZENE	350	U	
1,3-DICHLOROBENZENE	350	U	
1,4-DICHLOROBENZENE	350	U	
2,2'-OXYBIS(1-CHLOROPROPANE)	350	UJ	C
2,4,5-TRICHLOROPHENOL	880	U	
2,4,6-TRICHLOROPHENOL	350	U	
2,4-DICHLOROPHENOL	350	U	
2,4-DIMETHYLPHENOL	350	U	
2,4-DINITROPHENOL	880	UJ	C
2,4-DINITROTOLUENE	350	U	
2,6-DINITROTOLUENE	350	U	
2-CHLORONAPHTHALENE	350	U	
2-CHLOROPHENOL	350	U	
2-METHYLPHENOL	350	U	
2-NITROANILINE	880	UJ	C
2-NITROPHENOL	350	U	
3,3'-DICHLOROBENZIDINE	350	U	
3-NITROANILINE	880	U	
4,6-DINITRO-2-METHYLPHENOL	880	U	
4-BROMOPHENYL PHENYL ETHER	350	U	
4-CHLORO-3-METHYLPHENOL	350	U	
4-CHLOROANILINE	350	U	
4-CHLOROPHENYL PHENYL ETHER	350	U	
4-METHYLPHENOL	350	UJ	C
4-NITROANILINE	880	U	
4-NITROPHENOL	880	UJ	C
BIS(2-CHLOROETHOXY)METHANE	350	U	
BIS(2-CHLOROETHYL)ETHER	350	UJ	C
BIS(2-ETHYLHEXYL)PHTHALATE	350	UJ	C
BUTYL BENZYL PHTHALATE	350	UJ	C
CARBAZOLE	360	J	N
DIBENZOFURAN	300	J	P
DIETHYL PHTHALATE	350	U	
DIMETHYL PHTHALATE	350	U	
DI-N-BUTYL PHTHALATE	600	J	N
DI-N-OCTYL PHTHALATE	350	U	
HEXACHLOROBENZENE	350	U	
HEXACHLOROBUTADIENE	350	U	
HEXACHLOROCYCLOPENTADIENE	350	U	
HEXACHLOROETHANE	350	UJ	C
ISOPHORONE	350	UJ	C
NITROBENZENE	350	UJ	C
N-NITROSO-DI-N-PROPYLAMINE	350	UJ	C
N-NITROSODIPHENYLAMINE	350	U	
PENTACHLOROPHENOL	880	U	
PHENOL	350	UJ	C
1,2,4-TRICHLOROBENZENE	380	U	
1,2-DICHLOROBENZENE	380	U	
1,3-DICHLOROBENZENE	380	U	
1,4-DICHLOROBENZENE	380	U	
2,2'-OXYBIS(1-CHLOROPROPANE)	380	UJ	C
2,4,5-TRICHLOROPHENOL	940	U	
2,4,6-TRICHLOROPHENOL	380	U	
2,4-DICHLOROPHENOL	380	U	
2,4-DIMETHYLPHENOL	380	U	
2,4-DINITROPHENOL	940	UJ	C
2,4-DINITROTOLUENE	380	U	
2,6-DINITROTOLUENE	380	U	
2-CHLORONAPHTHALENE	380	U	
2-CHLOROPHENOL	380	U	
2-METHYLPHENOL	380	U	
2-NITROANILINE	940	UJ	C
2-NITROPHENOL	380	U	
3,3'-DICHLOROBENZIDINE	380	U	
3-NITROANILINE	940	U	
4,6-DINITRO-2-METHYLPHENOL	940	U	
4-BROMOPHENYL PHENYL ETHER	380	U	
4-CHLORO-3-METHYLPHENOL	380	U	
4-CHLOROANILINE	380	U	
4-CHLOROPHENYL PHENYL ETHER	380	U	
4-METHYLPHENOL	380	UJ	C
4-NITROANILINE	940	U	
4-NITROPHENOL	940	UJ	C
BIS(2-CHLOROETHOXY)METHANE	380	U	
BIS(2-CHLOROETHYL)ETHER	380	UJ	C
BIS(2-ETHYLHEXYL)PHTHALATE	380	UJ	C
BUTYL BENZYL PHTHALATE	380	UJ	C
CARBAZOLE	380	U	

PROJ_NO: 0123

SDG: WU0050 MEDIA: SOIL DATA FRACTION: OS

nsample	MPT-45-D4-2'
samp_date	1/5/2004
lab_id	WU0050-14RA
qc_type	NM
units	UG/KG
Pct_Solids	86.8
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
DIBENZOFURAN	380	U	
DIETHYL PHTHALATE	380	U	
DIMETHYL PHTHALATE	380	U	
DI-N-BUTYL PHTHALATE	250	J	NP
DI-N-OCTYL PHTHALATE	380	U	
HEXACHLOROBENZENE	380	U	
HEXACHLOROBUTADIENE	380	U	
HEXACHLOROCYCLOPENTADIENE	380	U	
HEXACHLOROETHANE	380	UJ	C
ISOPHORONE	380	UJ	C
NITROBENZENE	380	UJ	C
N-NITROSO-DI-N-PROPYLAMINE	380	UJ	C
N-NITROSODIPHENYLAMINE	380	U	
PENTACHLOROPHENOL	940	U	
PHENOL	380	UJ	C

nsample	MPT-45-E4-2'
samp_date	1/5/2004
lab_id	WU0050-15RA
qc_type	NM
units	UG/KG
Pct_Solids	87.5
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
1,2,4-TRICHLOROBENZENE	380	U	
1,2-DICHLOROBENZENE	380	U	
1,3-DICHLOROBENZENE	380	U	
1,4-DICHLOROBENZENE	380	U	
2,2'-OXYBIS(1-CHLOROPROPANE)	380	UJ	C
2,4,5-TRICHLOROPHENOL	940	U	
2,4,6-TRICHLOROPHENOL	380	U	
2,4-DICHLOROPHENOL	380	U	
2,4-DIMETHYLPHENOL	380	U	
2,4-DINITROPHENOL	940	UJ	C
2,4-DINITROTOLUENE	380	U	
2,6-DINITROTOLUENE	380	U	
2-CHLORONAPHTHALENE	380	U	
2-CHLOROPHENOL	380	U	
2-METHYLPHENOL	380	U	
2-NITROANILINE	940	UJ	C
2-NITROPHENOL	380	U	
3,3'-DICHLOROBENZIDINE	380	U	
3-NITROANILINE	940	U	
4,6-DINITRO-2-METHYLPHENOL	940	U	
4-BROMOPHENYL PHENYL ETHER	380	U	
4-CHLORO-3-METHYLPHENOL	380	U	
4-CHLOROANILINE	380	U	
4-CHLOROPHENYL PHENYL ETHER	380	U	
4-METHYLPHENOL	380	U	
4-NITROANILINE	940	U	
4-NITROPHENOL	940	UJ	C
BIS(2-CHLOROETHOXY)METHANE	380	U	
BIS(2-CHLOROETHYL)ETHER	380	UJ	C
BIS(2-ETHYLHEXYL)PHTHALATE	380	UJ	C
BUTYL BENZYL PHTHALATE	380	UJ	C
CARBAZOLE	380	U	

nsample	MPT-45-E4-2'
samp_date	1/5/2004
lab_id	WU0050-15RA
qc_type	NM
units	UG/KG
Pct_Solids	87.5
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
DIBENZOFURAN	380	U	
DIETHYL PHTHALATE	380	UJ	C
DIMETHYL PHTHALATE	380	U	
DI-N-BUTYL PHTHALATE	380	U	
DI-N-OCTYL PHTHALATE	380	U	
HEXACHLOROBENZENE	380	U	
HEXACHLOROBUTADIENE	380	U	
HEXACHLOROCYCLOPENTADIENE	380	U	
HEXACHLOROETHANE	380	U	
ISOPHORONE	380	UJ	C
NITROBENZENE	380	UJ	C
N-NITROSO-DI-N-PROPYLAMINE	380	UJ	C
N-NITROSODIPHENYLAMINE	380	U	
PENTACHLOROPHENOL	940	U	
PHENOL	380	UJ	C

PROJ_NO: 0123

SDG: WU0050 MEDIA: SOIL DATA FRACTION: OS

nsample	MPT-45-E4-5'
samp_date	1/5/2004
lab_id	WU0050-16
qc_type	NM
units	UG/KG
Pct_Solids	94.0
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
1,2,4-TRICHLOROBENZENE	350	U	
1,2-DICHLOROBENZENE	350	U	
1,3-DICHLOROBENZENE	350	U	
1,4-DICHLOROBENZENE	350	U	
2,2'-OXYBIS(1-CHLOROPROPANE)	350	UJ	C
2,4,5-TRICHLOROPHENOL	870	U	
2,4,6-TRICHLOROPHENOL	350	U	
2,4-DICHLOROPHENOL	350	U	
2,4-DIMETHYLPHENOL	350	U	
2,4-DINITROPHENOL	870	UJ	C
2,4-DINITROTOLUENE	350	U	
2,6-DINITROTOLUENE	350	U	
2-CHLORONAPHTHALENE	350	U	
2-CHLOROPHENOL	350	U	
2-METHYLPHENOL	350	U	
2-NITROANILINE	870	UJ	C
2-NITROPHENOL	350	U	
3,3'-DICHLOROBENZIDINE	350	U	
3-NITROANILINE	870	U	
4,6-DINITRO-2-METHYLPHENOL	870	U	
4-BROMOPHENYL PHENYL ETHER	350	U	
4-CHLORO-3-METHYLPHENOL	350	U	
4-CHLOROANILINE	350	U	
4-CHLOROPHENYL PHENYL ETHER	350	U	
4-METHYLPHENOL	350	UJ	C
4-NITROANILINE	870	U	
4-NITROPHENOL	870	UJ	C
BIS(2-CHLOROETHOXY)METHANE	350	U	
BIS(2-CHLOROETHYL)ETHER	350	UJ	C
BIS(2-ETHYLHEXYL)PHTHALATE	350	UJ	C
BUTYL BENZYL PHTHALATE	350	UJ	C
CARBAZOLE	350	U	

nsample	MPT-45-E4-5'
samp_date	1/5/2004
lab_id	WU0050-16
qc_type	NM
units	UG/KG
Pct_Solids	94.0
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
DIBENZOFURAN	350	U	
DIETHYL PHTHALATE	350	U	
DIMETHYL PHTHALATE	350	U	
DI-N-BUTYL PHTHALATE	220	J	P
DI-N-OCTYL PHTHALATE	320	J	P
HEXACHLOROBENZENE	350	U	
HEXACHLOROBUTADIENE	350	U	
HEXACHLOROCYCLOPENTADIENE	350	U	
HEXACHLOROETHANE	350	UJ	C
ISOPHORONE	350	UJ	C
NITROBENZENE	350	UJ	C
N-NITROSO-DI-N-PROPYLAMINE	350	UJ	C
N-NITROSODIPHENYLAMINE	350	U	
PENTACHLOROPHENOL	870	U	
PHENOL	350	UJ	C

PROJ_NO: 0123

SDG: WU0050 MEDIA: SOIL DATA FRACTION: PAH

nsample	MPT-45-A1-2'	nsample	MPT-45-A2-2'	nsample	MPT-45-A3-2'
samp_date	1/5/2004	samp_date	1/5/2004	samp_date	1/5/2004
lab_id	WU0050-17	lab_id	WU0050-18	lab_id	WU0050-19RA
qc_type	NM	qc_type	NM	qc_type	NM
units	UG/KG	units	UG/KG	units	UG/KG
Pct_Solids	91.2	Pct_Solids	93.0	Pct_Solids	95.4
DUP_OF:		DUP_OF:		DUP_OF:	

Parameter	Result	Val Qual	Qual Code
2-METHYLNAPHTHALENE	1.5	J	P
ACENAPHTHENE	22	U	
ACENAPHTHYLENE	22	U	
ANTHRACENE	22	U	
BENZO(A)ANTHRACENE	17	J	P
BENZO(A)PYRENE	16	J	NP
BENZO(B)FLUORANTHENE	22	U	
BENZO(G,H,I)PERYLENE	11	J	NP
BENZO(K)FLUORANTHENE	22	U	
CHRYSENE	17	J	P
DIBENZO(A,H)ANTHRACENE	22	U	
FLUORANTHENE	33		
FLUORENE	22	U	
INDENO(1,2,3-CD)PYRENE	11	J	NP
NAPHTHALENE	22	U	A
PHENANTHRENE	11	J	P
PYRENE	20	J	P

Parameter	Result	Val Qual	Qual Code
2-METHYLNAPHTHALENE	1	J	P
ACENAPHTHENE	22	U	
ACENAPHTHYLENE	2.2	J	P
ANTHRACENE	12	J	P
BENZO(A)ANTHRACENE	79	J	N
BENZO(A)PYRENE	67	J	N
BENZO(B)FLUORANTHENE	120	J	N
BENZO(G,H,I)PERYLENE	29	J	N
BENZO(K)FLUORANTHENE	64	J	N
CHRYSENE	59	J	N
DIBENZO(A,H)ANTHRACENE	13	J	NP
FLUORANTHENE	56		
FLUORENE	22	U	
INDENO(1,2,3-CD)PYRENE	32	J	N
NAPHTHALENE	22	U	A
PHENANTHRENE	5.5	J	P
PYRENE	73	J	N

Parameter	Result	Val Qual	Qual Code
2-METHYLNAPHTHALENE	1	J	P
ACENAPHTHENE	21	U	
ACENAPHTHYLENE	21	U	
ANTHRACENE	21	U	
BENZO(A)ANTHRACENE	17	J	NP
BENZO(A)PYRENE	26	J	N
BENZO(B)FLUORANTHENE	27	J	N
BENZO(G,H,I)PERYLENE	19	J	NP
BENZO(K)FLUORANTHENE	29	J	N
CHRYSENE	19	J	NP
DIBENZO(A,H)ANTHRACENE	21	U	
FLUORANTHENE	23		
FLUORENE	21	U	
INDENO(1,2,3-CD)PYRENE	17	J	CNP
NAPHTHALENE	21	U	A
PHENANTHRENE	21	U	
PYRENE	24	J	CN

PROJ_NO: 0123

SDG: WU0050 MEDIA: SOIL DATA FRACTION: PAH

nsample	MPT-45-A4-2'	nsample	MPT-45-B1-2'	nsample	MPT-45-B2-2'
samp_date	1/5/2004	samp_date	1/5/2004	samp_date	1/5/2004
lab_id	WU0050-20RA	lab_id	WU0050-21	lab_id	WU0050-22
qc_type	NM	qc_type	NM	qc_type	NM
units	UG/KG	units	UG/KG	units	UG/KG
Pct_Solids	92.7	Pct_Solids	90.8	Pct_Solids	95.8
DUP_OF:		DUP_OF:		DUP_OF:	

Parameter	Result	Val Qual	Qual Code
2-METHYLNAPHTHALENE	2.5	J	P
ACENAPHTHENE	22	U	
ACENAPHTHYLENE	0.59	J	P
ANTHRACENE	19	J	P
BENZO(A)ANTHRACENE	22	J	N
BENZO(A)PYRENE	23	J	N
BENZO(B)FLUORANTHENE	31	J	N
BENZO(G,H,I)PERYLENE	36	J	N
BENZO(K)FLUORANTHENE	20	J	NP
CHRYSENE	22	J	N
DIBENZO(A,H)ANTHRACENE	22	U	
FLUORANTHENE	22	U	
FLUORENE	22	U	
INDENO(1,2,3-CD)PYRENE	25	J	CN
NAPHTHALENE	9.4	J	P
PHENANTHRENE	11	J	P
PYRENE	30	J	CN

Parameter	Result	Val Qual	Qual Code
2-METHYLNAPHTHALENE	11	J	P
ACENAPHTHENE	35	J	N
ACENAPHTHYLENE	22	U	
ANTHRACENE	330	J	P
BENZO(A)ANTHRACENE	620		
BENZO(A)PYRENE	680		
BENZO(B)FLUORANTHENE	840		
BENZO(G,H,I)PERYLENE	500		
BENZO(K)FLUORANTHENE	810		
CHRYSENE	780		
DIBENZO(A,H)ANTHRACENE	140	J	L
FLUORANTHENE	1200		
FLUORENE	69	J	N
INDENO(1,2,3-CD)PYRENE	390	J	CP
NAPHTHALENE	22	U	A
PHENANTHRENE	700		
PYRENE	1200	J	C

Parameter	Result	Val Qual	Qual Code
2-METHYLNAPHTHALENE	1.4	J	P
ACENAPHTHENE	1.1	J	P
ACENAPHTHYLENE	21	U	
ANTHRACENE	8.6	J	P
BENZO(A)ANTHRACENE	78		
BENZO(A)PYRENE	82		
BENZO(B)FLUORANTHENE	110	J	N
BENZO(G,H,I)PERYLENE	110	J	N
BENZO(K)FLUORANTHENE	66		
CHRYSENE	68		
DIBENZO(A,H)ANTHRACENE	29		
FLUORANTHENE	90		
FLUORENE	21	U	
INDENO(1,2,3-CD)PYRENE	85		
NAPHTHALENE	21	U	A
PHENANTHRENE	24		
PYRENE	81		

PROJ_NO: 0123

SDG: WU0050 MEDIA: SOIL DATA FRACTION: PAH

nsample	MPT-45-B3-2'	nsample	MPT-45-B4-2'	nsample	MPT-45-C1-2'
samp_date	1/5/2004	samp_date	1/5/2004	samp_date	1/5/2004
lab_id	WU0050-23	lab_id	WU0050-24	lab_id	WU0050-25
qc_type	NM	qc_type	NM	qc_type	NM
units	UG/KG	units	UG/KG	units	UG/KG
Pct_Solids	91.4	Pct_Solids	95.8	Pct_Solids	96.8
DUP_OF:		DUP_OF:		DUP_OF:	

Parameter	Result	Val Qual	Qual Code
2-METHYLNAPHTHALENE	1.5	J	P
ACENAPHTHENE	22	U	
ACENAPHTHYLENE	22	U	
ANTHRACENE	4.8	J	P
BENZO(A)ANTHRACENE	11	J	P
BENZO(A)PYRENE	12	J	P
BENZO(B)FLUORANTHENE	22	U	
BENZO(G,H,I)PERYLENE	21	J	P
BENZO(K)FLUORANTHENE	22	U	
CHRYSENE	13	J	P
DIBENZO(A,H)ANTHRACENE	22	U	
FLUORANTHENE	15	J	P
FLUORENE	22	U	
INDENO(1,2,3-CD)PYRENE	16	J	P
NAPHTHALENE	22	U	A
PHENANTHRENE	5.1	J	P
PYRENE	13	J	P

Parameter	Result	Val Qual	Qual Code
2-METHYLNAPHTHALENE	1.5	J	P
ACENAPHTHENE	21	U	
ACENAPHTHYLENE	21	U	
ANTHRACENE	6.4	J	P
BENZO(A)ANTHRACENE	17	J	P
BENZO(A)PYRENE	20	J	P
BENZO(B)FLUORANTHENE	21	U	
BENZO(G,H,I)PERYLENE	29		
BENZO(K)FLUORANTHENE	21	U	
CHRYSENE	20	J	P
DIBENZO(A,H)ANTHRACENE	21	U	
FLUORANTHENE	29		
FLUORENE	21	U	
INDENO(1,2,3-CD)PYRENE	21		
NAPHTHALENE	21	U	A
PHENANTHRENE	6.4	J	P
PYRENE	24		

Parameter	Result	Val Qual	Qual Code
2-METHYLNAPHTHALENE	2.2	J	P
ACENAPHTHENE	1.2	J	P
ACENAPHTHYLENE	0.98	J	P
ANTHRACENE	14	J	P
BENZO(A)ANTHRACENE	100	J	N
BENZO(A)PYRENE	86		
BENZO(B)FLUORANTHENE	110	J	N
BENZO(G,H,I)PERYLENE	68		
BENZO(K)FLUORANTHENE	70		
CHRYSENE	85		
DIBENZO(A,H)ANTHRACENE	28		
FLUORANTHENE	120		
FLUORENE	21	U	
INDENO(1,2,3-CD)PYRENE	67		
NAPHTHALENE	7.6	J	P
PHENANTHRENE	38		
PYRENE	98		

PROJ_NO: 0123

SDG: WU0050 MEDIA: SOIL DATA FRACTION: PAH

nsample	MPT-45-C2-2'	nsample	MPT-45-C3-2'	nsample	MPT-45-C4-2'
samp_date	1/5/2004	samp_date	1/5/2004	samp_date	1/5/2004
lab_id	WU0050-26	lab_id	WU0050-27	lab_id	WU0050-28
qc_type	NM	qc_type	NM	qc_type	NM
units	UG/KG	units	UG/KG	units	UG/KG
Pct_Solids	95.8	Pct_Solids	94.9	Pct_Solids	96.1
DUP_OF:		DUP_OF:		DUP_OF:	

Parameter	Result	Val Qual	Qual Code
2-METHYLNAPHTHALENE	1.1	J	P
ACENAPHTHENE	0.85	J	P
ACENAPHTHYLENE	0.9	J	P
ANTHRACENE	21	U	
BENZO(A)ANTHRACENE	73		
BENZO(A)PYRENE	70		
BENZO(B)FLUORANTHENE	73	J	N
BENZO(G,H,I)PERYLENE	86		
BENZO(K)FLUORANTHENE	66		
CHRYSENE	65		
DIBENZO(A,H)ANTHRACENE	26		
FLUORANTHENE	94		
FLUORENE	21	U	
INDENO(1,2,3-CD)PYRENE	74		
NAPHTHALENE	21	U	A
PHENANTHRENE	25		
PYRENE	85		

Parameter	Result	Val Qual	Qual Code
2-METHYLNAPHTHALENE	3.3	J	P
ACENAPHTHENE	6.2	J	P
ACENAPHTHYLENE	2.9	J	P
ANTHRACENE	22		
BENZO(A)ANTHRACENE	130		
BENZO(A)PYRENE	92		
BENZO(B)FLUORANTHENE	76	J	N
BENZO(G,H,I)PERYLENE	78		
BENZO(K)FLUORANTHENE	80		
CHRYSENE	89		
DIBENZO(A,H)ANTHRACENE	28		
FLUORANTHENE	190		
FLUORENE	8	J	P
INDENO(1,2,3-CD)PYRENE	69		
NAPHTHALENE	8.9	J	P
PHENANTHRENE	96		
PYRENE	130		

Parameter	Result	Val Qual	Qual Code
2-METHYLNAPHTHALENE	1.6	J	P
ACENAPHTHENE	0.58	J	P
ACENAPHTHYLENE	0.46	J	P
ANTHRACENE	7	J	P
BENZO(A)ANTHRACENE	62		
BENZO(A)PYRENE	43		
BENZO(B)FLUORANTHENE	59		
BENZO(G,H,I)PERYLENE	20	J	P
BENZO(K)FLUORANTHENE	34		
CHRYSENE	43		
DIBENZO(A,H)ANTHRACENE	11	J	P
FLUORANTHENE	53		
FLUORENE	21	U	
INDENO(1,2,3-CD)PYRENE	25		
NAPHTHALENE	21	U	A
PHENANTHRENE	13	J	P
PYRENE	40		

PROJ_NO: 0123

SDG: WU0050 MEDIA: SOIL DATA FRACTION: PAH

nsample	MPT-45-D3-2'	nsample	MPT-45-D4-2'	nsample	MPT-45-E4-2'
samp_date	1/5/2004	samp_date	1/5/2004	samp_date	1/5/2004
lab_id	WU0050-29RA	lab_id	WU0050-30RA	lab_id	WU0050-31RA
qc_type	NM	qc_type	NM	qc_type	NM
units	UG/KG	units	UG/KG	units	UG/KG
Pct_Solids	93.3	Pct_Solids	86.8	Pct_Solids	87.5
DUP_OF:		DUP_OF:		DUP_OF:	

Parameter	Result	Val Qual	Qual Code
2-METHYLNAPHTHALENE	6.4	J	P
ACENAPHTHENE	12	J	P
ACENAPHTHYLENE	12	J	P
ANTHRACENE	160	J	L
BENZO(A)ANTHRACENE	3200		
BENZO(A)PYRENE	4900		
BENZO(B)FLUORANTHENE	4500		
BENZO(G,H,I)PERYLENE	1800	J	P
BENZO(K)FLUORANTHENE	2700		
CHRYSENE	3800		
DIBENZO(A,H)ANTHRACENE	1700	J	L
FLUORANTHENE	1700	J	P
FLUORENE	19	J	P
INDENO(1,2,3-CD)PYRENE	1800	J	CP
NAPHTHALENE	11	J	P
PHENANTHRENE	250	J	L
PYRENE	3000	J	C

Parameter	Result	Val Qual	Qual Code
2-METHYLNAPHTHALENE	23	U	
ACENAPHTHENE	23	U	
ACENAPHTHYLENE	23	U	
ANTHRACENE	23	U	
BENZO(A)ANTHRACENE	43	J	N
BENZO(A)PYRENE	44	J	N
BENZO(B)FLUORANTHENE	40	J	N
BENZO(G,H,I)PERYLENE	23	J	NP
BENZO(K)FLUORANTHENE	45	J	N
CHRYSENE	37	J	N
DIBENZO(A,H)ANTHRACENE	9.7	J	NP
FLUORANTHENE	20	J	P
FLUORENE	23	U	
INDENO(1,2,3-CD)PYRENE	23	J	NP
NAPHTHALENE	23	U	
PHENANTHRENE	23	U	
PYRENE	23	J	N

Parameter	Result	Val Qual	Qual Code
2-METHYLNAPHTHALENE	0.69	J	P
ACENAPHTHENE	23	U	
ACENAPHTHYLENE	23	U	
ANTHRACENE	23	U	
BENZO(A)ANTHRACENE	6.8	J	NP
BENZO(A)PYRENE	23	U	
BENZO(B)FLUORANTHENE	9.9	J	NP
BENZO(G,H,I)PERYLENE	23	U	
BENZO(K)FLUORANTHENE	7.6	J	NP
CHRYSENE	5.6	J	NP
DIBENZO(A,H)ANTHRACENE	23	U	
FLUORANTHENE	5.7	J	P
FLUORENE	23	U	
INDENO(1,2,3-CD)PYRENE	23	U	
NAPHTHALENE	23	U	A
PHENANTHRENE	23	U	
PYRENE	4.7	J	NP

PROJ_NO: 0123

SDG: WU0050 MEDIA: SOIL DATA FRACTION: PAH

nsample	MPT-45-E4-5'
samp_date	1/5/2004
lab_id	WU0050-32RA
qc_type	NM
units	UG/KG
Pct_Solids	94.0
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
2-METHYLNAPHTHALENE	21	U	
ACENAPHTHENE	21	U	
ACENAPHTHYLENE	21	U	
ANTHRACENE	21	U	
BENZO(A)ANTHRACENE	7.1	J	NP
BENZO(A)PYRENE	7.7	J	NP
BENZO(B)FLUORANTHENE	14	J	NP
BENZO(G,H,I)PERYLENE	21	U	
BENZO(K)FLUORANTHENE	6.5	J	NP
CHRYSENE	5.9	J	NP
DIBENZO(A,H)ANTHRACENE	21	U	
FLUORANTHENE	6.1	J	P
FLUORENE	21	U	
INDENO(1,2,3-CD)PYRENE	21	U	
NAPHTHALENE	21	U	A
PHENANTHRENE	21	U	
PYRENE	6.8	J	NP

PROJ_NO: 0123

SDG: WU0050 MEDIA: SOIL DATA FRACTION: PEST/PCB

nsample	MPT-45-A1-2'	nsample	MPT-45-A2-2'	nsample	MPT-45-A3-2'
samp_date	1/5/2004	samp_date	1/5/2004	samp_date	1/5/2004
lab_id	WU0050-1	lab_id	WU0050-2	lab_id	WU0050-3
qc_type	NM	qc_type	NM	qc_type	NM
units	UG/KG	units	UG/KG	units	UG/KG
Pct_Solids	91.2	Pct_Solids	93.0	Pct_Solids	95.4
DUP_OF:		DUP_OF:		DUP_OF:	

Parameter	Result	Val Qual	Qual Code
4,4'-DDD	1.9	U	
4,4'-DDE	1.9	U	
4,4'-DDT	1.9	U	
ALDRIN	1.9	U	
ALPHA-BHC	1.9	U	
ALPHA-CHLORDANE	9.9	J	U
AROCLOR-1016	19	U	
AROCLOR-1221	19	U	
AROCLOR-1232	19	U	
AROCLOR-1242	19	U	
AROCLOR-1248	19	U	
AROCLOR-1254	19	U	
AROCLOR-1260	170		
BETA-BHC	1.9	U	
DELTA-BHC	1.9	U	
DIELDRIN	4		
ENDOSULFAN I	1.9	U	
ENDOSULFAN II	1.9	UJ	E
ENDOSULFAN SULFATE	1.9	U	
ENDRIN	1.9	U	
ENDRIN ALDEHYDE	1.9	U	
ENDRIN KETONE	1.9	U	
GAMMA-BHC (LINDANE)	1.9	U	
GAMMA-CHLORDANE	6.4		
HEPTACHLOR	1.9	U	
HEPTACHLOR EPOXIDE	1.9	U	
METHOXYCHLOR	1.9	U	
TOXAPHENE	1.9	U	

Parameter	Result	Val Qual	Qual Code
4,4'-DDD	1.8	U	
4,4'-DDE	1.8	U	
4,4'-DDT	1.8	U	
ALDRIN	1.8	U	
ALPHA-BHC	1.8	U	
ALPHA-CHLORDANE	10	J	U
AROCLOR-1016	18	U	
AROCLOR-1221	18	U	
AROCLOR-1232	18	U	
AROCLOR-1242	18	U	
AROCLOR-1248	18	U	
AROCLOR-1254	18	U	
AROCLOR-1260	39		
BETA-BHC	1.8	U	
DELTA-BHC	1.8	U	
DIELDRIN	5		
ENDOSULFAN I	1.8	U	
ENDOSULFAN II	1.8	UJ	E
ENDOSULFAN SULFATE	1.8	U	
ENDRIN	1.8	U	
ENDRIN ALDEHYDE	1.8	U	
ENDRIN KETONE	1.8	U	
GAMMA-BHC (LINDANE)	1.8	U	
GAMMA-CHLORDANE	6.7		
HEPTACHLOR	1.8	U	
HEPTACHLOR EPOXIDE	1.8	U	
METHOXYCHLOR	1.8	U	
TOXAPHENE	1.8	U	

Parameter	Result	Val Qual	Qual Code
4,4'-DDD	1.8	U	
4,4'-DDE	1.8	U	
4,4'-DDT	1.8	U	
ALDRIN	1.8	U	
ALPHA-BHC	1.8	U	
ALPHA-CHLORDANE	4.4	J	U
AROCLOR-1016	18	U	
AROCLOR-1221	18	U	
AROCLOR-1232	18	U	
AROCLOR-1242	18	U	
AROCLOR-1248	18	U	
AROCLOR-1254	18	U	
AROCLOR-1260	38		
BETA-BHC	1.8	U	
DELTA-BHC	1.8	U	
DIELDRIN	1.7	J	
ENDOSULFAN I	1.8	U	
ENDOSULFAN II	1.8	UJ	E
ENDOSULFAN SULFATE	1.8	U	
ENDRIN	1.8	U	
ENDRIN ALDEHYDE	1.8	U	
ENDRIN KETONE	1.8	U	
GAMMA-BHC (LINDANE)	1.8	U	
GAMMA-CHLORDANE	2.9		
HEPTACHLOR	1.8	U	
HEPTACHLOR EPOXIDE	1.8	U	
METHOXYCHLOR	1.8	U	
TOXAPHENE	1.8	U	

PROJ_NO: 0123

SDG: WU0050 MEDIA: SOIL DATA FRACTION: PEST/PCB

nsample	MPT-45-A4-2'	nsample	MPT-45-B1-2'	nsample	MPT-45-B2-2'
samp_date	1/5/2004	samp_date	1/5/2004	samp_date	1/5/2004
lab_id	WU0050-4	lab_id	WU0050-5	lab_id	WU0050-6
qc_type	NM	qc_type	NM	qc_type	NM
units	UG/KG	units	UG/KG	units	UG/KG
Pct_Solids	92.7	Pct_Solids	90.8	Pct_Solids	95.8
DUP_OF:		DUP_OF:		DUP_OF:	

Parameter	Result	Val Qual	Qual Code
4,4'-DDD	1.8	U	
4,4'-DDE	1.8	U	
4,4'-DDT	1.8	U	
ALDRIN	1.8	U	
ALPHA-BHC	1.8	U	
ALPHA-CHLORDANE	1.8	U	
AROCLOR-1016	18	U	
AROCLOR-1221	18	U	
AROCLOR-1232	18	U	
AROCLOR-1242	18	U	
AROCLOR-1248	18	U	
AROCLOR-1254	18	U	
AROCLOR-1260	18		
BETA-BHC	1.8	U	
DELTA-BHC	1.8	U	
DIELDRIN	1.8	U	
ENDOSULFAN I	1.8	U	
ENDOSULFAN II	1.8	UJ	E
ENDOSULFAN SULFATE	1.8	U	
ENDRIN	1.8	U	
ENDRIN ALDEHYDE	1.8	U	
ENDRIN KETONE	1.8	U	
GAMMA-BHC (LINDANE)	1.8	U	
GAMMA-CHLORDANE	1.7	J	PU
HEPTACHLOR	1.8	U	
HEPTACHLOR EPOXIDE	1.8	U	
METHOXYCHLOR	1.8	U	
TOXAPHENE	1.8	U	

Parameter	Result	Val Qual	Qual Code
4,4'-DDD	1.9	U	
4,4'-DDE	1.9	U	
4,4'-DDT	1.9	U	
ALDRIN	1.9	U	
ALPHA-BHC	1.9	U	
ALPHA-CHLORDANE	1.9	U	
AROCLOR-1016	19	U	
AROCLOR-1221	19	U	
AROCLOR-1232	19	U	
AROCLOR-1242	19	U	
AROCLOR-1248	19	U	
AROCLOR-1254	19	U	
AROCLOR-1260	100		
BETA-BHC	1.9	U	
DELTA-BHC	1.9	U	
DIELDRIN	1.9	U	
ENDOSULFAN I	1.9	U	
ENDOSULFAN II	1.9	UJ	E
ENDOSULFAN SULFATE	1.9	U	
ENDRIN	1.9	U	
ENDRIN ALDEHYDE	1.9	U	
ENDRIN KETONE	1.9	U	
GAMMA-BHC (LINDANE)	1.9	U	
GAMMA-CHLORDANE	1.9	U	
HEPTACHLOR	1.9	U	
HEPTACHLOR EPOXIDE	1.9	U	
METHOXYCHLOR	1.9	U	
TOXAPHENE	1.9	U	

Parameter	Result	Val Qual	Qual Code
4,4'-DDD	1.8	U	
4,4'-DDE	1.8	U	
4,4'-DDT	1.8	U	
ALDRIN	1.8	U	
ALPHA-BHC	1.8	U	
ALPHA-CHLORDANE	1.8	U	
AROCLOR-1016	18	U	
AROCLOR-1221	18	U	
AROCLOR-1232	18	U	
AROCLOR-1242	18	U	
AROCLOR-1248	18	U	
AROCLOR-1254	18	U	
AROCLOR-1260	33		
BETA-BHC	1.8	U	
DELTA-BHC	1.8	U	
DIELDRIN	1.8	U	
ENDOSULFAN I	1.8	U	
ENDOSULFAN II	1.8	UJ	E
ENDOSULFAN SULFATE	1.8	U	
ENDRIN	1.8	U	
ENDRIN ALDEHYDE	1.8	U	
ENDRIN KETONE	1.8	U	
GAMMA-BHC (LINDANE)	1.8	U	
GAMMA-CHLORDANE	1.1	J	P
HEPTACHLOR	1.8	U	
HEPTACHLOR EPOXIDE	1.8	U	
METHOXYCHLOR	1.8	U	
TOXAPHENE	1.8	U	

PROJ_NO: 0123

SDG: WU0050 MEDIA: SOIL DATA FRACTION: PEST/PCB

nsample	MPT-45-B3-2'	nsample	MPT-45-B4-2'	nsample	MPT-45-C1-2'
samp_date	1/5/2004	samp_date	1/5/2004	samp_date	1/5/2004
lab_id	WU0050-7	lab_id	WU0050-8	lab_id	WU0050-9
qc_type	NM	qc_type	NM	qc_type	NM
units	UG/KG	units	UG/KG	units	UG/KG
Pct_Solids	91.4	Pct_Solids	95.8	Pct_Solids	96.8
DUP_OF:		DUP_OF:		DUP_OF:	

Parameter	Result	Val Qual	Qual Code
4,4'-DDD	1.9	U	
4,4'-DDE	1.9	U	
4,4'-DDT	1.9	U	
ALDRIN	1.9	U	
ALPHA-BHC	1.9	U	
ALPHA-CHLORDANE	1.9	U	
AROCLOR-1016	19	U	
AROCLOR-1221	19	U	
AROCLOR-1232	19	U	
AROCLOR-1242	19	U	
AROCLOR-1248	19	U	
AROCLOR-1254	19	U	
AROCLOR-1260	31		
BETA-BHC	1.9	U	
DELTA-BHC	1.1	J	P
DIELDRIN	1.4	J	P
ENDOSULFAN I	1.9	U	
ENDOSULFAN II	1.9	UJ	E
ENDOSULFAN SULFATE	1.9	U	
ENDRIN	1.9	U	
ENDRIN ALDEHYDE	1.9	U	
ENDRIN KETONE	1.9	U	
GAMMA-BHC (LINDANE)	1.9	U	
GAMMA-CHLORDANE	1.6	J	P
HEPTACHLOR	1.9	U	
HEPTACHLOR EPOXIDE	1.9	U	
METHOXYCHLOR	1.9	U	
TOXAPHENE	1.9	U	

Parameter	Result	Val Qual	Qual Code
4,4'-DDD	1.8	U	
4,4'-DDE	1.8	U	
4,4'-DDT	1.8	U	
ALDRIN	1.8	U	
ALPHA-BHC	1.8	U	
ALPHA-CHLORDANE	4.2	J	U
AROCLOR-1016	18	U	
AROCLOR-1221	18	U	
AROCLOR-1232	18	U	
AROCLOR-1242	18	U	
AROCLOR-1248	18	U	
AROCLOR-1254	18	U	
AROCLOR-1260	42		
BETA-BHC	1.8	U	
DELTA-BHC	1.8	U	
DIELDRIN	2		
ENDOSULFAN I	1.8	U	
ENDOSULFAN II	1.8	UJ	E
ENDOSULFAN SULFATE	1.8	U	
ENDRIN	1.8	U	
ENDRIN ALDEHYDE	1.8	U	
ENDRIN KETONE	1.8	U	
GAMMA-BHC (LINDANE)	1.8	U	
GAMMA-CHLORDANE	3		
HEPTACHLOR	1.8	U	
HEPTACHLOR EPOXIDE	1.8	U	
METHOXYCHLOR	1.8	U	
TOXAPHENE	1.8	U	

Parameter	Result	Val Qual	Qual Code
4,4'-DDD	1.8	U	
4,4'-DDE	1.8	U	
4,4'-DDT	1.8	U	
ALDRIN	1.8	U	
ALPHA-BHC	1.8	U	
ALPHA-CHLORDANE	1.8	U	
AROCLOR-1016	18	U	
AROCLOR-1221	18	U	
AROCLOR-1232	18	U	
AROCLOR-1242	18	U	
AROCLOR-1248	18	U	
AROCLOR-1254	18	U	
AROCLOR-1260	18	U	
BETA-BHC	1.8	U	
DELTA-BHC	1.8	U	
DIELDRIN	1.8	U	
ENDOSULFAN I	1.8	U	
ENDOSULFAN II	1.8	UJ	E
ENDOSULFAN SULFATE	1.8	U	
ENDRIN	1.8	U	
ENDRIN ALDEHYDE	1.8	U	
ENDRIN KETONE	1.8	U	
GAMMA-BHC (LINDANE)	1.8	U	
GAMMA-CHLORDANE	1.8	U	
HEPTACHLOR	1.8	U	
HEPTACHLOR EPOXIDE	1.8	U	
METHOXYCHLOR	1.8	U	
TOXAPHENE	1.8	U	

PROJ_NO: 0123

SDG: WU0050 MEDIA: SOIL DATA FRACTION: PEST/PCB

nsample	MPT-45-C2-2'	nsample	MPT-45-C3-2'	nsample	MPT-45-C4-2'
samp_date	1/5/2004	samp_date	1/5/2004	samp_date	1/5/2004
lab_id	WU0050-10	lab_id	WU0050-11	lab_id	WU0050-12
qc_type	NM	qc_type	NM	qc_type	NM
units	UG/KG	units	UG/KG	units	UG/KG
Pct_Solids	95.8	Pct_Solids	94.9	Pct_Solids	96.1
DUP_OF:		DUP_OF:		DUP_OF:	

Parameter	Result	Val Qual	Qual Code
4,4'-DDD	1.8	U	
4,4'-DDE	1.8	U	
4,4'-DDT	2.5	J	U
ALDRIN	1.8	U	
ALPHA-BHC	1.8	U	
ALPHA-CHLORDANE	1.8	U	
AROCLOR-1016	18	U	
AROCLOR-1221	18	U	
AROCLOR-1232	18	U	
AROCLOR-1242	18	U	
AROCLOR-1248	18	U	
AROCLOR-1254	18	U	
AROCLOR-1260	17	J	PU
BETA-BHC	1.8	U	
DELTA-BHC	1.8	U	
DIELDRIN	1.8	U	
ENDOSULFAN I	1.8	U	
ENDOSULFAN II	1.8	UJ	E
ENDOSULFAN SULFATE	1.8	U	
ENDRIN	1.8	U	
ENDRIN ALDEHYDE	1.8	U	
ENDRIN KETONE	1.8	U	
GAMMA-BHC (LINDANE)	1.8	U	
GAMMA-CHLORDANE	1.8	U	
HEPTACHLOR	1.8	U	
HEPTACHLOR EPOXIDE	1.8	U	
METHOXYCHLOR	1.8	U	
TOXAPHENE	1.8	U	

Parameter	Result	Val Qual	Qual Code
4,4'-DDD	3.6	U	
4,4'-DDE	3.6	U	
4,4'-DDT	3.6	U	
ALDRIN	3.6	U	
ALPHA-BHC	3.6	U	
ALPHA-CHLORDANE	3.6	U	
AROCLOR-1016	36	U	
AROCLOR-1221	36	U	
AROCLOR-1232	36	U	
AROCLOR-1242	36	U	
AROCLOR-1248	36	U	
AROCLOR-1254	36	U	
AROCLOR-1260	36	U	
BETA-BHC	3.6	U	
DELTA-BHC	3.6	U	
DIELDRIN	3.6	U	
ENDOSULFAN I	3.6	U	
ENDOSULFAN II	3.6	UJ	E
ENDOSULFAN SULFATE	3.6	U	
ENDRIN	3.6	U	
ENDRIN ALDEHYDE	3.6	U	
ENDRIN KETONE	3.6	U	
GAMMA-BHC (LINDANE)	3.6	U	
GAMMA-CHLORDANE	3.6	U	
HEPTACHLOR	3.6	U	
HEPTACHLOR EPOXIDE	3.6	U	
METHOXYCHLOR	3.6	U	
TOXAPHENE	3.6	U	

Parameter	Result	Val Qual	Qual Code
4,4'-DDD	1.8	U	
4,4'-DDE	3.6		
4,4'-DDT	2.4	J	U
ALDRIN	1.8	U	
ALPHA-BHC	1.8	U	
ALPHA-CHLORDANE	1.8	U	
AROCLOR-1016	18	U	
AROCLOR-1221	18	U	
AROCLOR-1232	18	U	
AROCLOR-1242	18	U	
AROCLOR-1248	18	U	
AROCLOR-1254	18	U	
AROCLOR-1260	18	U	
BETA-BHC	1.8	U	
DELTA-BHC	1.8	U	
DIELDRIN	1.8	U	
ENDOSULFAN I	1.8	U	
ENDOSULFAN II	1.8	UJ	E
ENDOSULFAN SULFATE	1.8	U	
ENDRIN	1.8	U	
ENDRIN ALDEHYDE	1.8	U	
ENDRIN KETONE	1.8	U	
GAMMA-BHC (LINDANE)	1.8	U	
GAMMA-CHLORDANE	1.8	U	
HEPTACHLOR	1.8	U	
HEPTACHLOR EPOXIDE	1.8	U	
METHOXYCHLOR	1.8	U	
TOXAPHENE	1.8	U	

PROJ_NO: 0123

SDG: WU0050 MEDIA: SOIL DATA FRACTION: PEST/PCB

nsample	MPT-45-D3-2'	nsample	MPT-45-D4-2'	nsample	MPT-45-E4-2'
samp_date	1/5/2004	samp_date	1/5/2004	samp_date	1/5/2004
lab_id	WU0050-13	lab_id	WU0050-14	lab_id	WU0050-15
qc_type	NM	qc_type	NM	qc_type	NM
units	UG/KG	units	UG/KG	units	UG/KG
Pct_Solids	93.3	Pct_Solids	86.8	Pct_Solids	87.5
DUP_OF:		DUP_OF:		DUP_OF:	

Parameter	Result	Val Qual	Qual Code
4,4'-DDD	1.8	U	
4,4'-DDE	1.8	U	
4,4'-DDT	3.6		
ALDRIN	1.8	U	
ALPHA-BHC	1.8	U	
ALPHA-CHLORDANE	1.8	U	
AROCLOR-1016	18	U	
AROCLOR-1221	18	U	
AROCLOR-1232	18	U	
AROCLOR-1242	18	U	
AROCLOR-1248	18	U	
AROCLOR-1254	18	U	
AROCLOR-1260	49		
BETA-BHC	1.8	U	
DELTA-BHC	1.8	U	
DIELDRIN	1.8	U	
ENDOSULFAN I	1.8	U	
ENDOSULFAN II	1.8	UJ	E
ENDOSULFAN SULFATE	4.8		
ENDRIN	1.8	U	
ENDRIN ALDEHYDE	1.8	U	
ENDRIN KETONE	1.8	U	
GAMMA-BHC (LINDANE)	1.2	J	P
GAMMA-CHLORDANE	1.8	U	
HEPTACHLOR	1.8	U	
HEPTACHLOR EPOXIDE	1.8	U	
METHOXYCHLOR	1.8	U	
TOXAPHENE	1.8	U	

Parameter	Result	Val Qual	Qual Code
4,4'-DDD	2	UJ	R
4,4'-DDE	2	UJ	R
4,4'-DDT	2	UJ	R
ALDRIN	2	UJ	R
ALPHA-BHC	2	UJ	R
ALPHA-CHLORDANE	2	UJ	R
AROCLOR-1016	20	UJ	R
AROCLOR-1221	20	UJ	R
AROCLOR-1232	20	UJ	R
AROCLOR-1242	20	UJ	R
AROCLOR-1248	20	UJ	R
AROCLOR-1254	20	UJ	R
AROCLOR-1260	20	UJ	R
BETA-BHC	2	UJ	R
DELTA-BHC	2	UJ	R
DIELDRIN	2	UJ	R
ENDOSULFAN I	2	UJ	R
ENDOSULFAN II	2	UJ	R
ENDOSULFAN SULFATE	2	UJ	R
ENDRIN	2	UJ	R
ENDRIN ALDEHYDE	2	UJ	R
ENDRIN KETONE	2	UJ	R
GAMMA-BHC (LINDANE)	2	UJ	R
GAMMA-CHLORDANE	2	UJ	R
HEPTACHLOR	2	UJ	R
HEPTACHLOR EPOXIDE	2	UJ	R
METHOXYCHLOR	2	UJ	R
TOXAPHENE	2	UJ	R

Parameter	Result	Val Qual	Qual Code
4,4'-DDD	1.9	U	
4,4'-DDE	1.9	U	
4,4'-DDT	1.9	U	
ALDRIN	1.9	U	
ALPHA-BHC	1.9	U	
ALPHA-CHLORDANE	1.9	U	
AROCLOR-1016	19	U	
AROCLOR-1221	19	U	
AROCLOR-1232	19	U	
AROCLOR-1242	19	U	
AROCLOR-1248	19	U	
AROCLOR-1254	19	U	
AROCLOR-1260	19	U	
BETA-BHC	1.9	U	
DELTA-BHC	1.9	U	
DIELDRIN	1.9	U	
ENDOSULFAN I	1.9	U	
ENDOSULFAN II	1.9	UJ	E
ENDOSULFAN SULFATE	1.9	U	
ENDRIN	1.9	U	
ENDRIN ALDEHYDE	1.9	U	
ENDRIN KETONE	1.9	U	
GAMMA-BHC (LINDANE)	1.9	U	
GAMMA-CHLORDANE	1.9	U	
HEPTACHLOR	1.9	U	
HEPTACHLOR EPOXIDE	1.9	U	
METHOXYCHLOR	1.9	U	
TOXAPHENE	1.9	U	

PROJ_NO: 0123

SDG: WU0050 MEDIA: SOIL DATA FRACTION: PEST/PCB

nsample	MPT-45-E4-5'
samp_date	1/5/2004
lab_id	WU0050-16
qc_type	NM
units	UG/KG
Pct_Solids	94.0
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
4,4'-DDD	1.8	U	
4,4'-DDE	1.8	U	
4,4'-DDT	1.8	U	
ALDRIN	1.8	U	
ALPHA-BHC	1.8	U	
ALPHA-CHLORDANE	1.8	U	
AROCLOR-1016	18	U	
AROCLOR-1221	18	U	
AROCLOR-1232	18	U	
AROCLOR-1242	18	U	
AROCLOR-1248	18	U	
AROCLOR-1254	18	U	
AROCLOR-1260	18	U	
BETA-BHC	1.8	U	
DELTA-BHC	1.8	U	
DIELDRIN	1.8	U	
ENDOSULFAN I	1.8	U	
ENDOSULFAN II	1.8	UJ	E
ENDOSULFAN SULFATE	1.8	U	
ENDRIN	1.8	U	
ENDRIN ALDEHYDE	1.8	U	
ENDRIN KETONE	1.8	U	
GAMMA-BHC (LINDANE)	1.8	U	
GAMMA-CHLORDANE	1.8	U	
HEPTACHLOR	1.8	U	
HEPTACHLOR EPOXIDE	1.8	U	
METHOXYCHLOR	1.8	U	
TOXAPHENE	1.8	U	

PROJ_NO: 0123

SDG: WU0050 MEDIA: SOIL DATA FRACTION: PET

nsample	MPT-45-A1-2'
samp_date	1/5/2004
lab_id	WU0050-1
qc_type	NM
units	MG/KG
Pct_Solids	91.2
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
TOTAL PETROLEUM HYDROCARBONS	110		

nsample	MPT-45-A2-2'
samp_date	1/5/2004
lab_id	WU0050-2
qc_type	NM
units	MG/KG
Pct_Solids	93.0
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
TOTAL PETROLEUM HYDROCARBONS	190		

nsample	MPT-45-A3-2'
samp_date	1/5/2004
lab_id	WU0050-3
qc_type	NM
units	MG/KG
Pct_Solids	95.4
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
TOTAL PETROLEUM HYDROCARBONS	230		

PROJ_NO: 0123

SDG: WU0050 MEDIA: SOIL DATA FRACTION: PET

nsample	MPT-45-A4-2'
samp_date	1/5/2004
lab_id	WU0050-4DL
qc_type	NM
units	MG/KG
Pct_Solids	92.7
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
TOTAL PETROLEUM HYDROCARBONS	460	J	C

nsample	MPT-45-B1-2'
samp_date	1/5/2004
lab_id	WU0050-5DL
qc_type	NM
units	MG/KG
Pct_Solids	90.8
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
TOTAL PETROLEUM HYDROCARBONS	300	J	C

nsample	MPT-45-B2-2'
samp_date	1/5/2004
lab_id	WU0050-6
qc_type	NM
units	MG/KG
Pct_Solids	95.8
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
TOTAL PETROLEUM HYDROCARBONS	190		

PROJ_NO: 0123

SDG: WU0050 MEDIA: SOIL DATA FRACTION: PET

nsample	MPT-45-B3-2'	nsample	MPT-45-B4-2'	nsample	MPT-45-C1-2'
samp_date	1/5/2004	samp_date	1/5/2004	samp_date	1/5/2004
lab_id	WU0050-7DL	lab_id	WU0050-8	lab_id	WU0050-9
qc_type	NM	qc_type	NM	qc_type	NM
units	MG/KG	units	MG/KG	units	MG/KG
Pct_Solids	91.4	Pct_Solids	95.8	Pct_Solids	96.8
DUP_OF:		DUP_OF:		DUP_OF:	

Parameter	Result	Val Qual	Qual Code
TOTAL PETROLEUM HYDROCARBONS	500	J	C

Parameter	Result	Val Qual	Qual Code
TOTAL PETROLEUM HYDROCARBONS	210		

Parameter	Result	Val Qual	Qual Code
TOTAL PETROLEUM HYDROCARBONS	65		

PROJ_NO: 0123

SDG: WU0050 MEDIA: SOIL DATA FRACTION: PET

nsample	MPT-45-C2-2'	nsample	MPT-45-C3-2'	nsample	MPT-45-C4-2'
samp_date	1/5/2004	samp_date	1/5/2004	samp_date	1/5/2004
lab_id	WU0050-10	lab_id	WU0050-11	lab_id	WU0050-12
qc_type	NM	qc_type	NM	qc_type	NM
units	MG/KG	units	MG/KG	units	MG/KG
Pct_Solids	95.8	Pct_Solids	94.9	Pct_Solids	96.1
DUP_OF:		DUP_OF:		DUP_OF:	

Parameter	Result	Val Qual	Qual Code
TOTAL PETROLEUM HYDROCARBONS	110		

Parameter	Result	Val Qual	Qual Code
TOTAL PETROLEUM HYDROCARBONS	170		

Parameter	Result	Val Qual	Qual Code
TOTAL PETROLEUM HYDROCARBONS	53		

PROJ_NO: 0123

SDG: WU0050 MEDIA: SOIL DATA FRACTION: PET

nsample	MPT-45-D3-2'	nsample	MPT-45-D4-2'	nsample	MPT-45-E4-2'
samp_date	1/5/2004	samp_date	1/5/2004	samp_date	1/5/2004
lab_id	WU0050-13DL	lab_id	WU0050-14	lab_id	WU0050-15
qc_type	NM	qc_type	NM	qc_type	NM
units	MG/KG	units	MG/KG	units	MG/KG
Pct_Solids	93.3	Pct_Solids	86.8	Pct_Solids	87.5
DUP_OF:		DUP_OF:		DUP_OF:	

Parameter	Result	Val Qual	Qual Code
TOTAL PETROLEUM HYDROCARBONS	620	J	C

Parameter	Result	Val Qual	Qual Code
TOTAL PETROLEUM HYDROCARBONS	23	U	A

Parameter	Result	Val Qual	Qual Code
TOTAL PETROLEUM HYDROCARBONS	23	U	A

PROJ_NO: 0123

SDG: WU0050 MEDIA: SOIL DATA FRACTION: PET

nsample	MPT-45-E4-5'
samp_date	1/5/2004
lab_id	WU0050-16
qc_type	NM
units	MG/KG
Pct_Solids	94.0
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
TOTAL PETROLEUM HYDROCARBONS	21	U	A

APPENDIX B

RESULTS AS REPORTED BY THE LABORATORY

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO91 NS MAYPORT
PO No:
Sample Date: 01/05/04
Received Date: 01/09/04
Extraction Date: 01/12/04
Analysis Date: 01/15/04
Report Date: 01/21/2004
Matrix: SOIL
% Solids: 91.2

Lab ID: WU0050-1
Client ID: MPT-45-A1-2'
SDG: WU0050
Extracted by: NB
Extraction Method: SW846 3550
Analyst: JCG
Analysis Method: SW846 8270C
Lab Prep Batch: WG5369
Units: ug/Kg

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
108-95-2	Phenol	U	360	1.0	330	360	76
111-44-4	Bis(2-Chloroethyl)ether	U	360	1.0	330	360	37
95-57-8	2-Chlorophenol	U	360	1.0	330	360	140
541-73-1	1,3-Dichlorobenzene	U	360	1.0	330	360	38
106-46-7	1,4-Dichlorobenzene	U	360	1.0	330	360	38
95-50-1	1,2-Dichlorobenzene	U	360	1.0	330	360	41
108-60-1	2,2'-Oxybis(1-Chloropropane)	U	360	1.0	330	360	38
95-48-7	2-Methylphenol	U	360	1.0	330	360	89
67-72-1	Hexachloroethane	U	360	1.0	330	360	30
621-64-7	N-Nitroso-di-n-propylamine	U	360	1.0	330	360	33
106-44-5	4-Methylphenol	U	360	1.0	330	360	82
98-95-3	Nitrobenzene	U	360	1.0	330	360	38
78-59-1	Isophorone	U	360	1.0	330	360	29
88-75-5	2-Nitrophenol	U	360	1.0	330	360	96
105-67-9	2,4-Dimethylphenol	U	360	1.0	330	360	86
111-91-1	Bis(2-Chloroethoxy)methane	U	360	1.0	330	360	29
120-83-2	2,4-Dichlorophenol	U	360	1.0	330	360	95
120-82-1	1,2,4-Trichlorobenzene	U	360	1.0	330	360	56
106-47-8	4-Chloroaniline	U	360	1.0	330	360	26
87-68-3	Hexachlorobutadiene	U	360	1.0	330	360	63
59-50-7	4-Chloro-3-Methylphenol	U	360	1.0	330	360	78
77-47-4	Hexachlorocyclopentadiene	U	360	1.0	330	360	28
88-06-2	2,4,6-Trichlorophenol	U	360	1.0	330	360	99
95-95-4	2,4,5-Trichlorophenol	U	900	1.0	820	900	97
91-58-7	2-Chloronaphthalene	U	360	1.0	330	360	34
88-74-4	2-Nitroaniline	U	900	1.0	820	900	73
131-11-3	Dimethyl Phthalate	U	360	1.0	330	360	32
606-20-2	2,6-Dinitrotoluene	U	360	1.0	330	360	54
99-09-2	3-Nitroaniline	U	900	1.0	820	900	69
51-28-5	2,4-Dinitrophenol	U	900	1.0	820	900	180
132-64-9	Dibenzofuran	U	360	1.0	330	360	48
100-02-7	4-Nitrophenol	U	900	1.0	820	900	150
121-14-2	2,4-Dinitrotoluene	U	360	1.0	330	360	44
84-66-2	Diethylphthalate	U	360	1.0	330	360	36
7005-72-3	4-Chlorophenyl-phenylether	U	360	1.0	330	360	43
100-01-6	4-Nitroaniline	U	900	1.0	820	900	100
534-52-1	4,6-Dinitro-2-Methylphenol	U	900	1.0	820	900	72
86-30-6	N-Nitrosodiphenylamine	U	360	1.0	330	360	70
101-55-3	4-Bromophenyl-phenylether	U	360	1.0	330	360	46
118-74-1	Hexachlorobenzene	U	360	1.0	330	360	97
87-86-5	Pentachlorophenol	U	900	1.0	820	900	160
86-74-8	Carbazole	U	360	1.0	330	360	28
84-74-2	Di-n-butylphthalate	J	350	1.0	330	360	45

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO91 NS MAYPORT
PO No:
Sample Date: 01/05/04
Received Date: 01/09/04
Extraction Date: 01/12/04
Analysis Date: 01/15/04
Report Date: 01/21/2004
Matrix: SOIL
% Solids: 91.2

Lab ID: WU0050-1
Client ID: MPT-45-A1-2'
SDG: WU0050
Extracted by: NB
Extraction Method: SW846 3550
Analyst: JCG
Analysis Method: SW846 8270C
Lab Prep Batch: WG5369
Units: ug/Kg

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
85-68-7	Butylbenzylphthalate	U	360	1.0	330	360	100
91-94-1	3,3'-Dichlorobenzidine	U	360	1.0	330	360	180
117-81-7	bis(2-Ethylhexyl)phthalate	U	360	1.0	330	360	160
117-84-0	Di-n-octylphthalate	U	360	1.0	330	360	210
367-12-4	2-Fluorophenol		74%				
13127-88-3	Phenol-D6		78%				
4165-60-0	Nitrobenzene-D5		72%				
321-60-8	2-Fluorobiphenyl		72%				
118-79-6	2,4,6-Tribromophenol		88%				
1718-51-0	Terphenyl-D14		109%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO91 NS MAYPORT
PO No:
Sample Date: 01/05/04
Received Date: 01/09/04
Extraction Date: 01/12/04
Analysis Date: 01/15/04
Report Date: 01/21/2004
Matrix: SOIL
% Solids: 93.0

Lab ID: WU0050-2
Client ID: MPT-45-A2-2'
SDG: WU0050
Extracted by: NB
Extraction Method: SW846 3550
Analyst: JCG
Analysis Method: SW846 8270C
Lab Prep Batch: WG5369
Units: ug/Kg

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
108-95-2	Phenol	U	350	1.0	330	350	74
111-44-4	Bis(2-Chloroethyl)ether	U	350	1.0	330	350	36
95-57-8	2-Chlorophenol	U	350	1.0	330	350	140
541-73-1	1,3-Dichlorobenzene	U	350	1.0	330	350	37
106-46-7	1,4-Dichlorobenzene	U	350	1.0	330	350	37
95-50-1	1,2-Dichlorobenzene	U	350	1.0	330	350	40
108-60-1	2,2'-Oxybis(1-Chloropropane)	U	350	1.0	330	350	37
95-48-7	2-Methylphenol	U	350	1.0	330	350	87
67-72-1	Hexachloroethane	U	350	1.0	330	350	30
621-64-7	N-Nitroso-di-n-propylamine	U	350	1.0	330	350	33
106-44-5	4-Methylphenol	U	350	1.0	330	350	81
98-95-3	Nitrobenzene	U	350	1.0	330	350	37
78-59-1	Isophorone	U	350	1.0	330	350	28
88-75-5	2-Nitrophenol	U	350	1.0	330	350	95
105-67-9	2,4-Dimethylphenol	U	350	1.0	330	350	84
111-91-1	Bis(2-Chloroethoxy)methane	U	350	1.0	330	350	29
120-83-2	2,4-Dichlorophenol	U	350	1.0	330	350	93
120-82-1	1,2,4-Trichlorobenzene	U	350	1.0	330	350	55
106-47-8	4-Chloroaniline	U	350	1.0	330	350	26
87-68-3	Hexachlorobutadiene	U	350	1.0	330	350	61
59-50-7	4-Chloro-3-Methylphenol	U	350	1.0	330	350	76
77-47-4	Hexachlorocyclopentadiene	U	350	1.0	330	350	28
88-06-2	2,4,6-Trichlorophenol	U	350	1.0	330	350	97
95-95-4	2,4,5-Trichlorophenol	U	880	1.0	820	880	95
91-58-7	2-Chloronaphthalene	U	350	1.0	330	350	33
88-74-4	2-Nitroaniline	U	880	1.0	820	880	71
131-11-3	Dimethyl Phthalate	U	350	1.0	330	350	32
606-20-2	2,6-Dinitrotoluene	U	350	1.0	330	350	53
99-09-2	3-Nitroaniline	U	880	1.0	820	880	67
51-28-5	2,4-Dinitrophenol	U	880	1.0	820	880	180
132-64-9	Dibenzofuran	U	350	1.0	330	350	47
100-02-7	4-Nitrophenol	U	880	1.0	820	880	140
121-14-2	2,4-Dinitrotoluene	U	350	1.0	330	350	43
84-66-2	Diethylphthalate	U	350	1.0	330	350	36
7005-72-3	4-Chlorophenyl-phenylether	U	350	1.0	330	350	42
100-01-6	4-Nitroaniline	U	880	1.0	820	880	100
534-52-1	4,6-Dinitro-2-Methylphenol	U	880	1.0	820	880	71
86-30-6	N-Nitrosodiphenylamine	U	350	1.0	330	350	69
101-55-3	4-Bromophenyl-phenylether	U	350	1.0	330	350	45
118-74-1	Hexachlorobenzene	U	350	1.0	330	350	96
87-86-5	Pentachlorophenol	U	880	1.0	820	880	160
86-74-8	Carbazole	U	350	1.0	330	350	28
84-74-2	Di-n-butylphthalate		360	1.0	330	350	44

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO91 NS MAYPORT
PO No:
Sample Date: 01/05/04
Received Date: 01/09/04
Extraction Date: 01/12/04
Analysis Date: 01/15/04
Report Date: 01/21/2004
Matrix: SOIL
% Solids: 93.0

Lab ID: WU0050-2
Client ID: MPT-45-A2-2'
SDG: WU0050
Extracted by: NB
Extraction Method: SW846 3550
Analyst: JCG
Analysis Method: SW846 8270C
Lab Prep Batch: WG5369
Units: ug/Kg

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
85-68-7	Butylbenzylphthalate	U	350	1.0	330	350	100
91-94-1	3,3'-Dichlorobenzidine	U	350	1.0	330	350	180
117-81-7	bis(2-Ethylhexyl)phthalate	J	190	1.0	330	350	160
117-84-0	Di-n-octylphthalate	U	350	1.0	330	350	210
367-12-4	2-Fluorophenol		84%				
13127-88-3	Phenol-D6		92%				
4165-60-0	Nitrobenzene-D5		80%				
321-60-8	2-Fluorobiphenyl		75%				
118-79-6	2,4,6-Tribromophenol		100%				
1718-51-0	Terphenyl-D14		116%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO91 NS MAYPORT
PO No:
Sample Date: 01/05/04
Received Date: 01/09/04
Extraction Date: 01/12/04
Analysis Date: 01/15/04
Report Date: 01/21/2004
Matrix: SOIL
% Solids: 95.4

Lab ID: WU0050-3
Client ID: MPT-45-A3-2'
SDG: WU0050
Extracted by: NB
Extraction Method: SW846 3550
Analyst: JCG
Analysis Method: SW846 8270C
Lab Prep Batch: WG5369
Units: ug/Kg

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
108-95-2	Phenol	U	340	1.0	330	340	72
111-44-4	Bis(2-Chloroethyl)ether	U	340	1.0	330	340	36
95-57-8	2-Chlorophenol	U	340	1.0	330	340	130
541-73-1	1,3-Dichlorobenzene	U	340	1.0	330	340	36
106-46-7	1,4-Dichlorobenzene	U	340	1.0	330	340	36
95-50-1	1,2-Dichlorobenzene	U	340	1.0	330	340	39
108-60-1	2,2'-Oxybis(1-Chloropropane)	U	340	1.0	330	340	36
95-48-7	2-Methylphenol	U	340	1.0	330	340	85
67-72-1	Hexachloroethane	U	340	1.0	330	340	29
621-64-7	N-Nitroso-di-n-propylamine	U	340	1.0	330	340	32
106-44-5	4-Methylphenol	U	340	1.0	330	340	79
98-95-3	Nitrobenzene	U	340	1.0	330	340	36
78-59-1	Isophorone	U	340	1.0	330	340	28
88-75-5	2-Nitrophenol	U	340	1.0	330	340	92
105-67-9	2,4-Dimethylphenol	U	340	1.0	330	340	82
111-91-1	Bis(2-Chloroethoxy)methane	U	340	1.0	330	340	28
120-83-2	2,4-Dichlorophenol	U	340	1.0	330	340	91
120-82-1	1,2,4-Trichlorobenzene	U	340	1.0	330	340	54
106-47-8	4-Chloroaniline	U	340	1.0	330	340	25
87-68-3	Hexachlorobutadiene	U	340	1.0	330	340	60
59-50-7	4-Chloro-3-Methylphenol	U	340	1.0	330	340	74
77-47-4	Hexachlorocyclopentadiene	U	340	1.0	330	340	27
88-06-2	2,4,6-Trichlorophenol	U	340	1.0	330	340	95
95-95-4	2,4,5-Trichlorophenol	U	860	1.0	820	860	92
91-58-7	2-Chloronaphthalene	U	340	1.0	330	340	32
88-74-4	2-Nitroaniline	U	860	1.0	820	860	70
131-11-3	Dimethyl Phthalate	U	340	1.0	330	340	31
606-20-2	2,6-Dinitrotoluene	U	340	1.0	330	340	52
99-09-2	3-Nitroaniline	U	860	1.0	820	860	66
51-28-5	2,4-Dinitrophenol	U	860	1.0	820	860	170
132-64-9	Dibenzofuran	U	340	1.0	330	340	46
100-02-7	4-Nitrophenol	U	860	1.0	820	860	140
121-14-2	2,4-Dinitrotoluene	U	340	1.0	330	340	42
84-66-2	Diethylphthalate	U	340	1.0	330	340	35
7005-72-3	4-Chlorophenyl-phenylether	U	340	1.0	330	340	41
100-01-6	4-Nitroaniline	U	860	1.0	820	860	98
534-52-1	4,6-Dinitro-2-Methylphenol	U	860	1.0	820	860	69
86-30-6	N-Nitrosodiphenylamine	U	340	1.0	330	340	67
101-55-3	4-Bromophenyl-phenylether	U	340	1.0	330	340	44
118-74-1	Hexachlorobenzene	U	340	1.0	330	340	93
87-86-5	Pentachlorophenol	U	860	1.0	820	860	150
86-74-8	Carbazole	U	340	1.0	330	340	27
84-74-2	Di-n-butylphthalate		360	1.0	330	340	43

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO91 NS MAYPORT
PO No:
Sample Date: 01/05/04
Received Date: 01/09/04
Extraction Date: 01/12/04
Analysis Date: 01/15/04
Report Date: 01/21/2004
Matrix: SOIL
% Solids: 95.4

Lab ID: WU0050-3
Client ID: MPT-45-A3-2'
SDG: WU0050
Extracted by: NB
Extraction Method: SW846 3550
Analyst: JCG
Analysis Method: SW846 8270C
Lab Prep Batch: WG5369
Units: ug/Kg

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
85-68-7	Butylbenzylphthalate	U	340	1.0	330	340	97
91-94-1	3,3'-Dichlorobenzidine	U	340	1.0	330	340	170
117-81-7	bis(2-Ethylhexyl)phthalate	J	210	1.0	330	340	150
117-84-0	Di-n-octylphthalate	U	340	1.0	330	340	200
367-12-4	2-Fluorophenol		80%				
13127-88-3	Phenol-D6		92%				
4165-60-0	Nitrobenzene-D5		90%				
321-60-8	2-Fluorobiphenyl		82%				
118-79-6	2,4,6-Tribromophenol		99%				
1718-51-0	Terphenyl-D14		121%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO91 NS MAYPORT
PO No:
Sample Date: 01/05/04
Received Date: 01/09/04
Extraction Date: 01/12/04
Analysis Date: 01/15/04
Report Date: 01/21/2004
Matrix: SOIL
% Solids: 92.7

Lab ID: WU0050-4
Client ID: MPT-45-A4-2'
SDG: WU0050
Extracted by: NB
Extraction Method: SW846 3550
Analyst: JCG
Analysis Method: SW846 8270C
Lab Prep Batch: WG5369
Units: ug/Kg

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
108-95-2	Phenol	U	360	1.0	330	360	74
111-44-4	Bis(2-Chloroethyl)ether	U	360	1.0	330	360	37
95-57-8	2-Chlorophenol	U	360	1.0	330	360	140
541-73-1	1,3-Dichlorobenzene	U	360	1.0	330	360	37
106-46-7	1,4-Dichlorobenzene	U	360	1.0	330	360	37
95-50-1	1,2-Dichlorobenzene	U	360	1.0	330	360	40
108-60-1	2,2'-Oxybis(1-Chloropropane)	U	360	1.0	330	360	37
95-48-7	2-Methylphenol	U	360	1.0	330	360	88
67-72-1	Hexachloroethane	U	360	1.0	330	360	30
621-64-7	N-Nitroso-di-n-propylamine	U	360	1.0	330	360	33
106-44-5	4-Methylphenol	U	360	1.0	330	360	81
98-95-3	Nitrobenzene	U	360	1.0	330	360	37
78-59-1	Isophorone	U	360	1.0	330	360	28
88-75-5	2-Nitrophenol	U	360	1.0	330	360	95
105-67-9	2,4-Dimethylphenol	U	360	1.0	330	360	85
111-91-1	Bis(2-Chloroethoxy)methane	U	360	1.0	330	360	29
120-83-2	2,4-Dichlorophenol	U	360	1.0	330	360	93
120-82-1	1,2,4-Trichlorobenzene	U	360	1.0	330	360	55
106-47-8	4-Chloroaniline	U	360	1.0	330	360	26
87-68-3	Hexachlorobutadiene	U	360	1.0	330	360	62
59-50-7	4-Chloro-3-Methylphenol	U	360	1.0	330	360	76
77-47-4	Hexachlorocyclopentadiene	U	360	1.0	330	360	28
88-06-2	2,4,6-Trichlorophenol	U	360	1.0	330	360	97
95-95-4	2,4,5-Trichlorophenol	U	880	1.0	820	880	95
91-58-7	2-Chloronaphthalene	U	360	1.0	330	360	33
88-74-4	2-Nitroaniline	U	880	1.0	820	880	72
131-11-3	Dimethyl Phthalate	U	360	1.0	330	360	32
606-20-2	2,6-Dinitrotoluene	U	360	1.0	330	360	53
99-09-2	3-Nitroaniline	U	880	1.0	820	880	68
51-28-5	2,4-Dinitrophenol	U	880	1.0	820	880	180
132-64-9	Dibenzofuran	U	360	1.0	330	360	47
100-02-7	4-Nitrophenol	U	880	1.0	820	880	150
121-14-2	2,4-Dinitrotoluene	U	360	1.0	330	360	44
84-66-2	Diethylphthalate	J	110	1.0	330	360	36
7005-72-3	4-Chlorophenyl-phenylether	U	360	1.0	330	360	43
100-01-6	4-Nitroaniline	U	880	1.0	820	880	100
534-52-1	4,6-Dinitro-2-Methylphenol	U	880	1.0	820	880	71
86-30-6	N-Nitrosodiphenylamine	U	360	1.0	330	360	69
101-55-3	4-Bromophenyl-phenylether	U	360	1.0	330	360	45
118-74-1	Hexachlorobenzene	U	360	1.0	330	360	96
87-86-5	Pentachlorophenol	U	880	1.0	820	880	160
86-74-8	Carbazole	U	360	1.0	330	360	28
84-74-2	Di-n-butylphthalate		440	1.0	330	360	44

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO91 NS MAYPORT
PO No:
Sample Date: 01/05/04
Received Date: 01/09/04
Extraction Date: 01/12/04
Analysis Date: 01/15/04
Report Date: 01/21/2004
Matrix: SOIL
% Solids: 92.7

Lab ID: WU0050-4
Client ID: MPT-45-A4-2'
SDG: WU0050
Extracted by: NB
Extraction Method: SW846 3550
Analyst: JCG
Analysis Method: SW846 8270C
Lab Prep Batch: WG5369
Units: ug/Kg

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
85-68-7	Butylbenzylphthalate	U	360	1.0	330	360	100
91-94-1	3,3'-Dichlorobenzidine	U	360	1.0	330	360	180
117-81-7	bis(2-Ethylhexyl)phthalate	J	280	1.0	330	360	160
117-84-0	Di-n-octylphthalate	U	360	1.0	330	360	210
367-12-4	2-Fluorophenol		86%				
13127-88-3	Phenol-D6		92%				
4165-60-0	Nitrobenzene-D5		86%				
321-60-8	2-Fluorobiphenyl		82%				
118-79-6	2,4,6-Tribromophenol		98%				
1718-51-0	Terphenyl-D14		122%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO91 NS MAYPORT
PO No:
Sample Date: 01/05/04
Received Date: 01/09/04
Extraction Date: 01/12/04
Analysis Date: 01/15/04
Report Date: 01/21/2004
Matrix: SOIL
% Solids: 90.8

Lab ID: WU0050-5
Client ID: MPT-45-B1-2'
SDG: WU0050
Extracted by: NB
Extraction Method: SW846 3550
Analyst: JCG
Analysis Method: SW846 8270C
Lab Prep Batch: WG5369
Units: ug/Kg

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
108-95-2	Phenol	U	360	1.0	330	360	76
111-44-4	Bis(2-Chloroethyl)ether	U	360	1.0	330	360	37
95-57-8	2-Chlorophenol	U	360	1.0	330	360	140
541-73-1	1,3-Dichlorobenzene	U	360	1.0	330	360	38
106-46-7	1,4-Dichlorobenzene	U	360	1.0	330	360	38
95-50-1	1,2-Dichlorobenzene	U	360	1.0	330	360	41
108-60-1	2,2'-Oxybis(1-Chloropropane)	U	360	1.0	330	360	38
95-48-7	2-Methylphenol	U	360	1.0	330	360	90
67-72-1	Hexachloroethane	U	360	1.0	330	360	31
621-64-7	N-Nitroso-di-n-propylamine	U	360	1.0	330	360	34
106-44-5	4-Methylphenol	U	360	1.0	330	360	83
98-95-3	Nitrobenzene	U	360	1.0	330	360	38
78-59-1	Isophorone	U	360	1.0	330	360	29
88-75-5	2-Nitrophenol	U	360	1.0	330	360	97
105-67-9	2,4-Dimethylphenol	U	360	1.0	330	360	86
111-91-1	Bis(2-Chloroethoxy)methane	U	360	1.0	330	360	29
120-83-2	2,4-Dichlorophenol	U	360	1.0	330	360	95
120-82-1	1,2,4-Trichlorobenzene	U	360	1.0	330	360	56
106-47-8	4-Chloroaniline	U	360	1.0	330	360	26
87-68-3	Hexachlorobutadiene	U	360	1.0	330	360	63
59-50-7	4-Chloro-3-Methylphenol	U	360	1.0	330	360	78
77-47-4	Hexachlorocyclopentadiene	U	360	1.0	330	360	28
88-06-2	2,4,6-Trichlorophenol	U	360	1.0	330	360	99
95-95-4	2,4,5-Trichlorophenol	U	900	1.0	820	900	97
91-58-7	2-Chloronaphthalene	U	360	1.0	330	360	34
88-74-4	2-Nitroaniline	U	900	1.0	820	900	73
131-11-3	Dimethyl Phthalate	U	360	1.0	330	360	32
606-20-2	2,6-Dinitrotoluene	U	360	1.0	330	360	54
99-09-2	3-Nitroaniline	U	900	1.0	820	900	69
51-28-5	2,4-Dinitrophenol	U	900	1.0	820	900	180
132-64-9	Dibenzofuran	J	150	1.0	330	360	48
100-02-7	4-Nitrophenol	U	900	1.0	820	900	150
121-14-2	2,4-Dinitrotoluene	U	360	1.0	330	360	44
84-66-2	Diethylphthalate	J	110	1.0	330	360	36
7005-72-3	4-Chlorophenyl-phenylether	U	360	1.0	330	360	44
100-01-6	4-Nitroaniline	U	900	1.0	820	900	100
534-52-1	4,6-Dinitro-2-Methylphenol	U	900	1.0	820	900	73
86-30-6	N-Nitrosodiphenylamine	U	360	1.0	330	360	71
101-55-3	4-Bromophenyl-phenylether	U	360	1.0	330	360	46
118-74-1	Hexachlorobenzene	U	360	1.0	330	360	98
87-86-5	Pentachlorophenol	U	900	1.0	820	900	160
86-74-8	Carbazole	J	170	1.0	330	360	28
84-74-2	Di-n-butylphthalate	J	360	1.0	330	360	45

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO91 NS MAYPORT
PO No:
Sample Date: 01/05/04
Received Date: 01/09/04
Extraction Date: 01/12/04
Analysis Date: 01/15/04
Report Date: 01/21/2004
Matrix: SOIL
% Solids: 90.8

Lab ID: WU0050-5
Client ID: MPT-45-B1-2'
SDG: WU0050
Extracted by: NB
Extraction Method: SW846 3550
Analyst: JCG
Analysis Method: SW846 8270C
Lab Prep Batch: WG5369
Units: ug/Kg

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
85-68-7	Butylbenzylphthalate	U	360	1.0	330	360	100
91-94-1	3,3'-Dichlorobenzidine	U	360	1.0	330	360	180
117-81-7	bis(2-Ethylhexyl)phthalate		390	1.0	330	360	160
117-84-0	Di-n-octylphthalate	U	360	1.0	330	360	210
367-12-4	2-Fluorophenol		74%				
13127-88-3	Phenol-D6		86%				
4165-60-0	Nitrobenzene-D5		78%				
321-60-8	2-Fluorobiphenyl		72%				
118-79-6	2,4,6-Tribromophenol		86%				
1718-51-0	Terphenyl-D14		127%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO91 NS MAYPORT
PO No:
Sample Date: 01/05/04
Received Date: 01/09/04
Extraction Date: 01/12/04
Analysis Date: 01/16/04
Report Date: 01/21/2004
Matrix: SOIL
% Solids: 95.8

Lab ID: WU0050-6RA
Client ID: MPT-45-B2-2'
SDG: WU0050
Extracted by: NB
Extraction Method: SW846 3550
Analyst: JCG
Analysis Method: SW846 8270C
Lab Prep Batch: WG5369
Units: ug/Kg

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
108-95-2	Phenol	U	340	1.0	330	340	72
111-44-4	Bis(2-Chloroethyl)ether	U	340	1.0	330	340	35
95-57-8	2-Chlorophenol	U	340	1.0	330	340	130
541-73-1	1,3-Dichlorobenzene	U	340	1.0	330	340	36
106-46-7	1,4-Dichlorobenzene	U	340	1.0	330	340	36
95-50-1	1,2-Dichlorobenzene	U	340	1.0	330	340	39
108-60-1	2,2'-Oxybis(1-Chloropropane)	U	340	1.0	330	340	36
95-48-7	2-Methylphenol	U	340	1.0	330	340	85
67-72-1	Hexachloroethane	U	340	1.0	330	340	29
621-64-7	N-Nitroso-di-n-propylamine	U	340	1.0	330	340	32
106-44-5	4-Methylphenol	U	340	1.0	330	340	78
98-95-3	Nitrobenzene	U	340	1.0	330	340	36
78-59-1	Isophorone	U	340	1.0	330	340	27
88-75-5	2-Nitrophenol	U	340	1.0	330	340	92
105-67-9	2,4-Dimethylphenol	U	340	1.0	330	340	82
111-91-1	Bis(2-Chloroethoxy)methane	U	340	1.0	330	340	28
120-83-2	2,4-Dichlorophenol	U	340	1.0	330	340	90
120-82-1	1,2,4-Trichlorobenzene	U	340	1.0	330	340	54
106-47-8	4-Chloroaniline	U	340	1.0	330	340	25
87-68-3	Hexachlorobutadiene	U	340	1.0	330	340	60
59-50-7	4-Chloro-3-Methylphenol	U	340	1.0	330	340	74
77-47-4	Hexachlorocyclopentadiene	U	340	1.0	330	340	27
88-06-2	2,4,6-Trichlorophenol	U	340	1.0	330	340	94
95-95-4	2,4,5-Trichlorophenol	U	860	1.0	820	860	92
91-58-7	2-Chloronaphthalene	U	340	1.0	330	340	32
88-74-4	2-Nitroaniline	U	860	1.0	820	860	69
131-11-3	Dimethyl Phthalate	U	340	1.0	330	340	31
606-20-2	2,6-Dinitrotoluene	U	340	1.0	330	340	51
99-09-2	3-Nitroaniline	U	860	1.0	820	860	65
51-28-5	2,4-Dinitrophenol	U	860	1.0	820	860	170
132-64-9	Dibenzofuran	U	340	1.0	330	340	46
100-02-7	4-Nitrophenol	U	860	1.0	820	860	140
121-14-2	2,4-Dinitrotoluene	U	340	1.0	330	340	42
84-66-2	Diethylphthalate	JB	100	1.0	330	340	35
7005-72-3	4-Chlorophenyl-phenylether	U	340	1.0	330	340	41
100-01-6	4-Nitroaniline	U	860	1.0	820	860	97
534-52-1	4,6-Dinitro-2-Methylphenol	U	860	1.0	820	860	69
86-30-6	N-Nitrosodiphenylamine	U	340	1.0	330	340	67
101-55-3	4-Bromophenyl-phenylether	U	340	1.0	330	340	44
118-74-1	Hexachlorobenzene	U	340	1.0	330	340	93
87-86-5	Pentachlorophenol	U	860	1.0	820	860	150
86-74-8	Carbazole	J	340	1.0	330	340	27
84-74-2	Di-n-butylphthalate		540	1.0	330	340	43

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO91 NS MAYPORT
PO No:
Sample Date: 01/05/04
Received Date: 01/09/04
Extraction Date: 01/12/04
Analysis Date: 01/16/04
Report Date: 01/21/2004
Matrix: SOIL
% Solids: 95.8

Lab ID: WU0050-6RA
Client ID: MPT-45-B2-2'
SDG: WU0050
Extracted by: NB
Extraction Method: SW846 3550
Analyst: JCG
Analysis Method: SW846 8270C
Lab Prep Batch: WG5369
Units: ug/Kg

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
85-68-7	Butylbenzylphthalate	U	340	1.0	330	340	97
91-94-1	3,3'-Dichlorobenzidine	U	340	1.0	330	340	170
117-81-7	bis(2-Ethylhexyl)phthalate	J	230	1.0	330	340	150
117-84-0	Di-n-octylphthalate	J	330	1.0	330	340	200
367-12-4	2-Fluorophenol		105%				
13127-88-3	Phenol-D6		101%				
4165-60-0	Nitrobenzene-D5		105%				
321-60-8	2-Fluorobiphenyl		69%				
118-79-6	2,4,6-Tribromophenol		79%				
1718-51-0	Terphenyl-D14		97%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO91 NS MAYPORT
PO No:
Sample Date: 01/05/04
Received Date: 01/09/04
Extraction Date: 01/12/04
Analysis Date: 01/16/04
Report Date: 01/21/2004
Matrix: SOIL
% Solids: 91.4

Lab ID: WU0050-7
Client ID: MPT-45-B3-2'
SDG: WU0050
Extracted by: NB
Extraction Method: SW846 3550
Analyst: JCG
Analysis Method: SW846 8270C
Lab Prep Batch: wg5369
Units: ug/Kg

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
108-95-2	Phenol	U	360	1.0	330	360	75
111-44-4	Bis(2-Chloroethyl)ether	U	360	1.0	330	360	37
95-57-8	2-Chlorophenol	U	360	1.0	330	360	140
541-73-1	1,3-Dichlorobenzene	U	360	1.0	330	360	38
106-46-7	1,4-Dichlorobenzene	U	360	1.0	330	360	38
95-50-1	1,2-Dichlorobenzene	U	360	1.0	330	360	41
108-60-1	2,2'-Oxybis(1-Chloropropane)	U	360	1.0	330	360	38
95-48-7	2-Methylphenol	U	360	1.0	330	360	89
67-72-1	Hexachloroethane	U	360	1.0	330	360	30
621-64-7	N-Nitroso-di-n-propylamine	U	360	1.0	330	360	33
106-44-5	4-Methylphenol	U	360	1.0	330	360	82
98-95-3	Nitrobenzene	U	360	1.0	330	360	38
78-59-1	Isophorone	U	360	1.0	330	360	29
88-75-5	2-Nitrophenol	U	360	1.0	330	360	96
105-67-9	2,4-Dimethylphenol	U	360	1.0	330	360	86
111-91-1	Bis(2-Chloroethoxy)methane	U	360	1.0	330	360	29
120-83-2	2,4-Dichlorophenol	U	360	1.0	330	360	95
120-82-1	1,2,4-Trichlorobenzene	U	360	1.0	330	360	56
106-47-8	4-Chloroaniline	U	360	1.0	330	360	26
87-68-3	Hexachlorobutadiene	U	360	1.0	330	360	62
59-50-7	4-Chloro-3-Methylphenol	U	360	1.0	330	360	77
77-47-4	Hexachlorocyclopentadiene	U	360	1.0	330	360	28
88-06-2	2,4,6-Trichlorophenol	U	360	1.0	330	360	99
95-95-4	2,4,5-Trichlorophenol	U	900	1.0	820	900	97
91-58-7	2-Chloronaphthalene	U	360	1.0	330	360	34
88-74-4	2-Nitroaniline	U	900	1.0	820	900	73
131-11-3	Dimethyl Phthalate	U	360	1.0	330	360	32
606-20-2	2,6-Dinitrotoluene	U	360	1.0	330	360	54
99-09-2	3-Nitroaniline	U	900	1.0	820	900	68
51-28-5	2,4-Dinitrophenol	U	900	1.0	820	900	180
132-64-9	Dibenzofuran	U	360	1.0	330	360	48
100-02-7	4-Nitrophenol	U	900	1.0	820	900	150
121-14-2	2,4-Dinitrotoluene	U	360	1.0	330	360	44
84-66-2	Diethylphthalate	U	360	1.0	330	360	36
7005-72-3	4-Chlorophenyl-phenylether	U	360	1.0	330	360	43
100-01-6	4-Nitroaniline	U	900	1.0	820	900	100
534-52-1	4,6-Dinitro-2-Methylphenol	U	900	1.0	820	900	72
86-30-6	N-Nitrosodiphenylamine	U	360	1.0	330	360	70
101-55-3	4-Bromophenyl-phenylether	U	360	1.0	330	360	46
118-74-1	Hexachlorobenzene	U	360	1.0	330	360	97
87-86-5	Pentachlorophenol	U	900	1.0	820	900	160
86-74-8	Carbazole	J	340	1.0	330	360	28
84-74-2	Di-n-butylphthalate		930	1.0	330	360	45

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO91 NS MAYPORT
PO No:
Sample Date: 01/05/04
Received Date: 01/09/04
Extraction Date: 01/12/04
Analysis Date: 01/16/04
Report Date: 01/21/2004
Matrix: SOIL
% Solids: 91.4

Lab ID: WU0050-7
Client ID: MPT-45-B3-2'
SDG: WU0050
Extracted by: NB
Extraction Method: SW846 3550
Analyst: JCG
Analysis Method: SW846 8270C
Lab Prep Batch: wg5369
Units: ug/Kg

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
85-68-7	Butylbenzylphthalate	U	360	1.0	330	360	100
91-94-1	3,3'-Dichlorobenzidine	U	360	1.0	330	360	180
117-81-7	bis(2-Ethylhexyl)phthalate	J	260	1.0	330	360	160
117-84-0	Di-n-octylphthalate	J	340	1.0	330	360	210
367-12-4	2-Fluorophenol		88%				
13127-88-3	Phenol-D6		83%				
4165-60-0	Nitrobenzene-D5		88%				
321-60-8	2-Fluorobiphenyl		58%				
118-79-6	2,4,6-Tribromophenol		65%				
1718-51-0	Terphenyl-D14		76%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO91 NS MAYPORT
PO No:
Sample Date: 01/05/04
Received Date: 01/09/04
Extraction Date: 01/12/04
Analysis Date: 01/16/04
Report Date: 01/21/2004
Matrix: SOIL
% Solids: 95.8

Lab ID: WU0050-8
Client ID: MPT-45-B4-2'
SDG: WU0050
Extracted by: NB
Extraction Method: SW846 3550
Analyst: JCG
Analysis Method: SW846 8270C
Lab Prep Batch: WG5369
Units: ug/Kg

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
108-95-2	Phenol	U	340	1.0	330	340	72
111-44-4	Bis(2-Chloroethyl)ether	U	340	1.0	330	340	35
95-57-8	2-Chlorophenol	U	340	1.0	330	340	130
541-73-1	1,3-Dichlorobenzene	U	340	1.0	330	340	36
106-46-7	1,4-Dichlorobenzene	U	340	1.0	330	340	36
95-50-1	1,2-Dichlorobenzene	U	340	1.0	330	340	39
108-60-1	2,2'-Oxybis(1-Chloropropane)	U	340	1.0	330	340	36
95-48-7	2-Methylphenol	U	340	1.0	330	340	85
67-72-1	Hexachloroethane	U	340	1.0	330	340	29
621-64-7	N-Nitroso-di-n-propylamine	U	340	1.0	330	340	32
106-44-5	4-Methylphenol	U	340	1.0	330	340	78
98-95-3	Nitrobenzene	U	340	1.0	330	340	36
78-59-1	Isophorone	U	340	1.0	330	340	27
88-75-5	2-Nitrophenol	U	340	1.0	330	340	92
105-67-9	2,4-Dimethylphenol	U	340	1.0	330	340	82
111-91-1	Bis(2-Chloroethoxy)methane	U	340	1.0	330	340	28
120-83-2	2,4-Dichlorophenol	U	340	1.0	330	340	90
120-82-1	1,2,4-Trichlorobenzene	U	340	1.0	330	340	54
106-47-8	4-Chloroaniline	U	340	1.0	330	340	25
87-68-3	Hexachlorobutadiene	U	340	1.0	330	340	60
59-50-7	4-Chloro-3-Methylphenol	U	340	1.0	330	340	74
77-47-4	Hexachlorocyclopentadiene	U	340	1.0	330	340	27
88-06-2	2,4,6-Trichlorophenol	U	340	1.0	330	340	94
95-95-4	2,4,5-Trichlorophenol	U	860	1.0	820	860	92
91-58-7	2-Chloronaphthalene	U	340	1.0	330	340	32
88-74-4	2-Nitroaniline	U	860	1.0	820	860	69
131-11-3	Dimethyl Phthalate	U	340	1.0	330	340	31
606-20-2	2,6-Dinitrotoluene	U	340	1.0	330	340	51
99-09-2	3-Nitroaniline	U	860	1.0	820	860	65
51-28-5	2,4-Dinitrophenol	U	860	1.0	820	860	170
132-64-9	Dibenzofuran	U	340	1.0	330	340	46
100-02-7	4-Nitrophenol	U	860	1.0	820	860	140
121-14-2	2,4-Dinitrotoluene	U	340	1.0	330	340	42
84-66-2	Diethylphthalate	U	340	1.0	330	340	34
7005-72-3	4-Chlorophenyl-phenylether	U	340	1.0	330	340	41
100-01-6	4-Nitroaniline	U	860	1.0	820	860	97
534-52-1	4,6-Dinitro-2-Methylphenol	U	860	1.0	820	860	69
86-30-6	N-Nitrosodiphenylamine	U	340	1.0	330	340	67
101-55-3	4-Bromophenyl-phenylether	U	340	1.0	330	340	44
118-74-1	Hexachlorobenzene	U	340	1.0	330	340	93
87-86-5	Pentachlorophenol	U	860	1.0	820	860	150
86-74-8	Carbazole	J	320	1.0	330	340	27
84-74-2	Di-n-butylphthalate	J	310	1.0	330	340	43

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CT091 NS MAYPORT
PO No:
Sample Date: 01/05/04
Received Date: 01/09/04
Extraction Date: 01/12/04
Analysis Date: 01/16/04
Report Date: 01/21/2004
Matrix: SOIL
% Solids: 95.8

Lab ID: WU0050-8
Client ID: MPT-45-B4-2'
SDG: WU0050
Extracted by: NB
Extraction Method: SW846 3550
Analyst: JCG
Analysis Method: SW846 8270C
Lab Prep Batch: WG5369
Units: ug/Kg

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
85-68-7	Butylbenzylphthalate	U	340	1.0	330	340	97
91-94-1	3,3'-Dichlorobenzidine	U	340	1.0	330	340	170
117-81-7	bis(2-Ethylhexyl)phthalate	J	230	1.0	330	340	150
117-84-0	Di-n-octylphthalate	J	320	1.0	330	340	200
367-12-4	2-Fluorophenol		98%				
13127-88-3	Phenol-D6		92%				
4165-60-0	Nitrobenzene-D5		92%				
321-60-8	2-Fluorobiphenyl		67%				
118-79-6	2,4,6-Tribromophenol		81%				
1718-51-0	Terphenyl-D14		117%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO91 NS MAYPORT
PO No:
Sample Date: 01/05/04
Received Date: 01/09/04
Extraction Date: 01/12/04
Analysis Date: 01/16/04
Report Date: 01/21/2004
Matrix: SOIL
% Solids: 95.8

Lab ID: WU0050-8RA
Client ID: MPT-45-B4-2'
SDG: WU0050
Extracted by: NB
Extraction Method: SW846 3550
Analyst: JCG
Analysis Method: SW846 8270C
Lab Prep Batch: WG5369
Units: ug/Kg

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
108-95-2	Phenol	U	340	1.0	330	340	72
111-44-4	Bis(2-Chloroethyl)ether	U	340	1.0	330	340	35
95-57-8	2-Chlorophenol	U	340	1.0	330	340	130
541-73-1	1,3-Dichlorobenzene	U	340	1.0	330	340	36
106-46-7	1,4-Dichlorobenzene	U	340	1.0	330	340	36
95-50-1	1,2-Dichlorobenzene	U	340	1.0	330	340	39
108-60-1	2,2'-Oxybis(1-Chloropropane)	U	340	1.0	330	340	36
95-48-7	2-Methylphenol	U	340	1.0	330	340	85
67-72-1	Hexachloroethane	U	340	1.0	330	340	29
621-64-7	N-Nitroso-di-n-propylamine	U	340	1.0	330	340	32
106-44-5	4-Methylphenol	U	340	1.0	330	340	78
98-95-3	Nitrobenzene	U	340	1.0	330	340	36
78-59-1	Isophorone	U	340	1.0	330	340	27
88-75-5	2-Nitrophenol	U	340	1.0	330	340	92
105-67-9	2,4-Dimethylphenol	U	340	1.0	330	340	82
111-91-1	Bis(2-Chloroethoxy)methane	U	340	1.0	330	340	28
120-83-2	2,4-Dichlorophenol	U	340	1.0	330	340	90
120-82-1	1,2,4-Trichlorobenzene	U	340	1.0	330	340	54
106-47-8	4-Chloroaniline	U	340	1.0	330	340	25
87-68-3	Hexachlorobutadiene	U	340	1.0	330	340	60
59-50-7	4-Chloro-3-Methylphenol	U	340	1.0	330	340	74
77-47-4	Hexachlorocyclopentadiene	U	340	1.0	330	340	27
88-06-2	2,4,6-Trichlorophenol	U	340	1.0	330	340	94
95-95-4	2,4,5-Trichlorophenol	U	860	1.0	820	860	92
91-58-7	2-Chloronaphthalene	U	340	1.0	330	340	32
88-74-4	2-Nitroaniline	U	860	1.0	820	860	69
131-11-3	Dimethyl Phthalate	U	340	1.0	330	340	31
606-20-2	2,6-Dinitrotoluene	U	340	1.0	330	340	51
99-09-2	3-Nitroaniline	U	860	1.0	820	860	65
51-28-5	2,4-Dinitrophenol	U	860	1.0	820	860	170
132-64-9	Dibenzofuran	U	340	1.0	330	340	46
100-02-7	4-Nitrophenol	U	860	1.0	820	860	140
121-14-2	2,4-Dinitrotoluene	U	340	1.0	330	340	42
84-66-2	Diethylphthalate	U	340	1.0	330	340	34
7005-72-3	4-Chlorophenyl-phenylether	U	340	1.0	330	340	41
100-01-6	4-Nitroaniline	U	860	1.0	820	860	97
534-52-1	4,6-Dinitro-2-Methylphenol	U	860	1.0	820	860	69
86-30-6	N-Nitrosodiphenylamine	U	340	1.0	330	340	67
101-55-3	4-Bromophenyl-phenylether	U	340	1.0	330	340	44
118-74-1	Hexachlorobenzene	U	340	1.0	330	340	93
87-86-5	Pentachlorophenol	U	860	1.0	820	860	150
86-74-8	Carbazole	U	340	1.0	330	340	27
84-74-2	Di-n-butylphthalate	J	300	1.0	330	340	43

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO91 NS MAYPORT
PO No:
Sample Date: 01/05/04
Received Date: 01/09/04
Extraction Date: 01/12/04
Analysis Date: 01/16/04
Report Date: 01/21/2004
Matrix: SOIL
% Solids: 95.8

Lab ID: WU0050-8RA
Client ID: MPT-45-B4-2'
SDG: WU0050
Extracted by: NB
Extraction Method: SW846 3550
Analyst: JCG
Analysis Method: SW846 8270C
Lab Prep Batch: WG5369
Units: ug/Kg

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
85-68-7	Butylbenzylphthalate	U	340	1.0	330	340	97
91-94-1	3,3'-Dichlorobenzidine	U	340	1.0	330	340	170
117-81-7	bis(2-Ethylhexyl)phthalate	J	190	1.0	330	340	150
117-84-0	Di-n-octylphthalate	U	340	1.0	330	340	200
367-12-4	2-Fluorophenol		86%				
13127-88-3	Phenol-D6		80%				
4165-60-0	Nitrobenzene-D5		88%				
321-60-8	2-Fluorobiphenyl		66%				
118-79-6	2,4,6-Tribromophenol		82%				
1718-51-0	Terphenyl-D14		104%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO91 NS MAYPORT
PO No:
Sample Date: 01/05/04
Received Date: 01/09/04
Extraction Date: 01/12/04
Analysis Date: 01/16/04
Report Date: 01/21/2004
Matrix: SOIL
% Solids: 96.8

Lab ID: WU0050-9
Client ID: MPT-45-C1-2'
SDG: WU0050
Extracted by: NB
Extraction Method: SW846 3550
Analyst: JCG
Analysis Method: SW846 8270C
Lab Prep Batch: WG5369
Units: ug/Kg

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
108-95-2	Phenol	U	340	1.0	330	340	71
111-44-4	Bis(2-Chloroethyl)ether	U	340	1.0	330	340	35
95-57-8	2-Chlorophenol	U	340	1.0	330	340	130
541-73-1	1,3-Dichlorobenzene	U	340	1.0	330	340	36
106-46-7	1,4-Dichlorobenzene	U	340	1.0	330	340	35
95-50-1	1,2-Dichlorobenzene	U	340	1.0	330	340	38
108-60-1	2,2'-Oxybis(1-Chloropropane)	U	340	1.0	330	340	36
95-48-7	2-Methylphenol	U	340	1.0	330	340	84
67-72-1	Hexachloroethane	U	340	1.0	330	340	29
621-64-7	N-Nitroso-di-n-propylamine	U	340	1.0	330	340	31
106-44-5	4-Methylphenol	U	340	1.0	330	340	78
98-95-3	Nitrobenzene	U	340	1.0	330	340	36
78-59-1	Isophorone	U	340	1.0	330	340	27
88-75-5	2-Nitrophenol	U	340	1.0	330	340	91
105-67-9	2,4-Dimethylphenol	U	340	1.0	330	340	81
111-91-1	Bis(2-Chloroethoxy)methane	U	340	1.0	330	340	28
120-83-2	2,4-Dichlorophenol	U	340	1.0	330	340	89
120-82-1	1,2,4-Trichlorobenzene	U	340	1.0	330	340	53
106-47-8	4-Chloroaniline	U	340	1.0	330	340	25
87-68-3	Hexachlorobutadiene	U	340	1.0	330	340	59
59-50-7	4-Chloro-3-Methylphenol	U	340	1.0	330	340	73
77-47-4	Hexachlorocyclopentadiene	U	340	1.0	330	340	26
88-06-2	2,4,6-Trichlorophenol	U	340	1.0	330	340	93
95-95-4	2,4,5-Trichlorophenol	U	850	1.0	820	850	91
91-58-7	2-Chloronaphthalene	U	340	1.0	330	340	32
88-74-4	2-Nitroaniline	U	850	1.0	820	850	68
131-11-3	Dimethyl Phthalate	U	340	1.0	330	340	30
606-20-2	2,6-Dinitrotoluene	U	340	1.0	330	340	51
99-09-2	3-Nitroaniline	U	850	1.0	820	850	65
51-28-5	2,4-Dinitrophenol	U	850	1.0	820	850	170
132-64-9	Dibenzofuran	U	340	1.0	330	340	45
100-02-7	4-Nitrophenol	U	850	1.0	820	850	140
121-14-2	2,4-Dinitrotoluene	U	340	1.0	330	340	42
84-66-2	Diethylphthalate	U	340	1.0	330	340	34
7005-72-3	4-Chlorophenyl-phenylether	U	340	1.0	330	340	41
100-01-6	4-Nitroaniline	U	850	1.0	820	850	96
534-52-1	4,6-Dinitro-2-Methylphenol	U	850	1.0	820	850	68
86-30-6	N-Nitrosodiphenylamine	U	340	1.0	330	340	66
101-55-3	4-Bromophenyl-phenylether	U	340	1.0	330	340	43
118-74-1	Hexachlorobenzene	U	340	1.0	330	340	92
87-86-5	Pentachlorophenol	U	850	1.0	820	850	150
86-74-8	Carbazole	J	320	1.0	330	340	27
84-74-2	Di-n-butylphthalate	J	260	1.0	330	340	42

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO91 NS MAYPORT
PO No:
Sample Date: 01/05/04
Received Date: 01/09/04
Extraction Date: 01/12/04
Analysis Date: 01/16/04
Report Date: 01/21/2004
Matrix: SOIL
% Solids: 96.8

Lab ID: WU0050-9
Client ID: MPT-45-C1-2'
SDG: WU0050
Extracted by: NB
Extraction Method: SW846 3550
Analyst: JCG
Analysis Method: SW846 8270C
Lab Prep Batch: WG5369
Units: ug/Kg

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
85-68-7	Butylbenzylphthalate	U	340	1.0	330	340	96
91-94-1	3,3'-Dichlorobenzidine	U	340	1.0	330	340	170
117-81-7	bis(2-Ethylhexyl)phthalate	U	340	1.0	330	340	150
117-84-0	Di-n-octylphthalate	J	320	1.0	330	340	200
367-12-4	2-Fluorophenol		86%				
13127-88-3	Phenol-D6		80%				
4165-60-0	Nitrobenzene-D5		81%				
321-60-8	2-Fluorobiphenyl		57%				
118-79-6	2,4,6-Tribromophenol		76%				
1718-51-0	Terphenyl-D14		89%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO91 NS MAYPORT
PO No:
Sample Date: 01/05/04
Received Date: 01/09/04
Extraction Date: 01/12/04
Analysis Date: 01/16/04
Report Date: 01/21/2004
Matrix: SOIL
% Solids: 96.8

Lab ID: WU0050-9RA
Client ID: MPT-45-C1-2'
SDG: WU0050
Extracted by: NB
Extraction Method: SW846 3550
Analyst: JCG
Analysis Method: SW846 8270C
Lab Prep Batch: WG5369
Units: ug/Kg

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
108-95-2	Phenol	U	340	1.0	330	340	71
111-44-4	Bis(2-Chloroethyl)ether	U	340	1.0	330	340	35
95-57-8	2-Chlorophenol	U	340	1.0	330	340	130
541-73-1	1,3-Dichlorobenzene	U	340	1.0	330	340	36
106-46-7	1,4-Dichlorobenzene	U	340	1.0	330	340	35
95-50-1	1,2-Dichlorobenzene	U	340	1.0	330	340	38
108-60-1	2,2'-Oxybis(1-Chloropropane)	U	340	1.0	330	340	36
95-48-7	2-Methylphenol	U	340	1.0	330	340	84
67-72-1	Hexachloroethane	U	340	1.0	330	340	29
621-64-7	N-Nitroso-di-n-propylamine	U	340	1.0	330	340	31
106-44-5	4-Methylphenol	U	340	1.0	330	340	78
98-95-3	Nitrobenzene	U	340	1.0	330	340	36
78-59-1	Isophorone	U	340	1.0	330	340	27
88-75-5	2-Nitrophenol	U	340	1.0	330	340	91
105-67-9	2,4-Dimethylphenol	U	340	1.0	330	340	81
111-91-1	Bis(2-Chloroethoxy)methane	U	340	1.0	330	340	28
120-83-2	2,4-Dichlorophenol	U	340	1.0	330	340	89
120-82-1	1,2,4-Trichlorobenzene	U	340	1.0	330	340	53
106-47-8	4-Chloroaniline	U	340	1.0	330	340	25
87-68-3	Hexachlorobutadiene	U	340	1.0	330	340	59
59-50-7	4-Chloro-3-Methylphenol	U	340	1.0	330	340	73
77-47-4	Hexachlorocyclopentadiene	U	340	1.0	330	340	26
88-06-2	2,4,6-Trichlorophenol	U	340	1.0	330	340	93
95-95-4	2,4,5-Trichlorophenol	U	850	1.0	820	850	91
91-58-7	2-Chloronaphthalene	U	340	1.0	330	340	32
88-74-4	2-Nitroaniline	U	850	1.0	820	850	68
131-11-3	Dimethyl Phthalate	U	340	1.0	330	340	30
606-20-2	2,6-Dinitrotoluene	U	340	1.0	330	340	51
99-09-2	3-Nitroaniline	U	850	1.0	820	850	65
51-28-5	2,4-Dinitrophenol	U	850	1.0	820	850	170
132-64-9	Dibenzofuran	U	340	1.0	330	340	45
100-02-7	4-Nitrophenol	U	850	1.0	820	850	140
121-14-2	2,4-Dinitrotoluene	U	340	1.0	330	340	42
84-66-2	Diethylphthalate	U	340	1.0	330	340	34
7005-72-3	4-Chlorophenyl-phenylether	U	340	1.0	330	340	41
100-01-6	4-Nitroaniline	U	850	1.0	820	850	96
534-52-1	4,6-Dinitro-2-Methylphenol	U	850	1.0	820	850	68
86-30-6	N-Nitrosodiphenylamine	U	340	1.0	330	340	66
101-55-3	4-Bromophenyl-phenylether	U	340	1.0	330	340	43
118-74-1	Hexachlorobenzene	U	340	1.0	330	340	92
87-86-5	Pentachlorophenol	U	850	1.0	820	850	150
86-74-8	Carbazole	U	340	1.0	330	340	27
84-74-2	Di-n-butylphthalate	J	270	1.0	330	340	42

Sample Data Summary A0000023

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO91 NS MAYPORT
PO No:
Sample Date: 01/05/04
Received Date: 01/09/04
Extraction Date: 01/12/04
Analysis Date: 01/16/04
Report Date: 01/21/2004
Matrix: SOIL
% Solids: 96.8

Lab ID: WU0050-9RA
Client ID: MPT-45-C1-2'
SDG: WU0050
Extracted by: NB
Extraction Method: SW846 3550
Analyst: JCG
Analysis Method: SW846 8270C
Lab Prep Batch: WG5369
Units: ug/Kg

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
85-68-7	Butylbenzylphthalate	U	340	1.0	330	340	96
91-94-1	3,3'-Dichlorobenzidine	U	340	1.0	330	340	170
117-81-7	bis(2-Ethylhexyl)phthalate	U	340	1.0	330	340	150
117-84-0	Di-n-octylphthalate	U	340	1.0	330	340	200
367-12-4	2-Fluorophenol		81%				
13127-88-3	Phenol-D6		76%				
4165-60-0	Nitrobenzene-D5		87%				
321-60-8	2-Fluorobiphenyl		62%				
118-79-6	2,4,6-Tribromophenol		70%				
1718-51-0	Terphenyl-D14		98%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO91 NS MAYPORT
PO No:
Sample Date: 01/05/04
Received Date: 01/09/04
Extraction Date: 01/12/04
Analysis Date: 01/16/04
Report Date: 01/23/2004
Matrix: SOIL
% Solids: 95.8

Lab ID: WU0050-10
Client ID: MPT-45-C2-2'
SDG: WU0050
Extracted by: NB
Extraction Method: SW846 3550
Analyst: JCG
Analysis Method: SW846 8270C
Lab Prep Batch: WG5369
Units: ug/Kg

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
108-95-2	Phenol	U	340	1.0	330	340	72
111-44-4	Bis(2-Chloroethyl)ether	U	340	1.0	330	340	35
95-57-8	2-Chlorophenol	U	340	1.0	330	340	130
541-73-1	1,3-Dichlorobenzene	U	340	1.0	330	340	36
106-46-7	1,4-Dichlorobenzene	U	340	1.0	330	340	36
95-50-1	1,2-Dichlorobenzene	U	340	1.0	330	340	39
108-60-1	2,2'-Oxybis(1-Chloropropane)	U	340	1.0	330	340	36
95-48-7	2-Methylphenol	U	340	1.0	330	340	85
67-72-1	Hexachloroethane	U	340	1.0	330	340	29
621-64-7	N-Nitroso-di-n-propylamine	U	340	1.0	330	340	32
106-44-5	4-Methylphenol	U	340	1.0	330	340	78
98-95-3	Nitrobenzene	U	340	1.0	330	340	36
78-59-1	Isophorone	U	340	1.0	330	340	27
88-75-5	2-Nitrophenol	U	340	1.0	330	340	92
105-67-9	2,4-Dimethylphenol	U	340	1.0	330	340	82
111-91-1	Bis(2-Chloroethoxy)methane	U	340	1.0	330	340	28
120-83-2	2,4-Dichlorophenol	U	340	1.0	330	340	90
120-82-1	1,2,4-Trichlorobenzene	U	340	1.0	330	340	54
106-47-8	4-Chloroaniline	U	340	1.0	330	340	25
87-68-3	Hexachlorobutadiene	U	340	1.0	330	340	60
59-50-7	4-Chloro-3-Methylphenol	U	340	1.0	330	340	74
77-47-4	Hexachlorocyclopentadiene	U	340	1.0	330	340	27
88-06-2	2,4,6-Trichlorophenol	U	340	1.0	330	340	94
95-95-4	2,4,5-Trichlorophenol	U	860	1.0	820	860	92
91-58-7	2-Chloronaphthalene	U	340	1.0	330	340	32
88-74-4	2-Nitroaniline	U	860	1.0	820	860	69
131-11-3	Dimethyl Phthalate	U	340	1.0	330	340	31
606-20-2	2,6-Dinitrotoluene	U	340	1.0	330	340	51
99-09-2	3-Nitroaniline	U	860	1.0	820	860	65
51-28-5	2,4-Dinitrophenol	U	860	1.0	820	860	170
132-64-9	Dibenzofuran	U	340	1.0	330	340	46
100-02-7	4-Nitrophenol	U	860	1.0	820	860	140
121-14-2	2,4-Dinitrotoluene	U	340	1.0	330	340	42
84-66-2	Diethylphthalate	U	340	1.0	330	340	35
7005-72-3	4-Chlorophenyl-phenylether	U	340	1.0	330	340	41
100-01-6	4-Nitroaniline	U	860	1.0	820	860	97
534-52-1	4,6-Dinitro-2-Methylphenol	U	860	1.0	820	860	69
86-30-6	N-Nitrosodiphenylamine	U	340	1.0	330	340	67
101-55-3	4-Bromophenyl-phenylether	U	340	1.0	330	340	44
118-74-1	Hexachlorobenzene	U	340	1.0	330	340	93
87-86-5	Pentachlorophenol	U	860	1.0	820	860	150
86-74-8	Carbazole	J	320	1.0	330	340	27
84-74-2	Di-n-butylphthalate	J	340	1.0	330	340	43

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO91 NS MAYPORT
PO No:
Sample Date: 01/05/04
Received Date: 01/09/04
Extraction Date: 01/12/04
Analysis Date: 01/16/04
Report Date: 01/23/2004
Matrix: SOIL
% Solids: 95.8

Lab ID: WU0050-10
Client ID: MPT-45-C2-2'
SDG: WU0050
Extracted by: NB
Extraction Method: SW846 3550
Analyst: JCG
Analysis Method: SW846 8270C
Lab Prep Batch: WG5369
Units: ug/Kg

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
85-68-7	Butylbenzylphthalate	U	340	1.0	330	340	97
91-94-1	3,3'-Dichlorobenzidine	U	340	1.0	330	340	170
117-81-7	bis(2-Ethylhexyl)phthalate	U	340	1.0	330	340	150
117-84-0	Di-n-octylphthalate	J	320	1.0	330	340	200
367-12-4	2-Fluorophenol		92%				
13127-88-3	Phenol-D6		85%				
4165-60-0	Nitrobenzene-D5		89%				
321-60-8	2-Fluorobiphenyl		63%				
118-79-6	2,4,6-Tribromophenol		79%				
1718-51-0	Terphenyl-D14		92%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO91 NS MAYPORT
PO No:
Sample Date: 01/05/04
Received Date: 01/09/04
Extraction Date: 01/12/04
Analysis Date: 01/16/04
Report Date: 01/21/2004
Matrix: SOIL
% Solids: 95.8

Lab ID: WU0050-10RA
Client ID: MPT-45-C2-2'
SDG: WU0050
Extracted by: NB
Extraction Method: SW846 3550
Analyst: JCG
Analysis Method: SW846 8270C
Lab Prep Batch: WG5369
Units: ug/Kg

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
108-95-2	Phenol	U	340	1.0	330	340	72
111-44-4	Bis(2-Chloroethyl)ether	U	340	1.0	330	340	35
95-57-8	2-Chlorophenol	U	340	1.0	330	340	130
541-73-1	1,3-Dichlorobenzene	U	340	1.0	330	340	36
106-46-7	1,4-Dichlorobenzene	U	340	1.0	330	340	36
95-50-1	1,2-Dichlorobenzene	U	340	1.0	330	340	39
108-60-1	2,2'-Oxybis(1-Chloropropane)	U	340	1.0	330	340	36
95-48-7	2-Methylphenol	U	340	1.0	330	340	85
67-72-1	Hexachloroethane	U	340	1.0	330	340	29
621-64-7	N-Nitroso-di-n-propylamine	U	340	1.0	330	340	32
106-44-5	4-Methylphenol	U	340	1.0	330	340	78
98-95-3	Nitrobenzene	U	340	1.0	330	340	36
78-59-1	Isophorone	U	340	1.0	330	340	27
88-75-5	2-Nitrophenol	U	340	1.0	330	340	92
105-67-9	2,4-Dimethylphenol	U	340	1.0	330	340	82
111-91-1	Bis(2-Chloroethoxy)methane	U	340	1.0	330	340	28
120-83-2	2,4-Dichlorophenol	U	340	1.0	330	340	90
120-82-1	1,2,4-Trichlorobenzene	U	340	1.0	330	340	54
106-47-8	4-Chloroaniline	U	340	1.0	330	340	25
87-68-3	Hexachlorobutadiene	U	340	1.0	330	340	60
59-50-7	4-Chloro-3-Methylphenol	U	340	1.0	330	340	74
77-47-4	Hexachlorocyclopentadiene	U	340	1.0	330	340	27
88-06-2	2,4,6-Trichlorophenol	U	340	1.0	330	340	94
95-95-4	2,4,5-Trichlorophenol	U	860	1.0	820	860	92
91-58-7	2-Chloronaphthalene	U	340	1.0	330	340	32
88-74-4	2-Nitroaniline	U	860	1.0	820	860	69
131-11-3	Dimethyl Phthalate	U	340	1.0	330	340	31
606-20-2	2,6-Dinitrotoluene	U	340	1.0	330	340	51
99-09-2	3-Nitroaniline	U	860	1.0	820	860	65
51-28-5	2,4-Dinitrophenol	U	860	1.0	820	860	170
132-64-9	Dibenzofuran	U	340	1.0	330	340	46
100-02-7	4-Nitrophenol	U	860	1.0	820	860	140
121-14-2	2,4-Dinitrotoluene	U	340	1.0	330	340	42
84-66-2	Diethylphthalate	U	340	1.0	330	340	35
7005-72-3	4-Chlorophenyl-phenylether	U	340	1.0	330	340	41
100-01-6	4-Nitroaniline	U	860	1.0	820	860	97
534-52-1	4,6-Dinitro-2-Methylphenol	U	860	1.0	820	860	69
86-30-6	N-Nitrosodiphenylamine	U	340	1.0	330	340	67
101-55-3	4-Bromophenyl-phenylether	U	340	1.0	330	340	44
118-74-1	Hexachlorobenzene	U	340	1.0	330	340	93
87-86-5	Pentachlorophenol	U	860	1.0	820	860	150
86-74-8	Carbazole	J	320	1.0	330	340	27
84-74-2	Di-n-butylphthalate	J	340	1.0	330	340	43

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO91 NS MAYPORT
PO No:
Sample Date: 01/05/04
Received Date: 01/09/04
Extraction Date: 01/12/04
Analysis Date: 01/16/04
Report Date: 01/21/2004
Matrix: SOIL
% Solids: 95.8

Lab ID: WU0050-10RA
Client ID: MPT-45-C2-2'
SDG: WU0050
Extracted by: NB
Extraction Method: SW846 3550
Analyst: JCG
Analysis Method: SW846 8270C
Lab Prep Batch: WG5369
Units: ug/Kg

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
85-68-7	Butylbenzylphthalate	U	340	1.0	330	340	97
91-94-1	3,3'-Dichlorobenzidine	U	340	1.0	330	340	170
117-81-7	bis(2-Ethylhexyl)phthalate	U	340	1.0	330	340	150
117-84-0	Di-n-octylphthalate	U	340	1.0	330	340	200
367-12-4	2-Fluorophenol		83%				
13127-88-3	Phenol-D6		75%				
4165-60-0	Nitrobenzene-D5		83%				
321-60-8	2-Fluorobiphenyl		61%				
118-79-6	2,4,6-Tribromophenol		73%				
1718-51-0	Terphenyl-D14		99%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO91 NS MAYPORT
PO No:
Sample Date: 01/05/04
Received Date: 01/09/04
Extraction Date: 01/12/04
Analysis Date: 01/15/04
Report Date: 01/21/2004
Matrix: SOIL
% Solids: 94.9

Lab ID: WU0050-11
Client ID: MPT-45-C3-2'
SDG: WU0050
Extracted by: NB
Extraction Method: SW846 3550
Analyst: JCG
Analysis Method: SW846 8270C
Lab Prep Batch: WG5369
Units: ug/Kg

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
108-95-2	Phenol	U	350	1.0	330	350	72
111-44-4	Bis(2-Chloroethyl)ether	U	350	1.0	330	350	36
95-57-8	2-Chlorophenol	U	350	1.0	330	350	130
541-73-1	1,3-Dichlorobenzene	U	350	1.0	330	350	36
106-46-7	1,4-Dichlorobenzene	U	350	1.0	330	350	36
95-50-1	1,2-Dichlorobenzene	U	350	1.0	330	350	39
108-60-1	2,2'-Oxybis(1-Chloropropane)	U	350	1.0	330	350	36
95-48-7	2-Methylphenol	U	350	1.0	330	350	86
67-72-1	Hexachloroethane	U	350	1.0	330	350	29
621-64-7	N-Nitroso-di-n-propylamine	U	350	1.0	330	350	32
106-44-5	4-Methylphenol	U	350	1.0	330	350	79
98-95-3	Nitrobenzene	U	350	1.0	330	350	36
78-59-1	Isophorone	U	350	1.0	330	350	28
88-75-5	2-Nitrophenol	U	350	1.0	330	350	93
105-67-9	2,4-Dimethylphenol	U	350	1.0	330	350	83
111-91-1	Bis(2-Chloroethoxy)methane	U	350	1.0	330	350	28
120-83-2	2,4-Dichlorophenol	U	350	1.0	330	350	91
120-82-1	1,2,4-Trichlorobenzene	U	350	1.0	330	350	54
106-47-8	4-Chloroaniline	U	350	1.0	330	350	25
87-68-3	Hexachlorobutadiene	U	350	1.0	330	350	60
59-50-7	4-Chloro-3-Methylphenol	U	350	1.0	330	350	74
77-47-4	Hexachlorocyclopentadiene	U	350	1.0	330	350	27
88-06-2	2,4,6-Trichlorophenol	U	350	1.0	330	350	95
95-95-4	2,4,5-Trichlorophenol	U	860	1.0	820	860	93
91-58-7	2-Chloronaphthalene	U	350	1.0	330	350	33
88-74-4	2-Nitroaniline	U	860	1.0	820	860	70
131-11-3	Dimethyl Phthalate	U	350	1.0	330	350	31
606-20-2	2,6-Dinitrotoluene	U	350	1.0	330	350	52
99-09-2	3-Nitroaniline	U	860	1.0	820	860	66
51-28-5	2,4-Dinitrophenol	U	860	1.0	820	860	170
132-64-9	Dibenzofuran	U	350	1.0	330	350	46
100-02-7	4-Nitrophenol	U	860	1.0	820	860	140
121-14-2	2,4-Dinitrotoluene	U	350	1.0	330	350	42
84-66-2	Diethylphthalate	U	350	1.0	330	350	35
7005-72-3	4-Chlorophenyl-phenylether	U	350	1.0	330	350	42
100-01-6	4-Nitroaniline	U	860	1.0	820	860	98
534-52-1	4,6-Dinitro-2-Methylphenol	U	860	1.0	820	860	70
86-30-6	N-Nitrosodiphenylamine	U	350	1.0	330	350	68
101-55-3	4-Bromophenyl-phenylether	U	350	1.0	330	350	44
118-74-1	Hexachlorobenzene	U	350	1.0	330	350	94
87-86-5	Pentachlorophenol	U	860	1.0	820	860	150
86-74-8	Carbazole	J	340	1.0	330	350	27
84-74-2	Di-n-butylphthalate		390	1.0	330	350	43

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO91 NS MAYPORT
PO No:
Sample Date: 01/05/04
Received Date: 01/09/04
Extraction Date: 01/12/04
Analysis Date: 01/15/04
Report Date: 01/21/2004
Matrix: SOIL
% Solids: 94.9

Lab ID: WU0050-11
Client ID: MPT-45-C3-2'
SDG: WU0050
Extracted by: NB
Extraction Method: SW846 3550
Analyst: JCG
Analysis Method: SW846 8270C
Lab Prep Batch: WG5369
Units: ug/Kg

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
85-68-7	Butylbenzylphthalate		400	1.0	330	350	98
91-94-1	3,3'-Dichlorobenzidine	U	350	1.0	330	350	170
117-81-7	bis(2-Ethylhexyl)phthalate	J	260	1.0	330	350	150
117-84-0	Di-n-octylphthalate	J	320	1.0	330	350	200
367-12-4	2-Fluorophenol		93%				
13127-88-3	Phenol-D6		85%				
4165-60-0	Nitrobenzene-D5		85%				
321-60-8	2-Fluorobiphenyl		60%				
118-79-6	2,4,6-Tribromophenol		61%				
1718-51-0	Terphenyl-D14		83%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO91 NS MAYPORT
PO No:
Sample Date: 01/05/04
Received Date: 01/09/04
Extraction Date: 01/12/04
Analysis Date: 01/16/04
Report Date: 01/21/2004
Matrix: SOIL
% Solids: 94.9

Lab ID: WU0050-11RA
Client ID: MPT-45-C3-2'
SDG: WU0050
Extracted by: NB
Extraction Method: SW846 3550
Analyst: JCG
Analysis Method: SW846 8270C
Lab Prep Batch: SDGa01864
Units: ug/Kg

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
108-95-2	Phenol	U	350	1.0	330	350	72
111-44-4	Bis(2-Chloroethyl)ether	U	350	1.0	330	350	36
95-57-8	2-Chlorophenol	U	350	1.0	330	350	130
541-73-1	1,3-Dichlorobenzene	U	350	1.0	330	350	36
106-46-7	1,4-Dichlorobenzene	U	350	1.0	330	350	36
95-50-1	1,2-Dichlorobenzene	U	350	1.0	330	350	39
108-60-1	2,2'-Oxybis(1-Chloropropane)	U	350	1.0	330	350	36
95-48-7	2-Methylphenol	U	350	1.0	330	350	86
67-72-1	Hexachloroethane	U	350	1.0	330	350	29
621-64-7	N-Nitroso-di-n-propylamine	U	350	1.0	330	350	32
106-44-5	4-Methylphenol	U	350	1.0	330	350	79
98-95-3	Nitrobenzene	U	350	1.0	330	350	36
78-59-1	Isophorone	U	350	1.0	330	350	28
88-75-5	2-Nitrophenol	U	350	1.0	330	350	93
105-67-9	2,4-Dimethylphenol	U	350	1.0	330	350	83
111-91-1	Bis(2-Chloroethoxy)methane	U	350	1.0	330	350	28
120-83-2	2,4-Dichlorophenol	U	350	1.0	330	350	91
120-82-1	1,2,4-Trichlorobenzene	U	350	1.0	330	350	54
106-47-8	4-Chloroaniline	U	350	1.0	330	350	25
87-68-3	Hexachlorobutadiene	U	350	1.0	330	350	60
59-50-7	4-Chloro-3-Methylphenol	U	350	1.0	330	350	74
77-47-4	Hexachlorocyclopentadiene	U	350	1.0	330	350	27
88-06-2	2,4,6-Trichlorophenol	U	350	1.0	330	350	95
95-95-4	2,4,5-Trichlorophenol	U	860	1.0	820	860	93
91-58-7	2-Chloronaphthalene	U	350	1.0	330	350	33
88-74-4	2-Nitroaniline	U	860	1.0	820	860	70
131-11-3	Dimethyl Phthalate	U	350	1.0	330	350	31
606-20-2	2,6-Dinitrotoluene	U	350	1.0	330	350	52
99-09-2	3-Nitroaniline	U	860	1.0	820	860	66
51-28-5	2,4-Dinitrophenol	U	860	1.0	820	860	170
132-64-9	Dibenzofuran	U	350	1.0	330	350	46
100-02-7	4-Nitrophenol	U	860	1.0	820	860	140
121-14-2	2,4-Dinitrotoluene	U	350	1.0	330	350	42
84-66-2	Diethylphthalate	U	350	1.0	330	350	35
7005-72-3	4-Chlorophenyl-phenylether	U	350	1.0	330	350	42
100-01-6	4-Nitroaniline	U	860	1.0	820	860	98
534-52-1	4,6-Dinitro-2-Methylphenol	U	860	1.0	820	860	70
86-30-6	N-Nitrosodiphenylamine	U	350	1.0	330	350	68
101-55-3	4-Bromophenyl-phenylether	U	350	1.0	330	350	44
118-74-1	Hexachlorobenzene	U	350	1.0	330	350	94
87-86-5	Pentachlorophenol	U	860	1.0	820	860	150
86-74-8	Carbazole	J	330	1.0	330	350	27
84-74-2	Di-n-butylphthalate		380	1.0	330	350	43

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO91 NS MAYPORT
PO No:
Sample Date: 01/05/04
Received Date: 01/09/04
Extraction Date: 01/12/04
Analysis Date: 01/16/04
Report Date: 01/21/2004
Matrix: SOIL
% Solids: 94.9

Lab ID: WU0050-11RA
Client ID: MPT-45-C3-2'
SDG: WU0050
Extracted by: NB
Extraction Method: SW846 3550
Analyst: JCG
Analysis Method: SW846 8270C
Lab Prep Batch: SDGa01864
Units: ug/Kg

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
85-68-7	Butylbenzylphthalate		400	1.0	330	350	98
91-94-1	3,3'-Dichlorobenzidine	U	350	1.0	330	350	170
117-81-7	bis(2-Ethylhexyl)phthalate	J	250	1.0	330	350	150
117-84-0	Di-n-octylphthalate	J	320	1.0	330	350	200
367-12-4	2-Fluorophenol		78%				
13127-88-3	Phenol-D6		76%				
4165-60-0	Nitrobenzene-D5		82%				
321-60-8	2-Fluorobiphenyl		58%				
118-79-6	2,4,6-Tribromophenol		58%				
1718-51-0	Terphenyl-D14		82%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO91 NS MAYPORT
PO No:
Sample Date: 01/05/04
Received Date: 01/09/04
Extraction Date: 01/12/04
Analysis Date: 01/15/04
Report Date: 01/21/2004
Matrix: SOIL
% Solids: 96.1

Lab ID: WU0050-12
Client ID: MPT-45-C4-2'
SDG: WU0050
Extracted by: NB
Extraction Method: SW846 3550
Analyst: JCG
Analysis Method: SW846 8270C
Lab Prep Batch: WG5369
Units: ug/Kg

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
108-95-2	Phenol	U	340	1.0	330	340	72
111-44-4	Bis(2-Chloroethyl)ether	U	340	1.0	330	340	35
95-57-8	2-Chlorophenol	U	340	1.0	330	340	130
541-73-1	1,3-Dichlorobenzene	U	340	1.0	330	340	36
106-46-7	1,4-Dichlorobenzene	U	340	1.0	330	340	36
95-50-1	1,2-Dichlorobenzene	U	340	1.0	330	340	39
108-60-1	2,2'-Oxybis(1-Chloropropane)	U	340	1.0	330	340	36
95-48-7	2-Methylphenol	U	340	1.0	330	340	85
67-72-1	Hexachloroethane	U	340	1.0	330	340	29
621-64-7	N-Nitroso-di-n-propylamine	U	340	1.0	330	340	32
106-44-5	4-Methylphenol	U	340	1.0	330	340	78
98-95-3	Nitrobenzene	U	340	1.0	330	340	36
78-59-1	Isophorone	U	340	1.0	330	340	27
88-75-5	2-Nitrophenol	U	340	1.0	330	340	92
105-67-9	2,4-Dimethylphenol	U	340	1.0	330	340	82
111-91-1	Bis(2-Chloroethoxy)methane	U	340	1.0	330	340	28
120-83-2	2,4-Dichlorophenol	U	340	1.0	330	340	90
120-82-1	1,2,4-Trichlorobenzene	U	340	1.0	330	340	53
106-47-8	4-Chloroaniline	U	340	1.0	330	340	25
87-68-3	Hexachlorobutadiene	U	340	1.0	330	340	59
59-50-7	4-Chloro-3-Methylphenol	U	340	1.0	330	340	74
77-47-4	Hexachlorocyclopentadiene	U	340	1.0	330	340	27
88-06-2	2,4,6-Trichlorophenol	U	340	1.0	330	340	94
95-95-4	2,4,5-Trichlorophenol	U	850	1.0	820	850	92
91-58-7	2-Chloronaphthalene	U	340	1.0	330	340	32
88-74-4	2-Nitroaniline	U	850	1.0	820	850	69
131-11-3	Dimethyl Phthalate	U	340	1.0	330	340	31
606-20-2	2,6-Dinitrotoluene	U	340	1.0	330	340	51
99-09-2	3-Nitroaniline	U	850	1.0	820	850	65
51-28-5	2,4-Dinitrophenol	U	850	1.0	820	850	170
132-64-9	Dibenzofuran	U	340	1.0	330	340	46
100-02-7	4-Nitrophenol	U	850	1.0	820	850	140
121-14-2	2,4-Dinitrotoluene	U	340	1.0	330	340	42
84-66-2	Diethylphthalate	U	340	1.0	330	340	34
7005-72-3	4-Chlorophenyl-phenylether	U	340	1.0	330	340	41
100-01-6	4-Nitroaniline	U	850	1.0	820	850	97
534-52-1	4,6-Dinitro-2-Methylphenol	U	850	1.0	820	850	69
86-30-6	N-Nitrosodiphenylamine	U	340	1.0	330	340	67
101-55-3	4-Bromophenyl-phenylether	U	340	1.0	330	340	44
118-74-1	Hexachlorobenzene	U	340	1.0	330	340	92
87-86-5	Pentachlorophenol	U	850	1.0	820	850	150
86-74-8	Carbazole	J	330	1.0	330	340	27
84-74-2	Di-n-butylphthalate	J	280	1.0	330	340	43

Sample Data Summary A0000033

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO91 NS MAYPORT
PO No:
Sample Date: 01/05/04
Received Date: 01/09/04
Extraction Date: 01/12/04
Analysis Date: 01/15/04
Report Date: 01/21/2004
Matrix: SOIL
% Solids: 96.1

Lab ID: WU0050-12
Client ID: MPT-45-C4-2'
SDG: WU0050
Extracted by: NB
Extraction Method: SW846 3550
Analyst: JCG
Analysis Method: SW846 8270C
Lab Prep Batch: WG5369
Units: ug/Kg

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
85-68-7	Butylbenzylphthalate	U	340	1.0	330	340	96
91-94-1	3,3'-Dichlorobenzidine	U	340	1.0	330	340	170
117-81-7	bis(2-Ethylhexyl)phthalate	U	340	1.0	330	340	150
117-84-0	Di-n-octylphthalate	J	310	1.0	330	340	200
367-12-4	2-Fluorophenol		100%				
13127-88-3	Phenol-D6		92%				
4165-60-0	Nitrobenzene-D5		96%				
321-60-8	2-Fluorobiphenyl		66%				
118-79-6	2,4,6-Tribromophenol		75%				
1718-51-0	Terphenyl-D14		89%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO91 NS MAYPORT
PO No:
Sample Date: 01/05/04
Received Date: 01/09/04
Extraction Date: 01/12/04
Analysis Date: 01/15/04
Report Date: 01/21/2004
Matrix: SOIL
% Solids: 93.2

Lab ID: WU0050-13
Client ID: MPT-45-D3-2'
SDG: WU0050
Extracted by: NB
Extraction Method: SW846 3550
Analyst: JCG
Analysis Method: SW846 8270C
Lab Prep Batch: WG5369
Units: ug/Kg

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
108-95-2	Phenol	U	350	1.0	330	350	74
111-44-4	Bis(2-Chloroethyl)ether	U	350	1.0	330	350	36
95-57-8	2-Chlorophenol	U	350	1.0	330	350	140
541-73-1	1,3-Dichlorobenzene	U	350	1.0	330	350	37
106-46-7	1,4-Dichlorobenzene	U	350	1.0	330	350	37
95-50-1	1,2-Dichlorobenzene	U	350	1.0	330	350	40
108-60-1	2,2'-Oxybis(1-Chloropropane)	U	350	1.0	330	350	37
95-48-7	2-Methylphenol	U	350	1.0	330	350	87
67-72-1	Hexachloroethane	U	350	1.0	330	350	30
621-64-7	N-Nitroso-di-n-propylamine	U	350	1.0	330	350	33
106-44-5	4-Methylphenol	U	350	1.0	330	350	81
98-95-3	Nitrobenzene	U	350	1.0	330	350	37
78-59-1	Isophorone	U	350	1.0	330	350	28
88-75-5	2-Nitrophenol	U	350	1.0	330	350	94
105-67-9	2,4-Dimethylphenol	U	350	1.0	330	350	84
111-91-1	Bis(2-Chloroethoxy)methane	U	350	1.0	330	350	28
120-83-2	2,4-Dichlorophenol	U	350	1.0	330	350	93
120-82-1	1,2,4-Trichlorobenzene	U	350	1.0	330	350	55
106-47-8	4-Chloroaniline	U	350	1.0	330	350	26
87-68-3	Hexachlorobutadiene	U	350	1.0	330	350	61
59-50-7	4-Chloro-3-Methylphenol	U	350	1.0	330	350	76
77-47-4	Hexachlorocyclopentadiene	U	350	1.0	330	350	27
88-06-2	2,4,6-Trichlorophenol	U	350	1.0	330	350	97
95-95-4	2,4,5-Trichlorophenol	U	880	1.0	820	880	95
91-58-7	2-Chloronaphthalene	U	350	1.0	330	350	33
88-74-4	2-Nitroaniline	U	880	1.0	820	880	71
131-11-3	Dimethyl Phthalate	U	350	1.0	330	350	32
606-20-2	2,6-Dinitrotoluene	U	350	1.0	330	350	53
99-09-2	3-Nitroaniline	U	880	1.0	820	880	67
51-28-5	2,4-Dinitrophenol	U	880	1.0	820	880	180
132-64-9	Dibenzofuran	J	300	1.0	330	350	47
100-02-7	4-Nitrophenol	U	880	1.0	820	880	140
121-14-2	2,4-Dinitrotoluene	U	350	1.0	330	350	43
84-66-2	Diethylphthalate	U	350	1.0	330	350	36
7005-72-3	4-Chlorophenyl-phenylether	U	350	1.0	330	350	42
100-01-6	4-Nitroaniline	U	880	1.0	820	880	100
534-52-1	4,6-Dinitro-2-Methylphenol	U	880	1.0	820	880	71
86-30-6	N-Nitrosodiphenylamine	U	350	1.0	330	350	69
101-55-3	4-Bromophenyl-phenylether	U	350	1.0	330	350	45
118-74-1	Hexachlorobenzene	U	350	1.0	330	350	95
87-86-5	Pentachlorophenol	U	880	1.0	820	880	160
86-74-8	Carbazole		360	1.0	330	350	28
84-74-2	Di-n-butylphthalate		600	1.0	330	350	44

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO91 NS MAYPORT
PO No:
Sample Date: 01/05/04
Received Date: 01/09/04
Extraction Date: 01/12/04
Analysis Date: 01/15/04
Report Date: 01/21/2004
Matrix: SOIL
% Solids: 93.2

Lab ID: WU0050-13
Client ID: MPT-45-D3-2'
SDG: WU0050
Extracted by: NB
Extraction Method: SW846 3550
Analyst: JCG
Analysis Method: SW846 8270C
Lab Prep Batch: WG5369
Units: ug/Kg

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
85-68-7	Butylbenzylphthalate	U	350	1.0	330	350	99
91-94-1	3,3'-Dichlorobenzidine	U	350	1.0	330	350	180
117-81-7	bis(2-Ethylhexyl)phthalate	U	350	1.0	330	350	160
117-84-0	Di-n-octylphthalate	U	350	1.0	330	350	200
367-12-4	2-Fluorophenol		65%				
13127-88-3	Phenol-D6		66%				
4165-60-0	Nitrobenzene-D5		68%				
321-60-8	2-Fluorobiphenyl		52%				
118-79-6	2,4,6-Tribromophenol		55%				
1718-51-0	Terphenyl-D14		86%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO91 NS MAYPORT
PO No:
Sample Date: 01/05/04
Received Date: 01/09/04
Extraction Date: 01/12/04
Analysis Date: 01/16/04
Report Date: 01/21/2004
Matrix: SOIL
% Solids: 93.2

Lab ID: WU0050-13RA
Client ID: MPT-45-D3-2'
SDG: WU0050
Extracted by: NB
Extraction Method: SW846 3550
Analyst: JCG
Analysis Method: SW846 8270C
Lab Prep Batch: WG5369
Units: ug/Kg

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
108-95-2	Phenol	U	350	1.0	330	350	74
111-44-4	Bis(2-Chloroethyl)ether	U	350	1.0	330	350	36
95-57-8	2-Chlorophenol	U	350	1.0	330	350	140
541-73-1	1,3-Dichlorobenzene	U	350	1.0	330	350	37
106-46-7	1,4-Dichlorobenzene	U	350	1.0	330	350	37
95-50-1	1,2-Dichlorobenzene	U	350	1.0	330	350	40
108-60-1	2,2'-Oxybis(1-Chloropropane)	U	350	1.0	330	350	37
95-48-7	2-Methylphenol	U	350	1.0	330	350	87
67-72-1	Hexachloroethane	U	350	1.0	330	350	30
621-64-7	N-Nitroso-di-n-propylamine	U	350	1.0	330	350	33
106-44-5	4-Methylphenol	U	350	1.0	330	350	81
98-95-3	Nitrobenzene	U	350	1.0	330	350	37
78-59-1	Isophorone	U	350	1.0	330	350	28
88-75-5	2-Nitrophenol	U	350	1.0	330	350	94
105-67-9	2,4-Dimethylphenol	U	350	1.0	330	350	84
111-91-1	Bis(2-Chloroethoxy)methane	U	350	1.0	330	350	28
120-83-2	2,4-Dichlorophenol	U	350	1.0	330	350	93
120-82-1	1,2,4-Trichlorobenzene	U	350	1.0	330	350	55
106-47-8	4-Chloroaniline	U	350	1.0	330	350	26
87-68-3	Hexachlorobutadiene	U	350	1.0	330	350	61
59-50-7	4-Chloro-3-Methylphenol	U	350	1.0	330	350	76
77-47-4	Hexachlorocyclopentadiene	U	350	1.0	330	350	27
88-06-2	2,4,6-Trichlorophenol	U	350	1.0	330	350	97
95-95-4	2,4,5-Trichlorophenol	U	880	1.0	820	880	95
91-58-7	2-Chloronaphthalene	U	350	1.0	330	350	33
88-74-4	2-Nitroaniline	U	880	1.0	820	880	71
131-11-3	Dimethyl Phthalate	U	350	1.0	330	350	32
606-20-2	2,6-Dinitrotoluene	U	350	1.0	330	350	53
99-09-2	3-Nitroaniline	U	880	1.0	820	880	67
51-28-5	2,4-Dinitrophenol	U	880	1.0	820	880	180
132-64-9	Dibenzofuran	J	300	1.0	330	350	47
100-02-7	4-Nitrophenol	U	880	1.0	820	880	140
121-14-2	2,4-Dinitrotoluene	U	350	1.0	330	350	43
84-66-2	Diethylphthalate	U	350	1.0	330	350	36
7005-72-3	4-Chlorophenyl-phenylether	U	350	1.0	330	350	42
100-01-6	4-Nitroaniline	U	880	1.0	820	880	100
534-52-1	4,6-Dinitro-2-Methylphenol	U	880	1.0	820	880	71
86-30-6	N-Nitrosodiphenylamine	U	350	1.0	330	350	69
101-55-3	4-Bromophenyl-phenylether	U	350	1.0	330	350	45
118-74-1	Hexachlorobenzene	U	350	1.0	330	350	95
87-86-5	Pentachlorophenol	U	880	1.0	820	880	160
86-74-8	Carbazole		360	1.0	330	350	28
84-74-2	Di-n-butylphthalate		550	1.0	330	350	44

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO91 NS MAYPORT
PO No:
Sample Date: 01/05/04
Received Date: 01/09/04
Extraction Date: 01/12/04
Analysis Date: 01/16/04
Report Date: 01/21/2004
Matrix: SOIL
% Solids: 93.2

Lab ID: WU0050-13RA
Client ID: MPT-45-D3-2'
SDG: WU0050
Extracted by: NB
Extraction Method: SW846 3550
Analyst: JCG
Analysis Method: SW846 8270C
Lab Prep Batch: WG5369
Units: ug/Kg

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
85-68-7	Butylbenzylphthalate	U	350	1.0	330	350	99
91-94-1	3,3'-Dichlorobenzidine	U	350	1.0	330	350	180
117-81-7	bis(2-Ethylhexyl)phthalate	U	350	1.0	330	350	160
117-84-0	Di-n-octylphthalate	U	350	1.0	330	350	200
367-12-4	2-Fluorophenol		57%				
13127-88-3	Phenol-D6		59%				
4165-60-0	Nitrobenzene-D5		60%				
321-60-8	2-Fluorobiphenyl		48%				
118-79-6	2,4,6-Tribromophenol		50%				
1718-51-0	Terphenyl-D14		79%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO91 NS MAYPORT
PO No:
Sample Date: 01/05/04
Received Date: 01/09/04
Extraction Date: 01/12/04
Analysis Date: 01/15/04
Report Date: 01/21/2004
Matrix: SOIL
% Solids: 86.8

Lab ID: WU0050-14
Client ID: MPT-45-D4-2'
SDG: WU0050
Extracted by: NB
Extraction Method: SW846 3550
Analyst: JCG
Analysis Method: SW846 8270C
Lab Prep Batch: WG5369
Units: ug/Kg

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
108-95-2	Phenol	U	380	1.0	330	380	79
111-44-4	Bis(2-Chloroethyl)ether	U	380	1.0	330	380	39
95-57-8	2-Chlorophenol	U	380	1.0	330	380	150
541-73-1	1,3-Dichlorobenzene	U	380	1.0	330	380	40
106-46-7	1,4-Dichlorobenzene	U	380	1.0	330	380	40
95-50-1	1,2-Dichlorobenzene	U	380	1.0	330	380	43
108-60-1	2,2'-Oxybis(1-Chloropropane)	U	380	1.0	330	380	40
95-48-7	2-Methylphenol	U	380	1.0	330	380	94
67-72-1	Hexachloroethane	U	380	1.0	330	380	32
621-64-7	N-Nitroso-di-n-propylamine	U	380	1.0	330	380	35
106-44-5	4-Methylphenol	U	380	1.0	330	380	87
98-95-3	Nitrobenzene	U	380	1.0	330	380	40
78-59-1	Isophorone	U	380	1.0	330	380	30
88-75-5	2-Nitrophenol	U	380	1.0	330	380	100
105-67-9	2,4-Dimethylphenol	U	380	1.0	330	380	90
111-91-1	Bis(2-Chloroethoxy)methane	U	380	1.0	330	380	31
120-83-2	2,4-Dichlorophenol	U	380	1.0	330	380	100
120-82-1	1,2,4-Trichlorobenzene	U	380	1.0	330	380	59
106-47-8	4-Chloroaniline	U	380	1.0	330	380	28
87-68-3	Hexachlorobutadiene	U	380	1.0	330	380	66
59-50-7	4-Chloro-3-Methylphenol	U	380	1.0	330	380	82
77-47-4	Hexachlorocyclopentadiene	U	380	1.0	330	380	30
88-06-2	2,4,6-Trichlorophenol	U	380	1.0	330	380	100
95-95-4	2,4,5-Trichlorophenol	U	940	1.0	820	940	100
91-58-7	2-Chloronaphthalene	U	380	1.0	330	380	36
88-74-4	2-Nitroaniline	U	940	1.0	820	940	76
131-11-3	Dimethyl Phthalate	U	380	1.0	330	380	34
606-20-2	2,6-Dinitrotoluene	U	380	1.0	330	380	57
99-09-2	3-Nitroaniline	U	940	1.0	820	940	72
51-28-5	2,4-Dinitrophenol	U	940	1.0	820	940	190
132-64-9	Dibenzofuran	U	380	1.0	330	380	50
100-02-7	4-Nitrophenol	U	940	1.0	820	940	160
121-14-2	2,4-Dinitrotoluene	U	380	1.0	330	380	46
84-66-2	Diethylphthalate	U	380	1.0	330	380	38
7005-72-3	4-Chlorophenyl-phenylether	U	380	1.0	330	380	46
100-01-6	4-Nitroaniline	U	940	1.0	820	940	110
534-52-1	4,6-Dinitro-2-Methylphenol	U	940	1.0	820	940	76
86-30-6	N-Nitrosodiphenylamine	U	380	1.0	330	380	74
101-55-3	4-Bromophenyl-phenylether	U	380	1.0	330	380	48
118-74-1	Hexachlorobenzene	U	380	1.0	330	380	100
87-86-5	Pentachlorophenol	U	940	1.0	820	940	170
86-74-8	Carbazole	U	380	1.0	330	380	30
84-74-2	Di-n-butylphthalate	J	260	1.0	330	380	47

Sample Data Summary A0000039

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO91 NS MAYPORT
PO No:
Sample Date: 01/05/04
Received Date: 01/09/04
Extraction Date: 01/12/04
Analysis Date: 01/15/04
Report Date: 01/21/2004
Matrix: SOIL
% Solids: 86.8

Lab ID: WU0050-14
Client ID: MPT-45-D4-2'
SDG: WU0050
Extracted by: NB
Extraction Method: SW846 3550
Analyst: JCG
Analysis Method: SW846 8270C
Lab Prep Batch: WG5369
Units: ug/Kg

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
85-68-7	Butylbenzylphthalate	U	380	1.0	330	380	110
91-94-1	3,3'-Dichlorobenzidine	U	380	1.0	330	380	190
117-81-7	bis(2-Ethylhexyl)phthalate	U	380	1.0	330	380	170
117-84-0	Di-n-octylphthalate	U	380	1.0	330	380	220
367-12-4	2-Fluorophenol		77%				
13127-88-3	Phenol-D6		71%				
4165-60-0	Nitrobenzene-D5		75%				
321-60-8	2-Fluorobiphenyl		55%				
118-79-6	2,4,6-Tribromophenol		65%				
1718-51-0	Terphenyl-D14		75%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO91 NS MAYPORT
PO No:
Sample Date: 01/05/04
Received Date: 01/09/04
Extraction Date: 01/12/04
Analysis Date: 01/16/04
Report Date: 01/21/2004
Matrix: SOIL
% Solids: 86.8

Lab ID: WU0050-14RA
Client ID: MPT-45-D4-2'
SDG: WU0050
Extracted by: NB
Extraction Method: SW846 3550
Analyst: JCG
Analysis Method: SW846 8270C
Lab Prep Batch: WG5369
Units: ug/Kg

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
108-95-2	Phenol	U	380	1.0	330	380	79
111-44-4	Bis(2-Chloroethyl)ether	U	380	1.0	330	380	39
95-57-8	2-Chlorophenol	U	380	1.0	330	380	150
541-73-1	1,3-Dichlorobenzene	U	380	1.0	330	380	40
106-46-7	1,4-Dichlorobenzene	U	380	1.0	330	380	40
95-50-1	1,2-Dichlorobenzene	U	380	1.0	330	380	43
108-60-1	2,2'-Oxybis(1-Chloropropane)	U	380	1.0	330	380	40
95-48-7	2-Methylphenol	U	380	1.0	330	380	94
67-72-1	Hexachloroethane	U	380	1.0	330	380	32
621-64-7	N-Nitroso-di-n-propylamine	U	380	1.0	330	380	35
106-44-5	4-Methylphenol	U	380	1.0	330	380	87
98-95-3	Nitrobenzene	U	380	1.0	330	380	40
78-59-1	Isophorone	U	380	1.0	330	380	30
88-75-5	2-Nitrophenol	U	380	1.0	330	380	100
105-67-9	2,4-Dimethylphenol	U	380	1.0	330	380	90
111-91-1	Bis(2-Chloroethoxy)methane	U	380	1.0	330	380	31
120-83-2	2,4-Dichlorophenol	U	380	1.0	330	380	100
120-82-1	1,2,4-Trichlorobenzene	U	380	1.0	330	380	59
106-47-8	4-Chloroaniline	U	380	1.0	330	380	28
87-68-3	Hexachlorobutadiene	U	380	1.0	330	380	66
59-50-7	4-Chloro-3-Methylphenol	U	380	1.0	330	380	82
77-47-4	Hexachlorocyclopentadiene	U	380	1.0	330	380	30
88-06-2	2,4,6-Trichlorophenol	U	380	1.0	330	380	100
95-95-4	2,4,5-Trichlorophenol	U	940	1.0	820	940	100
91-58-7	2-Chloronaphthalene	U	380	1.0	330	380	36
88-74-4	2-Nitroaniline	U	940	1.0	820	940	76
131-11-3	Dimethyl Phthalate	U	380	1.0	330	380	34
606-20-2	2,6-Dinitrotoluene	U	380	1.0	330	380	57
99-09-2	3-Nitroaniline	U	940	1.0	820	940	72
51-28-5	2,4-Dinitrophenol	U	940	1.0	820	940	190
132-64-9	Dibenzofuran	U	380	1.0	330	380	50
100-02-7	4-Nitrophenol	U	940	1.0	820	940	160
121-14-2	2,4-Dinitrotoluene	U	380	1.0	330	380	46
84-66-2	Diethylphthalate	U	380	1.0	330	380	38
7005-72-3	4-Chlorophenyl-phenylether	U	380	1.0	330	380	46
100-01-6	4-Nitroaniline	U	940	1.0	820	940	110
534-52-1	4,6-Dinitro-2-Methylphenol	U	940	1.0	820	940	76
86-30-6	N-Nitrosodiphenylamine	U	380	1.0	330	380	74
101-55-3	4-Bromophenyl-phenylether	U	380	1.0	330	380	48
118-74-1	Hexachlorobenzene	U	380	1.0	330	380	100
87-86-5	Pentachlorophenol	U	940	1.0	820	940	170
86-74-8	Carbazole	U	380	1.0	330	380	30
84-74-2	Di-n-butylphthalate	J	250	1.0	330	380	47

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO91 NS MAYPORT
PO No:
Sample Date: 01/05/04
Received Date: 01/09/04
Extraction Date: 01/12/04
Analysis Date: 01/16/04
Report Date: 01/21/2004
Matrix: SOIL
% Solids: 86.8

Lab ID: WU0050-14RA
Client ID: MPT-45-D4-2'
SDG: WU0050
Extracted by: NB
Extraction Method: SW846 3550
Analyst: JCG
Analysis Method: SW846 8270C
Lab Prep Batch: WG5369
Units: ug/Kg

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
85-68-7	Butylbenzylphthalate	U	380	1.0	330	380	110
91-94-1	3,3'-Dichlorobenzidine	U	380	1.0	330	380	190
117-81-7	bis(2-Ethylhexyl)phthalate	U	380	1.0	330	380	170
117-84-0	Di-n-octylphthalate	U	380	1.0	330	380	220
367-12-4	2-Fluorophenol		67%				
13127-88-3	Phenol-D6		66%				
4165-60-0	Nitrobenzene-D5		72%				
321-60-8	2-Fluorobiphenyl		53%				
118-79-6	2,4,6-Tribromophenol		58%				
1718-51-0	Terphenyl-D14		77%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO91 NS MAYPORT
PO No:
Sample Date: 01/05/04
Received Date: 01/09/04
Extraction Date: 01/12/04
Analysis Date: 01/15/04
Report Date: 01/21/2004
Matrix: SOIL
% Solids: 87.4

Lab ID: WU0050-15
Client ID: MPT-45-E4-2'
SDG: WU0050
Extracted by: NB
Extraction Method: SW846 3550
Analyst: JCG
Analysis Method: SW846 8270C
Lab Prep Batch: WG5369
Units: ug/Kg

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
108-95-2	Phenol	U	380	1.0	330	380	79
111-44-4	Bis(2-Chloroethyl)ether	U	380	1.0	330	380	39
95-57-8	2-Chlorophenol	U	380	1.0	330	380	150
541-73-1	1,3-Dichlorobenzene	U	380	1.0	330	380	39
106-46-7	1,4-Dichlorobenzene	U	380	1.0	330	380	39
95-50-1	1,2-Dichlorobenzene	U	380	1.0	330	380	43
108-60-1	2,2'-Oxybis(1-Chloropropane)	U	380	1.0	330	380	40
95-48-7	2-Methylphenol	U	380	1.0	330	380	93
67-72-1	Hexachloroethane	U	380	1.0	330	380	32
621-64-7	N-Nitroso-di-n-propylamine	U	380	1.0	330	380	35
106-44-5	4-Methylphenol	U	380	1.0	330	380	86
98-95-3	Nitrobenzene	U	380	1.0	330	380	40
78-59-1	Isophorone	U	380	1.0	330	380	30
88-75-5	2-Nitrophenol	U	380	1.0	330	380	100
105-67-9	2,4-Dimethylphenol	U	380	1.0	330	380	90
111-91-1	Bis(2-Chloroethoxy)methane	U	380	1.0	330	380	30
120-83-2	2,4-Dichlorophenol	U	380	1.0	330	380	99
120-82-1	1,2,4-Trichlorobenzene	U	380	1.0	330	380	59
106-47-8	4-Chloroaniline	U	380	1.0	330	380	27
87-68-3	Hexachlorobutadiene	U	380	1.0	330	380	65
59-50-7	4-Chloro-3-Methylphenol	U	380	1.0	330	380	81
77-47-4	Hexachlorocyclopentadiene	U	380	1.0	330	380	29
88-06-2	2,4,6-Trichlorophenol	U	380	1.0	330	380	100
95-95-4	2,4,5-Trichlorophenol	U	940	1.0	820	940	100
91-58-7	2-Chloronaphthalene	U	380	1.0	330	380	35
88-74-4	2-Nitroaniline	U	940	1.0	820	940	76
131-11-3	Dimethyl Phthalate	U	380	1.0	330	380	34
606-20-2	2,6-Dinitrotoluene	U	380	1.0	330	380	56
99-09-2	3-Nitroaniline	U	940	1.0	820	940	72
51-28-5	2,4-Dinitrophenol	U	940	1.0	820	940	190
132-64-9	Dibenzofuran	U	380	1.0	330	380	50
100-02-7	4-Nitrophenol	U	940	1.0	820	940	160
121-14-2	2,4-Dinitrotoluene	U	380	1.0	330	380	46
84-66-2	Diethylphthalate	U	380	1.0	330	380	38
7005-72-3	4-Chlorophenyl-phenylether	U	380	1.0	330	380	45
100-01-6	4-Nitroaniline	U	940	1.0	820	940	110
534-52-1	4,6-Dinitro-2-Methylphenol	U	940	1.0	820	940	76
86-30-6	N-Nitrosodiphenylamine	U	380	1.0	330	380	73
101-55-3	4-Bromophenyl-phenylether	U	380	1.0	330	380	48
118-74-1	Hexachlorobenzene	U	380	1.0	330	380	100
87-86-5	Pentachlorophenol	U	940	1.0	820	940	170
86-74-8	Carbazole	U	380	1.0	330	380	30
84-74-2	Di-n-butylphthalate	U	380	1.0	330	380	47

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO91 NS MAYPORT
PO No:
Sample Date: 01/05/04
Received Date: 01/09/04
Extraction Date: 01/12/04
Analysis Date: 01/15/04
Report Date: 01/21/2004
Matrix: SOIL
% Solids: 87.4

Lab ID: WU0050-15
Client ID: MPT-45-E4-2'
SDG: WU0050
Extracted by: NB
Extraction Method: SW846 3550
Analyst: JCG
Analysis Method: SW846 8270C
Lab Prep Batch: WG5369
Units: ug/Kg

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
85-68-7	Butylbenzylphthalate	U	380	1.0	330	380	110
91-94-1	3,3'-Dichlorobenzidine	U	380	1.0	330	380	190
117-81-7	bis(2-Ethylhexyl)phthalate	U	380	1.0	330	380	160
117-84-0	Di-n-octylphthalate	U	380	1.0	330	380	220
367-12-4	2-Fluorophenol		80%				
13127-88-3	Phenol-D6		72%				
4165-60-0	Nitrobenzene-D5		75%				
321-60-8	2-Fluorobiphenyl		54%				
118-79-6	2,4,6-Tribromophenol		54%				
1718-51-0	Terphenyl-D14		79%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO91 NS MAYPORT
PO No:
Sample Date: 01/05/04
Received Date: 01/09/04
Extraction Date: 01/12/04
Analysis Date: 01/16/04
Report Date: 01/21/2004
Matrix: SOIL
% Solids: 87.4

Lab ID: WU0050-15RA
Client ID: MPT-45-E4-2'
SDG: WU0050
Extracted by: NB
Extraction Method: SW846 3550
Analyst: JCG
Analysis Method: SW846 8270C
Lab Prep Batch: WG5369
Units: ug/Kg

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
108-95-2	Phenol	U	380	1.0	330	380	79
111-44-4	Bis(2-Chloroethyl)ether	U	380	1.0	330	380	39
95-57-8	2-Chlorophenol	U	380	1.0	330	380	150
541-73-1	1,3-Dichlorobenzene	U	380	1.0	330	380	39
106-46-7	1,4-Dichlorobenzene	U	380	1.0	330	380	39
95-50-1	1,2-Dichlorobenzene	U	380	1.0	330	380	43
108-60-1	2,2'-Oxybis(1-Chloropropane)	U	380	1.0	330	380	40
95-48-7	2-Methylphenol	U	380	1.0	330	380	93
67-72-1	Hexachloroethane	U	380	1.0	330	380	32
621-64-7	N-Nitroso-di-n-propylamine	U	380	1.0	330	380	35
106-44-5	4-Methylphenol	U	380	1.0	330	380	86
98-95-3	Nitrobenzene	U	380	1.0	330	380	40
78-59-1	Isophorone	U	380	1.0	330	380	30
88-75-5	2-Nitrophenol	U	380	1.0	330	380	100
105-67-9	2,4-Dimethylphenol	U	380	1.0	330	380	90
111-91-1	Bis(2-Chloroethoxy)methane	U	380	1.0	330	380	30
120-83-2	2,4-Dichlorophenol	U	380	1.0	330	380	99
120-82-1	1,2,4-Trichlorobenzene	U	380	1.0	330	380	59
106-47-8	4-Chloroaniline	U	380	1.0	330	380	27
87-68-3	Hexachlorobutadiene	U	380	1.0	330	380	65
59-50-7	4-Chloro-3-Methylphenol	U	380	1.0	330	380	81
77-47-4	Hexachlorocyclopentadiene	U	380	1.0	330	380	29
88-06-2	2,4,6-Trichlorophenol	U	380	1.0	330	380	100
95-95-4	2,4,5-Trichlorophenol	U	940	1.0	820	940	100
91-58-7	2-Chloronaphthalene	U	380	1.0	330	380	35
88-74-4	2-Nitroaniline	U	940	1.0	820	940	76
131-11-3	Dimethyl Phthalate	U	380	1.0	330	380	34
606-20-2	2,6-Dinitrotoluene	U	380	1.0	330	380	56
99-09-2	3-Nitroaniline	U	940	1.0	820	940	72
51-28-5	2,4-Dinitrophenol	U	940	1.0	820	940	190
132-64-9	Dibenzofuran	U	380	1.0	330	380	50
100-02-7	4-Nitrophenol	U	940	1.0	820	940	160
121-14-2	2,4-Dinitrotoluene	U	380	1.0	330	380	46
84-66-2	Diethylphthalate	U	380	1.0	330	380	38
7005-72-3	4-Chlorophenyl-phenylether	U	380	1.0	330	380	45
100-01-6	4-Nitroaniline	U	940	1.0	820	940	110
534-52-1	4,6-Dinitro-2-Methylphenol	U	940	1.0	820	940	76
86-30-6	N-Nitrosodiphenylamine	U	380	1.0	330	380	73
101-55-3	4-Bromophenyl-phenylether	U	380	1.0	330	380	48
118-74-1	Hexachlorobenzene	U	380	1.0	330	380	100
87-86-5	Pentachlorophenol	U	940	1.0	820	940	170
86-74-8	Carbazole	U	380	1.0	330	380	30
84-74-2	Di-n-butylphthalate	U	380	1.0	330	380	47

Sample Data Summary A0000045

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO91 NS MAYPORT
PO No:
Sample Date: 01/05/04
Received Date: 01/09/04
Extraction Date: 01/12/04
Analysis Date: 01/16/04
Report Date: 01/21/2004
Matrix: SOIL
% Solids: 87.4

Lab ID: WU0050-15RA
Client ID: MPT-45-E4-2'
SDG: WU0050
Extracted by: NB
Extraction Method: SW846 3550
Analyst: JCG
Analysis Method: SW846 8270C
Lab Prep Batch: WG5369
Units: ug/Kg

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
85-68-7	Butylbenzylphthalate	U	380	1.0	330	380	110
91-94-1	3,3'-Dichlorobenzidine	U	380	1.0	330	380	190
117-81-7	bis(2-Ethylhexyl)phthalate	U	380	1.0	330	380	160
117-84-0	Di-n-octylphthalate	U	380	1.0	330	380	220
367-12-4	2-Fluorophenol		70%				
13127-88-3	Phenol-D6		64%				
4165-60-0	Nitrobenzene-D5		68%				
321-60-8	2-Fluorobiphenyl		51%				
118-79-6	2,4,6-Tribromophenol		49%				
1718-51-0	Terphenyl-D14		86%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO91 NS MAYPORT
PO No:
Sample Date: 01/05/04
Received Date: 01/09/04
Extraction Date: 01/12/04
Analysis Date: 01/15/04
Report Date: 01/21/2004
Matrix: SOIL
% Solids: 94.0

Lab ID: WU0050-16
Client ID: MPT-45-E4-5'
SDG: WU0050
Extracted by: NB
Extraction Method: SW846 3550
Analyst: JCG
Analysis Method: SW846 8270C
Lab Prep Batch: WG5369
Units: ug/Kg

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
108-95-2	Phenol	U	350	1.0	330	350	73
111-44-4	Bis(2-Chloroethyl)ether	U	350	1.0	330	350	36
95-57-8	2-Chlorophenol	U	350	1.0	330	350	140
541-73-1	1,3-Dichlorobenzene	U	350	1.0	330	350	37
106-46-7	1,4-Dichlorobenzene	U	350	1.0	330	350	36
95-50-1	1,2-Dichlorobenzene	U	350	1.0	330	350	40
108-60-1	2,2'-Oxybis(1-Chloropropane)	U	350	1.0	330	350	37
95-48-7	2-Methylphenol	U	350	1.0	330	350	86
67-72-1	Hexachloroethane	U	350	1.0	330	350	30
621-64-7	N-Nitroso-di-n-propylamine	U	350	1.0	330	350	32
106-44-5	4-Methylphenol	U	350	1.0	330	350	80
98-95-3	Nitrobenzene	U	350	1.0	330	350	37
78-59-1	Isophorone	U	350	1.0	330	350	28
88-75-5	2-Nitrophenol	U	350	1.0	330	350	94
105-67-9	2,4-Dimethylphenol	U	350	1.0	330	350	84
111-91-1	Bis(2-Chloroethoxy)methane	U	350	1.0	330	350	28
120-83-2	2,4-Dichlorophenol	U	350	1.0	330	350	92
120-82-1	1,2,4-Trichlorobenzene	U	350	1.0	330	350	55
106-47-8	4-Chloroaniline	U	350	1.0	330	350	25
87-68-3	Hexachlorobutadiene	U	350	1.0	330	350	61
59-50-7	4-Chloro-3-Methylphenol	U	350	1.0	330	350	75
77-47-4	Hexachlorocyclopentadiene	U	350	1.0	330	350	27
88-06-2	2,4,6-Trichlorophenol	U	350	1.0	330	350	96
95-95-4	2,4,5-Trichlorophenol	U	870	1.0	820	870	94
91-58-7	2-Chloronaphthalene	U	350	1.0	330	350	33
88-74-4	2-Nitroaniline	U	870	1.0	820	870	71
131-11-3	Dimethyl Phthalate	U	350	1.0	330	350	31
606-20-2	2,6-Dinitrotoluene	U	350	1.0	330	350	52
99-09-2	3-Nitroaniline	U	870	1.0	820	870	67
51-28-5	2,4-Dinitrophenol	U	870	1.0	820	870	180
132-64-9	Dibenzofuran	U	350	1.0	330	350	46
100-02-7	4-Nitrophenol	U	870	1.0	820	870	140
121-14-2	2,4-Dinitrotoluene	U	350	1.0	330	350	43
84-66-2	Diethylphthalate	U	350	1.0	330	350	35
7005-72-3	4-Chlorophenyl-phenylether	U	350	1.0	330	350	42
100-01-6	4-Nitroaniline	U	870	1.0	820	870	99
534-52-1	4,6-Dinitro-2-Methylphenol	U	870	1.0	820	870	70
86-30-6	N-Nitrosodiphenylamine	U	350	1.0	330	350	68
101-55-3	4-Bromophenyl-phenylether	U	350	1.0	330	350	45
118-74-1	Hexachlorobenzene	U	350	1.0	330	350	94
87-86-5	Pentachlorophenol	U	870	1.0	820	870	150
86-74-8	Carbazole	U	350	1.0	330	350	28
84-74-2	Di-n-butylphthalate	J	220	1.0	330	350	44

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO91 NS MAYPORT
PO No:
Sample Date: 01/05/04
Received Date: 01/09/04
Extraction Date: 01/12/04
Analysis Date: 01/15/04
Report Date: 01/21/2004
Matrix: SOIL
% Solids: 94.0

Lab ID: WU0050-16
Client ID: MPT-45-E4-5'
SDG: WU0050
Extracted by: NB
Extraction Method: SW846 3550
Analyst: JCG
Analysis Method: SW846 8270C
Lab Prep Batch: WG5369
Units: ug/Kg

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
85-68-7	Butylbenzylphthalate	U	350	1.0	330	350	99
91-94-1	3,3'-Dichlorobenzidine	U	350	1.0	330	350	180
117-81-7	bis(2-Ethylhexyl)phthalate	U	350	1.0	330	350	150
117-84-0	Di-n-octylphthalate	J	320	1.0	330	350	200
367-12-4	2-Fluorophenol		81%				
13127-88-3	Phenol-D6		71%				
4165-60-0	Nitrobenzene-D5		78%				
321-60-8	2-Fluorobiphenyl		56%				
118-79-6	2,4,6-Tribromophenol		61%				
1718-51-0	Terphenyl-D14		83%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO91 NS MAYPORT
PO No:
Sample Date: 01/05/04
Received Date: 01/09/04
Extraction Date: 01/12/04
Analysis Date: 01/16/04
Report Date: 01/21/2004
Matrix: SOIL
% Solids: 94.0

Lab ID: WU0050-16RA
Client ID: MPT-45-E4-5'
SDG: WU0050
Extracted by: NB
Extraction Method: SW846 3550
Analyst: JCG
Analysis Method: SW846 8270C
Lab Prep Batch: WG5369
Units: ug/Kg

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
108-95-2	Phenol	U	350	1.0	330	350	73
111-44-4	Bis(2-Chloroethyl)ether	U	350	1.0	330	350	36
95-57-8	2-Chlorophenol	U	350	1.0	330	350	140
541-73-1	1,3-Dichlorobenzene	U	350	1.0	330	350	37
106-46-7	1,4-Dichlorobenzene	U	350	1.0	330	350	36
95-50-1	1,2-Dichlorobenzene	U	350	1.0	330	350	40
108-60-1	2,2'-Oxybis(1-Chloropropane)	U	350	1.0	330	350	37
95-48-7	2-Methylphenol	U	350	1.0	330	350	86
67-72-1	Hexachloroethane	U	350	1.0	330	350	30
621-64-7	N-Nitroso-di-n-propylamine	U	350	1.0	330	350	32
106-44-5	4-Methylphenol	U	350	1.0	330	350	80
98-95-3	Nitrobenzene	U	350	1.0	330	350	37
78-59-1	Isophorone	U	350	1.0	330	350	28
88-75-5	2-Nitrophenol	U	350	1.0	330	350	94
105-67-9	2,4-Dimethylphenol	U	350	1.0	330	350	84
111-91-1	Bis(2-Chloroethoxy)methane	U	350	1.0	330	350	28
120-83-2	2,4-Dichlorophenol	U	350	1.0	330	350	92
120-82-1	1,2,4-Trichlorobenzene	U	350	1.0	330	350	55
106-47-8	4-Chloroaniline	U	350	1.0	330	350	25
87-68-3	Hexachlorobutadiene	U	350	1.0	330	350	61
59-50-7	4-Chloro-3-Methylphenol	U	350	1.0	330	350	75
77-47-4	Hexachlorocyclopentadiene	U	350	1.0	330	350	27
88-06-2	2,4,6-Trichlorophenol	U	350	1.0	330	350	96
95-95-4	2,4,5-Trichlorophenol	U	870	1.0	820	870	94
91-58-7	2-Chloronaphthalene	U	350	1.0	330	350	33
88-74-4	2-Nitroaniline	U	870	1.0	820	870	71
131-11-3	Dimethyl Phthalate	U	350	1.0	330	350	31
606-20-2	2,6-Dinitrotoluene	U	350	1.0	330	350	52
99-09-2	3-Nitroaniline	U	870	1.0	820	870	67
51-28-5	2,4-Dinitrophenol	U	870	1.0	820	870	180
132-64-9	Dibenzofuran	U	350	1.0	330	350	46
100-02-7	4-Nitrophenol	U	870	1.0	820	870	140
121-14-2	2,4-Dinitrotoluene	U	350	1.0	330	350	43
84-66-2	Diethylphthalate	U	350	1.0	330	350	35
7005-72-3	4-Chlorophenyl-phenylether	U	350	1.0	330	350	42
100-01-6	4-Nitroaniline	U	870	1.0	820	870	99
534-52-1	4,6-Dinitro-2-Methylphenol	U	870	1.0	820	870	70
86-30-6	N-Nitrosodiphenylamine	U	350	1.0	330	350	68
101-55-3	4-Bromophenyl-phenylether	U	350	1.0	330	350	45
118-74-1	Hexachlorobenzene	U	350	1.0	330	350	94
87-86-5	Pentachlorophenol	U	870	1.0	820	870	150
86-74-8	Carbazole	U	350	1.0	330	350	28
84-74-2	Di-n-butylphthalate	J	220	1.0	330	350	44

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO91 NS MAYPORT
PO No:
Sample Date: 01/05/04
Received Date: 01/09/04
Extraction Date: 01/12/04
Analysis Date: 01/16/04
Report Date: 01/21/2004
Matrix: SOIL
% Solids: 94.0

Lab ID: WU0050-16RA
Client ID: MPT-45-E4-5'
SDG: WU0050
Extracted by: NB
Extraction Method: SW846 3550
Analyst: JCG
Analysis Method: SW846 8270C
Lab Prep Batch: WG5369
Units: ug/Kg

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
85-68-7	Butylbenzylphthalate	U	350	1.0	330	350	99
91-94-1	3,3'-Dichlorobenzidine	U	350	1.0	330	350	180
117-81-7	bis(2-Ethylhexyl)phthalate	U	350	1.0	330	350	150
117-84-0	Di-n-octylphthalate	U	350	1.0	330	350	200
367-12-4	2-Fluorophenol		68%				
13127-88-3	Phenol-D6		61%				
4165-60-0	Nitrobenzene-D5		63%				
321-60-8	2-Fluorobiphenyl		49%				
118-79-6	2,4,6-Tribromophenol		56%				
1718-51-0	Terphenyl-D14		81%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO91 NS MAYPORT
PO No:
Sample Date: 01/05/04
Received Date: 01/09/04
Extraction Date: 01/12/04
Analysis Date: 01/16/04
Report Date: 01/28/2004
Matrix: SOIL
% Solids: 91.2

Lab ID: WU0050-17
Client ID: MPT-45-A1-2'
SDG: WU0050
Extracted by: NB
Extraction Method: SW846 3550
Analyst: JCG
Analysis Method: SW846 M8270C
Lab Prep Batch: WG5370
Units: ug/Kg

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
91-20-3	Naphthalene	JB	5.1	1.0	20	22	0.98
91-57-6	2-Methylnaphthalene	J	1.5	1.0	20	22	0.61
208-96-8	Acenaphthylene	U	22	1.0	20	22	0.58
83-32-9	Acenaphthene	U	22	1.0	20	22	0.77
86-73-7	Fluorene	U	22	1.0	20	22	0.67
85-01-8	Phenanthrene	J	11	1.0	20	22	1.6
120-12-7	Anthracene	U	22	1.0	20	22	0.89
206-44-0	Fluoranthene		33	1.0	20	22	1.8
129-00-0	Pyrene	J	20	1.0	20	22	2.0
56-55-3	Benzo(a)anthracene	J	17	1.0	20	22	1.1
218-01-9	Chrysene	J	17	1.0	20	22	1.3
205-99-2	Benzo(b)fluoranthene	U	22	1.0	20	22	2.2
207-08-9	Benzo(k)fluoranthene	U	22	1.0	20	22	1.5
50-32-8	Benzo(a)pyrene	J	16	1.0	20	22	0.82
193-39-5	Indeno(1,2,3-cd)pyrene	J	11	1.0	20	22	2.2
53-70-3	Dibenzo(a,h)anthracene	U	22	1.0	20	22	2.2
191-24-2	Benzo(g,h,i)perylene	J	11	1.0	20	22	1.9
7297-45-2	2-Methylnaphthalene-d10		87%				
81103-79-9	Fluorene-d10		89%				
1718-52-1	Pyrene-d10		89%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO91 NS MAYPORT
PO No:
Sample Date: 01/05/04
Received Date: 01/09/04
Extraction Date: 01/12/04
Analysis Date: 01/19/04
Report Date: 01/28/2004
Matrix: SOIL
% Solids: 91.2

Lab ID: WU0050-17RA
Client ID: MPT-45-A1-2'
SDG: WU0050
Extracted by: NB
Extraction Method: SW846 3550
Analyst: JCG
Analysis Method: SW846 M8270C
Lab Prep Batch: WG5370
Units: ug/Kg

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
91-20-3	Naphthalene	JB	6.9	1.0	20	22	0.98
91-57-6	2-Methylnaphthalene	J	1.5	1.0	20	22	0.61
208-96-8	Acenaphthylene	U	22	1.0	20	22	0.58
83-32-9	Acenaphthene	J	0.89	1.0	20	22	0.77
86-73-7	Fluorene	U	22	1.0	20	22	0.67
85-01-8	Phenanthrene	J	13	1.0	20	22	1.6
120-12-7	Anthracene	J	5.7	1.0	20	22	0.89
206-44-0	Fluoranthene		36	1.0	20	22	1.8
129-00-0	Pyrene		34	1.0	20	22	2.0
56-55-3	Benzo(a)anthracene	J	17	1.0	20	22	1.1
218-01-9	Chrysene		24	1.0	20	22	1.3
205-99-2	Benzo(b)fluoranthene		37	1.0	20	22	2.2
207-08-9	Benzo(k)fluoranthene	J	21	1.0	20	22	1.5
50-32-8	Benzo(a)pyrene		24	1.0	20	22	0.82
193-39-5	Indeno(1,2,3-cd)pyrene	J	14	1.0	20	22	2.2
53-70-3	Dibenzo(a,h)anthracene	U	22	1.0	20	22	2.2
191-24-2	Benzo(g,h,i)perylene	J	18	1.0	20	22	1.9
7297-45-2	2-Methylnaphthalene-d10		90%				
81103-79-9	Fluorene-d10		78%				
1718-52-1	Pyrene-d10		99%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO91 NS MAYPORT
PO No:
Sample Date: 01/05/04
Received Date: 01/09/04
Extraction Date: 01/12/04
Analysis Date: 01/16/04
Report Date: 01/28/2004
Matrix: SOIL
% Solids: 93.0

Lab ID: WU0050-18
Client ID: MPT-45-A2-2'
SDG: WU0050
Extracted by: NB
Extraction Method: SW846 3550
Analyst: JCG
Analysis Method: SW846 M8270C
Lab Prep Batch: WG5370
Units: ug/Kg

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
91-20-3	Naphthalene	JB	2.5	1.0	20	22	0.96
91-57-6	2-Methylnaphthalene	J	1.0	1.0	20	22	0.60
208-96-8	Acenaphthylene	J	2.2	1.0	20	22	0.57
83-32-9	Acenaphthene	U	22	1.0	20	22	0.75
86-73-7	Fluorene	U	22	1.0	20	22	0.66
85-01-8	Phenanthrene	J	5.5	1.0	20	22	1.6
120-12-7	Anthracene	J	12	1.0	20	22	0.87
206-44-0	Fluoranthene		56	1.0	20	22	1.8
129-00-0	Pyrene		73	1.0	20	22	1.9
56-55-3	Benzo(a)anthracene		79	1.0	20	22	1.1
218-01-9	Chrysene		59	1.0	20	22	1.3
205-99-2	Benzo(b)fluoranthene	E	140	1.0	20	22	2.2
207-08-9	Benzo(k)fluoranthene		64	1.0	20	22	1.4
50-32-8	Benzo(a)pyrene		67	1.0	20	22	0.81
193-39-5	Indeno(1,2,3-cd)pyrene		32	1.0	20	22	2.2
53-70-3	Dibenzo(a,h)anthracene	J	13	1.0	20	22	2.2
191-24-2	Benzo(g,h,i)perylene		29	1.0	20	22	1.8
7297-45-2	2-Methylnaphthalene-d10		100%				
81103-79-9	Fluorene-d10		95%				
1718-52-1	Pyrene-d10		95%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO91 NS MAYPORT
PO No:
Sample Date: 01/05/04
Received Date: 01/09/04
Extraction Date: 01/12/04
Analysis Date: 01/19/04
Report Date: 01/28/2004
Matrix: SOIL
% Solids: 93.0

Lab ID: WU0050-18DL
Client ID: MPT-45-A2-2'
SDG: WU0050
Extracted by: NB
Extraction Method: SW846 3550
Analyst: JCG
Analysis Method: SW846 M8270C
Lab Prep Batch: WG5370
Units: ug/Kg

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
91-20-3	Naphthalene	JB	3.7	2.0	20	43	1.9
91-57-6	2-Methylnaphthalene	U	43	2.0	20	43	1.2
208-96-8	Acenaphthylene	J	3.7	2.0	20	43	1.1
83-32-9	Acenaphthene	U	43	2.0	20	43	1.5
86-73-7	Fluorene	U	43	2.0	20	43	1.3
85-01-8	Phenanthrene	J	5.8	2.0	20	43	3.2
120-12-7	Anthracene	J	11	2.0	20	43	1.7
206-44-0	Fluoranthene		56	2.0	20	43	3.5
129-00-0	Pyrene		110	2.0	20	43	3.9
56-55-3	Benzo(a)anthracene		59	2.0	20	43	2.2
218-01-9	Chrysene		76	2.0	20	43	2.6
205-99-2	Benzo(b)fluoranthene		120	2.0	20	43	4.4
207-08-9	Benzo(k)fluoranthene		66	2.0	20	43	2.9
50-32-8	Benzo(a)pyrene		69	2.0	20	43	1.6
193-39-5	Indeno(1,2,3-cd)pyrene	J	36	2.0	20	43	4.3
53-70-3	Dibenzo(a,h)anthracene	U	43	2.0	20	43	4.3
191-24-2	Benzo(g,h,i)perylene	J	33	2.0	20	43	3.7
7297-45-2	2-Methylnaphthalene-d10		87%				
81103-79-9	Fluorene-d10		73%				
1718-52-1	Pyrene-d10		111%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO91 NS MAYPORT
PO No:
Sample Date: 01/05/04
Received Date: 01/09/04
Extraction Date: 01/12/04
Analysis Date: 01/16/04
Report Date: 01/28/2004
Matrix: SOIL
% Solids: 95.4

Lab ID: WU0050-19
Client ID: MPT-45-A3-2'
SDG: WU0050
Extracted by: NB
Extraction Method: SW846 3550
Analyst: JCG
Analysis Method: SW846 M8270C
Lab Prep Batch: WG5370
Units: ug/Kg

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
91-20-3	Naphthalene	JB	2.3	1.0	20	21	0.93
91-57-6	2-Methylnaphthalene	J	0.99	1.0	20	21	0.59
208-96-8	Acenaphthylene	J	0.67	1.0	20	21	0.56
83-32-9	Acenaphthene	U	21	1.0	20	21	0.73
86-73-7	Fluorene	U	21	1.0	20	21	0.64
85-01-8	Phenanthrene	J	3.8	1.0	20	21	1.5
120-12-7	Anthracene	J	4.8	1.0	20	21	0.85
206-44-0	Fluoranthene		24	1.0	20	21	1.7
129-00-0	Pyrene	J	18	1.0	20	21	1.9
56-55-3	Benzo(a)anthracene	J	19	1.0	20	21	1.0
218-01-9	Chrysene	J	16	1.0	20	21	1.3
205-99-2	Benzo(b)fluoranthene	U	21	1.0	20	21	2.1
207-08-9	Benzo(k)fluoranthene	U	21	1.0	20	21	1.4
50-32-8	Benzo(a)pyrene		23	1.0	20	21	0.79
193-39-5	Indeno(1,2,3-cd)pyrene	J	13	1.0	20	21	2.1
53-70-3	Dibenzo(a,h)anthracene	U	21	1.0	20	21	2.1
191-24-2	Benzo(g,h,i)perylene	J	15	1.0	20	21	1.8
7297-45-2	2-Methylnaphthalene-d10		111%				
81103-79-9	Fluorene-d10		91%				
1718-52-1	Pyrene-d10		93%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO91 NS MAYPORT
PO No:
Sample Date: 01/05/04
Received Date: 01/09/04
Extraction Date: 01/12/04
Analysis Date: 01/19/04
Report Date: 01/28/2004
Matrix: SOIL
% Solids: 95.4

Lab ID: WU0050-19RA
Client ID: MPT-45-A3-2'
SDG: WU0050
Extracted by: NB
Extraction Method: SW846 3550
Analyst: JCG
Analysis Method: SW846 M8270C
Lab Prep Batch: WG5370
Units: ug/Kg

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
91-20-3	Naphthalene	JB	3.8	1.0	20	21	0.93
91-57-6	2-Methylnaphthalene	J	1.0	1.0	20	21	0.59
208-96-8	Acenaphthylene	U	21	1.0	20	21	0.56
83-32-9	Acenaphthene	U	21	1.0	20	21	0.73
86-73-7	Fluorene	U	21	1.0	20	21	0.64
85-01-8	Phenanthrene	U	21	1.0	20	21	1.5
120-12-7	Anthracene	U	21	1.0	20	21	0.85
206-44-0	Fluoranthene		23	1.0	20	21	1.7
129-00-0	Pyrene		24	1.0	20	21	1.9
56-55-3	Benzo(a)anthracene	J	17	1.0	20	21	1.0
218-01-9	Chrysene	J	19	1.0	20	21	1.3
205-99-2	Benzo(b)fluoranthene		27	1.0	20	21	2.1
207-08-9	Benzo(k)fluoranthene		29	1.0	20	21	1.4
50-32-8	Benzo(a)pyrene		26	1.0	20	21	0.79
193-39-5	Indeno(1,2,3-cd)pyrene	J	17	1.0	20	21	2.1
53-70-3	Dibenzo(a,h)anthracene	U	21	1.0	20	21	2.1
191-24-2	Benzo(g,h,i)perylene	J	19	1.0	20	21	1.8
7297-45-2	2-Methylnaphthalene-d10		104%				
81103-79-9	Fluorene-d10		83%				
1718-52-1	Pyrene-d10		96%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO91 NS MAYPORT
PO No:
Sample Date: 01/05/04
Received Date: 01/09/04
Extraction Date: 01/12/04
Analysis Date: 01/16/04
Report Date: 01/28/2004
Matrix: SOIL
% Solids: 92.7

Lab ID: WU0050-20
Client ID: MPT-45-A4-2'
SDG: WU0050
Extracted by: NB
Extraction Method: SW846 3550
Analyst: JCG
Analysis Method: SW846 M8270C
Lab Prep Batch: WG5370
Units: ug/Kg

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
91-20-3	Naphthalene	JB	6.6	1.0	20	22	0.96
91-57-6	2-Methylnaphthalene	J	2.3	1.0	20	22	0.60
208-96-8	Acenaphthylene	U	22	1.0	20	22	0.57
83-32-9	Acenaphthene	U	22	1.0	20	22	0.76
86-73-7	Fluorene	U	22	1.0	20	22	0.66
85-01-8	Phenanthrene	J	9.1	1.0	20	22	1.6
120-12-7	Anthracene	J	14	1.0	20	22	0.87
206-44-0	Fluoranthene		36	1.0	20	22	1.8
129-00-0	Pyrene	J	19	1.0	20	22	1.9
56-55-3	Benzo(a)anthracene	J	19	1.0	20	22	1.1
218-01-9	Chrysene	J	17	1.0	20	22	1.3
205-99-2	Benzo(b)fluoranthene	U	22	1.0	20	22	2.2
207-08-9	Benzo(k)fluoranthene	U	22	1.0	20	22	1.4
50-32-8	Benzo(a)pyrene	J	21	1.0	20	22	0.81
193-39-5	Indeno(1,2,3-cd)pyrene	J	15	1.0	20	22	2.2
53-70-3	Dibenzo(a,h)anthracene	U	22	1.0	20	22	2.2
191-24-2	Benzo(g,h,i)perylene	J	21	1.0	20	22	1.8
7297-45-2	2-Methylnaphthalene-d10		129%				
81103-79-9	Fluorene-d10		88%				
1718-52-1	Pyrene-d10		92%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO91 NS MAYPORT
PO No:
Sample Date: 01/05/04
Received Date: 01/09/04
Extraction Date: 01/12/04
Analysis Date: 01/19/04
Report Date: 01/28/2004
Matrix: SOIL
% Solids: 92.7

Lab ID: WU0050-20RA
Client ID: MPT-45-A4-2'
SDG: WU0050
Extracted by: NB
Extraction Method: SW846 3550
Analyst: JCG
Analysis Method: SW846 M8270C
Lab Prep Batch: WG5370
Units: ug/Kg

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
91-20-3	Naphthalene	JB	9.4	1.0	20	22	0.96
91-57-6	2-Methylnaphthalene	J	2.5	1.0	20	22	0.60
208-96-8	Acenaphthylene	U	22	1.0	20	22	0.57
83-32-9	Acenaphthene	J	0.59	1.0	20	22	0.76
86-73-7	Fluorene	U	22	1.0	20	22	0.66
85-01-8	Phenanthrene	J	11	1.0	20	22	1.6
120-12-7	Anthracene	J	19	1.0	20	22	0.87
206-44-0	Fluoranthene	U	22	1.0	20	22	1.8
129-00-0	Pyrene		30	1.0	20	22	1.9
56-55-3	Benzo(a)anthracene		22	1.0	20	22	1.1
218-01-9	Chrysene		22	1.0	20	22	1.3
205-99-2	Benzo(b)fluoranthene		31	1.0	20	22	2.2
207-08-9	Benzo(k)fluoranthene	J	20	1.0	20	22	1.4
50-32-8	Benzo(a)pyrene		23	1.0	20	22	0.81
193-39-5	Indeno(1,2,3-cd)pyrene		25	1.0	20	22	2.2
53-70-3	Dibenzo(a,h)anthracene	U	22	1.0	20	22	2.2
191-24-2	Benzo(g,h,i)perylene		36	1.0	20	22	1.8
7297-45-2	2-Methylnaphthalene-d10		120%				
81103-79-9	Fluorene-d10		76%				
1718-52-1	Pyrene-d10		106%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO91 NS MAYPORT
PO No:
Sample Date: 01/05/04
Received Date: 01/09/04
Extraction Date: 01/12/04
Analysis Date: 01/16/04
Report Date: 01/28/2004
Matrix: SOIL
% Solids: 90.8

Lab ID: WU0050-21
Client ID: MPT-45-B1-2'
SDG: WU0050
Extracted by: NB
Extraction Method: SW846 3550
Analyst: JCG
Analysis Method: SW846 M8270C
Lab Prep Batch: WG5370
Units: ug/Kg

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
91-20-3	Naphthalene	JB	12	1.0	20	22	0.98
91-57-6	2-Methylnaphthalene	J	11	1.0	20	22	0.62
208-96-8	Acenaphthylene	U	22	1.0	20	22	0.58
83-32-9	Acenaphthene		35	1.0	20	22	0.77
86-73-7	Fluorene		69	1.0	20	22	0.67
85-01-8	Phenanthrene	E	610	1.0	20	22	1.6
120-12-7	Anthracene	E	140	1.0	20	22	0.89
206-44-0	Fluoranthene	E	950	1.0	20	22	1.8
129-00-0	Pyrene	E	660	1.0	20	22	2.0
56-55-3	Benzo(a)anthracene	E	780	1.0	20	22	1.1
218-01-9	Chrysene	E	400	1.0	20	22	1.4
205-99-2	Benzo(b)fluoranthene	E	840	1.0	20	22	2.2
207-08-9	Benzo(k)fluoranthene	E	470	1.0	20	22	1.5
50-32-8	Benzo(a)pyrene	E	590	1.0	20	22	0.83
193-39-5	Indeno(1,2,3-cd)pyrene	E	290	1.0	20	22	2.2
53-70-3	Dibenzo(a,h)anthracene	E	140	1.0	20	22	2.2
191-24-2	Benzo(g,h,i)perylene	E	240	1.0	20	22	1.9
7297-45-2	2-Methylnaphthalene-d10		90%				
81103-79-9	Fluorene-d10		75%				
1718-52-1	Pyrene-d10		94%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO91 NS MAYPORT
PO No:
Sample Date: 01/05/04
Received Date: 01/09/04
Extraction Date: 01/12/04
Analysis Date: 01/19/04
Report Date: 01/28/2004
Matrix: SOIL
% Solids: 90.8

Lab ID: WU0050-21DL
Client ID: MPT-45-B1-2'
SDG: WU0050
Extracted by: NB
Extraction Method: SW846 3550
Analyst: JCG
Analysis Method: SW846 M8270C
Lab Prep Batch: WG5370
Units: ug/Kg

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
91-20-3	Naphthalene	U	440	20	20	440	20
91-57-6	2-Methylnaphthalene	U	440	20	20	440	12
208-96-8	Acenaphthylene	U	440	20	20	440	12
83-32-9	Acenaphthene	J	55	20	20	440	15
86-73-7	Fluorene	J	100	20	20	440	13
85-01-8	Phenanthrene		700	20	20	440	32
120-12-7	Anthracene	J	330	20	20	440	18
206-44-0	Fluoranthene		1200	20	20	440	36
129-00-0	Pyrene		1200	20	20	440	40
56-55-3	Benzo(a)anthracene		620	20	20	440	22
218-01-9	Chrysene		780	20	20	440	27
205-99-2	Benzo(b)fluoranthene		840	20	20	440	45
207-08-9	Benzo(k)fluoranthene		810	20	20	440	30
50-32-8	Benzo(a)pyrene		680	20	20	440	16
193-39-5	Indeno(1,2,3-cd)pyrene	J	390	20	20	440	44
53-70-3	Dibenzo(a,h)anthracene	U	440	20	20	440	44
191-24-2	Benzo(g,h,i)perylene		500	20	20	440	38
7297-45-2	2-Methylnaphthalene-d10		D				
81103-79-9	Fluorene-d10		D				
1718-52-1	Pyrene-d10		D				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO91 NS MAYPORT
PO No:
Sample Date: 01/05/04
Received Date: 01/09/04
Extraction Date: 01/12/04
Analysis Date: 01/17/04
Report Date: 01/28/2004
Matrix: SOIL
% Solids: 95.8

Lab ID: WU0050-22
Client ID: MPT-45-B2-2'
SDG: WU0050
Extracted by: NB
Extraction Method: SW846 3550
Analyst: JCG
Analysis Method: SW846 M8270C
Lab Prep Batch: WG5370
Units: ug/Kg

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
91-20-3	Naphthalene	JB	5.0	1.0	20	21	0.93
91-57-6	2-Methylnaphthalene	J	1.4	1.0	20	21	0.58
208-96-8	Acenaphthylene	U	21	1.0	20	21	0.55
83-32-9	Acenaphthene	J	1.1	1.0	20	21	0.73
86-73-7	Fluorene	U	21	1.0	20	21	0.64
85-01-8	Phenanthrene		24	1.0	20	21	1.5
120-12-7	Anthracene	J	8.6	1.0	20	21	0.84
206-44-0	Fluoranthene		90	1.0	20	21	1.7
129-00-0	Pyrene		81	1.0	20	21	1.9
56-55-3	Benzo(a)anthracene		78	1.0	20	21	1.0
218-01-9	Chrysene		68	1.0	20	21	1.3
205-99-2	Benzo(b)fluoranthene	E	130	1.0	20	21	2.1
207-08-9	Benzo(k)fluoranthene		66	1.0	20	21	1.4
50-32-8	Benzo(a)pyrene		82	1.0	20	21	0.78
193-39-5	Indeno(1,2,3-cd)pyrene		85	1.0	20	21	2.1
53-70-3	Dibenzo(a,h)anthracene		29	1.0	20	21	2.1
191-24-2	Benzo(g,h,i)perylene	E	110	1.0	20	21	1.8
7297-45-2	2-Methylnaphthalene-d10		97%				
81103-79-9	Fluorene-d10		96%				
1718-52-1	Pyrene-d10		99%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO91 NS MAYPORT
PO No:
Sample Date: 01/05/04
Received Date: 01/09/04
Extraction Date: 01/12/04
Analysis Date: 01/19/04
Report Date: 01/28/2004
Matrix: SOIL
% Solids: 95.8

Lab ID: WU0050-22DL
Client ID: MPT-45-B2-2'
SDG: WU0050
Extracted by: NB
Extraction Method: SW846 3550
Analyst: JCG
Analysis Method: SW846 M8270C
Lab Prep Batch: WG5370
Units: ug/Kg

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
91-20-3	Naphthalene	JB	5.3	2.0	20	42	1.8
91-57-6	2-Methylnaphthalene	U	42	2.0	20	42	1.2
208-96-8	Acenaphthylene	U	42	2.0	20	42	1.1
83-32-9	Acenaphthene	J	1.7	2.0	20	42	1.5
86-73-7	Fluorene	U	42	2.0	20	42	1.3
85-01-8	Phenanthrene	J	25	2.0	20	42	3.1
120-12-7	Anthracene	J	9.5	2.0	20	42	1.7
206-44-0	Fluoranthene		94	2.0	20	42	3.4
129-00-0	Pyrene		110	2.0	20	42	3.8
56-55-3	Benzo(a)anthracene		87	2.0	20	42	2.1
218-01-9	Chrysene		79	2.0	20	42	2.6
205-99-2	Benzo(b)fluoranthene		110	2.0	20	42	4.3
207-08-9	Benzo(k)fluoranthene		120	2.0	20	42	2.8
50-32-8	Benzo(a)pyrene		110	2.0	20	42	1.6
193-39-5	Indeno(1,2,3-cd)pyrene		90	2.0	20	42	4.2
53-70-3	Dibenzo(a,h)anthracene	J	36	2.0	20	42	4.2
191-24-2	Benzo(g,h,i)perylene		110	2.0	20	42	3.6
7297-45-2	2-Methylnaphthalene-d10		93%				
81103-79-9	Fluorene-d10		76%				
1718-52-1	Pyrene-d10		122%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO91 NS MAYPORT
PO No:
Sample Date: 01/05/04
Received Date: 01/09/04
Extraction Date: 01/12/04
Analysis Date: 01/17/04
Report Date: 01/28/2004
Matrix: SOIL
% Solids: 91.4

Lab ID: WU0050-23
Client ID: MPT-45-B3-2'
SDG: WU0050
Extracted by: NB
Extraction Method: SW846 3550
Analyst: JCG
Analysis Method: SW846 M8270C
Lab Prep Batch: WG5370
Units: ug/Kg

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
91-20-3	Naphthalene	JB	3.2	1.0	20	22	0.97
91-57-6	2-Methylnaphthalene	J	1.5	1.0	20	22	0.61
208-96-8	Acenaphthylene	U	22	1.0	20	22	0.58
83-32-9	Acenaphthene	U	22	1.0	20	22	0.77
86-73-7	Fluorene	U	22	1.0	20	22	0.67
85-01-8	Phenanthrene	J	5.1	1.0	20	22	1.6
120-12-7	Anthracene	J	4.8	1.0	20	22	0.89
206-44-0	Fluoranthene	J	15	1.0	20	22	1.8
129-00-0	Pyrene	J	13	1.0	20	22	2.0
56-55-3	Benzo(a)anthracene	J	11	1.0	20	22	1.1
218-01-9	Chrysene	J	13	1.0	20	22	1.3
205-99-2	Benzo(b)fluoranthene	U	22	1.0	20	22	2.2
207-08-9	Benzo(k)fluoranthene	U	22	1.0	20	22	1.5
50-32-8	Benzo(a)pyrene	J	12	1.0	20	22	0.82
193-39-5	Indeno(1,2,3-cd)pyrene	J	16	1.0	20	22	2.2
53-70-3	Dibenzo(a,h)anthracene	U	22	1.0	20	22	2.2
191-24-2	Benzo(g,h,i)perylene	J	21	1.0	20	22	1.9
7297-45-2	2-Methylnaphthalene-d10		93%				
81103-79-9	Fluorene-d10		85%				
1718-52-1	Pyrene-d10		84%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO91 NS MAYPORT
PO No:
Sample Date: 01/05/04
Received Date: 01/09/04
Extraction Date: 01/12/04
Analysis Date: 01/17/04
Report Date: 01/28/2004
Matrix: SOIL
% Solids: 95.8

Lab ID: WU0050-24
Client ID: MPT-45-B4-2'
SDG: WU0050
Extracted by: NB
Extraction Method: SW846 3550
Analyst: JCG
Analysis Method: SW846 M8270C
Lab Prep Batch: WG5370
Units: ug/Kg

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
91-20-3	Naphthalene	JB	4.3	1.0	20	21	0.93
91-57-6	2-Methylnaphthalene	J	1.5	1.0	20	21	0.58
208-96-8	Acenaphthylene	U	21	1.0	20	21	0.55
83-32-9	Acenaphthene	U	21	1.0	20	21	0.73
86-73-7	Fluorene	U	21	1.0	20	21	0.64
85-01-8	Phenanthrene	J	6.4	1.0	20	21	1.5
120-12-7	Anthracene	J	6.4	1.0	20	21	0.84
206-44-0	Fluoranthene		29	1.0	20	21	1.7
129-00-0	Pyrene		24	1.0	20	21	1.9
56-55-3	Benzo(a)anthracene	J	17	1.0	20	21	1.0
218-01-9	Chrysene	J	20	1.0	20	21	1.3
205-99-2	Benzo(b)fluoranthene	U	21	1.0	20	21	2.1
207-08-9	Benzo(k)fluoranthene	U	21	1.0	20	21	1.4
50-32-8	Benzo(a)pyrene	J	20	1.0	20	21	0.78
193-39-5	Indeno(1,2,3-cd)pyrene		21	1.0	20	21	2.1
53-70-3	Dibenzo(a,h)anthracene	U	21	1.0	20	21	2.1
191-24-2	Benzo(g,h,i)perylene		29	1.0	20	21	1.8
7297-45-2	2-Methylnaphthalene-d10		96%				
81103-79-9	Fluorene-d10		94%				
1718-52-1	Pyrene-d10		93%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO91 NS MAYPORT
PO No:
Sample Date: 01/05/04
Received Date: 01/09/04
Extraction Date: 01/12/04
Analysis Date: 01/17/04
Report Date: 01/28/2004
Matrix: SOIL
% Solids: 96.8

Lab ID: WU0050-25
Client ID: MPT-45-C1-2'
SDG: WU0050
Extracted by: NB
Extraction Method: SW846 3550
Analyst: JCG
Analysis Method: SW846 M8270C
Lab Prep Batch: WG5370
Units: ug/Kg

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
91-20-3	Naphthalene	JB	7.6	1.0	20	21	0.92
91-57-6	2-Methylnaphthalene	J	2.2	1.0	20	21	0.58
208-96-8	Acenaphthylene	J	0.98	1.0	20	21	0.55
83-32-9	Acenaphthene	J	1.2	1.0	20	21	0.72
86-73-7	Fluorene	U	21	1.0	20	21	0.63
85-01-8	Phenanthrene		38	1.0	20	21	1.5
120-12-7	Anthracene	J	14	1.0	20	21	0.84
206-44-0	Fluoranthene	E	120	1.0	20	21	1.7
129-00-0	Pyrene		98	1.0	20	21	1.8
56-55-3	Benzo(a)anthracene	E	120	1.0	20	21	1.0
218-01-9	Chrysene		85	1.0	20	21	1.3
205-99-2	Benzo(b)fluoranthene	E	140	1.0	20	21	2.1
207-08-9	Benzo(k)fluoranthene		70	1.0	20	21	1.4
50-32-8	Benzo(a)pyrene		86	1.0	20	21	0.77
193-39-5	Indeno(1,2,3-cd)pyrene		67	1.0	20	21	2.1
53-70-3	Dibenzo(a,h)anthracene		28	1.0	20	21	2.1
191-24-2	Benzo(g,h,i)perylene		68	1.0	20	21	1.8
7297-45-2	2-Methylnaphthalene-d10		85%				
81103-79-9	Fluorene-d10		77%				
1718-52-1	Pyrene-d10		89%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO91 NS MAYPORT
PO No:
Sample Date: 01/05/04
Received Date: 01/09/04
Extraction Date: 01/12/04
Analysis Date: 01/19/04
Report Date: 01/28/2004
Matrix: SOIL
% Solids: 96.8

Lab ID: WU0050-25DL
Client ID: MPT-45-C1-2'
SDG: WU0050
Extracted by: NB
Extraction Method: SW846 3550
Analyst: JCG
Analysis Method: SW846 M8270C
Lab Prep Batch: WG5370
Units: ug/Kg

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
91-20-3	Naphthalene	JB	7.8	2.0	20	41	1.8
91-57-6	2-Methylnaphthalene	U	41	2.0	20	41	1.2
208-96-8	Acenaphthylene	U	41	2.0	20	41	1.1
83-32-9	Acenaphthene	U	41	2.0	20	41	1.4
86-73-7	Fluorene	U	41	2.0	20	41	1.3
85-01-8	Phenanthrene	J	33	2.0	20	41	3.0
120-12-7	Anthracene	J	14	2.0	20	41	1.7
206-44-0	Fluoranthene		120	2.0	20	41	3.4
129-00-0	Pyrene		120	2.0	20	41	3.7
56-55-3	Benzo(a)anthracene		100	2.0	20	41	2.1
218-01-9	Chrysene		93	2.0	20	41	2.5
205-99-2	Benzo(b)fluoranthene		110	2.0	20	41	4.2
207-08-9	Benzo(k)fluoranthene		68	2.0	20	41	2.8
50-32-8	Benzo(a)pyrene		86	2.0	20	41	1.5
193-39-5	Indeno(1,2,3-cd)pyrene		51	2.0	20	41	4.2
53-70-3	Dibenzo(a,h)anthracene	U	41	2.0	20	41	4.1
191-24-2	Benzo(g,h,i)perylene		47	2.0	20	41	3.5
7297-45-2	2-Methylnaphthalene-d10		74%				
81103-79-9	Fluorene-d10		72%				
1718-52-1	Pyrene-d10		104%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO91 NS MAYPORT
PO No:
Sample Date: 01/05/04
Received Date: 01/09/04
Extraction Date: 01/12/04
Analysis Date: 01/17/04
Report Date: 01/28/2004
Matrix: SOIL
% Solids: 95.8

Lab ID: WU0050-26
Client ID: MPT-45-C2-2'
SDG: WU0050
Extracted by: NB
Extraction Method: SW846 3550
Analyst: JCG
Analysis Method: SW846 M8270C
Lab Prep Batch: WG5370
Units: ug/Kg

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
91-20-3	Naphthalene	JB	3.2	1.0	20	21	0.93
91-57-6	2-Methylnaphthalene	J	1.1	1.0	20	21	0.58
208-96-8	Acenaphthylene	J	0.90	1.0	20	21	0.55
83-32-9	Acenaphthene	J	0.85	1.0	20	21	0.73
86-73-7	Fluorene	U	21	1.0	20	21	0.64
85-01-8	Phenanthrene		25	1.0	20	21	1.5
120-12-7	Anthracene	U	21	1.0	20	21	0.84
206-44-0	Fluoranthene		94	1.0	20	21	1.7
129-00-0	Pyrene		85	1.0	20	21	1.9
56-55-3	Benzo(a)anthracene		73	1.0	20	21	1.0
218-01-9	Chrysene		65	1.0	20	21	1.3
205-99-2	Benzo(b)fluoranthene	E	110	1.0	20	21	2.1
207-08-9	Benzo(k)fluoranthene		66	1.0	20	21	1.4
50-32-8	Benzo(a)pyrene		70	1.0	20	21	0.78
193-39-5	Indeno(1,2,3-cd)pyrene		74	1.0	20	21	2.1
53-70-3	Dibenzo(a,h)anthracene		26	1.0	20	21	2.1
191-24-2	Benzo(g,h,i)perylene		86	1.0	20	21	1.8
7297-45-2	2-Methylnaphthalene-d10		85%				
81103-79-9	Fluorene-d10		84%				
1718-52-1	Pyrene-d10		92%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CT091 NS MAYPORT
PO No:
Sample Date: 01/05/04
Received Date: 01/09/04
Extraction Date: 01/12/04
Analysis Date: 01/26/04
Report Date: 01/28/2004
Matrix: SOIL
% Solids: 95.8

Lab ID: WU0050-26DL2
Client ID: MPT-45-C2-2'
SDG: WU0050
Extracted by: NB
Extraction Method: SW846 3550
Analyst: JCG
Analysis Method: SW846 M8270C
Lab Prep Batch: WG5370
Units: ug/Kg

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
91-20-3	Naphthalene	JB	3.4	2.0	20	42	1.8
91-57-6	2-Methylnaphthalene	U	42	2.0	20	42	1.2
208-96-8	Acenaphthylene	U	42	2.0	20	42	1.1
83-32-9	Acenaphthene	U	42	2.0	20	42	1.5
86-73-7	Fluorene	U	42	2.0	20	42	1.3
85-01-8	Phenanthrene	J	20	2.0	20	42	3.1
120-12-7	Anthracene	J	4.7	2.0	20	42	1.7
206-44-0	Fluoranthene		98	2.0	20	42	3.4
129-00-0	Pyrene		88	2.0	20	42	3.8
56-55-3	Benzo(a)anthracene		74	2.0	20	42	2.1
218-01-9	Chrysene		82	2.0	20	42	2.6
205-99-2	Benzo(b)fluoranthene		73	2.0	20	42	4.3
207-08-9	Benzo(k)fluoranthene		68	2.0	20	42	2.8
50-32-8	Benzo(a)pyrene		78	2.0	20	42	1.6
193-39-5	Indeno(1,2,3-cd)pyrene		61	2.0	20	42	4.2
53-70-3	Dibenzo(a,h)anthracene	U	42	2.0	20	42	4.2
191-24-2	Benzo(g,h,i)perylene		51	2.0	20	42	3.6
7297-45-2	2-Methylnaphthalene-d10		75%				
81103-79-9	Fluorene-d10		82%				
1718-52-1	Pyrene-d10		96%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO91 NS MAYPORT
PO No:
Sample Date: 01/05/04
Received Date: 01/09/04
Extraction Date: 01/12/04
Analysis Date: 01/17/04
Report Date: 01/28/2004
Matrix: SOIL
% Solids: 94.9

Lab ID: WU0050-27
Client ID: MPT-45-C3-2'
SDG: WU0050
Extracted by: NB
Extraction Method: SW846 3550
Analyst: JCG
Analysis Method: SW846 M8270C
Lab Prep Batch: WG5370
Units: ug/Kg

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
91-20-3	Naphthalene	JB	8.9	1.0	20	21	0.94
91-57-6	2-Methylnaphthalene	J	3.3	1.0	20	21	0.59
208-96-8	Acenaphthylene	J	2.9	1.0	20	21	0.56
83-32-9	Acenaphthene	J	6.2	1.0	20	21	0.74
86-73-7	Fluorene	J	8.0	1.0	20	21	0.64
85-01-8	Phenanthrene	E	110	1.0	20	21	1.5
120-12-7	Anthracene		22	1.0	20	21	0.85
206-44-0	Fluoranthene	E	150	1.0	20	21	1.7
129-00-0	Pyrene	E	140	1.0	20	21	1.9
56-55-3	Benzo(a)anthracene	E	120	1.0	20	21	1.1
218-01-9	Chrysene		89	1.0	20	21	1.3
205-99-2	Benzo(b)fluoranthene	E	140	1.0	20	21	2.2
207-08-9	Benzo(k)fluoranthene		80	1.0	20	21	1.4
50-32-8	Benzo(a)pyrene		92	1.0	20	21	0.79
193-39-5	Indeno(1,2,3-cd)pyrene		69	1.0	20	21	2.1
53-70-3	Dibenzo(a,h)anthracene		28	1.0	20	21	2.1
191-24-2	Benzo(g,h,i)perylene		78	1.0	20	21	1.8
7297-45-2	2-Methylnaphthalene-d10		85%				
81103-79-9	Fluorene-d10		68%				
1718-52-1	Pyrene-d10		90%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO91 NS MAYPORT
PO No:
Sample Date: 01/05/04
Received Date: 01/09/04
Extraction Date: 01/12/04
Analysis Date: 01/26/04
Report Date: 01/28/2004
Matrix: SOIL
% Solids: 94.9

Lab ID: WU0050-27DL2
Client ID: MPT-45-C3-2'
SDG: WU0050
Extracted by: NB
Extraction Method: SW846 3550
Analyst: JCG
Analysis Method: SW846 M8270C
Lab Prep Batch: WG5370
Units: ug/Kg

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
91-20-3	Naphthalene	JB	9.3	2.0	20	42	1.9
91-57-6	2-Methylnaphthalene	J	3.0	2.0	20	42	1.2
208-96-8	Acenaphthylene	J	2.7	2.0	20	42	1.1
83-32-9	Acenaphthene	J	6.6	2.0	20	42	1.5
86-73-7	Fluorene	J	9.1	2.0	20	42	1.3
85-01-8	Phenanthrene		96	2.0	20	42	3.1
120-12-7	Anthracene	J	22	2.0	20	42	1.7
206-44-0	Fluoranthene		190	2.0	20	42	3.4
129-00-0	Pyrene		130	2.0	20	42	3.8
56-55-3	Benzo(a)anthracene		130	2.0	20	42	2.1
218-01-9	Chrysene		110	2.0	20	42	2.6
205-99-2	Benzo(b)fluoranthene		76	2.0	20	42	4.3
207-08-9	Benzo(k)fluoranthene		72	2.0	20	42	2.8
50-32-8	Benzo(a)pyrene		88	2.0	20	42	1.6
193-39-5	Indeno(1,2,3-cd)pyrene		68	2.0	20	42	4.2
53-70-3	Dibenzo(a,h)anthracene	J	9.8	2.0	20	42	4.2
191-24-2	Benzo(g,h,i)perylene		54	2.0	20	42	3.6
7297-45-2	2-Methylnaphthalene-d10		73%				
81103-79-9	Fluorene-d10		78%				
1718-52-1	Pyrene-d10		93%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO91 NS MAYPORT
PO No:
Sample Date: 01/05/04
Received Date: 01/09/04
Extraction Date: 01/12/04
Analysis Date: 02/19/04
Report Date: 02/19/2004
Matrix: SOIL
% Solids: 96.1

Lab ID: WU0050-28RA3
Client ID: MPT-45-C4-2'
SDG: WU0050
Extracted by: NB
Extraction Method: SW846 3550
Analyst: JCG
Analysis Method: SW846 8270M
Lab Prep Batch: WG5370
Units: ug/Kg

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
91-20-3	Naphthalene	J	5.4	1.0	20	21	0.00
91-57-6	2-Methylnaphthalene	J	1.6	1.0	20	21	0.00
90-12-0	1-Methylnaphthalene	J	1.0	1.0	1.0	1.0	0.00
208-96-8	Acenaphthylene	J	0.46	1.0	20	21	0.00
83-32-9	Acenaphthene	J	0.58	1.0	20	21	0.00
86-73-7	Fluorene	U	21	1.0	20	21	0.00
85-01-8	Phenanthrene	J	13	1.0	20	21	0.00
120-12-7	Anthracene	J	7.0	1.0	20	21	0.00
206-44-0	Fluoranthene		53	1.0	20	21	0.00
129-00-0	Pyrene		40	1.0	20	21	0.00
56-55-3	Benzo(a)anthracene		62	1.0	20	21	0.00
218-01-9	Chrysene		43	1.0	20	21	0.00
205-99-2	Benzo(b)fluoranthene		59	1.0	20	21	0.00
207-08-9	Benzo(k)fluoranthene		34	1.0	20	21	0.00
50-32-8	Benzo(a)pyrene		43	1.0	20	21	0.00
193-39-5	Indeno(1,2,3-cd)pyrene		25	1.0	20	21	0.00
53-70-3	Dibenzo(a,h)anthracene	J	11	1.0	20	21	0.00
191-24-2	Benzo(g,h,i)perylene	J	20	1.0	20	21	0.00
7297-45-2	2-Methylnaphthalene-d10		94%				
81103-79-9	Fluorene-d10		105%				
1718-52-1	Pyrene-d10		100%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO91 NS MAYPORT
PO No:
Sample Date: 01/05/04
Received Date: 01/09/04
Extraction Date: 01/12/04
Analysis Date: 01/17/04
Report Date: 01/28/2004
Matrix: SOIL
% Solids: 96.1

Lab ID: WU0050-28
Client ID: MPT-45-C4-2'
SDG: WU0050
Extracted by: NB
Extraction Method: SW846 3550
Analyst: JCG
Analysis Method: SW846 M8270C
Lab Prep Batch: WG5370
Units: ug/Kg

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
91-20-3	Naphthalene	JB	11	1.0	20	21	0.93
91-57-6	2-Methylnaphthalene	J	6.2	1.0	20	21	0.58
208-96-8	Acenaphthylene	J	12	1.0	20	21	0.55
83-32-9	Acenaphthene	J	10	1.0	20	21	0.73
86-73-7	Fluorene	J	18	1.0	20	21	0.63
85-01-8	Phenanthrene	E	250	1.0	20	21	1.5
120-12-7	Anthracene	E	150	1.0	20	21	0.84
206-44-0	Fluoranthene	E	1500	1.0	20	21	1.7
129-00-0	Pyrene	E	2000	1.0	20	21	1.9
56-55-3	Benzo(a)anthracene	E	4100	1.0	20	21	1.0
218-01-9	Chrysene	E	2300	1.0	20	21	1.3
205-99-2	Benzo(b)fluoranthene	E	4300	1.0	20	21	2.1
207-08-9	Benzo(k)fluoranthene	E	1800	1.0	20	21	1.4
50-32-8	Benzo(a)pyrene	E	3100	1.0	20	21	0.78
193-39-5	Indeno(1,2,3-cd)pyrene	E	2100	1.0	20	21	2.1
53-70-3	Dibenzo(a,h)anthracene	E	1600	1.0	20	21	2.1
191-24-2	Benzo(g,h,i)perylene	E	2000	1.0	20	21	1.8
7297-45-2	2-Methylnaphthalene-d10		68%				
81103-79-9	Fluorene-d10		63%				
1718-52-1	Pyrene-d10		67%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO91 NS MAYPORT
PO No:
Sample Date: 01/05/04
Received Date: 01/09/04
Extraction Date: 01/12/04
Analysis Date: 01/26/04
Report Date: 01/28/2004
Matrix: SOIL
% Solids: 96.1

Lab ID: WU0050-28DL2
Client ID: MPT-45-C4-2'
SDG: WU0050
Extracted by: NB
Extraction Method: SW846 3550
Analyst: JCG
Analysis Method: SW846 M8270C
Lab Prep Batch: WG5370
Units: ug/Kg

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
91-20-3	Naphthalene	U	210	10	20	210	9.3
91-57-6	2-Methylnaphthalene	U	210	10	20	210	5.8
208-96-8	Acenaphthylene	U	210	10	20	210	5.5
83-32-9	Acenaphthene	U	210	10	20	210	7.3
86-73-7	Fluorene	U	210	10	20	210	6.3
85-01-8	Phenanthrene	J	14	10	20	210	15
120-12-7	Anthracene	J	8.5	10	20	210	8.4
206-44-0	Fluoranthene	J	69	10	20	210	17
129-00-0	Pyrene	J	54	10	20	210	19
56-55-3	Benzo(a)anthracene	J	68	10	20	210	10
218-01-9	Chrysene	J	67	10	20	210	13
205-99-2	Benzo(b)fluoranthene	J	40	10	20	210	21
207-08-9	Benzo(k)fluoranthene	J	39	10	20	210	14
50-32-8	Benzo(a)pyrene	J	44	10	20	210	7.8
193-39-5	Indeno(1,2,3-cd)pyrene	J	39	10	20	210	21
53-70-3	Dibenzo(a,h)anthracene	U	210	10	20	210	21
191-24-2	Benzo(g,h,i)perylene	J	30	10	20	210	18
7297-45-2	2-Methylnaphthalene-d10		D				
81103-79-9	Fluorene-d10		D				
1718-52-1	Pyrene-d10		D				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO91 NS MAYPORT
PO No:
Sample Date: 01/05/04
Received Date: 01/09/04
Extraction Date: 01/12/04
Analysis Date: 01/19/04
Report Date: 01/28/2004
Matrix: SOIL
% Solids: 93.2

Lab ID: WU0050-29DL
Client ID: MPT-45-D3-2'
SDG: WU0050
Extracted by: NB
Extraction Method: SW846 3550
Analyst: JCG
Analysis Method: SW846 M8270C
Lab Prep Batch: WG5370
Units: ug/Kg

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
91-20-3	Naphthalene	U	2100	100	20	2100	95
91-57-6	2-Methylnaphthalene	U	2100	100	20	2100	60
208-96-8	Acenaphthylene	U	2100	100	20	2100	57
83-32-9	Acenaphthene	U	2100	100	20	2100	75
86-73-7	Fluorene	U	2100	100	20	2100	65
85-01-8	Phenanthrene	U	2100	100	20	2100	160
120-12-7	Anthracene	U	2100	100	20	2100	87
206-44-0	Fluoranthene	J	1700	100	20	2100	180
129-00-0	Pyrene		3000	100	20	2100	190
56-55-3	Benzo(a)anthracene		3200	100	20	2100	110
218-01-9	Chrysene		3800	100	20	2100	130
205-99-2	Benzo(b)fluoranthene		4500	100	20	2100	220
207-08-9	Benzo(k)fluoranthene		2700	100	20	2100	140
50-32-8	Benzo(a)pyrene		4900	100	20	2100	80
193-39-5	Indeno(1,2,3-cd)pyrene	J	1800	100	20	2100	220
53-70-3	Dibenzo(a,h)anthracene	U	2100	100	20	2100	210
191-24-2	Benzo(g,h,i)perylene	J	1800	100	20	2100	180
7297-45-2	2-Methylnaphthalene-d10		D				
81103-79-9	Fluorene-d10		D				
1718-52-1	Pyrene-d10		D				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO91 NS MAYPORT
PO No:
Sample Date: 01/05/04
Received Date: 01/09/04
Extraction Date: 01/12/04
Analysis Date: 01/19/04
Report Date: 01/28/2004
Matrix: SOIL
% Solids: 93.2

Lab ID: WU0050-29RA
Client ID: MPT-45-D3-2'
SDG: WU0050
Extracted by: NB
Extraction Method: SW846 3550
Analyst: JCG
Analysis Method: SW846 M8270C
Lab Prep Batch: WG5370
Units: ug/Kg

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
91-20-3	Naphthalene	BJ	11	1.0	20	21	0.95
91-57-6	2-Methylnaphthalene	J	6.4	1.0	20	21	0.60
208-96-8	Acenaphthylene	J	12	1.0	20	21	0.57
83-32-9	Acenaphthene	J	12	1.0	20	21	0.75
86-73-7	Fluorene	J	19	1.0	20	21	0.65
85-01-8	Phenanthrene	E	250	1.0	20	21	1.6
120-12-7	Anthracene	E	160	1.0	20	21	0.87
206-44-0	Fluoranthene	E	1600	1.0	20	21	1.8
129-00-0	Pyrene	E	2400	1.0	20	21	1.9
56-55-3	Benzo(a)anthracene	E	4200	1.0	20	21	1.1
218-01-9	Chrysene	E	2500	1.0	20	21	1.3
205-99-2	Benzo(b)fluoranthene	E	5600	1.0	20	21	2.2
207-08-9	Benzo(k)fluoranthene	E	2400	1.0	20	21	1.4
50-32-8	Benzo(a)pyrene	E	3700	1.0	20	21	0.80
193-39-5	Indeno(1,2,3-cd)pyrene	E	2400	1.0	20	21	2.2
53-70-3	Dibenzo(a,h)anthracene	E	1700	1.0	20	21	2.1
191-24-2	Benzo(g,h,i)perylene	E	2200	1.0	20	21	1.8
7297-45-2	2-Methylnaphthalene-d10		71%				
81103-79-9	Fluorene-d10		67%				
1718-52-1	Pyrene-d10		73%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO091 NS MAYPORT
PO No:
Sample Date: 01/05/04
Received Date: 01/09/04
Extraction Date: 01/12/04
Analysis Date: 01/19/04
Report Date: 02/17/2004
Matrix: SOIL
% Solids: 86.8

Lab ID: WU0050-30RA
Client ID: MPT-45-D4-2'
SDG: WU0050
Extracted by: NB
Extraction Method: SW846 3550
Analyst: JCG
Analysis Method: SW846 M8270C
Lab Prep Batch: WG5370
Units: ug/Kg

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
91-20-3	Naphthalene	U	23	1.0	20	23	1.0
91-57-6	2-Methylnaphthalene	U	23	1.0	20	23	0.64
208-96-8	Acenaphthylene	U	23	1.0	20	23	0.61
83-32-9	Acenaphthene	U	23	1.0	20	23	0.81
86-73-7	Fluorene	U	23	1.0	20	23	0.70
85-01-8	Phenanthrene	U	23	1.0	20	23	1.7
120-12-7	Anthracene	U	23	1.0	20	23	0.93
206-44-0	Fluoranthene	J	20	1.0	20	23	1.9
129-00-0	Pyrene		23	1.0	20	23	2.1
56-55-3	Benzo(a)anthracene		43	1.0	20	23	1.2
218-01-9	Chrysene		37	1.0	20	23	1.4
205-99-2	Benzo(b)fluoranthene		40	1.0	20	23	2.4
207-08-9	Benzo(k)fluoranthene		45	1.0	20	23	1.6
50-32-8	Benzo(a)pyrene		44	1.0	20	23	0.86
193-39-5	Indeno(1,2,3-cd)pyrene	J	23	1.0	20	23	2.3
53-70-3	Dibenzo(a,h)anthracene	J	9.7	1.0	20	23	2.3
191-24-2	Benzo(g,h,i)perylene	J	23	1.0	20	23	2.0
7297-45-2	2-Methylnaphthalene-d10		66%				
81103-79-9	Fluorene-d10		65%				
1718-52-1	Pyrene-d10		80%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO91 NS MAYPORT
PO No:
Sample Date: 01/05/04
Received Date: 01/09/04
Extraction Date: 01/12/04
Analysis Date: 01/19/04
Report Date: 01/28/2004
Matrix: SOIL
% Solids: 86.8

Lab ID: WU0050-30RA
Client ID: MPT-45-D4-2'
SDG: WU0050
Extracted by: NB
Extraction Method: SW846 3550
Analyst: JCG
Analysis Method: SW846 M8270C
Lab Prep Batch: WG5370
Units: ug/Kg

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
91-20-3	Naphthalene	U	23	1.0	20	23	1.0
91-57-6	2-Methylnaphthalene	U	23	1.0	20	23	0.64
208-96-8	Acenaphthylene	U	23	1.0	20	23	0.61
83-32-9	Acenaphthene	U	23	1.0	20	23	0.81
86-73-7	Fluorene	U	23	1.0	20	23	0.70
85-01-8	Phenanthrene	U	23	1.0	20	23	1.7
120-12-7	Anthracene	U	23	1.0	20	23	0.93
206-44-0	Fluoranthene		24	1.0	20	23	1.9
129-00-0	Pyrene	J	21	1.0	20	23	2.1
56-55-3	Benzo(a)anthracene		64	1.0	20	23	1.2
218-01-9	Chrysene		34	1.0	20	23	1.4
205-99-2	Benzo(b)fluoranthene		51	1.0	20	23	2.4
207-08-9	Benzo(k)fluoranthene		42	1.0	20	23	1.6
50-32-8	Benzo(a)pyrene		41	1.0	20	23	0.86
193-39-5	Indeno(1,2,3-cd)pyrene	J	17	1.0	20	23	2.3
53-70-3	Dibenzo(a,h)anthracene	J	13	1.0	20	23	2.3
191-24-2	Benzo(g,h,i)perylene	J	12	1.0	20	23	2.0
7297-45-2	2-Methylnaphthalene-d10		69%				
81103-79-9	Fluorene-d10		80%				
1718-52-1	Pyrene-d10		86%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO091 NS MAYPORT
PO No:
Sample Date: 01/05/04
Received Date: 01/09/04
Extraction Date: 01/12/04
Analysis Date: 01/19/04
Report Date: 02/17/2004
Matrix: SOIL
% Solids: 87.4

Lab ID: WU0050-31RA
Client ID: MPT-45-E4-2'
SDG: WU0050
Extracted by: NB
Extraction Method: SW846 3550
Analyst: JCG
Analysis Method: SW846 M8270C
Lab Prep Batch: WG5370
Units: ug/Kg

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
91-20-3	Naphthalene	JB	2.5	1.0	20	23	1.0
91-57-6	2-Methylnaphthalene	J	0.69	1.0	20	23	0.64
208-96-8	Acenaphthylene	U	23	1.0	20	23	0.61
83-32-9	Acenaphthene	U	23	1.0	20	23	0.80
86-73-7	Fluorene	U	23	1.0	20	23	0.70
85-01-8	Phenanthrene	U	23	1.0	20	23	1.7
120-12-7	Anthracene	U	23	1.0	20	23	0.93
206-44-0	Fluoranthene	J	5.7	1.0	20	23	1.9
129-00-0	Pyrene	J	4.7	1.0	20	23	2.0
56-55-3	Benzo(a)anthracene	J	6.8	1.0	20	23	1.2
218-01-9	Chrysene	J	5.6	1.0	20	23	1.4
205-99-2	Benzo(b)fluoranthene	J	9.9	1.0	20	23	2.3
207-08-9	Benzo(k)fluoranthene	J	7.6	1.0	20	23	1.5
50-32-8	Benzo(a)pyrene	U	23	1.0	20	23	0.86
193-39-5	Indeno(1,2,3-cd)pyrene	U	23	1.0	20	23	2.3
53-70-3	Dibenzo(a,h)anthracene	U	23	1.0	20	23	2.3
191-24-2	Benzo(g,h,i)perylene	U	23	1.0	20	23	2.0
7297-45-2	2-Methylnaphthalene-d10		66%				
81103-79-9	Fluorene-d10		62%				
1718-52-1	Pyrene-d10		94%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO91 NS MAYPORT
PO No:
Sample Date: 01/05/04
Received Date: 01/09/04
Extraction Date: 01/12/04
Analysis Date: 01/19/04
Report Date: 01/28/2004
Matrix: SOIL
% Solids: 87.4

Lab ID: WU0050-31RA
Client ID: MPT-45-E4-2'
SDG: WU0050
Extracted by: NB
Extraction Method: SW846 3550
Analyst: JCG
Analysis Method: SW846 M8270C
Lab Prep Batch: WG5370
Units: ug/Kg

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
91-20-3	Naphthalene	JB	2.4	1.0	20	23	1.0
91-57-6	2-Methylnaphthalene	J	5.2	1.0	20	23	0.64
208-96-8	Acenaphthylene	U	23	1.0	20	23	0.61
83-32-9	Acenaphthene	U	23	1.0	20	23	0.80
86-73-7	Fluorene	U	23	1.0	20	23	0.70
85-01-8	Phenanthrene	U	23	1.0	20	23	1.7
120-12-7	Anthracene	U	23	1.0	20	23	0.93
206-44-0	Fluoranthene	J	6.6	1.0	20	23	1.9
129-00-0	Pyrene	J	4.2	1.0	20	23	2.0
56-55-3	Benzo(a)anthracene	J	10	1.0	20	23	1.2
218-01-9	Chrysene	J	5.1	1.0	20	23	1.4
205-99-2	Benzo(b)fluoranthene	J	16	1.0	20	23	2.3
207-08-9	Benzo(k)fluoranthene	J	7.0	1.0	20	23	1.5
50-32-8	Benzo(a)pyrene	U	23	1.0	20	23	0.86
193-39-5	Indeno(1,2,3-cd)pyrene	U	23	1.0	20	23	2.3
53-70-3	Dibenzo(a,h)anthracene	U	23	1.0	20	23	2.3
191-24-2	Benzo(g,h,i)perylene	U	23	1.0	20	23	2.0
7297-45-2	2-Methylnaphthalene-d10		69%				
81103-79-9	Fluorene-d10		76%				
1718-52-1	Pyrene-d10		102%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO91 NS MAYPORT
PO No:
Sample Date: 01/05/04
Received Date: 01/09/04
Extraction Date: 01/12/04
Analysis Date: 01/19/04
Report Date: 01/28/2004
Matrix: SOIL
% Solids: 94.0

Lab ID: WU0050-32RA
Client ID: MPT-45-E4-5'
SDG: WU0050
Extracted by: NB
Extraction Method: SW846 3550
Analyst: JCG
Analysis Method: SW846 M8270C
Lab Prep Batch: WG5370
Units: ug/Kg

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
91-20-3	Naphthalene	JB	2.8	1.0	20	21	0.95
91-57-6	2-Methylnaphthalene	U	21	1.0	20	21	0.60
208-96-8	Acenaphthylene	U	21	1.0	20	21	0.56
83-32-9	Acenaphthene	U	21	1.0	20	21	0.74
86-73-7	Fluorene	U	21	1.0	20	21	0.65
85-01-8	Phenanthrene	U	21	1.0	20	21	1.6
120-12-7	Anthracene	U	21	1.0	20	21	0.86
206-44-0	Fluoranthene	J	6.1	1.0	20	21	1.7
129-00-0	Pyrene	J	6.8	1.0	20	21	1.9
56-55-3	Benzo(a)anthracene	J	7.1	1.0	20	21	1.1
218-01-9	Chrysene	J	5.9	1.0	20	21	1.3
205-99-2	Benzo(b)fluoranthene	J	14	1.0	20	21	2.2
207-08-9	Benzo(k)fluoranthene	J	6.5	1.0	20	21	1.4
50-32-8	Benzo(a)pyrene	J	7.7	1.0	20	21	0.80
193-39-5	Indeno(1,2,3-cd)pyrene	U	21	1.0	20	21	2.1
53-70-3	Dibenzo(a,h)anthracene	U	21	1.0	20	21	2.1
191-24-2	Benzo(g,h,i)perylene	U	21	1.0	20	21	1.8
7297-45-2	2-Methylnaphthalene-d10		64%				
81103-79-9	Fluorene-d10		70%				
1718-52-1	Pyrene-d10		94%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO91 NS MAYPORT
PO No:
Sample Date: 01/05/04
Received Date: 01/09/04
Extraction Date: 01/09/04
Analysis Date: 01/16/04
Report Date: 01/16/2004
Matrix: SOIL
% Solids: 91.2

Lab ID: WU0050-1
Client ID: MPT-45-A1-2'
SDG: WU0050
Extracted by: AZ
Extraction Method: SW846 3545
Analyst: LAD
Analysis Method: SW846 8081A
Lab Prep Batch: WG5360
Units: ug/Kg

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
959-98-8	Endosulfan I	U	1.9	1.0	1.7	1.9	0.92
319-84-6	alpha-BHC	U	1.9	1.0	1.7	1.9	0.81
58-89-9	gamma BHC	U	1.9	1.0	1.7	1.9	0.80
319-85-7	beta-BHC	U	1.9	1.0	1.7	1.9	0.79
319-86-8	delta-BHC	U	1.9	1.0	1.7	1.9	1.0
76-44-8	Heptachlor	U	1.9	1.0	1.7	1.9	0.66
309-00-2	Aldrin	U	1.9	1.0	1.7	1.9	1.2
1024-57-3	Heptachlor Epoxide	U	1.9	1.0	1.7	1.9	0.84
5103-74-2	gamma-Chlordane		6.4	1.0	1.7	1.9	0.96
5103-71-9	alpha-Chlordane		9.9	1.0	1.7	1.9	1.3
72-55-9	4,4'-DDE	U	1.9	1.0	1.7	1.9	1.6
50-29-3	4,4'-DDT	U	1.9	1.0	1.7	1.9	1.00
60-57-1	Dieldrin		4.0	1.0	1.7	1.9	1.2
8001-35-2	Toxaphene	U	1.9	1.0	1.7	1.9	1.8
72-20-8	Endrin	U	1.9	1.0	1.7	1.9	0.77
72-54-8	4,4'-DDD	U	1.9	1.0	1.7	1.9	1.2
33213-65-9	Endosulfan II	U	1.9	1.0	1.7	1.9	0.99
7421-36-3	Endrin Aldehyde	U	1.9	1.0	1.7	1.9	0.87
72-43-5	Methoxychlor	U	1.9	1.0	1.7	1.9	0.88
1031-07-8	Endosulfan sulfate	U	1.9	1.0	1.7	1.9	0.83
53494-70-5	Endrin Ketone	U	1.9	1.0	1.7	1.9	1.0
877-09-8	Tetrachloro-m-Xylene		74%				
2051-24-3	Decachlorobiphenyl		63%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CT091 NS MAYPORT
PO No:
Sample Date: 01/05/04
Received Date: 01/09/04
Extraction Date: 01/09/04
Analysis Date: 01/16/04
Report Date: 01/16/2004
Matrix: SOIL
% Solids: 93.0

Lab ID: WU0050-2
Client ID: MPT-45-A2-2'
SDG: WU0050
Extracted by: AZ
Extraction Method: SW846 3545
Analyst: LAD
Analysis Method: SW846 8081A
Lab Prep Batch: WG5360
Units: ug/Kg

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
959-98-8	Endosulfan I	U	1.8	1.0	1.7	1.8	0.90
319-84-6	alpha-BHC	U	1.8	1.0	1.7	1.8	0.80
58-89-9	gamma BHC	U	1.8	1.0	1.7	1.8	0.78
319-85-7	beta-BHC	U	1.8	1.0	1.7	1.8	0.77
319-86-8	delta-BHC	U	1.8	1.0	1.7	1.8	1.0
76-44-8	Heptachlor	U	1.8	1.0	1.7	1.8	0.64
309-00-2	Aldrin	U	1.8	1.0	1.7	1.8	1.1
1024-57-3	Heptachlor Epoxide	U	1.8	1.0	1.7	1.8	0.83
5103-74-2	gamma-Chlordane		6.7	1.0	1.7	1.8	0.95
5103-71-9	alpha-Chlordane		10	1.0	1.7	1.8	1.3
72-55-9	4,4'-DDE	U	1.8	1.0	1.7	1.8	1.5
50-29-3	4,4'-DDT	U	1.8	1.0	1.7	1.8	0.98
60-57-1	Dieldrin		5.0	1.0	1.7	1.8	1.2
8001-35-2	Toxaphene	U	1.8	1.0	1.7	1.8	1.8
72-20-8	Endrin	U	1.8	1.0	1.7	1.8	0.75
72-54-8	4,4'-DDD	U	1.8	1.0	1.7	1.8	1.2
33213-65-9	Endosulfan II	U	1.8	1.0	1.7	1.8	0.97
7421-36-3	Endrin Aldehyde	U	1.8	1.0	1.7	1.8	0.85
72-43-5	Methoxychlor	U	1.8	1.0	1.7	1.8	0.86
1031-07-8	Endosulfan sulfate	U	1.8	1.0	1.7	1.8	0.82
53494-70-5	Endrin Ketone	U	1.8	1.0	1.7	1.8	1.0
877-09-8	Tetrachloro-m-Xylene		77%				
2051-24-3	Decachlorobiphenyl		61%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO91 NS MAYPORT
PO No:
Sample Date: 01/05/04
Received Date: 01/09/04
Extraction Date: 01/09/04
Analysis Date: 01/16/04
Report Date: 01/16/2004
Matrix: SOIL
% Solids: 95.4

Lab ID: WU0050-3
Client ID: MPT-45-A3-2'
SDG: WU0050
Extracted by: AZ
Extraction Method: SW846 3545
Analyst: LAD
Analysis Method: SW846 8081A
Lab Prep Batch: WG5360
Units: ug/Kg

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
959-98-8	Endosulfan I	U	1.8	1.0	1.7	1.8	0.88
319-84-6	alpha-BHC	U	1.8	1.0	1.7	1.8	0.78
58-89-9	gamma BHC	U	1.8	1.0	1.7	1.8	0.76
319-85-7	beta-BHC	U	1.8	1.0	1.7	1.8	0.75
319-86-8	delta-BHC	U	1.8	1.0	1.7	1.8	1.0
76-44-8	Heptachlor	U	1.8	1.0	1.7	1.8	0.63
309-00-2	Aldrin	U	1.8	1.0	1.7	1.8	1.1
1024-57-3	Heptachlor Epoxide	U	1.8	1.0	1.7	1.8	0.81
5103-74-2	gamma-Chlordane		2.9	1.0	1.7	1.8	0.92
5103-71-9	alpha-Chlordane		4.4	1.0	1.7	1.8	1.3
72-55-9	4,4'-DDE	U	1.8	1.0	1.7	1.8	1.5
50-29-3	4,4'-DDT	U	1.8	1.0	1.7	1.8	0.95
60-57-1	Dieldrin	J	1.7	1.0	1.7	1.8	1.1
8001-35-2	Toxaphene	U	1.8	1.0	1.7	1.8	1.7
72-20-8	Endrin	U	1.8	1.0	1.7	1.8	0.73
72-54-8	4,4'-DDD	U	1.8	1.0	1.7	1.8	1.1
33213-65-9	Endosulfan II	U	1.8	1.0	1.7	1.8	0.94
7421-36-3	Endrin Aldehyde	U	1.8	1.0	1.7	1.8	0.83
72-43-5	Methoxychlor	U	1.8	1.0	1.7	1.8	0.84
1031-07-8	Endosulfan sulfate	U	1.8	1.0	1.7	1.8	0.80
53494-70-5	Endrin Ketone	U	1.8	1.0	1.7	1.8	1.00
877-09-8	Tetrachloro-m-Xylene		71%				
2051-24-3	Decachlorobiphenyl		59%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO91 NS MAYPORT
PO No:
Sample Date: 01/05/04
Received Date: 01/09/04
Extraction Date: 01/09/04
Analysis Date: 01/16/04
Report Date: 01/16/2004
Matrix: SOIL
% Solids: 92.7

Lab ID: WU0050-4
Client ID: MPT-45-A4-2'
SDG: WU0050
Extracted by: AZ
Extraction Method: SW846 3545
Analyst: LAD
Analysis Method: SW846 8081A
Lab Prep Batch: WG5360
Units: ug/Kg

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
959-98-8	Endosulfan I	U	1.8	1.0	1.7	1.8	0.91
319-84-6	alpha-BHC	U	1.8	1.0	1.7	1.8	0.80
58-89-9	gamma BHC	U	1.8	1.0	1.7	1.8	0.79
319-85-7	beta-BHC	U	1.8	1.0	1.7	1.8	0.78
319-86-8	delta-BHC	U	1.8	1.0	1.7	1.8	1.0
76-44-8	Heptachlor	U	1.8	1.0	1.7	1.8	0.65
309-00-2	Aldrin	U	1.8	1.0	1.7	1.8	1.1
1024-57-3	Heptachlor Epoxide	U	1.8	1.0	1.7	1.8	0.83
5103-74-2	gamma-Chlordane	J	1.7	1.0	1.7	1.8	0.95
5103-71-9	alpha-Chlordane	U	1.8	1.0	1.7	1.8	1.3
72-55-9	4,4'-DDE	U	1.8	1.0	1.7	1.8	1.6
50-29-3	4,4'-DDT	U	1.8	1.0	1.7	1.8	0.98
60-57-1	Dieldrin	U	1.8	1.0	1.7	1.8	1.2
8001-35-2	Toxaphene	U	1.8	1.0	1.7	1.8	1.8
72-20-8	Endrin	U	1.8	1.0	1.7	1.8	0.76
72-54-8	4,4'-DDD	U	1.8	1.0	1.7	1.8	1.2
33213-65-9	Endosulfan II	U	1.8	1.0	1.7	1.8	0.97
7421-36-3	Endrin Aldehyde	U	1.8	1.0	1.7	1.8	0.85
72-43-5	Methoxychlor	U	1.8	1.0	1.7	1.8	0.86
1031-07-8	Endosulfan sulfate	U	1.8	1.0	1.7	1.8	0.82
53494-70-5	Endrin Ketone	U	1.8	1.0	1.7	1.8	1.0
877-09-8	Tetrachloro-m-Xylene		64%				
2051-24-3	Decachlorobiphenyl		55%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO91 NS MAYPORT
PO No:
Sample Date: 01/05/04
Received Date: 01/09/04
Extraction Date: 01/09/04
Analysis Date: 01/16/04
Report Date: 01/16/2004
Matrix: SOIL
% Solids: 90.8

Lab ID: WU0050-5
Client ID: MPT-45-B1-2'
SDG: WU0050
Extracted by: AZ
Extraction Method: SW846 3545
Analyst: LAD
Analysis Method: SW846 8081A
Lab Prep Batch: WG5360
Units: ug/Kg

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
959-98-8	Endosulfan I	U	1.9	1.0	1.7	1.9	0.92
319-84-6	alpha-BHC	U	1.9	1.0	1.7	1.9	0.82
58-89-9	gamma BHC	U	1.9	1.0	1.7	1.9	0.80
319-85-7	beta-BHC	U	1.9	1.0	1.7	1.9	0.79
319-86-8	delta-BHC	U	1.9	1.0	1.7	1.9	1.0
76-44-8	Heptachlor	U	1.9	1.0	1.7	1.9	0.66
309-00-2	Aldrin	U	1.9	1.0	1.7	1.9	1.2
1024-57-3	Heptachlor Epoxide	U	1.9	1.0	1.7	1.9	0.85
5103-74-2	gamma-Chlordane	U	1.9	1.0	1.7	1.9	0.97
5103-71-9	alpha-Chlordane	U	1.9	1.0	1.7	1.9	1.4
72-55-9	4,4'-DDE	U	1.9	1.0	1.7	1.9	1.6
50-29-3	4,4'-DDT	U	1.9	1.0	1.7	1.9	1.0
60-57-1	Dieldrin	U	1.9	1.0	1.7	1.9	1.2
8001-35-2	Toxaphene	U	1.9	1.0	1.7	1.9	1.8
72-20-8	Endrin	U	1.9	1.0	1.7	1.9	0.77
72-54-8	4,4'-DDD	U	1.9	1.0	1.7	1.9	1.2
33213-65-9	Endosulfan II	U	1.9	1.0	1.7	1.9	0.99
7421-36-3	Endrin Aldehyde	U	1.9	1.0	1.7	1.9	0.87
72-43-5	Methoxychlor	U	1.9	1.0	1.7	1.9	0.88
1031-07-8	Endosulfan sulfate	U	1.9	1.0	1.7	1.9	0.84
53494-70-5	Endrin Ketone	U	1.9	1.0	1.7	1.9	1.0
877-09-8	Tetrachloro-m-Xylene		62%				
2051-24-3	Decachlorobiphenyl		48%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO91 NS MAYPORT
PO No:
Sample Date: 01/05/04
Received Date: 01/09/04
Extraction Date: 01/09/04
Analysis Date: 01/16/04
Report Date: 01/16/2004
Matrix: SOIL
% Solids: 95.8

Lab ID: WU0050-6
Client ID: MPT-45-B2-2'
SDG: WU0050
Extracted by: AZ
Extraction Method: SW846 3545
Analyst: LAD
Analysis Method: SW846 8081A
Lab Prep Batch: WG5360
Units: ug/Kg

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
959-98-8	Endosulfan I	U	1.8	1.0	1.7	1.8	0.88
319-84-6	alpha-BHC	U	1.8	1.0	1.7	1.8	0.77
58-89-9	gamma BHC	U	1.8	1.0	1.7	1.8	0.76
319-85-7	beta-BHC	U	1.8	1.0	1.7	1.8	0.75
319-86-8	delta-BHC	U	1.8	1.0	1.7	1.8	1.0
76-44-8	Heptachlor	U	1.8	1.0	1.7	1.8	0.63
309-00-2	Aldrin	U	1.8	1.0	1.7	1.8	1.1
1024-57-3	Heptachlor Epoxide	U	1.8	1.0	1.7	1.8	0.80
5103-74-2	gamma-Chlordane	J	1.1	1.0	1.7	1.8	0.92
5103-71-9	alpha-Chlordane	U	1.8	1.0	1.7	1.8	1.3
72-55-9	4,4'-DDE	U	1.8	1.0	1.7	1.8	1.5
50-29-3	4,4'-DDT	U	1.8	1.0	1.7	1.8	0.95
60-57-1	Dieldrin	U	1.8	1.0	1.7	1.8	1.1
8001-35-2	Toxaphene	U	1.8	1.0	1.7	1.8	1.7
72-20-8	Endrin	U	1.8	1.0	1.7	1.8	0.73
72-54-8	4,4'-DDD	U	1.8	1.0	1.7	1.8	1.1
33213-65-9	Endosulfan II	U	1.8	1.0	1.7	1.8	0.94
7421-36-3	Endrin Aldehyde	U	1.8	1.0	1.7	1.8	0.82
72-43-5	Methoxychlor	U	1.8	1.0	1.7	1.8	0.84
1031-07-8	Endosulfan sulfate	U	1.8	1.0	1.7	1.8	0.79
53494-70-5	Endrin Ketone	U	1.8	1.0	1.7	1.8	0.99
877-09-8	Tetrachloro-m-Xylene		71%				
2051-24-3	Decachlorobiphenyl		52%				

Sample Data Summary A0000095

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO91 NS MAYPORT
PO No:
Sample Date: 01/05/04
Received Date: 01/09/04
Extraction Date: 01/09/04
Analysis Date: 01/16/04
Report Date: 01/16/2004
Matrix: SOIL
% Solids: 91.4

Lab ID: WU0050-7
Client ID: MPT-45-B3-2'
SDG: WU0050
Extracted by: AZ
Extraction Method: SW846 3545
Analyst: LAD
Analysis Method: SW846 8081A
Lab Prep Batch: WG5360
Units: ug/Kg

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
959-98-8	Endosulfan I	U	1.9	1.0	1.7	1.9	0.92
319-84-6	alpha-BHC	U	1.9	1.0	1.7	1.9	0.81
58-89-9	gamma BHC	U	1.9	1.0	1.7	1.9	0.80
319-85-7	beta-BHC	U	1.9	1.0	1.7	1.9	0.79
319-86-8	delta-BHC	J	1.1	1.0	1.7	1.9	1.0
76-44-8	Heptachlor	U	1.9	1.0	1.7	1.9	0.66
309-00-2	Aldrin	U	1.9	1.0	1.7	1.9	1.2
1024-57-3	Heptachlor Epoxide	U	1.9	1.0	1.7	1.9	0.84
5103-74-2	gamma-Chlordane	J	1.6	1.0	1.7	1.9	0.96
5103-71-9	alpha-Chlordane	U	1.9	1.0	1.7	1.9	1.3
72-55-9	4,4'-DDE	U	1.9	1.0	1.7	1.9	1.6
50-29-3	4,4'-DDT	U	1.9	1.0	1.7	1.9	1.00
60-57-1	Dieldrin	J	1.4	1.0	1.7	1.9	1.2
8001-35-2	Toxaphene	U	1.9	1.0	1.7	1.9	1.8
72-20-8	Endrin	U	1.9	1.0	1.7	1.9	0.77
72-54-8	4,4'-DDD	U	1.9	1.0	1.7	1.9	1.2
33213-65-9	Endosulfan II	U	1.9	1.0	1.7	1.9	0.98
7421-36-3	Endrin Aldehyde	U	1.9	1.0	1.7	1.9	0.86
72-43-5	Methoxychlor	U	1.9	1.0	1.7	1.9	0.88
1031-07-8	Endosulfan sulfate	U	1.9	1.0	1.7	1.9	0.83
53494-70-5	Endrin Ketone	U	1.9	1.0	1.7	1.9	1.0
877-09-8	Tetrachloro-m-Xylene		77%				
2051-24-3	Decachlorobiphenyl		59%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO91 NS MAYPORT
PO No:
Sample Date: 01/05/04
Received Date: 01/09/04
Extraction Date: 01/09/04
Analysis Date: 01/16/04
Report Date: 01/16/2004
Matrix: SOIL
% Solids: 95.8

Lab ID: WU0050-8
Client ID: MPT-45-B4-2'
SDG: WU0050
Extracted by: AZ
Extraction Method: SW846 3545
Analyst: LAD
Analysis Method: SW846 8081A
Lab Prep Batch: WG5360
Units: ug/Kg

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
959-98-8	Endosulfan I	U	1.8	1.0	1.7	1.8	0.88
319-84-6	alpha-BHC	U	1.8	1.0	1.7	1.8	0.77
58-89-9	gamma BHC	U	1.8	1.0	1.7	1.8	0.76
319-85-7	beta-BHC	U	1.8	1.0	1.7	1.8	0.75
319-86-8	delta-BHC	U	1.8	1.0	1.7	1.8	1.0
76-44-8	Heptachlor	U	1.8	1.0	1.7	1.8	0.63
309-00-2	Aldrin	U	1.8	1.0	1.7	1.8	1.1
1024-57-3	Heptachlor Epoxide	U	1.8	1.0	1.7	1.8	0.80
5103-74-2	gamma-Chlordane		3.0	1.0	1.7	1.8	0.92
5103-71-9	alpha-Chlordane		4.2	1.0	1.7	1.8	1.3
72-55-9	4,4'-DDE	U	1.8	1.0	1.7	1.8	1.5
50-29-3	4,4'-DDT	U	1.8	1.0	1.7	1.8	0.95
60-57-1	Dieldrin		2.0	1.0	1.7	1.8	1.1
8001-35-2	Toxaphene	U	1.8	1.0	1.7	1.8	1.7
72-20-8	Endrin	U	1.8	1.0	1.7	1.8	0.73
72-54-8	4,4'-DDD	U	1.8	1.0	1.7	1.8	1.1
33213-65-9	Endosulfan II	U	1.8	1.0	1.7	1.8	0.94
7421-36-3	Endrin Aldehyde	U	1.8	1.0	1.7	1.8	0.82
72-43-5	Methoxychlor	U	1.8	1.0	1.7	1.8	0.83
1031-07-8	Endosulfan sulfate	U	1.8	1.0	1.7	1.8	0.79
53494-70-5	Endrin Ketone	U	1.8	1.0	1.7	1.8	0.99
877-09-8	Tetrachloro-m-Xylene		83%				
2051-24-3	Decachlorobiphenyl		65%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO91 NS MAYPORT
PO No:
Sample Date: 01/05/04
Received Date: 01/09/04
Extraction Date: 01/09/04
Analysis Date: 01/16/04
Report Date: 01/16/2004
Matrix: SOIL
% Solids: 96.8

Lab ID: WU0050-9
Client ID: MPT-45-C1-2'
SDG: WU0050
Extracted by: AZ
Extraction Method: SW846 3545
Analyst: LAD
Analysis Method: SW846 8081A
Lab Prep Batch: WG5360
Units: ug/Kg

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
959-98-8	Endosulfan I	U	1.8	1.0	1.7	1.8	0.87
319-84-6	alpha-BHC	U	1.8	1.0	1.7	1.8	0.76
58-89-9	gamma BHC	U	1.8	1.0	1.7	1.8	0.75
319-85-7	beta-BHC	U	1.8	1.0	1.7	1.8	0.74
319-86-8	delta-BHC	U	1.8	1.0	1.7	1.8	0.99
76-44-8	Heptachlor	U	1.8	1.0	1.7	1.8	0.62
309-00-2	Aldrin	U	1.8	1.0	1.7	1.8	1.1
1024-57-3	Heptachlor Epoxide	U	1.8	1.0	1.7	1.8	0.80
5103-74-2	gamma-Chlordane	U	1.8	1.0	1.7	1.8	0.91
5103-71-9	alpha-Chlordane	U	1.8	1.0	1.7	1.8	1.3
72-55-9	4,4'-DDE	U	1.8	1.0	1.7	1.8	1.5
50-29-3	4,4'-DDT	U	1.8	1.0	1.7	1.8	0.94
60-57-1	Dieldrin	U	1.8	1.0	1.7	1.8	1.1
8001-35-2	Toxaphene	U	1.8	1.0	1.7	1.8	1.7
72-20-8	Endrin	U	1.8	1.0	1.7	1.8	0.72
72-54-8	4,4'-DDD	U	1.8	1.0	1.7	1.8	1.1
33213-65-9	Endosulfan II	U	1.8	1.0	1.7	1.8	0.93
7421-36-3	Endrin Aldehyde	U	1.8	1.0	1.7	1.8	0.82
72-43-5	Methoxychlor	U	1.8	1.0	1.7	1.8	0.83
1031-07-8	Endosulfan sulfate	U	1.8	1.0	1.7	1.8	0.78
53494-70-5	Endrin Ketone	U	1.8	1.0	1.7	1.8	0.98
877-09-8	Tetrachloro-m-Xylene		72%				
2051-24-3	Decachlorobiphenyl		62%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO91 NS MAYPORT
PO No:
Sample Date: 01/05/04
Received Date: 01/09/04
Extraction Date: 01/09/04
Analysis Date: 01/16/04
Report Date: 01/16/2004
Matrix: SOIL
% Solids: 95.8

Lab ID: WU0050-10
Client ID: MPT-45-C2-2'
SDG: WU0050
Extracted by: AZ
Extraction Method: SW846 3545
Analyst: LAD
Analysis Method: SW846 8081A
Lab Prep Batch: WG5360
Units: ug/Kg

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
959-98-8	Endosulfan I	U	1.8	1.0	1.7	1.8	0.88
319-84-6	alpha-BHC	U	1.8	1.0	1.7	1.8	0.77
58-89-9	gamma BHC	U	1.8	1.0	1.7	1.8	0.76
319-85-7	beta-BHC	U	1.8	1.0	1.7	1.8	0.75
319-86-8	delta-BHC	U	1.8	1.0	1.7	1.8	1.0
76-44-8	Heptachlor	U	1.8	1.0	1.7	1.8	0.63
309-00-2	Aldrin	U	1.8	1.0	1.7	1.8	1.1
1024-57-3	Heptachlor Epoxide	U	1.8	1.0	1.7	1.8	0.80
5103-74-2	gamma-Chlordane	U	1.8	1.0	1.7	1.8	0.92
5103-71-9	alpha-Chlordane	U	1.8	1.0	1.7	1.8	1.3
72-55-9	4,4'-DDE	U	1.8	1.0	1.7	1.8	1.5
50-29-3	4,4'-DDT		2.5	1.0	1.7	1.8	0.95
60-57-1	Dieldrin	U	1.8	1.0	1.7	1.8	1.1
8001-35-2	Toxaphene	U	1.8	1.0	1.7	1.8	1.7
72-20-8	Endrin	U	1.8	1.0	1.7	1.8	0.73
72-54-8	4,4'-DDD	U	1.8	1.0	1.7	1.8	1.1
33213-65-9	Endosulfan II	U	1.8	1.0	1.7	1.8	0.94
7421-36-3	Endrin Aldehyde	U	1.8	1.0	1.7	1.8	0.82
72-43-5	Methoxychlor	U	1.8	1.0	1.7	1.8	0.84
1031-07-8	Endosulfan sulfate	U	1.8	1.0	1.7	1.8	0.79
53494-70-5	Endrin Ketone	U	1.8	1.0	1.7	1.8	0.99
877-09-8	Tetrachloro-m-Xylene		81%				
2051-24-3	Decachlorobiphenyl		66%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO91 NS MAYPORT
PO No:
Sample Date: 01/05/04
Received Date: 01/09/04
Extraction Date: 01/09/04
Analysis Date: 01/16/04
Report Date: 01/19/2004
Matrix: SOIL
% Solids: 94.9

Lab ID: WU0050-11
Client ID: MPT-45-C3-2'
SDG: WU0050
Extracted by: AZ
Extraction Method: SW846 3545
Analyst: LAD
Analysis Method: SW846 8081A
Lab Prep Batch: WG5360
Units: ug/Kg

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
959-98-8	Endosulfan I	U	3.6	1.0	1.7	3.6	1.8
319-84-6	alpha-BHC	U	3.6	1.0	1.7	3.6	1.6
58-89-9	gamma BHC	U	3.6	1.0	1.7	3.6	1.5
319-85-7	beta-BHC	U	3.6	1.0	1.7	3.6	1.5
319-86-8	delta-BHC	U	3.6	1.0	1.7	3.6	2.0
76-44-8	Heptachlor	U	3.6	1.0	1.7	3.6	1.3
309-00-2	Aldrin	U	3.6	1.0	1.7	3.6	2.2
1024-57-3	Heptachlor Epoxide	U	3.6	1.0	1.7	3.6	1.6
5103-74-2	gamma-Chlordane	U	3.6	1.0	1.7	3.6	1.8
5103-71-9	alpha-Chlordane	U	3.6	1.0	1.7	3.6	2.6
72-55-9	4,4'-DDE	U	3.6	1.0	1.7	3.6	3.0
50-29-3	4,4'-DDT	U	3.6	1.0	1.7	3.6	1.9
60-57-1	Dieldrin	U	3.6	1.0	1.7	3.6	2.2
8001-35-2	Toxaphene	U	3.6	1.0	1.7	3.6	3.5
72-20-8	Endrin	U	3.6	1.0	1.7	3.6	1.5
72-54-8	4,4'-DDD	U	3.6	1.0	1.7	3.6	2.3
33213-65-9	Endosulfan II	U	3.6	1.0	1.7	3.6	1.9
7421-36-3	Endrin Aldehyde	U	3.6	1.0	1.7	3.6	1.7
72-43-5	Methoxychlor	U	3.6	1.0	1.7	3.6	1.7
1031-07-8	Endosulfan sulfate	U	3.6	1.0	1.7	3.6	1.6
53494-70-5	Endrin Ketone	U	3.6	1.0	1.7	3.6	2.0
877-09-8	Tetrachloro-m-Xylene		85%				
2051-24-3	Decachlorobiphenyl		67%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CT091 NS MAYPORT
PO No:
Sample Date: 01/05/04
Received Date: 01/09/04
Extraction Date: 01/09/04
Analysis Date: 01/16/04
Report Date: 01/16/2004
Matrix: SOIL
% Solids: 96.1

Lab ID: WU0050-12
Client ID: MPT-45-C4-2'
SDG: WU0050
Extracted by: AZ
Extraction Method: SW846 3545
Analyst: LAD
Analysis Method: SW846 8081A
Lab Prep Batch: WG5360
Units: ug/Kg

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
959-98-8	Endosulfan I	U	1.8	1.0	1.7	1.8	0.87
319-84-6	alpha-BHC	U	1.8	1.0	1.7	1.8	0.77
58-89-9	gamma BHC	U	1.8	1.0	1.7	1.8	0.76
319-85-7	beta-BHC	U	1.8	1.0	1.7	1.8	0.75
319-86-8	delta-BHC	U	1.8	1.0	1.7	1.8	1.00
76-44-8	Heptachlor	U	1.8	1.0	1.7	1.8	0.62
309-00-2	Aldrin	U	1.8	1.0	1.7	1.8	1.1
1024-57-3	Heptachlor Epoxide	U	1.8	1.0	1.7	1.8	0.80
5103-74-2	gamma-Chlordane	U	1.8	1.0	1.7	1.8	0.92
5103-71-9	alpha-Chlordane	U	1.8	1.0	1.7	1.8	1.3
72-55-9	4,4'-DDE		3.6	1.0	1.7	1.8	1.5
50-29-3	4,4'-DDT		2.4	1.0	1.7	1.8	0.95
60-57-1	Dieldrin	U	1.8	1.0	1.7	1.8	1.1
8001-35-2	Toxaphene	U	1.8	1.0	1.7	1.8	1.7
72-20-8	Endrin	U	1.8	1.0	1.7	1.8	0.73
72-54-8	4,4'-DDD	U	1.8	1.0	1.7	1.8	1.1
33213-65-9	Endosulfan II	U	1.8	1.0	1.7	1.8	0.94
7421-36-3	Endrin Aldehyde	U	1.8	1.0	1.7	1.8	0.82
72-43-5	Methoxychlor	U	1.8	1.0	1.7	1.8	0.83
1031-07-8	Endosulfan sulfate	U	1.8	1.0	1.7	1.8	0.79
53494-70-5	Endrin Ketone	U	1.8	1.0	1.7	1.8	0.99
877-09-8	Tetrachloro-m-Xylene		72%				
2051-24-3	Decachlorobiphenyl		63%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO91 NS MAYPORT
PO No:
Sample Date: 01/05/04
Received Date: 01/09/04
Extraction Date: 01/09/04
Analysis Date: 01/16/04
Report Date: 01/16/2004
Matrix: SOIL
% Solids: 93.2

Lab ID: WU0050-13
Client ID: MPT-45-D3-2'
SDG: WU0050
Extracted by: AZ
Extraction Method: SW846 3545
Analyst: LAD
Analysis Method: SW846 8081A
Lab Prep Batch: WG5360
Units: ug/Kg

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
959-98-8	Endosulfan I	U	1.8	1.0	1.7	1.8	0.90
319-84-6	alpha-BHC	U	1.8	1.0	1.7	1.8	0.79
58-89-9	gamma BHC	J	1.2	1.0	1.7	1.8	0.78
319-85-7	beta-BHC	U	1.8	1.0	1.7	1.8	0.77
319-86-8	delta-BHC	U	1.8	1.0	1.7	1.8	1.0
76-44-8	Heptachlor	U	1.8	1.0	1.7	1.8	0.64
309-00-2	Aldrin	U	1.8	1.0	1.7	1.8	1.1
1024-57-3	Heptachlor Epoxide	U	1.8	1.0	1.7	1.8	0.82
5103-74-2	gamma-Chlordane	U	1.8	1.0	1.7	1.8	0.94
5103-71-9	alpha-Chlordane	U	1.8	1.0	1.7	1.8	1.3
72-55-9	4,4'-DDE	U	1.8	1.0	1.7	1.8	1.5
50-29-3	4,4'-DDT		3.6	1.0	1.7	1.8	0.98
60-57-1	Dieldrin	U	1.8	1.0	1.7	1.8	1.1
8001-35-2	Toxaphene	U	1.8	1.0	1.7	1.8	1.8
72-20-8	Endrin	U	1.8	1.0	1.7	1.8	0.75
72-54-8	4,4'-DDD	U	1.8	1.0	1.7	1.8	1.2
33213-65-9	Endosulfan II	U	1.8	1.0	1.7	1.8	0.96
7421-36-3	Endrin Aldehyde	U	1.8	1.0	1.7	1.8	0.85
72-43-5	Methoxychlor	U	1.8	1.0	1.7	1.8	0.86
1031-07-8	Endosulfan sulfate		4.8	1.0	1.7	1.8	0.81
53494-70-5	Endrin Ketone	U	1.8	1.0	1.7	1.8	1.0
877-09-8	Tetrachloro-m-Xylene		73%				
2051-24-3	Decachlorobiphenyl		76%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO91 NS MAYPORT
PO No:
Sample Date: 01/05/04
Received Date: 01/09/04
Extraction Date: 01/09/04
Analysis Date: 01/16/04
Report Date: 01/16/2004
Matrix: SOIL
% Solids: 86.8

Lab ID: WU0050-14
Client ID: MPT-45-D4-2'
SDG: WU0050
Extracted by: AZ
Extraction Method: SW846 3545
Analyst: LAD
Analysis Method: SW846 8081A
Lab Prep Batch: WG5360
Units: ug/Kg

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
959-98-8	Endosulfan I	U	2.0	1.0	1.7	2.0	0.97
319-84-6	alpha-BHC	U	2.0	1.0	1.7	2.0	0.85
58-89-9	gamma BHC	U	2.0	1.0	1.7	2.0	0.84
319-85-7	beta-BHC	U	2.0	1.0	1.7	2.0	0.83
319-86-8	delta-BHC	U	2.0	1.0	1.7	2.0	1.1
76-44-8	Heptachlor	U	2.0	1.0	1.7	2.0	0.69
309-00-2	Aldrin	U	2.0	1.0	1.7	2.0	1.2
1024-57-3	Heptachlor Epoxide	U	2.0	1.0	1.7	2.0	0.89
5103-74-2	gamma-Chlordane	U	2.0	1.0	1.7	2.0	1.0
5103-71-9	alpha-Chlordane	U	2.0	1.0	1.7	2.0	1.4
72-55-9	4,4'-DDE	U	2.0	1.0	1.7	2.0	1.6
50-29-3	4,4'-DDT	U	2.0	1.0	1.7	2.0	1.0
60-57-1	Dieldrin	U	2.0	1.0	1.7	2.0	1.2
8001-35-2	Toxaphene	U	2.0	1.0	1.7	2.0	1.9
72-20-8	Endrin	U	2.0	1.0	1.7	2.0	0.81
72-54-8	4,4'-DDD	U	2.0	1.0	1.7	2.0	1.2
33213-65-9	Endosulfan II	U	2.0	1.0	1.7	2.0	1.0
7421-36-3	Endrin Aldehyde	U	2.0	1.0	1.7	2.0	0.91
72-43-5	Methoxychlor	U	2.0	1.0	1.7	2.0	0.92
1031-07-8	Endosulfan sulfate	U	2.0	1.0	1.7	2.0	0.88
53494-70-5	Endrin Ketone	U	2.0	1.0	1.7	2.0	1.1
877-09-8	Tetrachloro-m-Xylene		70%				
2051-24-3	Decachlorobiphenyl		* 37%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO91 NS MAYPORT
PO No:
Sample Date: 01/05/04
Received Date: 01/09/04
Extraction Date: 01/09/04
Analysis Date: 01/16/04
Report Date: 01/16/2004
Matrix: SOIL
% Solids: 87.4

Lab ID: WU0050-15
Client ID: MPT-45-E4-2'
SDG: WU0050
Extracted by: AZ
Extraction Method: SW846 3545
Analyst: LAD
Analysis Method: SW846 8081A
Lab Prep Batch: WG5360
Units: ug/Kg

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
959-98-8	Endosulfan I	U	1.9	1.0	1.7	1.9	0.96
319-84-6	alpha-BHC	U	1.9	1.0	1.7	1.9	0.85
58-89-9	gamma BHC	U	1.9	1.0	1.7	1.9	0.83
319-85-7	beta-BHC	U	1.9	1.0	1.7	1.9	0.82
319-86-8	delta-BHC	U	1.9	1.0	1.7	1.9	1.1
76-44-8	Heptachlor	U	1.9	1.0	1.7	1.9	0.69
309-00-2	Aldrin	U	1.9	1.0	1.7	1.9	1.2
1024-57-3	Heptachlor Epoxide	U	1.9	1.0	1.7	1.9	0.88
5103-74-2	gamma-Chlordane	U	1.9	1.0	1.7	1.9	1.0
5103-71-9	alpha-Chlordane	U	1.9	1.0	1.7	1.9	1.4
72-55-9	4,4'-DDE	U	1.9	1.0	1.7	1.9	1.6
50-29-3	4,4'-DDT	U	1.9	1.0	1.7	1.9	1.0
60-57-1	Dieldrin	U	1.9	1.0	1.7	1.9	1.2
8001-35-2	Toxaphene	U	1.9	1.0	1.7	1.9	1.9
72-20-8	Endrin	U	1.9	1.0	1.7	1.9	0.80
72-54-8	4,4'-DDD	U	1.9	1.0	1.7	1.9	1.2
33213-65-9	Endosulfan II	U	1.9	1.0	1.7	1.9	1.0
7421-36-3	Endrin Aldehyde	U	1.9	1.0	1.7	1.9	0.90
72-43-5	Methoxychlor	U	1.9	1.0	1.7	1.9	0.91
1031-07-8	Endosulfan sulfate	U	1.9	1.0	1.7	1.9	0.87
53494-70-5	Endrin Ketone	U	1.9	1.0	1.7	1.9	1.1
877-09-8	Tetrachloro-m-Xylene		68%				
2051-24-3	Decachlorobiphenyl		60%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CT091 NS MAYPORT
PO No:
Sample Date: 01/05/04
Received Date: 01/09/04
Extraction Date: 01/09/04
Analysis Date: 01/16/04
Report Date: 01/16/2004
Matrix: SOIL
% Solids: 94.0

Lab ID: WU0050-16
Client ID: MPT-45-E4-5'
SDG: WU0050
Extracted by: AZ
Extraction Method: SW846 3545
Analyst: LAD
Analysis Method: SW846 8081A
Lab Prep Batch: WG5360
Units: ug/Kg

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
959-98-8	Endosulfan I	U	1.8	1.0	1.7	1.8	0.89
319-84-6	alpha-BHC	U	1.8	1.0	1.7	1.8	0.79
58-89-9	gamma BHC	U	1.8	1.0	1.7	1.8	0.78
319-85-7	beta-BHC	U	1.8	1.0	1.7	1.8	0.76
319-86-8	delta-BHC	U	1.8	1.0	1.7	1.8	1.0
76-44-8	Heptachlor	U	1.8	1.0	1.7	1.8	0.64
309-00-2	Aldrin	U	1.8	1.0	1.7	1.8	1.1
1024-57-3	Heptachlor Epoxide	U	1.8	1.0	1.7	1.8	0.82
5103-74-2	gamma-Chlordane	U	1.8	1.0	1.7	1.8	0.94
5103-71-9	alpha-Chlordane	U	1.8	1.0	1.7	1.8	1.3
72-55-9	4,4'-DDE	U	1.8	1.0	1.7	1.8	1.5
50-29-3	4,4'-DDT	U	1.8	1.0	1.7	1.8	0.97
60-57-1	Dieldrin	U	1.8	1.0	1.7	1.8	1.1
8001-35-2	Toxaphene	U	1.8	1.0	1.7	1.8	1.8
72-20-8	Endrin	U	1.8	1.0	1.7	1.8	0.74
72-54-8	4,4'-DDD	U	1.8	1.0	1.7	1.8	1.1
33213-65-9	Endosulfan II	U	1.8	1.0	1.7	1.8	0.96
7421-36-3	Endrin Aldehyde	U	1.8	1.0	1.7	1.8	0.84
72-43-5	Methoxychlor	U	1.8	1.0	1.7	1.8	0.85
1031-07-8	Endosulfan sulfate	U	1.8	1.0	1.7	1.8	0.81
53494-70-5	Endrin Ketone	U	1.8	1.0	1.7	1.8	1.0
877-09-8	Tetrachloro-m-Xylene		76%				
2051-24-3	Decachlorobiphenyl		61%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO91 NS MAYPORT
PO No:
Sample Date: 01/05/04
Received Date: 01/09/04
Extraction Date: 01/09/04
Analysis Date: 01/15/04
Report Date: 01/16/2004
Matrix: SOIL
% Solids: 91.2

Lab ID: WU0050-1
Client ID: MPT-45-A1-2'
SDG: WU0050
Extracted by: AZ
Extraction Method: SW846 3545
Analyst: LAD
Analysis Method: SW846 8082
Lab Prep Batch: WG5361
Units: ug/Kg

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
12674-11-2	Aroclor-1016	U	19	1.0	17	19	12
11104-28-2	Aroclor-1221	U	19	1.0	17	19	9.0
11141-16-5	Aroclor-1232	U	19	1.0	17	19	5.8
53469-21-9	Aroclor-1242	U	19	1.0	17	19	7.4
12672-29-6	Aroclor-1248	U	19	1.0	17	19	9.0
11097-69-1	Aroclor-1254	U	19	1.0	17	19	5.2
11096-82-5	Aroclor-1260		170	1.0	17	19	9.4
877-09-8	Tetrachloro-m-xylene		87%				
2051-24-3	Decachlorobiphenyl		76%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO91 NS MAYPORT
PO No:
Sample Date: 01/05/04
Received Date: 01/09/04
Extraction Date: 01/09/04
Analysis Date: 01/15/04
Report Date: 01/16/2004
Matrix: SOIL
% Solids: 93.0

Lab ID: WU0050-2
Client ID: MPT-45-A2-2'
SDG: WU0050
Extracted by: AZ
Extraction Method: SW846 3545
Analyst: LAD
Analysis Method: SW846 8082
Lab Prep Batch: WG5361
Units: ug/Kg

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
12674-11-2	Aroclor-1016	U	18	1.0	17	18	11
11104-28-2	Aroclor-1221	U	18	1.0	17	18	8.8
11141-16-5	Aroclor-1232	U	18	1.0	17	18	5.7
53469-21-9	Aroclor-1242	U	18	1.0	17	18	7.2
12672-29-6	Aroclor-1248	U	18	1.0	17	18	8.9
11097-69-1	Aroclor-1254	U	18	1.0	17	18	5.0
11096-82-5	Aroclor-1260		39	1.0	17	18	9.2
877-09-8	Tetrachloro-m-xylene		92%				
2051-24-3	Decachlorobiphenyl		78%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO91 NS MAYPORT
PO No:
Sample Date: 01/05/04
Received Date: 01/09/04
Extraction Date: 01/09/04
Analysis Date: 01/15/04
Report Date: 01/16/2004
Matrix: SOIL
% Solids: 95.4

Lab ID: WU0050-3
Client ID: MPT-45-A3-2'
SDG: WU0050
Extracted by: AZ
Extraction Method: SW846 3545
Analyst: LAD
Analysis Method: SW846 8082
Lab Prep Batch: WG5361
Units: ug/Kg

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
12674-11-2	Aroclor-1016	U	18	1.0	17	18	11
11104-28-2	Aroclor-1221	U	18	1.0	17	18	8.6
11141-16-5	Aroclor-1232	U	18	1.0	17	18	5.5
53469-21-9	Aroclor-1242	U	18	1.0	17	18	7.0
12672-29-6	Aroclor-1248	U	18	1.0	17	18	8.6
11097-69-1	Aroclor-1254	U	18	1.0	17	18	4.9
11096-82-5	Aroclor-1260		38	1.0	17	18	9.0
877-09-8	Tetrachloro-m-xylene		87%				
2051-24-3	Decachlorobiphenyl		77%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO91 NS MAYPORT
PO No:
Sample Date: 01/05/04
Received Date: 01/09/04
Extraction Date: 01/09/04
Analysis Date: 01/15/04
Report Date: 01/16/2004
Matrix: SOIL
% Solids: 92.7

Lab ID: WU0050-4
Client ID: MPT-45-A4-2'
SDG: WU0050
Extracted by: AZ
Extraction Method: SW846 3545
Analyst: LAD
Analysis Method: SW846 8082
Lab Prep Batch: WG5361
Units: ug/Kg

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
12674-11-2	Aroclor-1016	U	18	1.0	17	18	11
11104-28-2	Aroclor-1221	U	18	1.0	17	18	8.8
11141-16-5	Aroclor-1232	U	18	1.0	17	18	5.7
53469-21-9	Aroclor-1242	U	18	1.0	17	18	7.3
12672-29-6	Aroclor-1248	U	18	1.0	17	18	8.9
11097-69-1	Aroclor-1254	U	18	1.0	17	18	5.1
11096-82-5	Aroclor-1260		18	1.0	17	18	9.2
877-09-8	Tetrachloro-m-xylene		79%				
2051-24-3	Decachlorobiphenyl		72%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO91 NS MAYPORT
PO No:
Sample Date: 01/05/04
Received Date: 01/09/04
Extraction Date: 01/09/04
Analysis Date: 01/15/04
Report Date: 01/16/2004
Matrix: SOIL
% Solids: 90.8

Lab ID: WU0050-5
Client ID: MPT-45-B1-2'
SDG: WU0050
Extracted by: AZ
Extraction Method: SW846 3545
Analyst: LAD
Analysis Method: SW846 8082
Lab Prep Batch: WG5361
Units: ug/Kg

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
12674-11-2	Aroclor-1016	U	19	1.0	17	19	12
11104-28-2	Aroclor-1221	U	19	1.0	17	19	9.0
11141-16-5	Aroclor-1232	U	19	1.0	17	19	5.8
53469-21-9	Aroclor-1242	U	19	1.0	17	19	7.4
12672-29-6	Aroclor-1248	U	19	1.0	17	19	9.1
11097-69-1	Aroclor-1254	U	19	1.0	17	19	5.2
11096-82-5	Aroclor-1260		100	1.0	17	19	9.4
877-09-8	Tetrachloro-m-xylene		77%				
2051-24-3	Decachlorobiphenyl		66%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CT091 NS MAYPORT
PO No:
Sample Date: 01/05/04
Received Date: 01/09/04
Extraction Date: 01/09/04
Analysis Date: 01/15/04
Report Date: 01/16/2004
Matrix: SOIL
% Solids: 95.8

Lab ID: WU0050-6
Client ID: MPT-45-B2-2'
SDG: WU0050
Extracted by: AZ
Extraction Method: SW846 3545
Analyst: LAD
Analysis Method: SW846 8082
Lab Prep Batch: WG5361
Units: ug/Kg

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
12674-11-2	Aroclor-1016	U	18	1.0	17	18	11
11104-28-2	Aroclor-1221	U	18	1.0	17	18	8.5
11141-16-5	Aroclor-1232	U	18	1.0	17	18	5.5
53469-21-9	Aroclor-1242	U	18	1.0	17	18	7.0
12672-29-6	Aroclor-1248	U	18	1.0	17	18	8.6
11097-69-1	Aroclor-1254	U	18	1.0	17	18	4.9
11096-82-5	Aroclor-1260		33	1.0	17	18	9.0
877-09-8	Tetrachloro-m-xylene		85%				
2051-24-3	Decachlorobiphenyl		73%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO91 NS MAYPORT
PO No:
Sample Date: 01/05/04
Received Date: 01/09/04
Extraction Date: 01/09/04
Analysis Date: 01/15/04
Report Date: 01/16/2004
Matrix: SOIL
% Solids: 91.4

Lab ID: WU0050-7
Client ID: MPT-45-B3-2'
SDG: WU0050
Extracted by: AZ
Extraction Method: SW846 3545
Analyst: LAD
Analysis Method: SW846 8082
Lab Prep Batch: WG5361
Units: ug/Kg

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
12674-11-2	Aroclor-1016	U	19	1.0	17	19	12
11104-28-2	Aroclor-1221	U	19	1.0	17	19	9.0
11141-16-5	Aroclor-1232	U	19	1.0	17	19	5.8
53469-21-9	Aroclor-1242	U	19	1.0	17	19	7.4
12672-29-6	Aroclor-1248	U	19	1.0	17	19	9.0
11097-69-1	Aroclor-1254	U	19	1.0	17	19	5.1
11096-82-5	Aroclor-1260		31	1.0	17	19	9.4
877-09-8	Tetrachloro-m-xylene		94%				
2051-24-3	Decachlorobiphenyl		84%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO91 NS MAYPORT
PO No:
Sample Date: 01/05/04
Received Date: 01/09/04
Extraction Date: 01/09/04
Analysis Date: 01/15/04
Report Date: 01/16/2004
Matrix: SOIL
% Solids: 95.8

Lab ID: WU0050-8
Client ID: MPT-45-B4-2'
SDG: WU0050
Extracted by: AZ
Extraction Method: SW846 3545
Analyst: LAD
Analysis Method: SW846 8082
Lab Prep Batch: WG5361
Units: ug/Kg

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
12674-11-2	Aroclor-1016	U	18	1.0	17	18	11
11104-28-2	Aroclor-1221	U	18	1.0	17	18	8.5
11141-16-5	Aroclor-1232	U	18	1.0	17	18	5.5
53469-21-9	Aroclor-1242	U	18	1.0	17	18	7.0
12672-29-6	Aroclor-1248	U	18	1.0	17	18	8.6
11097-69-1	Aroclor-1254	U	18	1.0	17	18	4.9
11096-82-5	Aroclor-1260		42	1.0	17	18	9.0
877-09-8	Tetrachloro-m-xylene		101%				
2051-24-3	Decachlorobiphenyl		89%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO91 NS MAYPORT
PO No:
Sample Date: 01/05/04
Received Date: 01/09/04
Extraction Date: 01/09/04
Analysis Date: 01/15/04
Report Date: 01/16/2004
Matrix: SOIL
% Solids: 96.8

Lab ID: WU0050-9
Client ID: MPT-45-C1-2'
SDG: WU0050
Extracted by: AZ
Extraction Method: SW846 3545
Analyst: LAD
Analysis Method: SW846 8082
Lab Prep Batch: WG5361
Units: ug/Kg

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
12674-11-2	Aroclor-1016	U	18	1.0	17	18	11
11104-28-2	Aroclor-1221	U	18	1.0	17	18	8.5
11141-16-5	Aroclor-1232	U	18	1.0	17	18	5.4
53469-21-9	Aroclor-1242	U	18	1.0	17	18	7.0
12672-29-6	Aroclor-1248	U	18	1.0	17	18	8.5
11097-69-1	Aroclor-1254	U	18	1.0	17	18	4.8
11096-82-5	Aroclor-1260	U	18	1.0	17	18	8.9
877-09-8	Tetrachloro-m-xylene		93%				
2051-24-3	Decachlorobiphenyl		80%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO91 NS MAYPORT
PO No:
Sample Date: 01/05/04
Received Date: 01/09/04
Extraction Date: 01/09/04
Analysis Date: 01/15/04
Report Date: 01/16/2004
Matrix: SOIL
% Solids: 95.8

Lab ID: WU0050-10
Client ID: MPT-45-C2-2'
SDG: WU0050
Extracted by: AZ
Extraction Method: SW846 3545
Analyst: LAD
Analysis Method: SW846 8082
Lab Prep Batch: WG5361
Units: ug/Kg

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
12674-11-2	Aroclor-1016	U	18	1.0	17	18	11
11104-28-2	Aroclor-1221	U	18	1.0	17	18	8.5
11141-16-5	Aroclor-1232	U	18	1.0	17	18	5.5
53469-21-9	Aroclor-1242	U	18	1.0	17	18	7.0
12672-29-6	Aroclor-1248	U	18	1.0	17	18	8.6
11097-69-1	Aroclor-1254	U	18	1.0	17	18	4.9
11096-82-5	Aroclor-1260	J	17	1.0	17	18	9.0
877-09-8	Tetrachloro-m-xylene		101%				
2051-24-3	Decachlorobiphenyl		88%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO91 NS MAYPORT
PO No:
Sample Date: 01/05/04
Received Date: 01/09/04
Extraction Date: 01/09/04
Analysis Date: 01/16/04
Report Date: 01/16/2004
Matrix: SOIL
% Solids: 94.9

Lab ID: WU0050-11
Client ID: MPT-45-C3-2'
SDG: WU0050
Extracted by: AZ
Extraction Method: SW846 3545
Analyst: LAD
Analysis Method: SW846 8082
Lab Prep Batch: WG5361
Units: ug/Kg

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
12674-11-2	Aroclor-1016	U	36	1.0	17	36	22
11104-28-2	Aroclor-1221	U	36	1.0	17	36	17
11141-16-5	Aroclor-1232	U	36	1.0	17	36	11
53469-21-9	Aroclor-1242	U	36	1.0	17	36	14
12672-29-6	Aroclor-1248	U	36	1.0	17	36	17
11097-69-1	Aroclor-1254	U	36	1.0	17	36	9.9
11096-82-5	Aroclor-1260	U	36	1.0	17	36	18
877-09-8	Tetrachloro-m-xylene		*106%				
2051-24-3	Decachlorobiphenyl		90%				

6UA1188.d

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO91 NS MAYPORT
PO No:
Sample Date: 01/05/04
Received Date: 01/09/04
Extraction Date: 01/09/04
Analysis Date: 01/16/04
Report Date: 01/16/2004
Matrix: SOIL
% Solids: 96.1

Lab ID: WU0050-12
Client ID: MPT-45-C4-2'
SDG: WU0050
Extracted by: AZ
Extraction Method: SW846 3545
Analyst: LAD
Analysis Method: SW846 8082
Lab Prep Batch: WG5361
Units: ug/Kg

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
12674-11-2	Aroclor-1016	U	18	1.0	17	18	11
11104-28-2	Aroclor-1221	U	18	1.0	17	18	8.5
11141-16-5	Aroclor-1232	U	18	1.0	17	18	5.5
53469-21-9	Aroclor-1242	U	18	1.0	17	18	7.0
12672-29-6	Aroclor-1248	U	18	1.0	17	18	8.6
11097-69-1	Aroclor-1254	U	18	1.0	17	18	4.9
11096-82-5	Aroclor-1260	U	18	1.0	17	18	8.9
877-09-8	Tetrachloro-m-xylene		91%				
2051-24-3	Decachlorobiphenyl		79%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO91 NS MAYPORT
PO No:
Sample Date: 01/05/04
Received Date: 01/09/04
Extraction Date: 01/09/04
Analysis Date: 01/16/04
Report Date: 01/16/2004
Matrix: SOIL
% Solids: 93.2

Lab ID: WU0050-13
Client ID: MPT-45-D3-2'
SDG: WU0050
Extracted by: AZ
Extraction Method: SW846 3545
Analyst: LAD
Analysis Method: SW846 8082
Lab Prep Batch: WG5361
Units: ug/Kg

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
12674-11-2	Aroclor-1016	U	18	1.0	17	18	11
11104-28-2	Aroclor-1221	U	18	1.0	17	18	8.8
11141-16-5	Aroclor-1232	U	18	1.0	17	18	5.7
53469-21-9	Aroclor-1242	U	18	1.0	17	18	7.2
12672-29-6	Aroclor-1248	U	18	1.0	17	18	8.8
11097-69-1	Aroclor-1254	U	18	1.0	17	18	5.0
11096-82-5	Aroclor-1260		49	1.0	17	18	9.2
877-09-8	Tetrachloro-m-xylene		95%				
2051-24-3	Decachlorobiphenyl		84%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO91 NS MAYPORT
PO No:
Sample Date: 01/05/04
Received Date: 01/09/04
Extraction Date: 01/09/04
Analysis Date: 01/16/04
Report Date: 01/16/2004
Matrix: SOIL
% Solids: 86.8

Lab ID: WU0050-14
Client ID: MPT-45-D4-2'
SDG: WU0050
Extracted by: AZ
Extraction Method: SW846 3545
Analyst: LAD
Analysis Method: SW846 8082
Lab Prep Batch: WG5361
Units: ug/Kg

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
12674-11-2	Aroclor-1016	U	20	1.0	17	20	12
11104-28-2	Aroclor-1221	U	20	1.0	17	20	9.4
11141-16-5	Aroclor-1232	U	20	1.0	17	20	6.1
53469-21-9	Aroclor-1242	U	20	1.0	17	20	7.8
12672-29-6	Aroclor-1248	U	20	1.0	17	20	9.5
11097-69-1	Aroclor-1254	U	20	1.0	17	20	5.4
11096-82-5	Aroclor-1260	U	20	1.0	17	20	9.9
877-09-8	Tetrachloro-m-xylene		90%				
2051-24-3	Decachlorobiphenyl		* 53%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO91 NS MAYPORT
PO No:
Sample Date: 01/05/04
Received Date: 01/09/04
Extraction Date: 01/09/04
Analysis Date: 01/16/04
Report Date: 01/16/2004
Matrix: SOIL
% Solids: 87.4

Lab ID: WU0050-15
Client ID: MPT-45-E4-2'
SDG: WU0050
Extracted by: AZ
Extraction Method: SW846 3545
Analyst: LAD
Analysis Method: SW846 8082
Lab Prep Batch: WG5361
Units: ug/Kg

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
12674-11-2	Aroclor-1016	U	19	1.0	17	19	12
11104-28-2	Aroclor-1221	U	19	1.0	17	19	9.4
11141-16-5	Aroclor-1232	U	19	1.0	17	19	6.0
53469-21-9	Aroclor-1242	U	19	1.0	17	19	7.7
12672-29-6	Aroclor-1248	U	19	1.0	17	19	9.4
11097-69-1	Aroclor-1254	U	19	1.0	17	19	5.4
11096-82-5	Aroclor-1260	U	19	1.0	17	19	9.8
877-09-8	Tetrachloro-m-xylene		86%				
2051-24-3	Decachlorobiphenyl		75%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO91 NS MAYPORT
PO No:
Sample Date: 01/05/04
Received Date: 01/09/04
Extraction Date: 01/09/04
Analysis Date: 01/16/04
Report Date: 01/16/2004
Matrix: SOIL
% Solids: 94.0

Lab ID: WU0050-16
Client ID: MPT-45-E4-5'
SDG: WU0050
Extracted by: AZ
Extraction Method: SW846 3545
Analyst: LAD
Analysis Method: SW846 8082
Lab Prep Batch: WG5361
Units: ug/Kg

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
12674-11-2	Aroclor-1016	U	18	1.0	17	18	11
11104-28-2	Aroclor-1221	U	18	1.0	17	18	8.7
11141-16-5	Aroclor-1232	U	18	1.0	17	18	5.6
53469-21-9	Aroclor-1242	U	18	1.0	17	18	7.2
12672-29-6	Aroclor-1248	U	18	1.0	17	18	8.8
11097-69-1	Aroclor-1254	U	18	1.0	17	18	5.0
11096-82-5	Aroclor-1260	U	18	1.0	17	18	9.1
877-09-8	Tetrachloro-m-xylene		96%				
2051-24-3	Decachlorobiphenyl		74%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO91 NS MAYPORT
PO No:
Sample Date: 01/05/04
Received Date: 01/09/04
Extraction Date: 01/09/04
Analysis Date: 01/15/04
Report Date: 01/19/2004
Matrix: SOIL
% Solids: 91.2

Lab ID: WU0050-1
Client ID: MPT-45-A1-2'
SDG: WU0050
Extracted by: AZ
Extraction Method: SW846 3550
Analyst: SAW
Analysis Method: SW846 M8015
Lab Prep Batch: WG5362
Units: mg/Kg

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
	Petroleum Range Organics	B	110	1.0	20	22	1.5
	n-Triacontane-D62		89%				
	O-Terphenyl		83%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO91 NS MAYPORT
PO No:
Sample Date: 01/05/04
Received Date: 01/09/04
Extraction Date: 01/09/04
Analysis Date: 01/15/04
Report Date: 01/19/2004
Matrix: SOIL
% Solids: 93.0

Lab ID: WU0050-2
Client ID: MPT-45-A2-2'
SDG: WU0050
Extracted by: AZ
Extraction Method: SW846 3550
Analyst: SAW
Analysis Method: SW846 M8015
Lab Prep Batch: WG5362
Units: mg/Kg

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
	Petroleum Range Organics	B	190	1.0	20	22	1.5
	n-Triacontane-D62		90%				
	O-Terphenyl		84%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CT091 NS MAYPORT
PO No:
Sample Date: 01/05/04
Received Date: 01/09/04
Extraction Date: 01/09/04
Analysis Date: 01/16/04
Report Date: 01/19/2004
Matrix: SOIL
% Solids: 95.4

Lab ID: WU0050-3
Client ID: MPT-45-A3-2'
SDG: WU0050
Extracted by: AZ
Extraction Method: SW846 3550
Analyst: SAW
Analysis Method: SW846 M8015
Lab Prep Batch: WG5362
Units: mg/Kg

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
	Petroleum Range Organics	B	230	1.0	20	21	1.5
	n-Triacontane-D62		92%				
	O-Terphenyl		87%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO91 NS MAYPORT
PO No:
Sample Date: 01/05/04
Received Date: 01/09/04
Extraction Date: 01/09/04
Analysis Date: 01/20/04
Report Date: 01/21/2004
Matrix: SOIL
% Solids: 92.7

Lab ID: WU0050-4DL
Client ID: MPT-45-A4-2'
SDG: WU0050
Extracted by: AZ
Extraction Method: SW846 3550
Analyst: SAW
Analysis Method: SW846 M8015
Lab Prep Batch: WG5362
Units: mg/Kg

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
	Petroleum Range Organics	B	460	5.0	20	110	7.6
	n-Triacontane-D62		90%				
	O-Terphenyl		85%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO91 NS MAYPORT
PO No:
Sample Date: 01/05/04
Received Date: 01/09/04
Extraction Date: 01/09/04
Analysis Date: 01/20/04
Report Date: 01/21/2004
Matrix: SOIL
% Solids: 90.8

Lab ID: WU0050-5DL
Client ID: MPT-45-B1-2'
SDG: WU0050
Extracted by: AZ
Extraction Method: SW846 3550
Analyst: SAW
Analysis Method: SW846 M8015
Lab Prep Batch: WG5362
Units: mg/Kg

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
	Petroleum Range Organics	B	300	3.0	20	66	4.6
	n-Triacontane-D62		89%				
	O-Terphenyl		83%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CT091 NS MAYPORT
PO No:
Sample Date: 01/05/04
Received Date: 01/09/04
Extraction Date: 01/09/04
Analysis Date: 01/16/04
Report Date: 01/19/2004
Matrix: SOIL
% Solids: 95.8

Lab ID: WU0050-6
Client ID: MPT-45-B2-2'
SDG: WU0050
Extracted by: AZ
Extraction Method: SW846 3550
Analyst: SAW
Analysis Method: SW846 M8015
Lab Prep Batch: WG5362
Units: mg/Kg

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
	Petroleum Range Organics	B	190	1.0	20	21	1.5
	n-Triacontane-D62		84%				
	O-Terphenyl		80%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO91 NS MAYPORT
PO No:
Sample Date: 01/05/04
Received Date: 01/09/04
Extraction Date: 01/09/04
Analysis Date: 01/20/04
Report Date: 01/21/2004
Matrix: SOIL
% Solids: 91.4

Lab ID: WU0050-7DL
Client ID: MPT-45-B3-2'
SDG: WU0050
Extracted by: AZ
Extraction Method: SW846 3550
Analyst: SAW
Analysis Method: SW846 M8015
Lab Prep Batch: WG5362
Units: mg/Kg

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
	Petroleum Range Organics	B	500	3.0	20	66	4.6
	n-Triacontane-D62		95%				
	O-Terphenyl		94%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO91 NS MAYPORT
PO No:
Sample Date: 01/05/04
Received Date: 01/09/04
Extraction Date: 01/09/04
Analysis Date: 01/16/04
Report Date: 01/19/2004
Matrix: SOIL
% Solids: 95.8

Lab ID: WU0050-8
Client ID: MPT-45-B4-2'
SDG: WU0050
Extracted by: AZ
Extraction Method: SW846 3550
Analyst: SAW
Analysis Method: SW846 M8015
Lab Prep Batch: WG5362
Units: mg/Kg

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
	Petroleum Range Organics	B	210	1.0	20	21	1.5
	n-Triacontane-D62		88%				
	O-Terphenyl		85%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO91 NS MAYPORT
PO No:
Sample Date: 01/05/04
Received Date: 01/09/04
Extraction Date: 01/09/04
Analysis Date: 01/16/04
Report Date: 01/19/2004
Matrix: SOIL
% Solids: 96.8

Lab ID: WU0050-9
Client ID: MPT-45-C1-2'
SDG: WU0050
Extracted by: AZ
Extraction Method: SW846 3550
Analyst: SAW
Analysis Method: SW846 M8015
Lab Prep Batch: WG5362
Units: mg/Kg

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
	Petroleum Range Organics	B	65	1.0	20	21	1.4
	n-Triacontane-D62		88%				
	O-Terphenyl		83%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO91 NS MAYPORT
PO No:
Sample Date: 01/05/04
Received Date: 01/09/04
Extraction Date: 01/09/04
Analysis Date: 01/16/04
Report Date: 01/19/2004
Matrix: SOIL
% Solids: 95.8

Lab ID: WU0050-10
Client ID: MPT-45-C2-2'
SDG: WU0050
Extracted by: AZ
Extraction Method: SW846 3550
Analyst: SAW
Analysis Method: SW846 M8015
Lab Prep Batch: WG5362
Units: mg/Kg

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
	Petroleum Range Organics	B	110	1.0	20	21	1.5
	n-Triacontane-D62		88%				
	O-Terphenyl		82%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO91 NS MAYPORT
PO No:
Sample Date: 01/05/04
Received Date: 01/09/04
Extraction Date: 01/09/04
Analysis Date: 01/16/04
Report Date: 01/19/2004
Matrix: SOIL
% Solids: 94.9

Lab ID: WU0050-11
Client ID: MPT-45-C3-2'
SDG: WU0050
Extracted by: AZ
Extraction Method: SW846 3550
Analyst: SAW
Analysis Method: SW846 M8015
Lab Prep Batch: WG5362
Units: mg/Kg

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
	Petroleum Range Organics	B	170	1.0	20	21	1.5
	n-Triacontane-D62		86%				
	O-Terphenyl		83%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO91 NS MAYPORT
PO No:
Sample Date: 01/05/04
Received Date: 01/09/04
Extraction Date: 01/09/04
Analysis Date: 01/16/04
Report Date: 01/19/2004
Matrix: SOIL
% Solids: 96.1

Lab ID: WU0050-12
Client ID: MPT-45-C4-2'
SDG: WU0050
Extracted by: AZ
Extraction Method: SW846 3550
Analyst: SAW
Analysis Method: SW846 M8015
Lab Prep Batch: WG5362
Units: mg/Kg

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
	Petroleum Range Organics	B	53	1.0	20	21	1.4
	n-Triacontane-D62		91%				
	O-Terphenyl		83%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO91 NS MAYPORT
PO No:
Sample Date: 01/05/04
Received Date: 01/09/04
Extraction Date: 01/09/04
Analysis Date: 01/20/04
Report Date: 01/21/2004
Matrix: SOIL
% Solids: 93.2

Lab ID: WU0050-13DL
Client ID: MPT-45-D3-2'
SDG: WU0050
Extracted by: AZ
Extraction Method: SW846 3550
Analyst: SAW
Analysis Method: SW846 M8015
Lab Prep Batch: WG5362
Units: mg/Kg

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
	Petroleum Range Organics	B	620	5.0	20	110	7.5
	n-Triacontane-D62		94%				
	O-Terphenyl		90%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO91 NS MAYPORT
PO No:
Sample Date: 01/05/04
Received Date: 01/09/04
Extraction Date: 01/09/04
Analysis Date: 01/15/04
Report Date: 01/19/2004
Matrix: SOIL
% Solids: 86.8

Lab ID: WU0050-14
Client ID: MPT-45-D4-2'
SDG: WU0050
Extracted by: AZ
Extraction Method: SW846 3550
Analyst: SAW
Analysis Method: SW846 M8015
Lab Prep Batch: WG5362
Units: mg/Kg

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
	Petroleum Range Organics	JB	9.4	1.0	20	23	1.6
	n-Triacontane-D62		95%				
	O-Terphenyl		89%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO91 NS MAYPORT
PO No:
Sample Date: 01/05/04
Received Date: 01/09/04
Extraction Date: 01/09/04
Analysis Date: 01/15/04
Report Date: 01/19/2004
Matrix: SOIL
% Solids: 87.4

Lab ID: WU0050-15
Client ID: MPT-45-E4-2'
SDG: WU0050
Extracted by: AZ
Extraction Method: SW846 3550
Analyst: SAW
Analysis Method: SW846 M8015
Lab Prep Batch: WG5362
Units: mg/Kg

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
	Petroleum Range Organics	JB	7.0	1.0	20	23	1.6
	n-Triacontane-D62		90%				
	O-Terphenyl		84%				

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO91 NS MAYPORT
PO No:
Sample Date: 01/05/04
Received Date: 01/09/04
Extraction Date: 01/09/04
Analysis Date: 01/16/04
Report Date: 01/19/2004
Matrix: SOIL
% Solids: 94.0

Lab ID: WU0050-16
Client ID: MPT-45-E4-5'
SDG: WU0050
Extracted by: AZ
Extraction Method: SW846 3550
Analyst: SAW
Analysis Method: SW846 M8015
Lab Prep Batch: WG5362
Units: mg/Kg

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
	Petroleum Range Organics	JB	6.6	1.0	20	21	1.5
	n-Triacontane-D62		92%				
	O-Terphenyl		90%				

APPENDIX C

SUPPORT DOCUMENTATION

HOLDTIME

SDG WU0050

SORT	UNITS	NSAMPLE	LAB_ID	QC_TYP	SAMP_DATE	EXTR_DATE	ANAL_DATE	SMP_EXTR	EXTR_ANL	SMP_ANL
OS	%	MPT-45-D3-2^RA	WU0050-13RA	NM	1/5/2004	1/12/2004	1/16/2004	7	4	11
OS	%	MPT-45-E4-5^RA	WU0050-16RA	NM	1/5/2004	1/12/2004	1/16/2004	7	4	11
OS	%	MPT-45-C2-2^DL2	WU0050-26DL2	NM	1/5/2004	1/12/2004	1/26/2004	7	14	21
OS	%	MPT-45-C2-2^RA	WU0050-10RA	NM	1/5/2004	1/12/2004	1/16/2004	7	4	11
OS	%	MPT-45-C3-2'	WU0050-11	NM	1/5/2004	1/12/2004	1/15/2004	7	3	10
OS	%	MPT-45-C3-2'	WU0050-27	NM	1/5/2004	1/12/2004	1/17/2004	7	5	12
OS	%	MPT-45-C3-2^DL2	WU0050-27DL2	NM	1/5/2004	1/12/2004	1/26/2004	7	14	21
OS	%	MPT-45-C3-2^RA	WU0050-11RA	NM	1/5/2004	1/12/2004	1/16/2004	7	4	11
OS	%	MPT-45-C4-2'	WU0050-12	NM	1/5/2004	1/12/2004	1/15/2004	7	3	10
OS	%	MPT-45-C4-2'	WU0050-28	NM	1/5/2004	1/12/2004	1/17/2004	7	5	12
OS	%	MPT-45-C2-2'	WU0050-10	NM	1/5/2004	1/12/2004	1/16/2004	7	4	11
OS	%	MPT-45-D3-2'	WU0050-13	NM	1/5/2004	1/12/2004	1/15/2004	7	3	10
OS	%	MPT-45-C1-2^RA	WU0050-9RA	NM	1/5/2004	1/12/2004	1/16/2004	7	4	11
OS	%	MPT-45-D3-2^RA	WU0050-29RA	NM	1/5/2004	1/12/2004	1/19/2004	7	7	14
OS	%	MPT-45-D4-2'	WU0050-14	NM	1/5/2004	1/12/2004	1/15/2004	7	3	10

SORT	UNITS	NSAMPLE	LAB_ID	QC_TYP	SAMP_DATE	EXTR_DATE	ANAL_DATE	SMP_EXTR	EXTR_ANL	SMP_ANL
OS	%	MPT-45-D4-2^RA	WU0050-14RA	NM	1/5/2004	1/12/2004	1/16/2004	7	4	11
OS	%	MPT-45-D4-2^RA	WU0050-30RA	NM	1/5/2004	1/12/2004	1/19/2004	7	7	14
OS	%	MPT-45-E4-2'	WU0050-15	NM	1/5/2004	1/12/2004	1/15/2004	7	3	10
OS	%	MPT-45-E4-2^RA	WU0050-15RA	NM	1/5/2004	1/12/2004	1/16/2004	7	4	11
OS	%	MPT-45-E4-2^RA	WU0050-31RA	NM	1/5/2004	1/12/2004	1/19/2004	7	7	14
OS	%	MPT-45-E4-5'	WU0050-16	NM	1/5/2004	1/12/2004	1/15/2004	7	3	10
OS	%	MPT-45-A1-2'	WU0050-1	NM	1/5/2004	1/12/2004	1/15/2004	7	3	10
OS	%	MPT-45-C4-2^DL2	WU0050-28DL2	NM	1/5/2004	1/12/2004	1/26/2004	7	14	21
OS	%	MPT-45-B1-2'	WU0050-5	NM	1/5/2004	1/12/2004	1/15/2004	7	3	10
OS	%	MPT-45-A1-2'	WU0050-17	NM	1/5/2004	1/12/2004	1/16/2004	7	4	11
OS	%	MPT-45-A1-2^RA	WU0050-17RA	NM	1/5/2004	1/12/2004	1/19/2004	7	7	14
OS	%	MPT-45-A2-2'	WU0050-18	NM	1/5/2004	1/12/2004	1/16/2004	7	4	11
OS	%	MPT-45-A2-2'	WU0050-2	NM	1/5/2004	1/12/2004	1/15/2004	7	3	10
OS	%	MPT-45-A3-2'	WU0050-19	NM	1/5/2004	1/12/2004	1/16/2004	7	4	11
OS	%	MPT-45-A3-2'	WU0050-3	NM	1/5/2004	1/12/2004	1/15/2004	7	3	10
OS	%	MPT-45-A3-2^RA	WU0050-19RA	NM	1/5/2004	1/12/2004	1/19/2004	7	7	14
OS	%	MPT-45-A4-2'	WU0050-20	NM	1/5/2004	1/12/2004	1/16/2004	7	4	11
OS	%	MPT-45-A4-2'	WU0050-4	NM	1/5/2004	1/12/2004	1/15/2004	7	3	10

SORT	UNITS	NSAMPLE	LAB_ID	QC_TYP	SAMP_DATE	EXTR_DATE	ANAL_DATE	SMP_EXTR	EXTR_ANL	SMP_ANL
OS	%	MPT-45-C2-2'	WU0050-26	NM	1/5/2004	1/12/2004	1/17/2004	7	5	12
OS	%	MPT-45-B1-2'	WU0050-21	NM	1/5/2004	1/12/2004	1/16/2004	7	4	11
OS	%	MPT-45-E4-5^RA	WU0050-32RA	NM	1/5/2004	1/12/2004	1/19/2004	7	7	14
OS	%	MPT-45-B2-2'	WU0050-22	NM	1/5/2004	1/12/2004	1/17/2004	7	5	12
OS	%	MPT-45-B2-2^RA	WU0050-6RA	NM	1/5/2004	1/12/2004	1/16/2004	7	4	11
OS	%	MPT-45-B3-2'	WU0050-23	NM	1/5/2004	1/12/2004	1/17/2004	7	5	12
OS	%	MPT-45-B3-2'	WU0050-7	NM	1/5/2004	1/12/2004	1/16/2004	7	4	11
OS	%	MPT-45-B4-2'	WU0050-24	NM	1/5/2004	1/12/2004	1/17/2004	7	5	12
OS	%	MPT-45-B4-2'	WU0050-8	NM	1/5/2004	1/12/2004	1/16/2004	7	4	11
OS	%	MPT-45-B4-2^RA	WU0050-8RA	NM	1/5/2004	1/12/2004	1/16/2004	7	4	11
OS	%	MPT-45-C1-2'	WU0050-25	NM	1/5/2004	1/12/2004	1/17/2004	7	5	12
OS	%	MPT-45-C1-2'	WU0050-9	NM	1/5/2004	1/12/2004	1/16/2004	7	4	11
OS	%	MPT-45-A4-2^RA	WU0050-20RA	NM	1/5/2004	1/12/2004	1/19/2004	7	7	14
OS	UG/KG	MPT-45-D3-2^RA	WU0050-13RA	NM	1/5/2004	1/12/2004	1/16/2004	7	4	11
OS	UG/KG	MPT-45-A1-2'	WU0050-1	NM	1/5/2004	1/12/2004	1/15/2004	7	3	10
OS	UG/KG	MPT-45-C2-2^DL2	WU0050-26DL2	NM	1/5/2004	1/12/2004	1/26/2004	7	14	21
OS	UG/KG	MPT-45-C2-2^RA	WU0050-10RA	NM	1/5/2004	1/12/2004	1/16/2004	7	4	11
OS	UG/KG	MPT-45-C3-2'	WU0050-11	NM	1/5/2004	1/12/2004	1/15/2004	7	3	10

SORT	UNITS	NSAMPLE	LAB_ID	QC_TYP	SAMP_DATE	EXTR_DATE	ANAL_DATE	SMP_EXTR	EXTR_ANL	SMP_ANL
OS	UG/KG	MPT-45-C3-2'	WU0050-27	NM	1/5/2004	1/12/2004	1/17/2004	7	5	12
OS	UG/KG	MPT-45-C3-2^DL2	WU0050-27DL2	NM	1/5/2004	1/12/2004	1/26/2004	7	14	21
OS	UG/KG	MPT-45-C3-2^RA	WU0050-11RA	NM	1/5/2004	1/12/2004	1/16/2004	7	4	11
OS	UG/KG	MPT-45-C4-2'	WU0050-12	NM	1/5/2004	1/12/2004	1/15/2004	7	3	10
OS	UG/KG	MPT-45-C4-2'	WU0050-28	NM	1/5/2004	1/12/2004	1/17/2004	7	5	12
OS	UG/KG	MPT-45-C2-2'	WU0050-10	NM	1/5/2004	1/12/2004	1/16/2004	7	4	11
OS	UG/KG	MPT-45-D3-2'	WU0050-13	NM	1/5/2004	1/12/2004	1/15/2004	7	3	10
OS	UG/KG	MPT-45-C1-2^RA	WU0050-9RA	NM	1/5/2004	1/12/2004	1/16/2004	7	4	11
OS	UG/KG	MPT-45-D3-2^RA	WU0050-29RA	NM	1/5/2004	1/12/2004	1/19/2004	7	7	14
OS	UG/KG	MPT-45-D4-2'	WU0050-14	NM	1/5/2004	1/12/2004	1/15/2004	7	3	10
OS	UG/KG	MPT-45-D4-2^RA	WU0050-14RA	NM	1/5/2004	1/12/2004	1/16/2004	7	4	11
OS	UG/KG	MPT-45-D4-2^RA	WU0050-30RA	NM	1/5/2004	1/12/2004	1/19/2004	7	7	14
OS	UG/KG	MPT-45-E4-2'	WU0050-15	NM	1/5/2004	1/12/2004	1/15/2004	7	3	10
OS	UG/KG	MPT-45-E4-2^RA	WU0050-15RA	NM	1/5/2004	1/12/2004	1/16/2004	7	4	11
OS	UG/KG	MPT-45-E4-2^RA	WU0050-31RA	NM	1/5/2004	1/12/2004	1/19/2004	7	7	14
OS	UG/KG	MPT-45-E4-5'	WU0050-16	NM	1/5/2004	1/12/2004	1/15/2004	7	3	10
OS	UG/KG	MPT-45-E4-5^RA	WU0050-16RA	NM	1/5/2004	1/12/2004	1/16/2004	7	4	11
OS	UG/KG	MPT-45-C4-2^DL2	WU0050-28DL2	NM	1/5/2004	1/12/2004	1/26/2004	7	14	21

SORT	UNITS	NSAMPLE	LAB_ID	QC_TYP	SAMP_DATE	EXTR_DATE	ANAL_DATE	SMP_EXTR	EXTR_ANL	SMP_ANL
OS	UG/KG	MPT-45-B1-2'	WU0050-5	NM	1/5/2004	1/12/2004	1/15/2004	7	3	10
OS	UG/KG	MPT-45-A1-2'	WU0050-17	NM	1/5/2004	1/12/2004	1/16/2004	7	4	11
OS	UG/KG	MPT-45-A1-2^RA	WU0050-17RA	NM	1/5/2004	1/12/2004	1/19/2004	7	7	14
OS	UG/KG	MPT-45-A2-2'	WU0050-18	NM	1/5/2004	1/12/2004	1/16/2004	7	4	11
OS	UG/KG	MPT-45-A2-2'	WU0050-2	NM	1/5/2004	1/12/2004	1/15/2004	7	3	10
OS	UG/KG	MPT-45-A3-2'	WU0050-19	NM	1/5/2004	1/12/2004	1/16/2004	7	4	11
OS	UG/KG	MPT-45-A3-2'	WU0050-3	NM	1/5/2004	1/12/2004	1/15/2004	7	3	10
OS	UG/KG	MPT-45-A3-2^RA	WU0050-19RA	NM	1/5/2004	1/12/2004	1/19/2004	7	7	14
OS	UG/KG	MPT-45-A4-2'	WU0050-20	NM	1/5/2004	1/12/2004	1/16/2004	7	4	11
OS	UG/KG	MPT-45-A4-2'	WU0050-4	NM	1/5/2004	1/12/2004	1/15/2004	7	3	10
OS	UG/KG	MPT-45-C2-2'	WU0050-26	NM	1/5/2004	1/12/2004	1/17/2004	7	5	12
OS	UG/KG	MPT-45-B1-2'	WU0050-21	NM	1/5/2004	1/12/2004	1/16/2004	7	4	11
OS	UG/KG	MPT-45-E4-5^RA	WU0050-32RA	NM	1/5/2004	1/12/2004	1/19/2004	7	7	14
OS	UG/KG	MPT-45-B2-2'	WU0050-22	NM	1/5/2004	1/12/2004	1/17/2004	7	5	12
OS	UG/KG	MPT-45-B2-2^RA	WU0050-6RA	NM	1/5/2004	1/12/2004	1/16/2004	7	4	11
OS	UG/KG	MPT-45-B3-2'	WU0050-23	NM	1/5/2004	1/12/2004	1/17/2004	7	5	12
OS	UG/KG	MPT-45-B3-2'	WU0050-7	NM	1/5/2004	1/12/2004	1/16/2004	7	4	11
OS	UG/KG	MPT-45-B4-2'	WU0050-24	NM	1/5/2004	1/12/2004	1/17/2004	7	5	12

SORT	UNITS	NSAMPLE	LAB_ID	QC_TYP	SAMP_DATE	EXTR_DATE	ANAL_DATE	SMP_EXTR	EXTR_ANL	SMP_ANL
OS	UG/KG	MPT-45-B4-2'	WU0050-8	NM	1/5/2004	1/12/2004	1/16/2004	7	4	11
OS	UG/KG	MPT-45-B4-2^RA	WU0050-8RA	NM	1/5/2004	1/12/2004	1/16/2004	7	4	11
OS	UG/KG	MPT-45-C1-2'	WU0050-25	NM	1/5/2004	1/12/2004	1/17/2004	7	5	12
OS	UG/KG	MPT-45-C1-2'	WU0050-9	NM	1/5/2004	1/12/2004	1/16/2004	7	4	11
OS	UG/KG	MPT-45-A4-2^RA	WU0050-20RA	NM	1/5/2004	1/12/2004	1/19/2004	7	7	14

HOLD TIME

SDG WU0050

SORT	UNITS	NSAMPLE	LAB_ID	QC_TYP	SAMP_DATE	EXTR_DATE	ANAL_DATE	SMP_EXTR	EXTR_ANL	SMP_ANL
FIRST	%	MPT-45-B4-2'	WU0050-8	NM	1/5/2004	1/9/2004	1/16/2004	4	7	11
	%	MPT-45-A1-2'	WU0050-1	NM	1/5/2004	1/9/2004	1/16/2004	4	7	11
	%	MPT-45-D4-2'	WU0050-14	NM	1/5/2004	1/9/2004	1/16/2004	4	7	11
	%	MPT-45-D3-2'	WU0050-13	NM	1/5/2004	1/9/2004	1/16/2004	4	7	11
	%	MPT-45-C4-2'	WU0050-12	NM	1/5/2004	1/9/2004	1/16/2004	4	7	11
	%	MPT-45-C3-2'	WU0050-11	NM	1/5/2004	1/9/2004	1/16/2004	4	7	11
	%	MPT-45-E4-2'	WU0050-15	NM	1/5/2004	1/9/2004	1/16/2004	4	7	11
	%	MPT-45-C1-2'	WU0050-9	NM	1/5/2004	1/9/2004	1/16/2004	4	7	11
	%	MPT-45-E4-5'	WU0050-16	NM	1/5/2004	1/9/2004	1/16/2004	4	7	11
	%	MPT-45-B3-2'	WU0050-7	NM	1/5/2004	1/9/2004	1/16/2004	4	7	11
	%	MPT-45-B2-2'	WU0050-6	NM	1/5/2004	1/9/2004	1/16/2004	4	7	11
	%	MPT-45-B1-2'	WU0050-5	NM	1/5/2004	1/9/2004	1/16/2004	4	7	11
	%	MPT-45-A4-2'	WU0050-4	NM	1/5/2004	1/9/2004	1/16/2004	4	7	11
	%	MPT-45-A3-2'	WU0050-3	NM	1/5/2004	1/9/2004	1/16/2004	4	7	11
	%	MPT-45-A2-2'	WU0050-2	NM	1/5/2004	1/9/2004	1/16/2004	4	7	11

SORT	UNITS	NSAMPLE	LAB_ID	QC_TYP	SAMP_DATE	EXTR_DATE	ANAL_DATE	SMP_EXTR	EXTR_ANL	SMP_ANL
PEST	%	MPT-45-C2-2'	WU0050-10	NM	1/5/2004	1/9/2004	1/16/2004	4	7	11
	UG/KG	MPT-45-B4-2'	WU0050-8	NM	1/5/2004	1/9/2004	1/16/2004	4	7	11
	UG/KG	MPT-45-E4-2'	WU0050-15	NM	1/5/2004	1/9/2004	1/16/2004	4	7	11
	UG/KG	MPT-45-D4-2'	WU0050-14	NM	1/5/2004	1/9/2004	1/16/2004	4	7	11
	UG/KG	MPT-45-D3-2'	WU0050-13	NM	1/5/2004	1/9/2004	1/16/2004	4	7	11
	UG/KG	MPT-45-C4-2'	WU0050-12	NM	1/5/2004	1/9/2004	1/16/2004	4	7	11
	UG/KG	MPT-45-C3-2'	WU0050-11	NM	1/5/2004	1/9/2004	1/16/2004	4	7	11
	UG/KG	MPT-45-A1-2'	WU0050-1	NM	1/5/2004	1/9/2004	1/16/2004	4	7	11
	UG/KG	MPT-45-C1-2'	WU0050-9	NM	1/5/2004	1/9/2004	1/16/2004	4	7	11
	UG/KG	MPT-45-E4-5'	WU0050-16	NM	1/5/2004	1/9/2004	1/16/2004	4	7	11
	UG/KG	MPT-45-B3-2'	WU0050-7	NM	1/5/2004	1/9/2004	1/16/2004	4	7	11
	UG/KG	MPT-45-B2-2'	WU0050-6	NM	1/5/2004	1/9/2004	1/16/2004	4	7	11
	UG/KG	MPT-45-B1-2'	WU0050-5	NM	1/5/2004	1/9/2004	1/16/2004	4	7	11
	UG/KG	MPT-45-A4-2'	WU0050-4	NM	1/5/2004	1/9/2004	1/16/2004	4	7	11
	UG/KG	MPT-45-A3-2'	WU0050-3	NM	1/5/2004	1/9/2004	1/16/2004	4	7	11
	UG/KG	MPT-45-A2-2'	WU0050-2	NM	1/5/2004	1/9/2004	1/16/2004	4	7	11
	UG/KG	MPT-45-C2-2'	WU0050-10	NM	1/5/2004	1/9/2004	1/16/2004	4	7	11

HOLDTIME

SDG WU0050

SORT	UNITS	NSAMPLE	LAB_ID	QC_TYP	SAMP_DATE	EXTR_DATE	ANAL_DATE	SMP_EXTR	EXTR_ANL	SMP_ANL
PCB	%	MPT-45-B4-2'	WU0050-8	NM	1/5/2004	1/9/2004	1/15/2004	4	6	10
PCB	%	MPT-45-A1-2'	WU0050-1	NM	1/5/2004	1/9/2004	1/15/2004	4	6	10
PCB	%	MPT-45-D4-2'	WU0050-14	NM	1/5/2004	1/9/2004	1/16/2004	4	7	11
PCB	%	MPT-45-D3-2'	WU0050-13	NM	1/5/2004	1/9/2004	1/16/2004	4	7	11
PCB	%	MPT-45-C4-2'	WU0050-12	NM	1/5/2004	1/9/2004	1/16/2004	4	7	11
PCB	%	MPT-45-C3-2'	WU0050-11	NM	1/5/2004	1/9/2004	1/16/2004	4	7	11
PCB	%	MPT-45-E4-2'	WU0050-15	NM	1/5/2004	1/9/2004	1/16/2004	4	7	11
PCB	%	MPT-45-C1-2'	WU0050-9	NM	1/5/2004	1/9/2004	1/15/2004	4	6	10
PCB	%	MPT-45-E4-5'	WU0050-16	NM	1/5/2004	1/9/2004	1/16/2004	4	7	11
PCB	%	MPT-45-B3-2'	WU0050-7	NM	1/5/2004	1/9/2004	1/15/2004	4	6	10
PCB	%	MPT-45-B2-2'	WU0050-6	NM	1/5/2004	1/9/2004	1/15/2004	4	6	10
PCB	%	MPT-45-B1-2'	WU0050-5	NM	1/5/2004	1/9/2004	1/15/2004	4	6	10
PCB	%	MPT-45-A4-2'	WU0050-4	NM	1/5/2004	1/9/2004	1/15/2004	4	6	10
PCB	%	MPT-45-A3-2'	WU0050-3	NM	1/5/2004	1/9/2004	1/15/2004	4	6	10
PCB	%	MPT-45-A2-2'	WU0050-2	NM	1/5/2004	1/9/2004	1/15/2004	4	6	10

SORT	UNITS	NSAMPLE	LAB_ID	QC_TYP	SAMP_DATE	EXTR_DATE	ANAL_DATE	SMP_EXTR	EXTR_ANL	SMP_ANL
PCB	%	MPT-45-C2-2'	WU0050-10	NM	1/5/2004	1/9/2004	1/15/2004	4	6	10
PCB	UG/KG	MPT-45-B4-2'	WU0050-8	NM	1/5/2004	1/9/2004	1/15/2004	4	6	10
PCB	UG/KG	MPT-45-E4-2'	WU0050-15	NM	1/5/2004	1/9/2004	1/16/2004	4	7	11
PCB	UG/KG	MPT-45-D4-2'	WU0050-14	NM	1/5/2004	1/9/2004	1/16/2004	4	7	11
PCB	UG/KG	MPT-45-D3-2'	WU0050-13	NM	1/5/2004	1/9/2004	1/16/2004	4	7	11
PCB	UG/KG	MPT-45-C4-2'	WU0050-12	NM	1/5/2004	1/9/2004	1/16/2004	4	7	11
PCB	UG/KG	MPT-45-C3-2'	WU0050-11	NM	1/5/2004	1/9/2004	1/16/2004	4	7	11
PCB	UG/KG	MPT-45-A1-2'	WU0050-1	NM	1/5/2004	1/9/2004	1/15/2004	4	6	10
PCB	UG/KG	MPT-45-C1-2'	WU0050-9	NM	1/5/2004	1/9/2004	1/15/2004	4	6	10
PCB	UG/KG	MPT-45-E4-5'	WU0050-16	NM	1/5/2004	1/9/2004	1/16/2004	4	7	11
PCB	UG/KG	MPT-45-B3-2'	WU0050-7	NM	1/5/2004	1/9/2004	1/15/2004	4	6	10
PCB	UG/KG	MPT-45-B2-2'	WU0050-6	NM	1/5/2004	1/9/2004	1/15/2004	4	6	10
PCB	UG/KG	MPT-45-B1-2'	WU0050-5	NM	1/5/2004	1/9/2004	1/15/2004	4	6	10
PCB	UG/KG	MPT-45-A4-2'	WU0050-4	NM	1/5/2004	1/9/2004	1/15/2004	4	6	10
PCB	UG/KG	MPT-45-A3-2'	WU0050-3	NM	1/5/2004	1/9/2004	1/15/2004	4	6	10
PCB	UG/KG	MPT-45-A2-2'	WU0050-2	NM	1/5/2004	1/9/2004	1/15/2004	4	6	10
PCB	UG/KG	MPT-45-C2-2'	WU0050-10	NM	1/5/2004	1/9/2004	1/15/2004	4	6	10

HOLDTIME

SDG WU0050

SORT	UNITS	NSAMPLE	LAB_ID	QC_TYP	SAMP_DATE	EXTR_DATE	ANAL_DATE	SMP_EXTR	EXTR_ANL	SMP_ANL
TPH	%	MPT-45-B4-2'	WU0050-8	NM	1/5/2004	1/9/2004	1/16/2004	4	7	11
TPH	%	MPT-45-A1-2'	WU0050-1	NM	1/5/2004	1/9/2004	1/15/2004	4	6	10
TPH	%	MPT-45-D4-2'	WU0050-14	NM	1/5/2004	1/9/2004	1/15/2004	4	6	10
TPH	%	MPT-45-D3-2^	WU0050-13DL	NM	1/5/2004	1/9/2004	1/20/2004	4	11	15
TPH	%	MPT-45-C4-2'	WU0050-12	NM	1/5/2004	1/9/2004	1/16/2004	4	7	11
TPH	%	MPT-45-C3-2'	WU0050-11	NM	1/5/2004	1/9/2004	1/16/2004	4	7	11
TPH	%	MPT-45-E4-2'	WU0050-15	NM	1/5/2004	1/9/2004	1/15/2004	4	6	10
TPH	%	MPT-45-C1-2'	WU0050-9	NM	1/5/2004	1/9/2004	1/16/2004	4	7	11
TPH	%	MPT-45-E4-5'	WU0050-16	NM	1/5/2004	1/9/2004	1/16/2004	4	7	11
TPH	%	MPT-45-B3-2^	WU0050-7DL	NM	1/5/2004	1/9/2004	1/20/2004	4	11	15
TPH	%	MPT-45-B2-2'	WU0050-6	NM	1/5/2004	1/9/2004	1/16/2004	4	7	11
TPH	%	MPT-45-B1-2^	WU0050-5DL	NM	1/5/2004	1/9/2004	1/20/2004	4	11	15
TPH	%	MPT-45-A4-2^	WU0050-4DL	NM	1/5/2004	1/9/2004	1/20/2004	4	11	15
TPH	%	MPT-45-A3-2'	WU0050-3	NM	1/5/2004	1/9/2004	1/16/2004	4	7	11
TPH	%	MPT-45-A2-2'	WU0050-2	NM	1/5/2004	1/9/2004	1/15/2004	4	6	10

SORT	UNITS	NSAMPLE	LAB_ID	QC_TYP	SAMP_DATE	EXTR_DATE	ANAL_DATE	SMP_EXTR	EXTR_ANL	SMP_ANL
TPH	%	MPT-45-C2-2'	WU0050-10	NM	1/5/2004	1/9/2004	1/16/2004	4	7	11
TPH	MG/KG	MPT-45-B4-2'	WU0050-8	NM	1/5/2004	1/9/2004	1/16/2004	4	7	11
TPH	MG/KG	MPT-45-E4-2'	WU0050-15	NM	1/5/2004	1/9/2004	1/15/2004	4	6	10
TPH	MG/KG	MPT-45-D4-2'	WU0050-14	NM	1/5/2004	1/9/2004	1/15/2004	4	6	10
TPH	MG/KG	MPT-45-D3-2^	WU0050-13DL	NM	1/5/2004	1/9/2004	1/20/2004	4	11	15
TPH	MG/KG	MPT-45-C4-2'	WU0050-12	NM	1/5/2004	1/9/2004	1/16/2004	4	7	11
TPH	MG/KG	MPT-45-C3-2'	WU0050-11	NM	1/5/2004	1/9/2004	1/16/2004	4	7	11
TPH	MG/KG	MPT-45-A1-2'	WU0050-1	NM	1/5/2004	1/9/2004	1/15/2004	4	6	10
TPH	MG/KG	MPT-45-C1-2'	WU0050-9	NM	1/5/2004	1/9/2004	1/16/2004	4	7	11
TPH	MG/KG	MPT-45-E4-5'	WU0050-16	NM	1/5/2004	1/9/2004	1/16/2004	4	7	11
TPH	MG/KG	MPT-45-B3-2^	WU0050-7DL	NM	1/5/2004	1/9/2004	1/20/2004	4	11	15
TPH	MG/KG	MPT-45-B2-2'	WU0050-6	NM	1/5/2004	1/9/2004	1/16/2004	4	7	11
TPH	MG/KG	MPT-45-B1-2^	WU0050-5DL	NM	1/5/2004	1/9/2004	1/20/2004	4	11	15
TPH	MG/KG	MPT-45-A4-2^	WU0050-4DL	NM	1/5/2004	1/9/2004	1/20/2004	4	11	15
TPH	MG/KG	MPT-45-A3-2'	WU0050-3	NM	1/5/2004	1/9/2004	1/16/2004	4	7	11
TPH	MG/KG	MPT-45-A2-2'	WU0050-2	NM	1/5/2004	1/9/2004	1/15/2004	4	6	10
TPH	MG/KG	MPT-45-C2-2'	WU0050-10	NM	1/5/2004	1/9/2004	1/16/2004	4	7	11

Spada, Bernie

From: Maria Crouch [mcrouch@katahdinlab.com]
Sent: Monday, February 23, 2004 5:31 PM
To: Spada, Bernie
Cc: Andrea Colby
Subject: Fw: SDG-WU0050 CTO-091 - Checked by Vexira - - Checked by Vexira - - C

Dear Mr. Spada:

Attached please find the reissued narrative for Katahdin Analytical Services work order WU0050. Three paragraphs have been added to the 8270 SIM analysis section of the narrative, to address the issues you have raised regarding this work order.

Please let Andrea Colby or me know if you have any further questions.

Maria Crouch
Quality Assurance Officer
Katahdin Analytical Services
(207) 874-2400 ext 125

----- Original Message -----
From: Andrea Colby
To: mcrouch@katahdinlab.com
Sent: Monday, February 23, 2004 4:27 PM
Subject: FW: SDG-WU0050 CTO-091 - Checked by Vexira - - Checked by Vexira -

-----Original Message-----
From: Spada, Bernie [mailto:SpadaB@ttnus.com]
Sent: Tuesday, February 17, 2004 12:12 PM
To: 'Andrea Colby'
Subject: SDG-WU0050 CTO-091 - Checked by Vexira -

Andrea,

I was just writing a note to see if you had a chance to check the dilution of sample MPT-45-C4-2' for the project listed above.

Thank you.

Bernard F Spada III
Bernard F Spada III
Environmental Scientist
TETRA TECH NUS, Inc.
Foster Plaza 7
661 Andersen Drive
Pittsburgh, PA 15220-2745
Telephone: (412) 921-8729
FAX: (412) 921-4040
spadab@ttnus.com
http://www.ttnus.com
http://www.tetratech.com

SDG NARRATIVE
KATAHDIN ANALYTICAL SERVICES
TETRA TECH NUS
CASE NS MAYPORT
TASK ORDER MANAGER: TERRY HANSEN
WU0050

Sample Receipt

The following samples were received on January 9, 2004 and were logged in under Katahdin Analytical Services work order number WU0050 for a hardcopy due date of February 4, 2004.

KATAHDIN Sample No.	TTNUS Sample Identification
WU0050-1	MPT-45-A1-2'
WU0050-2	MPT-45-A2-2'
WU0050-3	MPT-45-A3-2'
WU0050-4	MPT-45-A4-2'
WU0050-5	MPT-45-B1-2'
WU0050-6	MPT-45-B2-2'
WU0050-7	MPT-45-B3-2'
WU0050-8	MPT-45-B4-2'
WU0050-9	MPT-45-C1-2'
WU0050-10	MPT-45-C2-2'
WU0050-11	MPT-45-C3-2'
WU0050-12	MPT-45-C4-2'
WU0050-13	MPT-45-D3-2'
WU0050-14	MPT-45-D4-2'
WU0050-15	MPT-45-E4-2'
WU0050-16	MPT-45-E4-5'
WU0050-17	MPT-45-A1-2'
WU0050-18	MPT-45-A2-2'
WU0050-19	MPT-45-A3-2'
WU0050-20	MPT-45-A4-2'
WU0050-21	MPT-45-B1-2'
WU0050-22	MPT-45-B2-2'
WU0050-23	MPT-45-B3-2'
WU0050-24	MPT-45-B4-2'
WU0050-25	MPT-45-C1-2'
WU0050-26	MPT-45-C2-2'
WU0050-27	MPT-45-C3-2'
WU0050-28	MPT-45-C4-2'
WU0050-29	MPT-45-D3-2'
WU0050-30	MPT-45-D4-2'
WU0050-31	MPT-45-E4-2'
WU0050-32	MPT-45-E4-5'

SDG NARRATIVE
KATAHDIN ANALYTICAL SERVICES
TETRA TECH NUS
CASE NS MAYPORT
TASK ORDER MANAGER: TERRY HANSEN
WU0050

Sample Receipt

The following samples were received on January 9, 2004 and were logged in under Katahdin Analytical Services work order number WU0050 for a hardcopy due date of February 4, 2004.

KATAHDIN Sample No.	TTNUS Sample Identification
WU0050-1	MPT-45-A1-2'
WU0050-2	MPT-45-A2-2'
WU0050-3	MPT-45-A3-2'
WU0050-4	MPT-45-A4-2'
WU0050-5	MPT-45-B1-2'
WU0050-6	MPT-45-B2-2'
WU0050-7	MPT-45-B3-2'
WU0050-8	MPT-45-B4-2'
WU0050-9	MPT-45-C1-2'
WU0050-10	MPT-45-C2-2'
WU0050-11	MPT-45-C3-2'
WU0050-12	MPT-45-C4-2'
WU0050-13	MPT-45-D3-2'
WU0050-14	MPT-45-D4-2'
WU0050-15	MPT-45-E4-2'
WU0050-16	MPT-45-E4-5'
WU0050-17	MPT-45-A1-2'
WU0050-18	MPT-45-A2-2'
WU0050-19	MPT-45-A3-2'
WU0050-20	MPT-45-A4-2'
WU0050-21	MPT-45-B1-2'
WU0050-22	MPT-45-B2-2'
WU0050-23	MPT-45-B3-2'
WU0050-24	MPT-45-B4-2'
WU0050-25	MPT-45-C1-2'
WU0050-26	MPT-45-C2-2'
WU0050-27	MPT-45-C3-2'
WU0050-28	MPT-45-C4-2'
WU0050-29	MPT-45-D3-2'
WU0050-30	MPT-45-D4-2'
WU0050-31	MPT-45-E4-2'
WU0050-32	MPT-45-E4-5'

The samples were logged in for the analyses specified on the chain of custody form. All problems encountered and resolved during sample receipt have been documented on the applicable chain of custody forms.

Sample analyses have been performed by the methods as noted herein.

Should you have any questions or comments concerning this Report of Analysis, please do not hesitate to contact your Katahdin Analytical Services Project Manager, **Andrea J. Colby**. This narrative is an integral part of the Report of Analysis.

Organics Analysis

The samples of Work Order WU0050 were analyzed in accordance with "Test Methods for Evaluating Solid Wastes: Physical/Chemical Methods." SW-846. 2nd edition, 1982 (revised 1984), 3rd edition, 1986, and Updates I, II, IIA, and III 1996, Office of Solid Waste and Emergency Response, U.S. EPA and/or Method for Determination of Petroleum Range Organics (Method #FL-PRO), Florida Department of Environmental Protection, November 1, 1995 and/or "Methods for the Determination of Organic Compounds in Drinking Water", U.S. EPA, Environmental Monitoring and Support Laboratory - Cincinnati (September 1995) for the specific methods listed below or on the Report of Analysis. Some manual integrations may have been performed due to split peaks and/or corrected baselines. All have been flagged with a "M" (software-generated) on the pertinent quantitation report.

8270 Analysis

Some method blanks may have detected one or more target analytes above the MDL. Any of these analytes that were also detected in any of the associated samples were flagged with a "B" qualifier indicating that the analyte was detected in the method blank analyzed and/or extracted concurrently with the sample.

There were three initial calibrations performed for this SDG. The initial calibration analyzed on the U instrument on 01/12/04 had %RSD values for several analytes that exceeded the method acceptance limit of 15%. For these analytes, either a linear or quadratic model was used for quantitation instead of an average response factor. The target analytes 2,4-dinitrophenol, diethylphthalate, 4-nitroaniline and the surrogate 2,4,6-tribromophenol failed for both the linear and quadratic models in the initial calibration curve due to the correlation coefficient being less than the method acceptance criteria of 0.990. These compounds were calibrated using the average model. Since none of the associated samples detected these target analytes above the PQL, the samples were not reanalyzed.

Samples WU0050-8, 9, 10, 11, 13, 14, 15, and 16 had high responses for one or more internal standards, which were outside the method acceptance limit of -50% to 100% of the response of the internal standard of the daily calibration verification standard. The samples were reanalyzed with similar failures confirming a matrix effect. The results from both analyses are reported.

The CV (file U5895) had high responses for the calibration check compounds (CCCs) phenol, 4-chloro-3-methylphenol and di-n-octylphthalate, which resulted in %D's that were outside the

method acceptance limit of 20%. Since a high response would indicate a high bias and the associated samples did not detect these analytes above the PQL, the samples were not reanalyzed.

The CV (file U5907) had a high response for the CCC phenol and a low response for hexachlorobutadiene, which resulted in %D's that were outside the method acceptance limit of 20%. Since the associated samples did not detect these analytes above the PQL, the samples were not reanalyzed.

The CV (file X4122) had a low response for the CCC N-nitrosodiphenylamine, which resulted in a %D that was outside the method acceptance limit of 20%. Since a high response would indicate a high bias and the associated samples did not detect N-nitrosodiphenylamine above the MDL, the samples were not reanalyzed.

The CV's (files U5895 and X4122) had responses for the internal standard perylene-d12 which were low and resulted in %D's that were outside the method acceptance limits of -50% to +100% of the response of the mid-point standard level of the initial calibration. Since none of the associated samples detected any target analytes above the PQL that are quantitated against this internal standard, the samples were not reanalyzed.

8270 SIM Analysis

Some method blanks may have detected one or more target analytes above the MDL. Any of these analytes that were also detected in any of the associated samples were flagged with a "B" qualifier indicating that the analyte was detected in the method blank analyzed and/or extracted concurrently with the sample.

Samples WU0050-17, 18, 19, 20, and 21 had responses for one or more internal standards which were high and outside the method acceptance limit of -50% to 100% of the response of the internal standard of the daily calibration verification standard. The samples were reanalyzed with similar failures confirming a matrix effect. The results from both analyses are reported.

Samples WU0050-25, 26, 27, 28 and 29, which were analyzed at dilution, had responses for one or more internal standards which were high and outside the method acceptance limit of -50% to 100% of the response of the internal standard of the daily calibration verification standard. The results from both analyses are reported.

Samples WU0050-30, 31, and 32 had responses for one or more internal standards which were high and outside the method acceptance limit of -50% to 100% of the response of the internal standard of the daily calibration verification standard. These samples were not reanalyzed due to time constraints.

The initial calibration analyzed on the K instrument on 01/17/04 had a %RSD value for the analyte benzo(b)fluoranthene that exceeded the method acceptance limit of 15%. This analyte, benzo(b)fluoranthene, failed for both the linear and quadratic models in the initial calibration curve due to the correlation coefficient being less than the method acceptance criteria of 0.990. This compound was calibrated using the average model.

The laboratory control sample duplicate (WG5370-3RA) which was analyzed on the "K" instrument had responses for two internal standards, which were high and outside the method acceptance limit of -50% to 100% of the response of the internal standard of the daily continuing calibration standard.

The calibration verification check standard (CV) (file K6146) had responses for two internal standards which were low and outside the method acceptance limit of -50% to 100% of the response of the internal standard of the initial calibration standard.

Katahdin Analytical Services has established a laboratory policy regarding the addition of the suffix "RA" to a sample number. It is as follows: the first analysis of an undiluted sample is labeled without a suffix added to the sample number. When an undiluted sample is reanalyzed the suffix "RA" is added to the sample number. If the sample is reanalyzed more than once, the suffixes "RA2, RA3..." are used. The data software system used by the organics laboratory to process data requires each analysis to have a unique sample name. Consequently, if a sample is reanalyzed, it must be labeled with a different sample name, even if the first analysis is not reported. There are several instances where the first analysis may not be reported. These examples include: the original analysis being analyzed outside of the 12-hour analytical clock, the original analysis being scheduled for analysis but the instrument faulting out, or the original analysis being analyzed only for screening. In any of those cases, the reanalyzed samples would be labeled with a "RA" even though the original analysis is not reported.

Sample WU0050-28 was analyzed undiluted and at a dilution of 1:10. The undiluted analysis had several analytes with concentrations that were flagged with the "E" qualifier indicating they were outside of the calibration range. The diluted analysis results were flagged with the "J" qualifier. The results from the two analyses do not correlate. After further investigation, no valid reason could be determined as to why the two analyses did not correlate well to each other. Due to analyst oversight, the result from the diluted analysis was not compared with the first analysis at the time of processing to verify that the sample was analyzed at the correct dilution. At a minimum, one of the two analyses should have been reanalyzed. The sample was reanalyzed undiluted on February 19, 2004 and all target analytes were either below or within the calibration range.

The results for samples WU0050-30 and 31 that were included in the data package originally submitted to the client did not match the results reported on the EDD. Upon further review, it was determined that the EDD contained the correct sample data. The data files for samples WU0050-30RA and 31RA were initially processed with the calibrated method 827sim17.m, and printed. This was not the correct method to have used to process the data file. The two samples were then reprocessed through method 827sim18.m, the correct method. However, the two sample chromatograms were not reprinted. The chromatograms submitted in the original data package were the ones that had been processed with the incorrect method, but the data system had the correctly processed files, which is why the EDD information was correct.

FL-PRO Analysis

Some method blanks may have detected one or more target analytes above the MDL. Any of these analytes that were also detected in any of the associated samples were flagged with a "B" qualifier indicating that the analyte was detected in the method blank analyzed and/or extracted concurrently with the sample.

The calibration verification standards (file CTU2085B, CTU2093 and CTU2105) had low responses for one or more individual hydrocarbons, which resulted in a %D that was above the

method acceptance limit of 25%. Since the method requirement applies to only the PRO range response, which was acceptable, the associated samples were not reanalyzed.

8081 Analysis

Sample WU0050-14 had low recoveries for the surrogate DCB on both channels, which were outside of the laboratory established acceptance limits. Since the recoveries for TCX were within the acceptance limits on both channels, the sample was not reanalyzed.

The closing CV standard (files 8UA3038 and 8UA4038) had low responses for alpha-BHC, heptachlor and delta-BHC on channel A and a low response for the surrogate DCB on channel B, which resulted in %D's that were outside of the method acceptance limits of 15%. Since the responses for all of the target analytes and surrogates were acceptable on one channel, the associated samples were not reanalyzed.

The opening CV standard (file 8UA3041) had a low response for alpha-BHC on channel A, which resulted in a %D that was outside of the method acceptance limits of 15%. Since all responses on the confirmation channel were within the acceptance limits, the associated samples were not reanalyzed.

The closing CV standard (file 8UA3054) had a low response for alpha-BHC on channel A, which resulted in a %D that was outside of the method acceptance limits of 15%. Since all responses on the confirmation channel were within the acceptance limits, the associated samples were not reanalyzed.

8082 Analysis

Sample WU0050-14 had low recoveries for the surrogate DCB on both channels, which were outside the laboratory established acceptance limits. Since the recoveries for TCX were within the acceptance limits on both channels, the sample was not reanalyzed.

The method blank, WG5361-1, laboratory control sample duplicate WG5361-3 and sample WU0050-11 had high recoveries for the surrogate TCX on the B channel. These recoveries were outside of the laboratory established acceptance limits. Since the recoveries for DCB were within the acceptance limits on both channels, the samples were not reanalyzed.

The middle CV standard (file 6UA2190) had high responses for Aroclor 1016 and TCX on channel B, which resulted in %D's that were outside of the method acceptance limits of 15%. Since the responses on the confirmation channel were within the acceptance limits, the associated samples were not reanalyzed.

The closing CV standard (file 6UA4002) had high responses for Aroclor 1016, Aroclor 1260, TCX and DCB on channel B, which resulted in %D's that were outside of the method acceptance limits of 15%. Since the responses on the confirmation channel were within the acceptance limits, the associated samples were not reanalyzed.

Some of the samples were reported for Aroclor 1260, which contained some peaks that were disproportional to those from the Aroclor 1260 standard. Since most of the peaks that are present in Aroclor 1260 standard are present in the samples, the samples were identified for this aroclor.

There were no other protocol deviations or observations noted by the organics laboratory staff.

Metals Analysis

The samples of Katahdin SDG WU0050 were prepared and analyzed for metals in accordance with the "Test Methods for Evaluating Solid Waste", SW-846, November 1986, Third Edition.

Inductively-Coupled Plasma Atomic Emission Spectroscopic Analysis (ICP)

Solid-matrix Katahdin Sample Nos. WU0050-(1-16) were digested for ICP analysis on 01/12/04 (QC Batch UA12ICS0) in accordance with USEPA Method 3050B. Katahdin Sample No. WU0050-1 was prepared with duplicate matrix-spiked aliquots.

ICP analyses of the Katahdin SDG WU0050 sample digestates were performed in accordance with USEPA Method 6010B, using a Thermo Jarrell Ash (TJA) Trace ICP spectrometer and a TJA ICAP 61E ICP spectrometer. All samples were analyzed within holding times and all QC criteria were met with the following comments or exceptions:

Some of the results for run QC samples (ICV, ICB, CCV, CCB, ICSA, and ICSAB) included in the accompanying data package may have exceeded acceptance limits for some elements. Please note that all client samples and batch QC samples associated with out-of-control results for run QC samples were subsequently reanalyzed for the analytes in question.

Analysis of Mercury by Cold Vapor Atomic Absorption (CVAA)

Solid-matrix Katahdin Sample Nos. WU0050-(1-16) were digested for mercury analysis on 01/13/04 (QC Batch UA13HGS0) in accordance with USEPA Method 7471A. Katahdin Sample No. WU0050-1 was prepared with duplicate matrix-spiked aliquots. The measured mercury recovery for the laboratory control sample that was prepared in this batch exceeded the laboratory's acceptance limits. For this reason, Katahdin Sample Nos. WU0050-(1-16) were redigested for mercury analysis on 01/16/04 (QC Batch UA16HGS0). Redigestates are identified throughout the raw data by the suffixes "R" or "X" appended to the Katahdin sample number, e.g. "WU0050-001R". These redigestates were successfully analyzed for mercury.

Mercury analyses of the Katahdin SDG WU0050 sample digestate were performed using a Leeman Labs PS200 automated mercury analyzer. All samples were analyzed within holding times and all run QC criteria were met.

Matrix QC Summary

One or both of the matrix-spiked aliquots of Katahdin Sample No. WU0050-1 exceeded the laboratory's acceptance criteria (75% - 125% recovery of the added element, if the native

concentration is less than four times the amount added) for the following analytes: antimony, magnesium, mercury, silver, and zinc.

Low matrix spike recoveries for antimony in soil samples are common, and are attributed to loss of insoluble antimony compounds during filtration of the digestates. Matrix spike recovery failures for other elements are attributed to sample heterogeneity, and difficulty in obtaining representative replicate aliquots of the samples.

The matrix spike duplicate analysis of Katahdin Sample No. WU0050-1 exceeded the laboratory's acceptance limit (<20% relative difference between duplicate matrix spiked aliquots) for the following elements: calcium, copper, and mercury. These failures are attributed to sample heterogeneity, and difficulty in obtaining representative replicate aliquots of the sample.

The serial dilution analyses of Katahdin Sample No. WU0050-1 was within the laboratory's ICP serial dilution acceptance limit (<10% difference between the original sample result and the result for a 5-fold dilution of the sample, if the result for the dilution is at least ten times the instrument detection limit) for all analytes.

Wet Chemistry Analysis

The samples of Work Order WU0050 were analyzed in accordance with the specific methods listed on the Report of Analysis.

Analyses for cyanide were performed according to "Test Methods for Evaluating Solid Wastes: Physical/Chemical Methods." SW-846. 2nd edition, 1982 (revised 1984), 3rd edition, 1986, and Updates I, II, IIA, and III 1996, Office of Solid Waste and Emergency Response, U.S. EPA.

Analyses of Work Order WT3024 samples for total solids were performed according to U.S. EPA Contract Laboratory Program Statement of Work for Inorganic Analysis, 7/88.

All Wet Chemistry results were evaluated to Katahdin Analytical Services' Method Detection Limits (MDL). Measured concentrations that fall between the MDL and Katahdin's Practical Quantitation Limit (PQL) are flagged "J". Measured concentrations that are below the MDL are flagged "U" and reported as "U PQL", where "PQL" is the numerical value of the Practical Quantitation Limit.

All analyses were performed within analytical hold time, and all quality control criteria were met. No deviations were noted by the Wet Chemistry group.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package has been authorized by the Operations Manager or the Quality Assurance Officer as verified by the following signature.

Maria Crouch 02.23.04
Maria Crouch
Quality Assurance Officer

WW0050

TETRA TECH NUS, INC. | **CHAIN OF CUSTODY** | **NUMBER** 11223 | **PAGE** 1 **OF** 2

PROJECT NO: N0123 (CTO 91)	**FACILITY:** NS Mayport	**PROJECT MANAGER** Terry Hansen	**PHONE NUMBER**	**LABORATORY NAME AND CONTACT:** KaTahdin / Andrea Colby
SAMPLERS (SIGNATURE) Charles Metz		**FIELD OPERATIONS LEADER** Charles Metz	**PHONE NUMBER** 904-636-6125	**ADDRESS** 340 Country Rd #5
		CARRIER/WAYBILL NUMBER		**CITY, STATE** Westbrook, ME 04092

STANDARD TAT ☐
RUSH TAT ☑
☐ 24 hr. ☐ 48 hr. ☐ 72 hr. ☐ 7 day ☐ 14 day

CONTAINER TYPE PLASTIC (P) or GLASS (G): G
PRESERVATIVE USED: —
TYPE OF ANALYSIS: All Analysis

DATE (YEAR 2003)	TIME	SAMPLE ID	LOCATION ID	TOP DEPTH (FT)	BOTTOM DEPTH (FT)	MATRIX (GW, SO, SW, SD, QC, ETC.)	COLLECTION METHOD GRAB (G) COMP (C)	No. OF CONTAINERS		COMMENTS
1-5	1400	MPT-45-A1-2'		1	2	SO	C	1	1	
	1352	MPT-45-A2-2'					C	1	1	
	1345	MPT-45-A3-2'					C	1	1	
	1300	MPT-45-A4-2'					C	1	1	
	1426	MPT-45-B1-2'					C	1	1	Cool 4°C
	1418	MPT-45-B2-2'					C	1	1	
	1410	MPT-45-B3-2'					C	1	1	
	1255	MPT-45-B4-2'					C	1	1	
	1503	MPT-45-C1-2'					C	1	1	
	1458	MPT-45-C2-2'					C	1	1	
	1449	MPT-45-C3-2'					C	1	1	
	1240	MPT-45-C4-2'					C	1	1	
↓	1524	MPT-45-D3-2'		↓	↓	↓	C	1	1	

	DATE	TIME		DATE	TIME
1. RELINQUISHED BY Charles Metz	1-8-04	1850	1. RECEIVED BY	1-9-04	0925
2. RELINQUISHED BY	DATE	TIME	2. RECEIVED BY	DATE	TIME
3. RELINQUISHED BY	DATE	TIME	3. RECEIVED BY	DATE	TIME

COMMENTS

DISTRIBUTION: WHITE (ACCOMPANIES SAMPLE) YELLOW (FIELD COPY) PINK (FILE COPY)

4/02R
FORM NO. TtNUS-001

110000

TETRA TECH NUS, INC. | CHAIN OF CUSTODY | NUMBER 11223 | PAGE 2 OF 2

PROJECT NO:	FACILITY:	PROJECT MANAGER	PHONE NUMBER	LABORATORY NAME AND CONTACT:
N0123 (CTO 091)	NS Mayport	Terry Hansen		Katahdin / Andrea Colby
SAMPLERS (SIGNATURE)		**FIELD OPERATIONS LEADER**	**PHONE NUMBER**	**ADDRESS**
Charles Metz		Charles Metz	904-836-6125	340 County Rd #5
		CARRIER/WAYBILL NUMBER 7905-1407-8163 7905-1407-8141		**CITY, STATE** Westbrook Me 04092

STANDARD TAT ☐
RUSH TAT ☑
☐ 24 hr. ☐ 48 hr. ☐ 72 hr. ☐ 7 day ☐ 14 day

CONTAINER TYPE PLASTIC (P) or GLASS (G): G
PRESERVATIVE USED: —
TYPE OF ANALYSIS: All Analysis

DATE YEAR 2003	TIME	SAMPLE ID	LOCATION ID	TOP DEPTH (FT)	BOTTOM DEPTH (FT)	MATRIX (GW, SO, SW, SD, QC, ETC.)	COLLECTION METHOD GRAP (G) COMP (C)	No. OF CONTAINERS		COMMENTS
1-5	1514	MPT-45-D4-2'		1	2	SO	C	1	1	
1-5	1200	MPT-45-E4-2'		1	2	SO	C	1	1	
1-5	1220	MPT-45-E4-5'		4	5	SO	C	1	1	
										Cool 4°C
										2 Coolers

1. RELINQUISHED BY: Charles Metz	DATE: 1-8-04	TIME: 1850	1. RECEIVED BY: [signature]	DATE: 1-9-04	TIME: 0925
2. RELINQUISHED BY	DATE	TIME	2. RECEIVED BY	DATE	TIME
3. RELINQUISHED BY	DATE	TIME	3. RECEIVED BY	DATE	TIME

COMMENTS

DISTRIBUTION: WHITE (ACCOMPANIES SAMPLE) YELLOW (FIELD COPY) PINK (FILE COPY)

4/02R
FORM NO. TtNUS-001

00001

FORM 5
SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO91 NS MAYPORT SDG No.: WU0050

Lab File ID: UD571 DFTPP Injection Date: 01/12/04

Instrument ID: GCMS-U DFTPP Injection Time: 0915

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	36.5
68	Less than 2.0% of mass 69	0.0 (0.0)1
69	Less than 100.0% of mass 198	54.8
70	Less than 2.0% of mass 69	0.0 (0.0)1
127	40.0 - 60.0% of mass 198	55.4
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.7
275	10.0 - 30.0% of mass 198	19.3
365	1.0 - 100.0% of mass 198	2.2
441	0.0 - 100.0% of mass 443	13.9 (80.9)2
442	40.0 - 100.0% of mass 198	85.1
443	17.0 - 23.0% of mass 442	17.2 (20.2)3

1-Value is % mass 69 2-Value is % mass 443
3-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01		SSTD050U0112	U5846	01/12/04	0938
02		SSTD200U0112	U5847	01/12/04	1036
03		SSTD160U0112	U5848	01/12/04	1121
04		SSTD120U0112	U5849	01/12/04	1205
05		SSTD020U0112	U5850	01/12/04	1250
06		SSTD010U0112	U5851	01/12/04	1336
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					

FORM V SV

FORM 6
SEMIVOLATILE INITIAL CALIBRATION DATA

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project CTO91 NS MAYPORT SDG No.: WU0050

Instrument ID: GCMS-U Calibration Date(s): 01/12/04 01/12/04

Column: RTX-5SILMS ID: 0.25 (mm) Calibration Time(s): 0938 1336

LAB FILE ID: RF10: U5851 RF20: U5850 RF50: U5846
RF120: U5849 RF160: U5848 RF200: U5847

COMPOUND	RF10	RF20	RF50	RF120	RF160	RF200	CURVE	COEFFICENTS A0	A1	A2	%RSD OR R^2	MAX %RSD OR R^2	
Phenol	2.199	1.962	2.499	2.278	2.314	2.319	AVRG		2.26173		7.812	15.000	
Bis(2-Chloroethyl)ether	1.713	1.532	1.796	1.626	1.696	1.758	AVRG		1.68687		5.649	15.000	
2-Chlorophenol	1.240	1.082	1.378	1.278	1.348	1.366	AVRG		1.28173		8.716	15.000	
1,3-Dichlorobenzene	1.478	1.164	1.671	1.416	1.705	1.742	AVRG		1.52925		14.484	15.000	
1,4-Dichlorobenzene	1.536	1.230	1.736	1.470	1.779	1.809	AVRG		1.59333		14.087	15.000	
1,2-Dichlorobenzene	152600	270310	919520	2529200	3761700	4169300	LINR	0.14520	0.55070		0.99609	0.99000	
2,2'-Oxybis(1-Chloropropane)	252080	489290	1190400	2827400	3414900	3622300	LINR	-0.2881	0.65829		0.99029	0.99000	
2-Methylphenol	1.215	1.107	1.455	1.429	1.484	1.508	AVRG		1.36632		12.058	15.000	
Hexachloroethane	0.568	0.493	0.647	0.668	0.651	0.644	AVRG		0.61187		11.049	15.000	
N-Nitroso-di-n-propylamine	1.227	1.161	1.354	1.054	0.971	0.927	AVRG		1.11555		14.534	15.000	
4-Methylphenol	1.195	1.125	1.510	1.586	1.565	1.528	AVRG		1.41813		14.310	15.000	
Nitrobenzene	0.415	0.355	0.432	0.392	0.408	0.422	AVRG		0.40401		6.785	15.000	
Isophorone	0.689	0.648	0.750	0.688	0.703	0.718	AVRG		0.69959		4.841	15.000	
2-Nitrophenol	50196	108620	328070	942320	1291700	1429100	LINR	0.17676	6.02147		0.99559	0.99000	
2,4-Dimethylphenol	0.291	0.268	0.350	0.343	0.360	0.378	AVRG		0.33164		12.892	15.000	
Bis(2-Chloroethoxy)methane	0.436	0.396	0.494	0.472	0.482	0.502	AVRG		0.46371		8.732	15.000	
2,4-Dichlorophenol	66183	142580	457830	1462700	2047600	2288300	LINR	0.26106	3.71337		0.99380	0.99000	
1,2,4-Trichlorobenzene	82507	166020	522760	1534400	2181900	2450000	LINR	0.23373	3.50242		0.99196	0.99000	
4-Chloroaniline	129170	265300	815880	2178900	3177800	3439000	LINR	0.17709	2.49502		0.99261	0.99000	
Hexachlorobutadiene	37657	77670	239170	744480	1058400	1189600	LINR	0.25837	7.17684		0.99196	0.99000	
4-Chloro-3-Methylphenol	0.256	0.212	0.272	0.231	0.256	0.266	AVRG		0.24889		9.207	15.000	
Hexachlorocyclopentadiene	32220	60651	219350	606900	1048800	1132100	2ORDR	0.11729	5.45366	-1.4400	0.99276	0.99000	
2,4,6-Trichlorophenol	46620	89235	278560	839490	1196400	1316000	LINR	0.26840	3.07349		0.99082	0.99000	
2,4,5-Trichlorophenol	44914	88231	287890	749240	1030700	1113000	LINR	0.16333	3.67669		0.99432	0.99000	
2-Chloronaphthalene	192760	391470	1307000	3689400	4479600	4727000	LINR	9.e-002	0.85569		0.99846	0.99000	
2-Nitroaniline	0.367	0.307	0.403	0.353	0.396	0.404	AVRG		0.37174		10.204	15.000	
Dimethyl Phthalate	195380	375080	1114100	3309200	4409500	4747300	LINR	0.18029	0.85545		0.99670	0.99000	
2,6-Dinitrotoluene	35104	70603	207100	617170	854600	917400	LINR	0.21237	4.40968		0.99500	0.99000	
3-Nitroaniline	43544	86356	302150	856920	1395000	1430400	2ORDR	0.11902	3.84324	-0.6342	0.99418	0.99000	
2,4-Dinitrophenol	0.030	0.032	0.068	0.066	0.088	0.089	AVRG		6e-002		41.935	15.000	<-
Dibenzofuran	239590	455400	1424400	4100100	5785300	6117200	LINR	0.20741	0.65906		0.99494	0.99000	
4-Nitrophenol	18129	33987	117220	276900	446250	442130	2ORDR	4e-002	11.5458	-4.7231	0.99026	0.99000	
2,4-Dinitrotoluene	44513	85652	260770	745700	1081700	1145000	LINR	0.22499	3.51916		0.99286	0.99000	
Diethylphthalate	1.008	0.824	1.993	1.225	1.185	1.472	AVRG		1.28446		31.885	15.000	<-
4-Chlorophenyl-phenylether	76237	152060	476990	1503800	2153400	2333900	LINR	0.28206	1.71837		0.99204	0.99000	
4-Nitroaniline	0.129	0.115	0.187	0.140	0.204	0.193	AVRG		0.16145		23.362	15.000	<-
4,6-Dinitro-2-Methylphenol	13433	26892	108750	323400	567000	594250	2ORDR	0.19159	11.6999	-5.9768	0.99737	0.99000	
N-Nitrosodiphenylamine	127120	237940	767100	2301200	3432400	3672800	LINR	0.23999	1.38709		0.99615	0.99000	
4-Bromophenyl-phenylether	39706	74867	242150	732480	1120100	1228300	LINR	0.28261	4.16049		0.99269	0.99000	
Hexachlorobenzene	42403	76557	257870	754350	1227600	1322300	LINR	0.30608	3.84188		0.99049	0.99000	
Pentachlorophenol	14780	30221	134960	344430	619600	658670	2ORDR	0.15353	10.9101	-5.2956	0.99616	0.99000	
Carbazole	187640	315810	1007300	2641000	4479000	4507300	LINR	0.22966	1.11991		0.99206	0.99000	
Di-n-butylphthalate	302800	562030	1808400	4906100	7126400	7417600	LINR	0.14966	0.69020		0.99894	0.99000	
Butylbenzylphthalate	0.640	0.577	0.695	0.750	0.678	0.746	AVRG		0.68103		9.646	15.000	

FORM 6
SEMIVOLATILE INITIAL CALIBRATION DATA

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project CTO91 NS MAYPORT SDG No.: WU0050

Instrument ID: GCMS-U Calibration Date(s): 01/12/04 01/12/04

Column: RTX-5SILMS ID: 0.25 (mm) Calibration Time(s): 0938 1336

LAB FILE ID: RF10: U5851 RF20: U5850 RF50: U5846
RF120: U5849 RF160: U5848 RF200: U5847

COMPOUND	RF10	RF20	RF50	RF120	RF160	RF200	CURVE	COEFFICENTS A0	COEFFICENTS A1	COEFFICENTS A2	%RSD OR R^2	MAX %RSD OR R^2	
3,3'-Dichlorobenzidine	0.188	0.180	0.215	0.159	0.177	0.184	AVRG		0.18363		9.882	15.000	
bis(2-Ethylhexyl)phthalate	0.946	0.842	1.051	1.151	1.038	1.142	AVRG		1.02850		11.521	15.000	
Di-n-octylphthalate	221110	365570	1454700	3232000	6090500	6236400	LINR	0.22022	0.30613		0.99815	0.99000	
2-Fluorophenol	1.389	1.009	1.416	1.051	1.283	1.305	AVRG		1.24208		13.856	15.000	
Phenol-D6	1.856	1.412	2.133	1.709	2.082	2.088	AVRG		1.88008		15.001	15.000	<-
Nitrobenzene-D5	0.408	0.350	0.423	0.384	0.398	0.412	AVRG		0.39596		6.598	15.000	
2-Fluorobiphenyl	199880	403600	1208900	3741100	4930200	5333600	LINR	0.19979	0.75845		0.99689	0.99000	
2,4,6-Tribromophenol	0.080	0.057	0.105	0.089	0.137	0.145	AVRG		0.10227		33.218	15.000	<-
Terphenyl-D14	114620	190940	695190	1906300	3523200	3543500	LINR	0.15928	1.06254		0.99592	0.99000	

Average %RSD test result.

Calculate Average %RSD: 16.25621414
Maximum Average %RSD: 15.00000000

Note: Failed Average %RSD Test.

FORM VI SV

FORM 5
SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO91 NS MAYPORT SDG No.: WU0050

Lab File ID: UD575 DFTPP Injection Date: 01/15/04

Instrument ID: GCMS-U DFTPP Injection Time: 1124

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	30.3
68	Less than 2.0% of mass 69	0.6 (1.3)1
69	Less than 100.0% of mass 198	45.6
70	Less than 2.0% of mass 69	0.1 (0.3)1
127	40.0 - 60.0% of mass 198	56.9
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.8
275	10.0 - 30.0% of mass 198	17.3
365	1.0 - 100.0% of mass 198	1.6
441	0.0 - 100.0% of mass 443	10.6 (79.6)2
442	40.0 - 100.0% of mass 198	67.0
443	17.0 - 23.0% of mass 442	13.4 (19.9)3

1-Value is % mass 69 2-Value is % mass 443
3-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01		SSTD050U0115	U5895	01/15/04	1318
02	MPT-45-C3-2'	WU0050-11	U5898	01/15/04	1533
03	MPT-45-C4-2'	WU0050-12	U5899	01/15/04	1617
04	MPT-45-D3-2'	WU0050-13	U5900	01/15/04	1702
05	MPT-45-D4-2'	WU0050-14	U5901	01/15/04	1746
06	MPT-45-E4-2'	WU0050-15	U5902	01/15/04	1830
07	MPT-45-E4-5'	WU0050-16	U5903	01/15/04	1915
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					

FORM 7B
SEMIVOLATILE CALIBRATION VERIFICATION SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO91 NS MAYPORT SDG No.: WU0050

Instrument ID: GCMS-U Calibration Date: 01/15/04 Time: 1318

Lab File ID: U5895 Init. Calib. Date(s): 01/12/04 01/12/04

Init. Calib. Times: 0938 1336

GC Column: RTX-5SILMS ID: 0.25 (mm)

COMPOUND	RRF or AMOUNT	RRF50.000 or AMOUNT	CCAL RRF50.000	MIN RRF	%D or %DRIFT	MAX %D or %DRIFT	CURV TYPE	
Phenol	2.2620000	3.0385000	3.0385000	0.01	34.33	20.00	AVRG	<-
Bis(2-Chloroethyl)ether	1.6870000	2.2417000	2.2417000	0.01	32.88	100.00	AVRG	
2-Chlorophenol	1.2820000	1.4648000	1.4648000	0.01	14.26	100.00	AVRG	
1,3-Dichlorobenzene	1.5290000	1.6259000	1.6259000	0.01	6.34	100.00	AVRG	
1,4-Dichlorobenzene	1.5930000	1.6675000	1.6675000	0.01	4.68	20.00	AVRG	
1,2-Dichlorobenzene	50.327000	50.000000	1.6168000	0.01	0.65	100.00	LINR	
2,2'-Oxybis(1-Chloropropane)	110.45000	50.000000	3.7057000	0.01	120.90	100.00	LINR	<-
2-Methylphenol	1.3660000	1.6434000	1.6434000	0.01	20.31	100.00	AVRG	
Hexachloroethane	0.6120000	0.8114900	0.8114900	0.01	32.60	100.00	AVRG	
N-Nitroso-di-n-propylamine	1.1160000	2.0550000	2.0550000	0.05	84.14	100.00	AVRG	
4-Methylphenol	1.4180000	1.7763000	1.7763000	0.01	25.27	100.00	AVRG	
Nitrobenzene	0.4040000	0.5755100	0.5755100	0.01	42.45	100.00	AVRG	
Isophorone	0.6990000	0.9680600	0.9680600	0.01	38.49	100.00	AVRG	
2-Nitrophenol	47.600000	50.000000	0.1346200	0.01	-4.80	20.00	LINR	
2,4-Dimethylphenol	0.3320000	0.4072000	0.4072000	0.01	22.65	100.00	AVRG	
Bis(2-Chloroethoxy)methane	0.4640000	0.5773500	0.5773500	0.01	24.43	100.00	AVRG	
2,4-Dichlorophenol	44.194000	50.000000	0.1817800	0.01	-11.61	20.00	LINR	
1,2,4-Trichlorobenzene	43.148000	50.000000	0.1930000	0.01	-13.70	100.00	LINR	
4-Chloroaniline	51.179000	50.000000	0.3534700	0.01	2.36	100.00	LINR	
Hexachlorobutadiene	40.758000	50.000000	8.48e-002	0.01	-18.48	20.00	LINR	
4-Chloro-3-Methylphenol	0.2490000	0.3045700	0.3045700	0.01	22.32	20.00	AVRG	<-
Hexachlorocyclopentadiene	54.493000	50.000000	0.1952100	0.05	8.99	100.00	2RDR	
2,4,6-Trichlorophenol	45.085000	50.000000	0.2235200	0.01	-9.83	20.00	LINR	
2,4,5-Trichlorophenol	46.733000	50.000000	0.2186700	0.01	-6.53	100.00	LINR	
2-Chloronaphthalene	58.320000	50.000000	1.2790000	0.01	16.64	100.00	LINR	
2-Nitroaniline	0.3720000	0.6805900	0.6805900	0.01	82.95	100.00	AVRG	
Dimethyl Phthalate	52.213000	50.000000	1.0521000	0.01	4.43	100.00	LINR	
2,6-Dinitrotoluene	51.991000	50.000000	0.1972800	0.01	3.98	100.00	LINR	
3-Nitroaniline	55.073000	50.000000	0.2777300	0.01	10.15	100.00	2RDR	

FORM 7B
SEMIVOLATILE CALIBRATION VERIFICATION SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO91 NS MAYPORT SDG No.: WU0050

Instrument ID: GCMS-U Calibration Date: 01/15/04 Time: 1318

Lab File ID: U5895 Init. Calib. Date(s): 01/12/04 01/12/04

Init. Calib. Times: 0938 1336

GC Column: RTX-5SILMS ID: 0.25 (mm)

COMPOUND	RRF or AMOUNT	RRF50.000 or AMOUNT	CCAL RRF50.000	MIN RRF	%D or %DRIFT	MAX %D or %DRIFT	CURV TYPE	
2,4-Dinitrophenol	58.838000	50.000000	7.32e-002	0.05	17.68	100.00	2RDR	
Dibenzofuran	49.372000	50.000000	1.2465000	0.01	-1.26	100.00	LINR	
4-Nitrophenol	91.418000	50.000000	0.1703800	0.05	82.84	100.00	2RDR	
2,4-Dinitrotoluene	55.068000	50.000000	0.2618100	0.01	10.14	100.00	LINR	
Diethylphthalate	1.2840000	1.5475000	1.5475000	0.01	20.52	100.00	AVRG	
4-Chlorophenyl-phenylether	44.136000	50.000000	0.3823800	0.01	-11.73	100.00	LINR	
4-Nitroaniline	0.1610000	0.1838700	0.1838700	0.01	14.20	100.00	AVRG	
4,6-Dinitro-2-Methylphenol	51.767000	50.000000	7.94e-002	0.01	3.53	100.00	2RDR	
N-Nitrosodiphenylamine	45.702000	50.000000	0.5205600	0.01	-8.60	20.00	LINR	
4-Bromophenyl-phenylether	40.069000	50.000000	0.1382700	0.01	-19.86	100.00	LINR	
Hexachlorobenzene	41.265000	50.000000	0.1510800	0.01	-17.47	100.00	LINR	
Pentachlorophenol	44.001000	50.000000	7.26e-002	0.01	-12.00	20.00	2RDR	
Carbazole	47.237000	50.000000	0.6795200	0.01	-5.53	100.00	LINR	
Di-n-butylphthalate	62.098000	50.000000	1.6259000	0.01	24.20	100.00	LINR	
Butylbenzylphthalate	0.6810000	1.0532000	1.0532000	0.01	54.66	100.00	AVRG	
3,3'-Dichlorobenzidine	0.1840000	0.1695400	0.1695400	0.01	-7.86	100.00	AVRG	
bis(2-Ethylhexyl)phthalate	1.0280000	1.6667000	1.6667000	0.01	62.13	100.00	AVRG	
Di-n-octylphthalate	62.284000	50.000000	3.4936000	0.01	24.57	20.00	LINR	<-
2-Fluorophenol	1.2420000	1.5046000	1.5046000	0.01	21.14	100.00	AVRG	
Phenol-D6	1.8800000	2.5148000	2.5148000	0.01	33.77	100.00	AVRG	
Nitrobenzene-D5	0.3960000	0.5554500	0.5554500	0.01	40.26	100.00	AVRG	
2-Fluorobiphenyl	47.290000	50.000000	1.0363000	0.01	-5.42	100.00	LINR	
2,4,6-Tribromophenol	0.1020000	8.62e-002	8.62e-002	0.01	-15.49	100.00	AVRG	
Terphenyl-D14	49.754000	50.000000	0.8166000	0.01	-0.49	100.00	LINR	

FORM 8

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CT091 NS MAYPORT SDG No.: WU0050

Lab File ID (Standard): U5895 Date Analyzed: 01/15/04

Instrument ID: GCMS-U Time Analyzed: 1318

		IS1 (DCB)		IS2 (NPT)		IS3 (ANT)	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12 HOUR STD		265921	9.65	1162630	12.53	514537	16.73
UPPER LIMIT		531842	10.15	2325260	13.03	1029074	17.23
LOWER LIMIT		132961	9.15	581315	12.03	257269	16.23
	CLIENT SAMPLE ID	LAB SAMPLE ID					
01	MPT-45-C3-2'	WU0050-11	422946	9.66	2050505	12.54	1074582*	16.73
02	MPT-45-C4-2'	WU0050-12	299242	9.66	1359227	12.53	656873	16.73
03	MPT-45-D3-2'	WU0050-13	396109	9.66	1896427	12.53	1025143	16.73
04	MPT-45-D4-2'	WU0050-14	459115	9.66	2114540	12.53	1088743*	16.73
05	MPT-45-E4-2'	WU0050-15	463388	9.66	2148974	12.54	1091814*	16.73
06	MPT-45-E4-5'	WU0050-16	380080	9.66	1647303	12.53	843003	16.73
07								
08								
09								
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								

IS1 (DCB) = 1,4-Dichlorobenzene-D4
IS2 (NPT) = Naphthalene-D8
IS3 (ANT) = Acenaphthene-D10

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

FORM VIII SV-1

FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CT091 NS MAYPORT SDG No.: WU0050

Lab File ID (Standard): U5895 Date Analyzed: 01/15/04

Instrument ID: GCMS-U Time Analyzed: 1318

		IS4(PHN) AREA	#	RT	#	IS5(CRY) AREA	#	RT	#	IS6(PRY) AREA	#	RT	#
12 HOUR STD		670323		20.24		365482		26.62		223399		29.82	
UPPER LIMIT		1340646		20.74		730964		27.12		446798		30.32	
LOWER LIMIT		335162		19.74		182741		26.12		111700		29.32	
	CLIENT SAMPLE ID	LAB SAMPLE ID											
01	MPT-45-C3-2'	WU0050-11		1597265	*	20.24		934147	*	26.63		433029	29.83
02	MPT-45-C4-2'	WU0050-12		992699		20.24		588068		26.63		340527	29.83
03	MPT-45-D3-2'	WU0050-13		1619998	*	20.24		655066		26.64		232348	29.84
04	MPT-45-D4-2'	WU0050-14		1657558	*	20.24		1011255	*	26.63		463175	* 29.83
05	MPT-45-E4-2'	WU0050-15		1628671	*	20.25		995542	*	26.63		402265	29.82
06	MPT-45-E4-5'	WU0050-16		1247350		20.24		767919	*	26.63		380385	29.83
07													
08													
09													
10													
11													
12													
13													
14													
15													
16													
17													
18													
19													
20													

IS4 (PHN) = Phenanthrene-D10
IS5 (CRY) = Chrysene-D12
IS6 (PRY) = Perylene-D12

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

FORM 5
SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO91 NS MAYPORT SDG No.: WU0050

Lab File ID: UD576 DFTPP Injection Date: 01/16/04

Instrument ID: GCMS-U DFTPP Injection Time: 1009

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	32.5
68	Less than 2.0% of mass 69	0.7 (1.4)1
69	Less than 100.0% of mass 198	49.9
70	Less than 2.0% of mass 69	0.1 (0.3)1
127	40.0 - 60.0% of mass 198	58.4
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.9
275	10.0 - 30.0% of mass 198	16.9
365	1.0 - 100.0% of mass 198	1.7
441	0.0 - 100.0% of mass 443	10.8 (84.4)2
442	40.0 - 100.0% of mass 198	65.0
443	17.0 - 23.0% of mass 442	12.8 (19.7)3

1-Value is % mass 69 2-Value is % mass 443
3-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01		SSTD050U0116	U5907	01/16/04	1051
02	MPT-45-B2-2'	WU0050-6RA	U5908	01/16/04	1138
03	MPT-45-B3-2'	WU0050-7	U5909	01/16/04	1223
04	MPT-45-B4-2'	WU0050-8	U5910	01/16/04	1308
05	MPT-45-C1-2'	WU0050-9	U5911	01/16/04	1353
06	MPT-45-C2-2'	WU0050-10	U5912	01/16/04	1437
07	MPT-45-C3-2'	WU0050-11RA	U5913	01/16/04	1522
08	MPT-45-D3-2'	WU0050-13RA	U5914	01/16/04	1607
09	MPT-45-D4-2'	WU0050-14RA	U5915	01/16/04	1650
10	MPT-45-E4-2'	WU0050-15RA	U5916	01/16/04	1735
11	MPT-45-E4-5'	WU0050-16RA	U5917	01/16/04	1820
12	MPT-45-B4-2'	WU0050-8RA	U5918	01/16/04	1904
13	MPT-45-C1-2'	WU0050-9RA	U5919	01/16/04	1949
14	MPT-45-C2-2'	WU0050-10RA	U5920	01/16/04	2034
15					
16					
17					
18					
19					
20					

FORM 7B
SEMIVOLATILE CALIBRATION VERIFICATION SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO91 NS MAYPORT SDG No.: WU0050

Instrument ID: GCMS-U Calibration Date: 01/16/04 Time: 1051

Lab File ID: U5907 Init. Calib. Date(s): 01/12/04 01/12/04

Init. Calib. Times: 0938 1336

GC Column: RTX-5SILMS ID: 0.25 (mm)

COMPOUND	RRF or AMOUNT	RRF50.000 or AMOUNT	CCAL RRF50.000	MIN RRF	%D or %DRIFT	MAX %D or %DRIFT	CURV TYPE	
Phenol	2.2620000	2.9324000	2.9324000	0.01	29.64	20.00	AVRG	<-
Bis(2-Chloroethyl)ether	1.6870000	2.1826000	2.1826000	0.01	29.38	100.00	AVRG	
2-Chlorophenol	1.2820000	1.3821000	1.3821000	0.01	7.81	100.00	AVRG	
1,3-Dichlorobenzene	1.5290000	1.5000000	1.5000000	0.01	-1.90	100.00	AVRG	
1,4-Dichlorobenzene	1.5930000	1.5707000	1.5707000	0.01	-1.40	20.00	AVRG	
1,2-Dichlorobenzene	47.403000	50.000000	1.5106000	0.01	-5.19	100.00	LINR	
2,2'-Oxybis(1-Chloropropane)	111.26000	50.000000	3.7303000	0.01	122.52	100.00	LINR	<-
2-Methylphenol	1.3660000	1.6230000	1.6230000	0.01	18.81	100.00	AVRG	
Hexachloroethane	0.6120000	0.7641200	0.7641200	0.01	24.86	100.00	AVRG	
N-Nitroso-di-n-propylamine	1.1160000	2.0500000	2.0500000	0.05	83.69	100.00	AVRG	
4-Methylphenol	1.4180000	1.7554000	1.7554000	0.01	23.79	100.00	AVRG	
Nitrobenzene	0.4040000	0.5472500	0.5472500	0.01	35.46	100.00	AVRG	
Isophorone	0.6990000	0.9542400	0.9542400	0.01	36.52	100.00	AVRG	
2-Nitrophenol	45.396000	50.000000	0.1273000	0.01	-9.21	20.00	LINR	
2,4-Dimethylphenol	0.3320000	0.3887400	0.3887400	0.01	17.09	100.00	AVRG	
Bis(2-Chloroethoxy)methane	0.4640000	0.5574000	0.5574000	0.01	20.13	100.00	AVRG	
2,4-Dichlorophenol	42.232000	50.000000	0.1712200	0.01	-15.54	20.00	LINR	
1,2,4-Trichlorobenzene	40.681000	50.000000	0.1789100	0.01	-18.64	100.00	LINR	
4-Chloroaniline	51.425000	50.000000	0.3554400	0.01	2.85	100.00	LINR	
Hexachlorobutadiene	38.087000	50.000000	7.73e-002	0.01	-23.83	20.00	LINR	<-
4-Chloro-3-Methylphenol	0.2490000	0.2999500	0.2999500	0.01	20.46	20.00	AVRG	<-
Hexachlorocyclopentadiene	48.596000	50.000000	0.1706200	0.05	-2.81	100.00	2RDR	
2,4,6-Trichlorophenol	42.332000	50.000000	0.2056000	0.01	-15.34	20.00	LINR	
2,4,5-Trichlorophenol	44.706000	50.000000	0.2076500	0.01	-10.59	100.00	LINR	
2-Chloronaphthalene	50.265000	50.000000	1.0908000	0.01	0.53	100.00	LINR	
2-Nitroaniline	0.3720000	0.6578700	0.6578700	0.01	76.85	100.00	AVRG	
Dimethyl Phthalate	49.269000	50.000000	0.9832900	0.01	-1.46	100.00	LINR	
2,6-Dinitrotoluene	50.982000	50.000000	0.1927000	0.01	1.96	100.00	LINR	
3-Nitroaniline	52.631000	50.000000	0.2634300	0.01	5.26	100.00	2RDR	

FORM 7B
SEMIVOLATILE CALIBRATION VERIFICATION SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO91 NS MAYPORT SDG No.: WU0050

Instrument ID: GCMS-U Calibration Date: 01/16/04 Time: 1051

Lab File ID: U5907 Init. Calib. Date(s): 01/12/04 01/12/04

Init. Calib. Times: 0938 1336

GC Column: RTX-5SILMS ID: 0.25 (mm)

COMPOUND	RRF or AMOUNT	RRF50.000 or AMOUNT	CCAL RRF50.000	MIN RRF	%D or %DRIFT	MAX %D or %DRIFT	CURV TYPE
2,4-Dinitrophenol	54.619000	50.000000	6.68e-002	0.05	9.24	100.00	2RDR
Dibenzofuran	46.766000	50.000000	1.1674000	0.01	-6.47	100.00	LINR
4-Nitrophenol	90.807000	50.000000	0.1691000	0.05	81.61	100.00	2RDR
2,4-Dinitrotoluene	53.566000	50.000000	0.2532800	0.01	7.13	100.00	LINR
Diethylphthalate	1.2840000	1.6704000	1.6704000	0.01	30.09	100.00	AVRG
4-Chlorophenyl-phenylether	42.487000	50.000000	0.3631900	0.01	-15.03	100.00	LINR
4-Nitroaniline	0.1610000	0.1938700	0.1938700	0.01	20.42	100.00	AVRG
4,6-Dinitro-2-Methylphenol	49.102000	50.000000	7.44e-002	0.01	-1.80	100.00	2RDR
N-Nitrosodiphenylamine	42.736000	50.000000	0.4777800	0.01	-14.53	20.00	LINR
4-Bromophenyl-phenylether	37.952000	50.000000	0.1281000	0.01	-24.10	100.00	LINR
Hexachlorobenzene	39.636000	50.000000	0.1426000	0.01	-20.73	100.00	LINR
Pentachlorophenol	46.724000	50.000000	7.81e-002	0.01	-6.55	20.00	2RDR
Carbazole	48.272000	50.000000	0.6980100	0.01	-3.46	100.00	LINR
Di-n-butylphthalate	58.521000	50.000000	1.5223000	0.01	17.04	100.00	LINR
Butylbenzylphthalate	0.6810000	0.8940700	0.8940700	0.01	31.29	100.00	AVRG
3,3'-Dichlorobenzidine	0.1840000	0.1847700	0.1847700	0.01	0.42	100.00	AVRG
bis(2-Ethylhexyl)phthalate	1.0280000	1.4184000	1.4184000	0.01	37.98	100.00	AVRG
Di-n-octylphthalate	54.978000	50.000000	3.0163000	0.01	9.96	20.00	LINR
2-Fluorophenol	1.2420000	1.5035000	1.5035000	0.01	21.06	100.00	AVRG
Phenol-D6	1.8800000	2.4574000	2.4574000	0.01	30.71	100.00	AVRG
Nitrobenzene-D5	0.3960000	0.5331200	0.5331200	0.01	34.63	100.00	AVRG
2-Fluorobiphenyl	42.762000	50.000000	0.9168800	0.01	-14.48	100.00	LINR
2,4,6-Tribromophenol	0.1020000	8.47e-002	8.47e-002	0.01	-16.96	100.00	AVRG
Terphenyl-D14	42.729000	50.000000	0.6843500	0.01	-14.54	100.00	LINR

FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO91 NS MAYPORT SDG No.: WU0050

Lab File ID (Standard): U5907 Date Analyzed: 01/16/04

Instrument ID: GCMS-U Time Analyzed: 1051

		IS1(DCB) AREA #	RT #	IS2(NPT) AREA #	RT #	IS3(ANT) AREA #	RT #
12 HOUR STD		259858	9.65	1168623	12.53	547125	16.73
UPPER LIMIT		519716	10.15	2337246	13.03	1094250	17.23
LOWER LIMIT		129929	9.15	584312	12.03	273563	16.23
	CLIENT SAMPLE ID	LAB SAMPLE ID					
01	MPT-45-B2-2'	WU0050-6RA	329713	9.65	1504768	12.52	796000	16.72
02	MPT-45-B3-2'	WU0050-7	364506	9.66	1716822	12.53	915565	16.72
03	MPT-45-B4-2'	WU0050-8	603921*	9.66	2891571*	12.53	1555128*	16.72
04	MPT-45-C1-2'	WU0050-9	758520*	9.66	3589910*	12.53	2059270*	16.73
05	MPT-45-C2-2'	WU0050-10	489927	9.65	2327190	12.53	1213680*	16.72
06	MPT-45-C3-2'	WU0050-11RA	459924	9.65	2104813	12.53	1072948	16.73
07	MPT-45-D3-2'	WU0050-13RA	579340*	9.65	2741760*	12.53	1522691*	16.73
08	MPT-45-D4-2'	WU0050-14RA	440623	9.65	2035423	12.53	1049086	16.72
09	MPT-45-E4-2'	WU0050-15RA	513566	9.66	2401162*	12.53	1203499*	16.72
10	MPT-45-E4-5'	WU0050-16RA	685864*	9.66	3133577*	12.53	1682125*	16.72
11	MPT-45-B4-2'	WU0050-8RA	681424*	9.66	3135176*	12.53	1643762*	16.73
12	MPT-45-C1-2'	WU0050-9RA	455795	9.65	2099787	12.53	1055183	16.73
13	MPT-45-C2-2'	WU0050-10RA	637050*	9.66	2970560*	12.53	1550486*	16.73
14								
15								
16								
17								
18								
19								
20								

IS1 (DCB) = 1,4-Dichlorobenzene-D4
IS2 (NPT) = Naphthalene-D8
IS3 (ANT) = Acenaphthene-D10

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

FORM VIII SV-1

FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO91 NS MAYPORT SDG No.: WU0050

Lab File ID (Standard): U5907 Date Analyzed: 01/16/04

Instrument ID: GCMS-U Time Analyzed: 1051

		IS4(PHN) AREA	#	RT	#	IS5(CRY) AREA	#	RT	#	IS6(PRY) AREA	#	RT	#
12 HOUR STD		757805		20.24		504662		26.62		318332		29.82	
UPPER LIMIT		1515610		20.74		1009324		27.12		636664		30.32	
LOWER LIMIT		378903		19.74		252331		26.12		159166		29.32	
	CLIENT SAMPLE ID	LAB SAMPLE ID											
01	MPT-45-B2-2'	WU0050-6RA		1249678		20.23		654940		26.62		348838		29.82	
02	MPT-45-B3-2'	WU0050-7		1453223		20.24		914395		26.63		428195		29.82	
03	MPT-45-B4-2'	WU0050-8		2356087	*	20.24		1011389	*	26.63		338866		29.82	
04	MPT-45-C1-2'	WU0050-9		3323558	*	20.24		1821691	*	26.63		642649	*	29.82	
05	MPT-45-C2-2'	WU0050-10		1949755	*	20.24		1082453	*	26.63		426337		29.82	
06	MPT-45-C3-2'	WU0050-11RA		1722128	*	20.24		891787		26.62		363442		29.82	
07	MPT-45-D3-2'	WU0050-13RA		2424350	*	20.24		1041362	*	26.64		269896		29.84	
08	MPT-45-D4-2'	WU0050-14RA		1539587	*	20.24		777541		26.62		314528		29.82	
09	MPT-45-E4-2'	WU0050-15RA		1829855	*	20.24		862319		26.62		316086		29.82	
10	MPT-45-E4-5'	WU0050-16RA		2621071	*	20.24		1444561	*	26.63		591479		29.82	
11	MPT-45-B4-2'	WU0050-8RA		2724195	*	20.24		1513908	*	26.63		497108		29.83	
12	MPT-45-C1-2'	WU0050-9RA		1622859	*	20.24		764176		26.63		265131		29.82	
13	MPT-45-C2-2'	WU0050-10RA		2472816	*	20.24		1153450	*	26.63		387094		29.83	
14													
15													
16													
17													
18													
19													
20													

IS4 (PHN) = Phenanthrene-D10
IS5 (CRY) = Chrysene-D12
IS6 (PRY) = Perylene-D12

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

FORM 5

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO91 NS MAYPORT SDG No.: WU0050

Lab File ID: UD577 DFTPP Injection Date: 01/17/04

Instrument ID: GCMS-U DFTPP Injection Time: 1018

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	32.0
68	Less than 2.0% of mass 69	0.4 (0.8)1
69	Less than 100.0% of mass 198	47.4
70	Less than 2.0% of mass 69	0.0 (0.0)1
127	40.0 - 60.0% of mass 198	55.7
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.7
275	10.0 - 30.0% of mass 198	17.5
365	1.0 - 100.0% of mass 198	1.4
441	0.0 - 100.0% of mass 443	11.1 (77.3)2
442	40.0 - 100.0% of mass 198	72.2
443	17.0 - 23.0% of mass 442	14.4 (19.9)3

1-Value is % mass 69 2-Value is % mass 443

3-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01		SSTD050U0117	U5923	01/17/04	1208
02		SSTD200U0117	U5924	01/17/04	1252
03		SSTD160U0117	U5925	01/17/04	1338
04		SSTD120U0117	U5926	01/17/04	1423
05		SSTD020U0117	U5927	01/17/04	1508
06		SSTD010U0117	U5928	01/17/04	1553
07	WG5369-BLANK	WG5369-1	U5929	01/17/04	1639
08	WG5369-LCS	WG5369-2	U5930	01/17/04	1723
09	WG5369-LCSD	WG5369-3	U5931	01/17/04	1808
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client:
Project: CTO91 NS MAYPORT
PO No:
Sample Date:
Received Date:
Extraction Date: 01/12/04
Analysis Date: 01/17/04
Report Date: 01/19/2004
Matrix: SOIL
% Solids: 100

Lab ID: WG5369-1
Client ID: WG5369-Blank
SDG: WU0050
Extracted by: NB
Extraction Method: SW846 3550
Analyst: JCG
Analysis Method: SW846 8270C
Lab Prep Batch: WG5369
Units: ug/Kg

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
108-95-2	Phenol	U	330	1.0	330	330	69
111-44-4	Bis(2-Chloroethyl)ether	U	330	1.0	330	330	34
95-57-8	2-Chlorophenol	U	330	1.0	330	330	130
541-73-1	1,3-Dichlorobenzene	U	330	1.0	330	330	34
106-46-7	1,4-Dichlorobenzene	U	330	1.0	330	330	34
95-50-1	1,2-Dichlorobenzene	U	330	1.0	330	330	37
108-60-1	2,2'-Oxybis(1-Chloropropane)	U	330	1.0	330	330	34
95-48-7	2-Methylphenol	U	330	1.0	330	330	81
67-72-1	Hexachloroethane	U	330	1.0	330	330	28
621-64-7	N-Nitroso-di-n-propylamine	U	330	1.0	330	330	30
106-44-5	4-Methylphenol	U	330	1.0	330	330	75
98-95-3	Nitrobenzene	U	330	1.0	330	330	34
78-59-1	Isophorone	U	330	1.0	330	330	26
88-75-5	2-Nitrophenol	U	330	1.0	330	330	88
105-67-9	2,4-Dimethylphenol	U	330	1.0	330	330	78
111-91-1	Bis(2-Chloroethoxy)methane	U	330	1.0	330	330	27
120-83-2	2,4-Dichlorophenol	U	330	1.0	330	330	86
120-82-1	1,2,4-Trichlorobenzene	U	330	1.0	330	330	51
106-47-8	4-Chloroaniline	U	330	1.0	330	330	24
87-68-3	Hexachlorobutadiene	U	330	1.0	330	330	57
59-50-7	4-Chloro-3-Methylphenol	U	330	1.0	330	330	71
77-47-4	Hexachlorocyclopentadiene	U	330	1.0	330	330	26
88-06-2	2,4,6-Trichlorophenol	U	330	1.0	330	330	90
95-95-4	2,4,5-Trichlorophenol	U	820	1.0	820	820	88
91-58-7	2-Chloronaphthalene	U	330	1.0	330	330	31
88-74-4	2-Nitroaniline	U	820	1.0	820	820	66
131-11-3	Dimethyl Phthalate	U	330	1.0	330	330	29
606-20-2	2,6-Dinitrotoluene	U	330	1.0	330	330	49
99-09-2	3-Nitroaniline	U	820	1.0	820	820	63
51-28-5	2,4-Dinitrophenol	U	820	1.0	820	820	160
132-64-9	Dibenzofuran	U	330	1.0	330	330	44
100-02-7	4-Nitrophenol	U	820	1.0	820	820	140
121-14-2	2,4-Dinitrotoluene	U	330	1.0	330	330	40
84-66-2	Diethylphthalate		420	1.0	330	330	33
7005-72-3	4-Chlorophenyl-phenylether	U	330	1.0	330	330	40
100-01-6	4-Nitroaniline	U	820	1.0	820	820	93
534-52-1	4,6-Dinitro-2-Methylphenol	U	820	1.0	820	820	66
86-30-6	N-Nitrosodiphenylamine	U	330	1.0	330	330	64
101-55-3	4-Bromophenyl-phenylether	U	330	1.0	330	330	42
118-74-1	Hexachlorobenzene	U	330	1.0	330	330	89
87-86-5	Pentachlorophenol	U	820	1.0	820	820	140
86-74-8	Carbazole	U	330	1.0	330	330	26
84-74-2	Di-n-butylphthalate	U	330	1.0	330	330	41

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client:
Project: CTO91 NS MAYPORT
PO No:
Sample Date:
Received Date:
Extraction Date: 01/12/04
Analysis Date: 01/17/04
Report Date: 01/19/2004
Matrix: SOIL
% Solids: 100

Lab ID: WG5369-1
Client ID: WG5369-Blank
SDG: WU0050
Extracted by: NB
Extraction Method: SW846 3550
Analyst: JCG
Analysis Method: SW846 8270C
Lab Prep Batch: WG5369
Units: ug/Kg

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
85-68-7	Butylbenzylphthalate	U	330	1.0	330	330	93
91-94-1	3,3'-Dichlorobenzidine	U	330	1.0	330	330	160
117-81-7	bis(2-Ethylhexyl)phthalate	U	330	1.0	330	330	140
117-84-0	Di-n-octylphthalate	U	330	1.0	330	330	190
367-12-4	2-Fluorophenol		74%				
13127-88-3	Phenol-D6		63%				
4165-60-0	Nitrobenzene-D5		67%				
321-60-8	2-Fluorobiphenyl		67%				
118-79-6	2,4,6-Tribromophenol		50%				
1718-51-0	Terphenyl-D14		79%				

FORM 5
SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO91 NS MAYPORT SDG No.: WU0050

Lab File ID: XD154 DFTPP Injection Date: 01/09/04

Instrument ID: GCMS-X DFTPP Injection Time: 1508

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	38.2
68	Less than 2.0% of mass 69	0.0 (0.0)1
69	Less than 100.0% of mass 198	52.0
70	Less than 2.0% of mass 69	0.2 (0.4)1
127	40.0 - 60.0% of mass 198	51.9
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.9
275	10.0 - 30.0% of mass 198	24.1
365	1.0 - 100.0% of mass 198	2.2
441	0.0 - 100.0% of mass 443	10.9 (94.6)2
442	40.0 - 100.0% of mass 198	58.4
443	17.0 - 23.0% of mass 442	11.5 (19.7)3

1-Value is % mass 69 2-Value is % mass 443
3-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01		SSTD050X0109	X4035	01/09/04	1551
02		SSTD200X0109	X4037	01/09/04	1727
03		SSTD160X0109	X4039	01/09/04	1903
04		SSTD120X0109	X4041	01/09/04	2039
05		SSTD020X0109	X4043	01/09/04	2216
06		SSTD010X0109	X4045	01/09/04	2351
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					

FORM V SV

FORM 5
SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO91 NS MAYPORT SDG No.: WU0050

Lab File ID: XD160 DFTPP Injection Date: 01/15/04

Instrument ID: GCMS-X DFTPP Injection Time: 1600

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	43.3
68	Less than 2.0% of mass 69	0.0 (0.0)1
69	Less than 100.0% of mass 198	56.6
70	Less than 2.0% of mass 69	0.0 (0.0)1
127	40.0 - 60.0% of mass 198	49.1
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	7.8
275	10.0 - 30.0% of mass 198	24.8
365	1.0 - 100.0% of mass 198	2.2
441	0.0 - 100.0% of mass 443	12.4 (94.2)2
442	40.0 - 100.0% of mass 198	67.2
443	17.0 - 23.0% of mass 442	13.2 (19.6)3

1-Value is % mass 69 2-Value is % mass 443
3-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01		SSTD050X0115	X4122	01/15/04	1624
02	WG5369-BLANK	WG5369-1RA	X4126	01/15/04	1935
03	MPT-45-A1-2'	WU0050-1	X4127	01/15/04	2023
04	MPT-45-A2-2'	WU0050-2	X4128	01/15/04	2110
05	MPT-45-A3-2'	WU0050-3	X4129	01/15/04	2158
06	MPT-45-A4-2'	WU0050-4	X4130	01/15/04	2246
07	MPT-45-B1-2'	WU0050-5	X4131	01/15/04	2333
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					

FORM V SV

FORM 7B
SEMIVOLATILE CALIBRATION VERIFICATION SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO91 NS MAYPORT SDG No.: WU0050

Instrument ID: GCMS-X Calibration Date: 01/15/04 Time: 1624

Lab File ID: X4122 Init. Calib. Date(s): 01/09/04 01/09/04

Init. Calib. Times: 1551 2351

GC Column: DB5-MS ID: 0.25 (mm)

COMPOUND	RRF or AMOUNT	RRF50.000 or AMOUNT	CCAL RRF50.000	MIN RRF	%D or %DRIFT	MAX %D or %DRIFT	CURV TYPE
Phenol	45.631000	50.000000	1.0339000	0.01	-8.74	20.00	2RDR
Bis(2-Chloroethyl)ether	39.825000	50.000000	0.7963600	0.01	-20.35	100.00	2RDR
2-Chlorophenol	48.203000	50.000000	0.8651200	0.01	-3.59	100.00	LINR
1,3-Dichlorobenzene	52.728000	50.000000	1.1840000	0.01	5.46	100.00	LINR
1,4-Dichlorobenzene	52.358000	50.000000	1.1199000	0.01	4.72	20.00	LINR
1,2-Dichlorobenzene	45.170000	50.000000	1.0446000	0.01	-9.66	100.00	2RDR
2,2'-Oxybis(1-Chloropropane)	44.274000	50.000000	1.0662000	0.01	-11.45	100.00	2RDR
2-Methylphenol	43.360000	50.000000	0.7207600	0.01	-13.28	100.00	LINR
Hexachloroethane	39.748000	50.000000	0.3794300	0.01	-20.50	100.00	2RDR
N-Nitroso-di-n-propylamine	44.113000	50.000000	0.5281000	0.05	-11.77	100.00	LINR
4-Methylphenol	36.230000	50.000000	0.7174200	0.01	-27.54	100.00	2RDR
Nitrobenzene	0.2710000	0.2377700	0.2377700	0.01	-12.26	100.00	AVRG
Isophorone	0.5120000	0.4665700	0.4665700	0.01	-8.87	100.00	AVRG
2-Nitrophenol	0.1750000	0.1513100	0.1513100	0.01	-13.54	20.00	AVRG
2,4-Dimethylphenol	0.2900000	0.2423000	0.2423000	0.01	-16.45	100.00	AVRG
Bis(2-Chloroethoxy)methane	0.3360000	0.3061600	0.3061600	0.01	-8.88	100.00	AVRG
2,4-Dichlorophenol	0.2580000	0.2175000	0.2175000	0.01	-15.70	20.00	AVRG
1,2,4-Trichlorobenzene	42.702000	50.000000	0.2442000	0.01	-14.60	100.00	LINR
4-Chloroaniline	0.3280000	0.2839800	0.2839800	0.01	-13.42	100.00	AVRG
Hexachlorobutadiene	0.1690000	0.1479500	0.1479500	0.01	-12.46	20.00	AVRG
4-Chloro-3-Methylphenol	0.2340000	0.2002400	0.2002400	0.01	-14.43	20.00	AVRG
Hexachlorocyclopentadiene	0.3060000	0.2836800	0.2836800	0.05	-7.29	100.00	AVRG
2,4,6-Trichlorophenol	0.3040000	0.2755200	0.2755200	0.01	-9.37	20.00	AVRG
2,4,5-Trichlorophenol	0.3180000	0.2886100	0.2886100	0.01	-9.24	100.00	AVRG
2-Chloronaphthalene	39.430000	50.000000	0.7261500	0.01	-21.14	100.00	2RDR
2-Nitroaniline	0.2080000	0.2053200	0.2053200	0.01	-1.29	100.00	AVRG
Dimethyl Phthalate	44.762000	50.000000	0.9214100	0.01	-10.48	100.00	2RDR
2,6-Dinitrotoluene	0.2230000	0.1981100	0.1981100	0.01	-11.16	100.00	AVRG
3-Nitroaniline	0.2120000	0.1979700	0.1979700	0.01	-6.62	100.00	AVRG

FORM 7B
SEMIVOLATILE CALIBRATION VERIFICATION SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO91 NS MAYPORT SDG No.: WU0050

Instrument ID: GCMS-X Calibration Date: 01/15/04 Time: 1624

Lab File ID: X4122 Init. Calib. Date(s): 01/09/04 01/09/04

Init. Calib. Times: 1551 2351

GC Column: DB5-MS ID: 0.25 (mm)

COMPOUND	RRF or AMOUNT	RRF50.000 or AMOUNT	CCAL RRF50.000	MIN RRF	%D or %DRIFT	MAX %D or %DRIFT	CURV TYPE	
2,4-Dinitrophenol	47.256000	50.000000	0.1018400	0.05	-5.49	100.00	2RDR	
Dibenzofuran	42.313000	50.000000	1.0513000	0.01	-15.37	100.00	2RDR	
4-Nitrophenol	45.508000	50.000000	8.98e-002	0.05	-8.98	100.00	LINR	
2,4-Dinitrotoluene	0.3010000	0.2842500	0.2842500	0.01	-5.56	100.00	AVRG	
Diethylphthalate	41.464000	50.000000	0.8387400	0.01	-17.07	100.00	2RDR	
4-Chlorophenyl-phenylether	45.826000	50.000000	0.3951900	0.01	-8.35	100.00	LINR	
4-Nitroaniline	46.027000	50.000000	0.1793800	0.01	-7.95	100.00	LINR	
4,6-Dinitro-2-Methylphenol	44.551000	50.000000	9.14e-002	0.01	-10.90	100.00	LINR	
N-Nitrosodiphenylamine	39.084000	50.000000	0.3377700	0.01	-21.83	20.00	2RDR	<-
4-Bromophenyl-phenylether	0.1850000	0.1574000	0.1574000	0.01	-14.92	100.00	AVRG	
Hexachlorobenzene	0.2060000	0.1814000	0.1814000	0.01	-11.94	100.00	AVRG	
Pentachlorophenol	0.1200000	0.1045400	0.1045400	0.01	-12.88	20.00	AVRG	
Carbazole	38.343000	50.000000	0.5733900	0.01	-23.31	100.00	2RDR	
Di-n-butylphthalate	37.803000	50.000000	0.8099200	0.01	-24.39	100.00	2RDR	
Butylbenzylphthalate	0.5410000	0.4275100	0.4275100	0.01	-20.98	100.00	AVRG	
3,3'-Dichlorobenzidine	0.1650000	0.1658800	0.1658800	0.01	0.53	100.00	AVRG	
bis(2-Ethylhexyl)phthalate	0.7150000	0.5861000	0.5861000	0.01	-18.03	100.00	AVRG	
Di-n-octylphthalate	1.5180000	1.5739000	1.5739000	0.01	3.68	20.00	AVRG	
2-Fluorophenol	0.8820000	0.9532800	0.9532800	0.01	8.08	100.00	AVRG	
Phenol-D6	0.9840000	1.0006000	1.0006000	0.01	1.69	100.00	AVRG	
Nitrobenzene-D5	0.2900000	0.2449000	0.2449000	0.01	-15.55	100.00	AVRG	
2-Fluorobiphenyl	38.390000	50.000000	0.8580600	0.01	-23.22	100.00	2RDR	
2,4,6-Tribromophenol	0.1410000	0.1461400	0.1461400	0.01	3.64	100.00	AVRG	
Terphenyl-D14	0.7550000	0.5885400	0.5885400	0.01	-22.05	100.00	AVRG	

X-VALUE	Y-VALUE		CORREL	SLOPE
302800	10		0.990811	2.40921E-05
562030	20		Y-INTERC	
1808400	50		4.500239	
4906100	120			
7126400	160			
7417600	200			
1025861	29.9377			

$$\frac{(29.94\ ug/mL)(1mL)}{(30g)(0.914)} = 1.091\ ug/g = 1091\ ug/kg$$

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO91 NS MAYPORT
PO No:
Sample Date: 01/05/04
Received Date: 01/09/04
Extraction Date: 01/12/04
Analysis Date: 01/16/04
Report Date: 01/19/2004
Matrix: SOIL
% Solids: 91.4

Lab ID: WU0050-7
Client ID: MPT-45-B3-2'
SDG: WU0050
Extracted by: NB
Extraction Method: SW846 3550
Analyst: JCG
Analysis Method: SW846 8270C
Lab Prep Batch: wg5369
Units: ug/Kg

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
108-95-2	Phenol	U	360	1.0	330	360	75
111-44-4	Bis(2-Chloroethyl)ether	U	360	1.0	330	360	37
95-57-8	2-Chlorophenol	U	360	1.0	330	360	140
541-73-1	1,3-Dichlorobenzene	U	360	1.0	330	360	38
106-46-7	1,4-Dichlorobenzene	U	360	1.0	330	360	38
95-50-1	1,2-Dichlorobenzene	U	360	1.0	330	360	41
108-60-1	2,2'-Oxybis(1-Chloropropane)	U	360	1.0	330	360	38
95-48-7	2-Methylphenol	U	360	1.0	330	360	89
67-72-1	Hexachloroethane	U	360	1.0	330	360	30
621-64-7	N-Nitroso-di-n-propylamine	U	360	1.0	330	360	33
106-44-5	4-Methylphenol	U	360	1.0	330	360	82
98-95-3	Nitrobenzene	U	360	1.0	330	360	38
78-59-1	Isophorone	U	360	1.0	330	360	29
88-75-5	2-Nitrophenol	U	360	1.0	330	360	96
105-67-9	2,4-Dimethylphenol	U	360	1.0	330	360	86
111-91-1	Bis(2-Chloroethoxy)methane	U	360	1.0	330	360	29
120-83-2	2,4-Dichlorophenol	U	360	1.0	330	360	95
120-82-1	1,2,4-Trichlorobenzene	U	360	1.0	330	360	56
106-47-8	4-Chloroaniline	U	360	1.0	330	360	26
87-68-3	Hexachlorobutadiene	U	360	1.0	330	360	62
59-50-7	4-Chloro-3-Methylphenol	U	360	1.0	330	360	77
77-47-4	Hexachlorocyclopentadiene	U	360	1.0	330	360	28
88-06-2	2,4,6-Trichlorophenol	U	360	1.0	330	360	99
95-95-4	2,4,5-Trichlorophenol	U	900	1.0	820	900	97
91-58-7	2-Chloronaphthalene	U	360	1.0	330	360	34
88-74-4	2-Nitroaniline	U	900	1.0	820	900	73
131-11-3	Dimethyl Phthalate	U	360	1.0	330	360	32
606-20-2	2,6-Dinitrotoluene	U	360	1.0	330	360	54
99-09-2	3-Nitroaniline	U	900	1.0	820	900	68
51-28-5	2,4-Dinitrophenol	U	900	1.0	820	900	180
132-64-9	Dibenzofuran	U	360	1.0	330	360	48
100-02-7	4-Nitrophenol	U	900	1.0	820	900	150
121-14-2	2,4-Dinitrotoluene	U	360	1.0	330	360	44
84-66-2	Diethylphthalate	U	360	1.0	330	360	36
7005-72-3	4-Chlorophenyl-phenylether	U	360	1.0	330	360	43
100-01-6	4-Nitroaniline	U	900	1.0	820	900	100
534-52-1	4,6-Dinitro-2-Methylphenol	U	900	1.0	820	900	72
86-30-6	N-Nitrosodiphenylamine	U	360	1.0	330	360	70
101-55-3	4-Bromophenyl-phenylether	U	360	1.0	330	360	46
118-74-1	Hexachlorobenzene	U	360	1.0	330	360	97
87-86-5	Pentachlorophenol	U	900	1.0	820	900	160
86-74-8	Carbazole	J	340	1.0	330	360	28
84-74-2	Di-n-butylphthalate		930	1.0	330	360	45

Data File: \\Target_server\GG\chem\gcms-u.i\U011604.b\U5909.D
Report Date: 19-Jan-2004 15:11

Katahdin Analytical Services

Data file : \\Target_server\GG\chem\gcms-u.i\U011604.b\U5909.D
Lab Smp Id: WU0050-7 Client Smp ID: MPT-45-B3-2'
Inj Date : 16-JAN-2004 12:23 MS Autotune Date: 07-JAN-2004 10:56
Operator : JCG Inst ID: gcms-u.i
Smp Info : WU0050-7
Misc Info : SW846 8270C
Comment :
Method : \\Target_server\GG\chem\gcms-u.i\U011604.b\U8270C18.m
Meth Date : 16-Jan-2004 11:57 cgomez Quant Type: ISTD
Cal Date : 12-JAN-2004 13:36 Cal File: U5851.D
Als bottle: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: tetrat91001.sub
Target Version: 4.12

Concentration Formula: Amt * DF * 1000*Vt*(1/Vo)*(100/(100-M)) * CpndVariabl

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.00100	Volume of final extract (L)
Vo	0.03000	Sample Weight
M	8.632	% Moisture
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (ug/Kg)
$	4 2-Fluorophenol	112	7.177	7.131	(0.743)	996481	88.0390	3210
$	6 Phenol-D6	99	9.073	9.059	(0.940)	1420851	82.9332	3020
*	12 1,4-Dichlorobenzene-D4	152	9.656	9.647	(1.000)	364506	40.0000	
$	22 Nitrobenzene-D5	82	10.981	10.972	(0.876)	746290	43.9124	1600
*	30 Naphthalene-D8	136	12.530	12.526	(1.000)	1716822	40.0000	
$	42 2-Fluorobiphenyl	172	15.163	15.160	(0.907)	633082	28.9694	1060
*	50 Acenaphthene-D10	164	16.723	16.725	(1.000)	915565	40.0000	
$	64 2,4,6-Tribromophenol	332	18.652	18.654	(1.115)	152873	65.3086	2380
*	69 Phenanthrene-D10	188	20.238	20.235	(1.000)	1453223	40.0000	
	72 Carbazole	167	20.858	20.860	(1.031)	9172	9.46915	345(a)
	73 Di-n-butylphthalate	149	21.900	21.902	(1.082)	1025861	25.4757	929
$	77 Terphenyl-D14	244	24.165	24.161	(0.908)	684921	38.2068	1390
*	81 Chrysene-D12	240	26.628	26.624	(1.000)	914395	40.0000	
	84 bis(2-Ethylhexyl)phthalate	149	26.927	26.929	(1.011)	164351	6.99030	255(a)
	85 Di-n-octylphthalate	149	28.326	28.318	(0.950)	18597	9.34049	341(a)
*	89 Perylene-D12	264	29.822	29.819	(1.000)	428195	40.0000	

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

FORM 6
SEMIVOLATILE INITIAL CALIBRATION DATA

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project CTO91 NS MAYPORT SDG No.: WU0050

Instrument ID: GCMS-U Calibration Date(s): 01/12/04 01/12/04

Column: RTX-5SILMS ID: 0.25 (mm) Calibration Time(s): 0938 1336

LAB FILE ID: RF10: U5851 RF20: U5850 RF50: U5846
RF120: U5849 RF160: U5848 RF200: U5847

COMPOUND	RF10	RF20	RF50	RF120	RF160	RF200	CURVE	COEFFICENTS A0	A1	A2	%RSD OR R^2	MAX %RSD OR R^2	
Phenol	2.199	1.962	2.499	2.278	2.314	2.319	AVRG		2.26173		7.812	15.000	
Bis(2-Chloroethyl)ether	1.713	1.532	1.796	1.626	1.696	1.758	AVRG		1.68687		5.649	15.000	
2-Chlorophenol	1.240	1.082	1.378	1.278	1.348	1.366	AVRG		1.28173		8.716	15.000	
1,3-Dichlorobenzene	1.478	1.164	1.671	1.416	1.705	1.742	AVRG		1.52925		14.484	15.000	
1,4-Dichlorobenzene	1.536	1.230	1.736	1.470	1.779	1.809	AVRG		1.59333		14.087	15.000	
1,2-Dichlorobenzene	152600	270310	919520	2529200	3761700	4169300	LINR	0.14520	0.55070		0.99609	0.99000	
2,2'-Oxybis(1-Chloropropane)	252080	489290	1190400	2827400	3414900	3622300	LINR	-0.2881	0.65829		0.99029	0.99000	
2-Methylphenol	1.215	1.107	1.455	1.429	1.484	1.508	AVRG		1.36632		12.058	15.000	
Hexachloroethane	0.568	0.493	0.647	0.668	0.651	0.644	AVRG		0.61187		11.049	15.000	
N-Nitroso-di-n-propylamine	1.227	1.161	1.354	1.054	0.971	0.927	AVRG		1.11555		14.534	15.000	
4-Methylphenol	1.195	1.125	1.510	1.586	1.565	1.528	AVRG		1.41813		14.310	15.000	
Nitrobenzene	0.415	0.355	0.432	0.392	0.408	0.422	AVRG		0.40401		6.785	15.000	
Isophorone	0.689	0.648	0.750	0.688	0.703	0.718	AVRG		0.69959		4.841	15.000	
2-Nitrophenol	50196	108620	328070	942320	1291700	1429100	LINR	0.17676	6.02147		0.99559	0.99000	
2,4-Dimethylphenol	0.291	0.268	0.350	0.343	0.360	0.378	AVRG		0.33164		12.892	15.000	
Bis(2-Chloroethoxy)methane	0.436	0.396	0.494	0.472	0.482	0.502	AVRG		0.46371		8.732	15.000	
2,4-Dichlorophenol	66183	142580	457830	1462700	2047600	2288300	LINR	0.26106	3.71337		0.99380	0.99000	
1,2,4-Trichlorobenzene	82507	166020	522760	1534400	2181900	2450000	LINR	0.23373	3.50242		0.99196	0.99000	
4-Chloroaniline	129170	265300	815880	2178900	3177800	3439000	LINR	0.17709	2.49502		0.99261	0.99000	
Hexachlorobutadiene	37657	77670	239170	744480	1058400	1189600	LINR	0.25837	7.17684		0.99196	0.99000	
4-Chloro-3-Methylphenol	0.256	0.212	0.272	0.231	0.256	0.266	AVRG		0.24889		9.207	15.000	
Hexachlorocyclopentadiene	32220	60651	219350	606900	1048800	1132100	2ORDR	0.11729	5.45366	-1.4400	0.99276	0.99000	
2,4,6-Trichlorophenol	46620	89235	278560	839490	1196400	1316000	LINR	0.26840	3.07349		0.99082	0.99000	
2,4,5-Trichlorophenol	44914	88231	287890	749240	1030700	1113000	LINR	0.16333	3.67669		0.99432	0.99000	
2-Chloronaphthalene	192760	391470	1307000	3689400	4479600	4727000	LINR	9.e-002	0.85569		0.99846	0.99000	
2-Nitroaniline	0.367	0.307	0.403	0.353	0.396	0.404	AVRG		0.37174		10.204	15.000	
Dimethyl Phthalate	195380	375080	1114100	3309200	4409500	4747300	LINR	0.18029	0.85545		0.99670	0.99000	
2,6-Dinitrotoluene	35104	70603	207100	617170	854600	917400	LINR	0.21237	4.40968		0.99500	0.99000	
3-Nitroaniline	43544	86356	302150	856920	1395000	1430400	2ORDR	0.11902	3.84324	-0.6342	0.99418	0.99000	
2,4-Dinitrophenol	0.030	0.032	0.068	0.066	0.088	0.089	AVRG		6e-002		41.935	15.000	<-
Dibenzofuran	239590	455400	1424400	4100100	5785300	6117200	LINR	0.20741	0.65906		0.99494	0.99000	
4-Nitrophenol	18129	33987	117220	276900	446250	442130	2ORDR	4e-002	11.5458	-4.7231	0.99026	0.99000	
2,4-Dinitrotoluene	44513	85652	260770	745700	1081700	1145000	LINR	0.22499	3.51916		0.99286	0.99000	
Diethylphthalate	1.008	0.824	1.993	1.225	1.185	1.472	AVRG		1.28446		31.885	15.000	<-
4-Chlorophenyl-phenylether	76237	152060	476990	1503800	2153400	2333900	LINR	0.28206	1.71837		0.99204	0.99000	
4-Nitroaniline	0.129	0.115	0.187	0.140	0.204	0.193	AVRG		0.16145		23.362	15.000	<-
4,6-Dinitro-2-Methylphenol	13433	26892	108750	323400	567000	594250	2ORDR	0.19159	11.6999	-5.9768	0.99737	0.99000	
N-Nitrosodiphenylamine	127120	237940	767100	2301200	3432400	3672800	LINR	0.23999	1.38709		0.99615	0.99000	
4-Bromophenyl-phenylether	39706	74867	242150	732480	1120100	1228300	LINR	0.28261	4.16049		0.99269	0.99000	
Hexachlorobenzene	42403	76557	257870	754350	1227600	1322300	LINR	0.30608	3.84188		0.99049	0.99000	
Pentachlorophenol	14780	30221	134960	344430	619600	658670	2ORDR	0.15353	10.9101	-5.2956	0.99616	0.99000	
Carbazole	187640	315810	1007300	2641000	4479000	4507300	LINR	0.22966	1.11991		0.99206	0.99000	
Di-n-butylphthalate	302800	562030	1808400	4906100	7126400	7417600	LINR	0.14966	0.69020		0.99894	0.99000	
Butylbenzylphthalate	0.640	0.577	0.695	0.750	0.678	0.746	AVRG		0.68103		9.646	15.000	

FORM 5
SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO91 NS MAYPORT SDG No.: WU0050

Lab File ID: KD252 DFTPP Injection Date: 01/16/04

Instrument ID: GCMS-K DFTPP Injection Time: 1044

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	58.4
68	Less than 2.0% of mass 69	0.0 (0.0)1
69	Less than 100.0% of mass 198	60.6
70	Less than 2.0% of mass 69	0.2 (0.4)1
127	40.0 - 60.0% of mass 198	41.2
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	7.2
275	10.0 - 30.0% of mass 198	20.8
365	1.0 - 100.0% of mass 198	2.7
441	0.0 - 100.0% of mass 443	7.2 (62.0)2
442	40.0 - 100.0% of mass 198	58.9
443	17.0 - 23.0% of mass 442	11.6 (19.7)3

1-Value is % mass 69 2-Value is % mass 443
3-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01		SSTD1.25K0116	K6115	01/16/04	1123
02		SSTD3.00K0116	K6116	01/16/04	1218
03		SSTD2.50K0116	K6117	01/16/04	1308
04		SSTD2.00K0116	K6118	01/16/04	1359
05		SSTD0.625K0116	K6119	01/16/04	1449
06		SSTD0.20K0116	K6121	01/16/04	1630
07	MPT-45-A1-2'	WU0050-17	K6123	01/16/04	1811
08	MPT-45-A2-2'	WU0050-18	K6124	01/16/04	1901
09	MPT-45-A3-2'	WU0050-19	K6125	01/16/04	1952
10	MPT-45-A4-2'	WU0050-20	K6126	01/16/04	2043
11	MPT-45-B1-2'	WU0050-21	K6127	01/16/04	2134
12					
13					
14					
15					
16					
17					
18					
19					
20					

FORM 6
SEMIVOLATILE INITIAL CALIBRATION DATA

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project CTO91 NS MAYPORT SDG No.: WU0050

Instrument ID: GCMS-K Calibration Date(s): 01/16/04 01/16/04

Column: DB5-MS ID: 0.25 (mm) Calibration Time(s): 1123 1630

LAB FILE ID: RF0.2: K6121 RF0.625: K6119 RF1.25: K6115
RF2: K6118 RF2.5: K6117 RF3: K6116

								COEFFICENTS			%RSD	MAX %RSD
COMPOUND	RF0.2	RF0.625	RF1.25	RF2	RF2.5	RF3	CURVE	A0	A1	A2	OR R^2	OR R^2
Naphthalene	0.845	0.769	0.741	0.741	0.708	0.717	AVRG		0.75335		6.607	15.000
2-Methylnaphthalene	2924	14366	31257	50717	66759	85523	LINR	0.14874	2.50247		0.99911	0.99000
Acenaphthylene	0.982	0.947	0.912	1.087	0.987	1.119	AVRG		1.00556		8.021	15.000
Acenaphthene	6387	17051	30659	44919	60220	74632	LINR	-9e-002	1.40397		0.99583	0.99000
Fluorene	0.731	0.721	0.747	0.794	0.756	0.842	AVRG		0.76526		5.918	15.000
Phenanthrene	0.484	0.534	0.652	0.664	0.655	0.610	AVRG		0.59983		12.414	15.000
Anthracene	0.582	0.693	0.678	0.771	0.736	0.668	AVRG		0.68807		9.416	15.000
Fluoranthene	0.510	0.506	0.539	0.537	0.568	0.524	AVRG		0.53077		4.239	30.000
Pyrene	1.977	1.668	1.567	1.719	1.503	1.501	AVRG		1.65606		10.882	15.000
Benzo(a)anthracene	0.334	0.427	0.451	0.440	0.425	0.468	AVRG		0.42410		11.016	15.000
Chrysene	1.493	1.259	1.097	1.081	1.068	1.036	AVRG		1.17254		14.961	15.000
Benzo(b)fluoranthene	756	3472	11833	12290	25588	28472	2ORDR	0.13057	1.36348	-8e-002	0.99003	0.99000
Benzo(k)fluoranthene	1.330	1.443	1.460	1.815	1.673	1.832	AVRG		1.59238		13.234	15.000
Benzo(a)pyrene	0.859	1.021	0.844	0.956	0.906	0.960	AVRG		0.92451		7.297	30.000
Indeno(1,2,3-cd)pyrene	0.995	0.718	0.803	0.795	0.808	0.838	AVRG		0.82609		11.118	15.000
Dibenzo(a,h)anthracene	644	2860	7224	9646	17175	19547	LINR	0.20425	1.59251		0.99674	0.99000
Benzo(g,h,i)perylene	0.834	1.200	0.946	0.947	0.988	0.991	AVRG		0.98436		12.197	15.000
2-Methylnaphthalene-d10	0.295	0.302	0.292	0.305	0.290	0.296	AVRG		0.29645		1.936	35.000
Fluorene-d10	0.640	0.701	0.696	0.811	0.768	0.820	AVRG		0.73921		9.701	35.000
Pyrene-d10	0.828	1.100	0.989	1.154	1.020	1.042	AVRG		1.02215		10.951	35.000

Average %RSD test result.

Calculate Average %RSD: 11.80177307
Maximum Average %RSD: 30.00000000

Note: Passes Average %RSD Test.

FORM VI SV

FORM 2
SOIL SEMIVOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO91 NS MAYPORT SDG No.: WU0050

Level: (low/med) LOW

	CLIENT SAMPLE ID	LAB SAMPLE ID	S1 #	S2 #	S3 #	S4 #	S5 #	S6 #	S7 #	S8 #	TOT OUT
01	MPT-45-A1-2'	WU0050-17	87	89	89						0
02	MPT-45-A2-2'	WU0050-18	100	95	95						0
03	MPT-45-A3-2'	WU0050-19	111	91	93						0
04	MPT-45-A4-2'	WU0050-20	129	88	92						0
05	MPT-45-B1-2'	WU0050-21	90	75	94						0
06	MPT-45-B2-2'	WU0050-22	97	96	99						0
07	MPT-45-B3-2'	WU0050-23	93	85	84						0
08	MPT-45-B4-2'	WU0050-24	96	94	93						0
09	MPT-45-C1-2'	WU0050-25	85	77	89						0
10	MPT-45-C2-2'	WU0050-26	85	84	92						0
11	MPT-45-C3-2'	WU0050-27	85	68	90						0
12	MPT-45-C4-2'	WU0050-28	68	63	67						0
13	MPT-45-D3-2'	WU0050-29RA	71	67	73						0
14	MPT-45-D4-2'	WU0050-30RA	66	65	80						0
15	MPT-45-E4-2'	WU0050-31RA	66	62	94						0
16	MPT-45-E4-5'	WU0050-32RA	64	70	94						0
17	MPT-45-A1-2'	WU0050-17RA	90	78	99						0
18	MPT-45-A3-2'	WU0050-19RA	104	83	96						0
19	MPT-45-A4-2'	WU0050-20RA	120	76	106						0
20	MPT-45-A2-2'	WU0050-18DL	87	73	111						0
21	MPT-45-B1-2'	WU0050-21DL	D	D	D						0
22	MPT-45-B2-2'	WU0050-22DL	93	76	122						0
23	MPT-45-C1-2'	WU0050-25DL	74	72	104						0
24	MPT-45-D3-2'	WU0050-29DL	D	D	D						0
25	WG5370-BLANK	WG5370-1RA	71	78	92						0
26	WG5370-LCSD	WG5370-3RA	57	59	67						0
27	MPT-45-C2-2'	WU0050-26DL2	75	82	96						0
28	MPT-45-C3-2'	WU0050-27DL2	73	78	93						0

		QC LIMITS
S1	= 2-Methylnaphthalene-d1	(30-150)
S2	= Fluorene-d10	(30-150)
S3	= Pyrene-d10	(30-150)

Column to be used to flag recovery values
* Values outside of contract required QC limits
D Surrogate diluted out

FORM 2
SOIL SEMIVOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO91 NS MAYPORT SDG No.: WU0050

Level:(low/med) LOW

	CLIENT SAMPLE ID	LAB SAMPLE ID	S1 #	S2 #	S3 #	S4 #	S5 #	S6 #	S7 #	S8 #	TOT OUT
01	MPT-45-C4-2'	WU0050-28DL2	D	D	D						0
02	WG5370-LCS	WG5370-2RA	81	80	86						0
03											
04											
05											
06											
07											
08											
09											
10											
11											
12											
13											
14											
15											
16											
17											
18											
19											
20											
21											
22											
23											
24											
25											
26											
27											
28											

		QC LIMITS
S1	= 2-Methylnaphthalene-d1	(30-150)
S2	= Fluorene-d10	(30-150)
S3	= Pyrene-d10	(30-150)

Column to be used to flag recovery values
* Values outside of contract required QC limits
D Surrogate diluted out

FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO91 NS MAYPORT SDG No.: WU0050

Lab File ID (Standard): K6115 Date Analyzed: 01/16/04

Instrument ID: GCMS-K Time Analyzed: 1123

		IS1(DCB) AREA #	RT #	IS2(NPT) AREA #	RT #	IS3(ANT) AREA #	RT #
12 HOUR STD		18058	8.13	58072	10.91	27558	15.00
UPPER LIMIT		36116	8.63	116144	11.41	55116	15.50
LOWER LIMIT		9029	7.63	29036	10.41	13779	14.50
	CLIENT SAMPLE ID	LAB SAMPLE ID					
01	MPT-45-A1-2'	WU0050-17	28146	8.12	83961	10.91	39236	15.00
02	MPT-45-A2-2'	WU0050-18	27874	8.13	84453	10.91	42809	15.00
03	MPT-45-A3-2'	WU0050-19	32152	8.14	95073	10.94	56734*	15.00
04	MPT-45-A4-2'	WU0050-20	28488	8.14	88058	10.93	54839	15.00
05	MPT-45-B1-2'	WU0050-21	31451	8.13	96832	10.91	55991*	15.00
06								
07								
08								
09								
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								

IS1 (DCB) = 1,4-Dichlorobenzene-D4
IS2 (NPT) = Naphthalene-D8
IS3 (ANT) = Acenaphthene-D10

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO91 NS MAYPORT SDG No.: WU0050

Lab File ID (Standard): K6115 Date Analyzed: 01/16/04

Instrument ID: GCMS-K Time Analyzed: 1123

		IS4(PHN) AREA #	RT #	IS5(CRY) AREA #	RT #	IS6(PRY) AREA #	RT #
12 HOUR STD		38843	18.44	18285	24.71	9171	27.82
UPPER LIMIT		77686	18.94	36570	25.21	18342	28.32
LOWER LIMIT		19422	17.94	9143	24.21	4586	27.32
	CLIENT SAMPLE ID	LAB SAMPLE ID					
01	MPT-45-A1-2'	WU0050-17	69034	18.43	35794	24.71	19790*	27.82
02	MPT-45-A2-2'	WU0050-18	74294	18.44	38089*	24.71	19564*	27.82
03	MPT-45-A3-2'	WU0050-19	97922*	18.44	57244*	24.71	27736*	27.84
04	MPT-45-A4-2'	WU0050-20	86813*	18.44	45564*	24.71	20469*	27.83
05	MPT-45-B1-2'	WU0050-21	98018*	18.44	39702*	24.71	15536	27.84
06								
07								
08								
09								
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								

IS4 (PHN) = Phenanthrene-D10
IS5 (CRY) = Chrysene-D12
IS6 (PRY) = Perylene-D12

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

FORM 5
SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO91 NS MAYPORT SDG No.: WU0050

Lab File ID: KD253 DFTPP Injection Date: 01/17/04

Instrument ID: GCMS-K DFTPP Injection Time: 0927

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	56.8
68	Less than 2.0% of mass 69	0.0 (0.0)1
69	Less than 100.0% of mass 198	60.9
70	Less than 2.0% of mass 69	0.0 (0.0)1
127	40.0 - 60.0% of mass 198	42.6
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	7.5
275	10.0 - 30.0% of mass 198	21.3
365	1.0 - 100.0% of mass 198	3.3
441	0.0 - 100.0% of mass 443	7.3 (51.8)2
442	40.0 - 100.0% of mass 198	73.9
443	17.0 - 23.0% of mass 442	14.0 (19.0)3

1-Value is % mass 69 2-Value is % mass 443
3-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01		SSTD1.25K0117	K6128	01/17/04	0952
02		SSTD3.00K0117	K6129	01/17/04	1044
03		SSTD2.50K0117	K6130	01/17/04	1134
04		SSTD2.00K0117	K6131	01/17/04	1224
05		SSTD0.625K0117	K6132	01/17/04	1315
06		SSTD0.20K0117	K6134	01/17/04	1501
07	MPT-45-B2-2'	WU0050-22	K6135	01/17/04	1605
08	MPT-45-B3-2'	WU0050-23	K6136	01/17/04	1656
09	MPT-45-B4-2'	WU0050-24	K6137	01/17/04	1746
10	MPT-45-C1-2'	WU0050-25	K6138	01/17/04	1837
11	MPT-45-C2-2'	WU0050-26	K6139	01/17/04	1927
12	MPT-45-C3-2'	WU0050-27	K6140	01/17/04	2018
13	MPT-45-C4-2'	WU0050-28	K6141	01/17/04	2109
14					
15					
16					
17					
18					
19					
20					

FORM 6
SEMIVOLATILE INITIAL CALIBRATION DATA

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project CTO91 NS MAYPORT SDG No.: WU0050

Instrument ID: GCMS-K Calibration Date(s): 01/17/04 01/17/04

Column: DB5-MS ID: 0.25 (mm) Calibration Time(s): 0952 1501

LAB FILE ID: RF0.2: K6134 RF0.625: K6132 RF1.25: K6128
RF2: K6131 RF2.5: K6130 RF3: K6129

COMPOUND	RF0.2	RF0.625	RF1.25	RF2	RF2.5	RF3	CURVE	COEFF. A1	%RSD OR R^2	MAX %RSD OR R^2	
Naphthalene	0.734	0.739	0.858	0.670	0.630	0.644	AVRG	0.71227	11.858	15.000	
2-Methylnaphthalene	0.295	0.364	0.441	0.392	0.369	0.377	AVRG	0.37309	12.687	15.000	
Acenaphthylene	1.086	1.316	1.494	1.287	1.128	1.182	AVRG	1.24908	11.971	15.000	
Acenaphthene	0.857	0.966	1.170	0.909	0.853	0.849	AVRG	0.93404	13.282	30.000	
Fluorene	0.885	0.927	1.078	0.876	0.832	0.844	AVRG	0.90693	9.941	15.000	
Phenanthrene	0.540	0.639	0.748	0.618	0.588	0.617	AVRG	0.62491	11.072	15.000	
Anthracene	0.811	0.891	0.846	0.777	0.695	0.732	AVRG	0.79180	9.156	15.000	
Fluoranthene	0.646	0.654	0.691	0.619	0.545	0.563	AVRG	0.61961	9.035	30.000	
Pyrene	1.328	1.606	1.678	1.348	1.380	1.588	AVRG	1.48824	10.278	15.000	
Benzo(a)anthracene	0.514	0.605	0.767	0.603	0.600	0.692	AVRG	0.63041	13.877	15.000	
Chrysene	1.237	1.204	1.093	0.999	0.946	0.963	AVRG	1.07360	11.658	15.000	
Benzo(b)fluoranthene	0.614	0.809	1.297	0.889	0.849	1.105	AVRG	0.92699	25.902	15.000	<-
Benzo(k)fluoranthene	1.411	1.550	1.625	1.478	1.383	1.370	AVRG	1.46968	6.910	15.000	
Benzo(a)pyrene	0.826	0.868	1.037	0.838	0.737	0.858	AVRG	0.86074	11.403	30.000	
Indeno(1,2,3-cd)pyrene	0.555	0.544	0.716	0.618	0.544	0.685	AVRG	0.61037	12.383	15.000	
Dibenzo(a,h)anthracene	0.321	0.464	0.454	0.440	0.405	0.487	AVRG	0.42857	13.847	15.000	
Benzo(g,h,i)perylene	0.407	0.478	0.601	0.533	0.480	0.572	AVRG	0.51181	13.873	15.000	
2-Methylnaphthalene-d10	0.219	0.338	0.404	0.294	0.299	0.309	AVRG	0.31045	19.488	35.000	
Fluorene-d10	0.678	0.895	1.168	0.994	0.867	0.911	AVRG	0.91883	17.489	35.000	
Pyrene-d10	1.185	1.099	1.171	0.988	0.992	1.164	AVRG	1.09998	8.193	35.000	

Average %RSD test result.

Calculate Average %RSD: 12.44882107
Maximum Average %RSD: 30.00000000

Note: Passes Average %RSD Test.

FORM VI SV

FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO91 NS MAYPORT SDG No.: WU0050

Lab File ID (Standard): K6128 Date Analyzed: 01/17/04

Instrument ID: GCMS-K Time Analyzed: 0952

		IS1 (DCB) AREA	#	RT	#	IS2 (NPT) AREA	#	RT	#	IS3 (ANT) AREA	#	RT	#
12 HOUR STD		23485		8.10		85176		10.91		36843		15.00	
UPPER LIMIT		46970		8.60		170352		11.41		73686		15.50	
LOWER LIMIT		11743		7.60		42588		10.41		18422		14.50	
	CLIENT SAMPLE ID	LAB SAMPLE ID											
01	MPT-45-B2-2'	WU0050-22		29137	8.12		93313	10.91		43882		15.00	
02	MPT-45-B3-2'	WU0050-23		30931	8.12		102598	10.91		44950		15.00	
03	MPT-45-B4-2'	WU0050-24		28455	8.11		93474	10.91		44162		15.00	
04	MPT-45-C1-2'	WU0050-25		31681	8.12		105448	10.91		57542		15.00	
05	MPT-45-C2-2'	WU0050-26		32143	8.12		104824	10.91		54794		15.00	
06	MPT-45-C3-2'	WU0050-27		31827	8.12		101848	10.91		55304		15.00	
07	MPT-45-C4-2'	WU0050-28		31490	8.12		101753	10.91		53019		15.00	
08													
09													
10													
11													
12													
13													
14													
15													
16													
17													
18													
19													
20													

IS1 (DCB) = 1,4-Dichlorobenzene-D4
IS2 (NPT) = Naphthalene-D8
IS3 (ANT) = Acenaphthene-D10

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO91 NS MAYPORT SDG No.: WU0050

Lab File ID (Standard): K6128 Date Analyzed: 01/17/04

Instrument ID: GCMS-K Time Analyzed: 0952

		IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
12 HOUR STD		62410	18.42	27867	24.69	12833	27.82
UPPER LIMIT		124820	18.92	55734	25.19	25666	28.32
LOWER LIMIT		31205	17.92	13934	24.19	6417	27.32
	CLIENT SAMPLE ID / LAB SAMPLE ID						
01	MPT-45-B2-2' / WU0050-22	76349	18.44	32739	24.71	15669	27.82
02	MPT-45-B3-2' / WU0050-23	81922	18.42	38001	24.71	20024	27.82
03	MPT-45-B4-2' / WU0050-24	83823	18.43	36440	24.71	17657	27.82
04	MPT-45-C1-2' / WU0050-25	90629	18.42	40969	24.69	20403	27.82
05	MPT-45-C2-2' / WU0050-26	89567	18.44	39842	24.71	22265	27.83
06	MPT-45-C3-2' / WU0050-27	86816	18.44	32016	24.71	15415	27.84
07	MPT-45-C4-2' / WU0050-28	81471	18.44	33788	24.73	20023	27.85
08							
09							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							

IS4 (PHN) = Phenanthrene-D10
IS5 (CRY) = Chrysene-D12
IS6 (PRY) = Perylene-D12

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

FORM 5
SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO91 NS MAYPORT SDG No.: WU0050

Lab File ID: KD254 DFTPP Injection Date: 01/19/04

Instrument ID: GCMS-K DFTPP Injection Time: 1100

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	49.5
68	Less than 2.0% of mass 69	0.0 (0.0)1
69	Less than 100.0% of mass 198	56.4
70	Less than 2.0% of mass 69	0.4 (0.8)1
127	40.0 - 60.0% of mass 198	44.6
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.9
275	10.0 - 30.0% of mass 198	20.0
365	1.0 - 100.0% of mass 198	2.0
441	0.0 - 100.0% of mass 443	6.6 (64.9)2
442	40.0 - 100.0% of mass 198	51.3
443	17.0 - 23.0% of mass 442	10.1 (19.7)3

1-Value is % mass 69 2-Value is % mass 443
3-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01		SSTD1.25K0117	K6146	01/19/04	1128
02	MPT-45-D3-2'	WU0050-29RA	K6147	01/19/04	1247
03	MPT-45-D4-2'	WU0050-30RA	K6148	01/19/04	1337
04	MPT-45-E4-2'	WU0050-31RA	K6149	01/19/04	1427
05	MPT-45-E4-5'	WU0050-32RA	K6150	01/19/04	1517
06	MPT-45-A1-2'	WU0050-17RA	K6151	01/19/04	1607
07	MPT-45-A3-2'	WU0050-19RA	K6152	01/19/04	1657
08	MPT-45-A4-2'	WU0050-20RA	K6153	01/19/04	1747
09	MPT-45-A2-2'	WU0050-18DL	K6154	01/19/04	1836
10	MPT-45-B1-2'	WU0050-21DL	K6155	01/19/04	1927
11	MPT-45-B2-2'	WU0050-22DL	K6156	01/19/04	2017
12	MPT-45-C1-2'	WU0050-25DL	K6157	01/19/04	2107
13	MPT-45-D3-2'	WU0050-29DL	K6158	01/19/04	2158
14					
15					
16					
17					
18					
19					
20					

FORM 7B
SEMIVOLATILE CALIBRATION VERIFICATION SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO91 NS MAYPORT SDG No.: WU0050

Instrument ID: GCMS-K Calibration Date: 01/19/04 Time: 1128

Lab File ID: K6146 Init. Calib. Date(s): 01/17/04 01/17/04

Init. Calib. Times: 0952 1501

GC Column: DB5-MS ID: 0.25 (mm)

COMPOUND	RRF OR AMOUNT	RRF1.2500 OR AMOUNT	MIN RRF	%D OR %DRIFT	MAX %D OR %DRIFT	CURV TYPE
Naphthalene	0.7120000	0.7106400	0.01	-0.19		AVRG
2-Methylnaphthalene	0.3730000	0.3293400	0.01	-11.70		AVRG
Acenaphthylene	1.2490000	1.1957000	0.01	-4.27		AVRG
Acenaphthene	0.9340000	0.8517700	0.01	-8.80	20.00	AVRG
Fluorene	0.9070000	0.7888600	0.01	-13.02		AVRG
Phenanthrene	0.6250000	0.5599200	0.01	-10.41		AVRG
Anthracene	0.7920000	0.8919000	0.01	12.61		AVRG
Fluoranthene	0.6200000	0.5610500	0.01	-9.51	20.00	AVRG
Pyrene	1.4880000	2.2347000	0.01	50.18		AVRG
Benzo(a)anthracene	0.6300000	0.6177800	0.01	-1.94		AVRG
Chrysene	1.0740000	1.2306000	0.01	14.58		AVRG
Benzo(b)fluoranthene	0.9270000	0.7594100	0.01	-18.08		AVRG
Benzo(k)fluoranthene	1.4700000	1.2370000	0.01	-15.85		AVRG
Benzo(a)pyrene	0.8610000	0.7509300	0.01	-12.78	20.00	AVRG
Indeno(1,2,3-cd)pyrene	0.6100000	0.4535900	0.01	-25.64		AVRG
Dibenzo(a,h)anthracene	0.4280000	0.3295900	0.01	-22.99		AVRG
Benzo(g,h,i)perylene	0.5120000	0.4541400	0.01	-11.30		AVRG
2-Methylnaphthalene-d10	0.3100000	0.3137900	0.01	1.22		AVRG
Fluorene-d10	0.9190000	0.8042200	0.01	-12.49		AVRG
Pyrene-d10	1.1000000	1.5770000	0.01	43.36		AVRG

FORM VII PEST

FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO91 NS MAYPORT SDG No.: WU0050

Lab File ID (Standard): K6146 Date Analyzed: 01/19/04

Instrument ID: GCMS-K Time Analyzed: 1128

		IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
12 HOUR STD		21481	8.13	75089	10.94	33005	15.03
UPPER LIMIT		42962	8.63	150178	11.44	66010	15.53
LOWER LIMIT		10741	7.63	37545	10.44	16503	14.53
	CLIENT SAMPLE ID	LAB SAMPLE ID					
01	MPT-45-D3-2'	WU0050-29RA	32251	8.14	97248	10.94	44982	15.03
02	MPT-45-D4-2'	WU0050-30RA	34802	8.14	106830	10.94	50531	15.03
03	MPT-45-E4-2'	WU0050-31RA	32170	8.14	107261	10.93	50314	15.03
04	MPT-45-E4-5'	WU0050-32RA	31586	8.14	104834	10.93	47986	15.03
05	MPT-45-A1-2'	WU0050-17RA	32348	8.14	94524	10.94	47103	15.03
06	MPT-45-A3-2'	WU0050-19RA	30572	8.15	93468	10.93	50321	15.03
07	MPT-45-A4-2'	WU0050-20RA	27951	8.14	86047	10.94	50653	15.03
08	MPT-45-A2-2'	WU0050-18DL	33265	8.13	114804	10.94	55191	15.03
09	MPT-45-B1-2'	WU0050-21DL	22549	8.12	75566	10.94	35208	15.03
10	MPT-45-B2-2'	WU0050-22DL	39340	8.13	126105	10.93	58044	15.03
11	MPT-45-C1-2'	WU0050-25DL	31468	8.13	104375	10.94	47277	15.03
12	MPT-45-D3-2'	WU0050-29DL	24016	8.12	71950	10.94	37625	15.03
13								
14								
15								
16								
17								
18								
19								
20								

IS1 (DCB) = 1,4-Dichlorobenzene-D4
IS2 (NPT) = Naphthalene-D8
IS3 (ANT) = Acenaphthene-D10

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

FORM VIII SV-1

FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO91 NS MAYPORT SDG No.: WU0050

Lab File ID (Standard): K6146 Date Analyzed: 01/19/04

Instrument ID: GCMS-K Time Analyzed: 1128

		IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
12 HOUR STD		43278	18.47	11089	24.75	4604	27.85
UPPER LIMIT		86556	18.97	22178	25.25	9208	28.35
LOWER LIMIT		21639	17.97	5545	24.25	2302	27.35
	CLIENT SAMPLE ID	LAB SAMPLE ID					
01	MPT-45-D3-2'	WU0050-29RA	67243	18.46	25829*	24.75	12737*	27.87
02	MPT-45-D4-2'	WU0050-30RA	77728	18.47	35934*	24.73	14876*	27.85
03	MPT-45-E4-2'	WU0050-31RA	70814	18.47	26526*	24.75	9655*	27.85
04	MPT-45-E4-5'	WU0050-32RA	70969	18.47	30177*	24.75	11484*	27.87
05	MPT-45-A1-2'	WU0050-17RA	65025	18.47	25873*	24.73	10455*	27.85
06	MPT-45-A3-2'	WU0050-19RA	79731	18.47	33713*	24.73	15748*	27.85
07	MPT-45-A4-2'	WU0050-20RA	66940	18.47	26335*	24.75	12189*	27.87
08	MPT-45-A2-2'	WU0050-18DL	86715*	18.47	31914*	24.73	13678*	27.85
09	MPT-45-B1-2'	WU0050-21DL	45904	18.49	15188	24.75	4380	27.87
10	MPT-45-B2-2'	WU0050-22DL	84533	18.46	29183*	24.73	12560*	27.86
11	MPT-45-C1-2'	WU0050-25DL	69332	18.47	25706*	24.73	11711*	27.86
12	MPT-45-D3-2'	WU0050-29DL	50516	18.49	17972	24.75	6659	27.87
13								
14								
15								
16								
17								
18								
19								
20								

IS4 (PHN) = Phenanthrene-D10
IS5 (CRY) = Chrysene-D12
IS6 (PRY) = Perylene-D12

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

FORM 5
SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO91 NS MAYPORT SDG No.: WU0050

Lab File ID: KD260 DFTPP Injection Date: 01/26/04

Instrument ID: GCMS-K DFTPP Injection Time: 0851

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	47.4
68	Less than 2.0% of mass 69	0.0 (0.0)1
69	Less than 100.0% of mass 198	52.0
70	Less than 2.0% of mass 69	0.4 (0.7)1
127	40.0 - 60.0% of mass 198	40.4
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	6.9
275	10.0 - 30.0% of mass 198	20.4
365	1.0 - 100.0% of mass 198	3.0
441	0.0 - 100.0% of mass 443	9.1 (74.8)2
442	40.0 - 100.0% of mass 198	57.6
443	17.0 - 23.0% of mass 442	12.2 (21.2)3

1-Value is % mass 69 2-Value is % mass 443
3-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01		SSTD1.25K0126	K6187	01/26/04	0913
02		SSTD3.00K0126	K6188	01/26/04	1003
03		SSTD2.50K0126	K6189	01/26/04	1053
04		SSTD2.00K0126	K6190	01/26/04	1143
05		SSTD0.625K0126	K6191	01/26/04	1233
06		SSTD0.20K0126	K6192	01/26/04	1324
07	WG5370-BLANK	WG5370-1RA	K6193	01/26/04	1417
08	WG5370-LCSD	WG5370-3RA	K6194	01/26/04	1509
09	MPT-45-C2-2'	WU0050-26DL2	K6195	01/26/04	1600
10	MPT-45-C3-2'	WU0050-27DL2	K6196	01/26/04	1650
11	MPT-45-C4-2'	WU0050-28DL2	K6197	01/26/04	1741
12					
13					
14					
15					
16					
17					
18					
19					
20					

FORM V SV

FORM 6
SEMIVOLATILE INITIAL CALIBRATION DATA

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project CTO91 NS MAYPORT SDG No.: WU0050

Instrument ID: GCMS-K Calibration Date(s): 01/26/04 01/26/04

Column: DB5-MS ID: 0.25 (mm) Calibration Time(s): 0913 1324

LAB FILE ID: RF0.2: K6192 RF0.625: K6191 RF1.25: K6187
RF2: K6190 RF2.5: K6189 RF3: K6188

COMPOUND	RF0.2	RF0.625	RF1.25	RF2	RF2.5	RF3	CURVE	COEFF. A1	%RSD OR R^2	MAX %RSD OR R^2	
Naphthalene	1.026	0.968	0.904	0.903	0.897	0.918	AVRG	0.93602	5.459	15.000	
2-Methylnaphthalene	0.491	0.507	0.532	0.548	0.547	0.518	AVRG	0.52383	4.324	15.000	
Acenaphthylene	1.213	1.258	1.352	1.410	1.434	1.462	AVRG	1.35496	7.405	15.000	
Acenaphthene	1.116	1.121	1.092	1.122	1.100	1.088	AVRG	1.10653	1.354	15.000	
Fluorene	1.013	1.075	1.114	1.161	1.141	1.111	AVRG	1.10259	4.772	15.000	
Phenanthrene	1.250	1.266	1.037	1.185	1.255	1.130	AVRG	1.18717	7.578	15.000	
Anthracene	0.825	0.934	0.649	0.998	0.932	0.895	AVRG	0.87200	14.112	15.000	
Fluoranthene	0.823	0.790	0.649	0.920	0.840	0.758	AVRG	0.79690	11.394	15.000	
Pyrene	2.196	2.079	1.799	1.839	1.633	1.510	AVRG	1.84256	14.084	15.000	
Benzo(a)anthracene	0.934	0.876	0.920	1.015	0.802	0.792	AVRG	0.89010	9.538	15.000	
Chrysene	1.311	1.298	1.192	1.267	1.034	1.041	AVRG	1.19049	10.553	15.000	
Benzo(b)fluoranthene	2.242	2.061	1.965	2.316	2.163	2.228	AVRG	2.16259	5.973	15.000	
Benzo(k)fluoranthene	1.993	2.277	2.375	2.385	2.665	2.524	AVRG	2.36987	9.659	15.000	
Benzo(a)pyrene	1.299	1.337	1.446	1.646	1.693	1.809	AVRG	1.53828	13.479	15.000	
Indeno(1,2,3-cd)pyrene	1.262	0.856	0.950	1.073	1.100	1.131	AVRG	1.06196	13.390	15.000	
Dibenzo(a,h)anthracene	0.859	0.927	0.938	1.091	1.109	1.280	AVRG	1.03409	15.025	15.000	<-
Benzo(g,h,i)perylene	1.318	1.329	1.386	1.403	1.436	1.597	AVRG	1.41144	7.167	15.000	
2-Methylnaphthalene-d10	0.370	0.368	0.364	0.383	0.383	0.391	AVRG	0.37671	2.818	15.000	
Fluorene-d10	0.967	1.009	1.056	1.056	1.066	1.061	AVRG	1.03582	3.825	15.000	
Pyrene-d10	1.278	1.215	1.143	1.167	1.008	0.958	AVRG	1.12828	10.860	15.000	

Average %RSD test result.

Calculate Average %RSD: 8.675208092
Maximum Average %RSD: 30.00000000

Note: Passes Average %RSD Test.

FORM VI SV

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client:
Project: CTO91 NS MAYPORT
PO No:
Sample Date:
Received Date:
Extraction Date: 01/12/04
Analysis Date: 01/26/04
Report Date: 01/28/2004
Matrix: SOIL
% Solids: 100

Lab ID: WG5370-1RA
Client ID: WG5370-Blank
SDG: WU0050
Extracted by: NB
Extraction Method: SW846 3550
Analyst: JCG
Analysis Method: SW846 M8270C
Lab Prep Batch: WG5370
Units: ug/Kg

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
91-20-3	Naphthalene	J	1.3	1.0	20	20	0.89
91-57-6	2-Methylnaphthalene	U	20	1.0	20	20	0.56
208-96-8	Acenaphthylene	U	20	1.0	20	20	0.53
83-32-9	Acenaphthene	U	20	1.0	20	20	0.70
86-73-7	Fluorene	U	20	1.0	20	20	0.61
85-01-8	Phenanthrene	U	20	1.0	20	20	1.5
120-12-7	Anthracene	U	20	1.0	20	20	0.81
206-44-0	Fluoranthene	U	20	1.0	20	20	1.6
129-00-0	Pyrene	U	20	1.0	20	20	1.8
56-55-3	Benzo(a)anthracene	U	20	1.0	20	20	1.0
218-01-9	Chrysene	U	20	1.0	20	20	1.2
205-99-2	Benzo(b)fluoranthene	U	20	1.0	20	20	2.0
207-08-9	Benzo(k)fluoranthene	U	20	1.0	20	20	1.4
50-32-8	Benzo(a)pyrene	U	20	1.0	20	20	0.75
193-39-5	Indeno(1,2,3-cd)pyrene	U	20	1.0	20	20	2.0
53-70-3	Dibenzo(a,h)anthracene	U	20	1.0	20	20	2.0
191-24-2	Benzo(g,h,i)perylene	U	20	1.0	20	20	1.7
7297-45-2	2-Methylnaphthalene-d10		71%				
81103-79-9	Fluorene-d10		78%				
1718-52-1	Pyrene-d10		92%				

FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO91 NS MAYPORT SDG No.: WU0050

Lab File ID (Standard): K6187 Date Analyzed: 01/26/04

Instrument ID: GCMS-K Time Analyzed: 0913

		IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
12 HOUR STD		13586	9.65	43578	12.47	18340	16.60
UPPER LIMIT		27172	10.15	87156	12.97	36680	17.10
LOWER LIMIT		6793	9.15	21789	11.97	9170	16.10
	CLIENT SAMPLE ID	LAB SAMPLE ID					
01	WG5370-BLANK	WG5370-1RA	19767	9.66	65065	12.48	28974	16.61
02	WG5370-LCSD	WG5370-3RA	20013	9.67	66595	12.48	31334	16.61
03	MPT-45-C2-2'	WU0050-26DL2	19824	9.66	66355	12.48	31865	16.61
04	MPT-45-C3-2'	WU0050-27DL2	17874	9.66	57649	12.48	28435	16.61
05	MPT-45-C4-2'	WU0050-28DL2	18539	9.66	60862	12.48	30657	16.61
06								
07								
08								
09								
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								

IS1 (DCB) = 1,4-Dichlorobenzene-D4
IS2 (NPT) = Naphthalene-D8
IS3 (ANT) = Acenaphthene-D10

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

FORM VIII SV-1

FORM 8
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO91 NS MAYPORT SDG No.: WU0050

Lab File ID (Standard): K6187 Date Analyzed: 01/26/04

Instrument ID: GCMS-K Time Analyzed: 0913

		IS4(PHN) AREA #	RT #	IS5(CRY) AREA #	RT #	IS6(PRY) AREA #	RT #
12 HOUR STD		27707	20.05	12814	26.39	6181	29.57
UPPER LIMIT		55414	20.55	25628	26.89	12362	30.07
LOWER LIMIT		13854	19.55	6407	25.89	3091	29.07
	CLIENT SAMPLE ID	LAB SAMPLE ID					
01	WG5370-BLANK	WG5370-1RA	39237	20.05	22882	26.40	8558	29.58
02	WG5370-LCSD	WG5370-3RA	43566	20.05	26467*	26.40	12462*	29.59
03	MPT-45-C2-2'	WU0050-26DL2	51238	20.05	25523	26.40	13863*	29.58
04	MPT-45-C3-2'	WU0050-27DL2	43209	20.05	22766	26.40	14522*	29.58
05	MPT-45-C4-2'	WU0050-28DL2	44780	20.05	24037	26.40	16771*	29.58
06								
07								
08								
09								
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								

IS4 (PHN) = Phenanthrene-D10
IS5 (CRY) = Chrysene-D12
IS6 (PRY) = Perylene-D12

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

FORM VIII SV-2

FORM 5
SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO91 NS MAYPORT SDG No.: WU0050

Lab File ID: KD262 DFTPP Injection Date: 01/28/04

Instrument ID: GCMS-K DFTPP Injection Time: 0918

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	49.4
68	Less than 2.0% of mass 69	0.0 (0.0)1
69	Less than 100.0% of mass 198	57.0
70	Less than 2.0% of mass 69	0.4 (0.7)1
127	40.0 - 60.0% of mass 198	42.1
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	7.1
275	10.0 - 30.0% of mass 198	21.9
365	1.0 - 100.0% of mass 198	2.7
441	0.0 - 100.0% of mass 443	11.5 (90.7)2
442	40.0 - 100.0% of mass 198	63.1
443	17.0 - 23.0% of mass 442	12.7 (20.2)3

1-Value is % mass 69 2-Value is % mass 443
3-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01		SSTD1.25K0128	K6216	01/28/04	0946
02	WG5370-LCS	WG5370-2RA	K6217	01/28/04	1037
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					

FORM V SV

TETRA TECH NUS, INC. **CALCULATION WORKSHEET** PAGE _____ OF _____

CLIENT NS Mayport CTO-091		JOB NUMBER Job-9549 SAG-WV00050	
SUBJECT Sample Calculation			
BASED ON 1		DRAWING NUMBER	
BY Bernard F Spada III	CHECKED BY	APPROVED BY	DATE 2/20/04

Sample MPT-45-DJ-2'

Benzo(a)pyrene = 4900 ug/kg

$$\text{Benzo(a)pyrene} = \frac{(9770)(0.8\ \text{ug/mL})(1\ \text{mL})(100)}{(665)(0.861)(30\text{g})(0.932)} = 4.876\ \text{ug/g} = 4876\ \text{ug/kg}$$

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO91 NS MAYPORT
PO No:
Sample Date: 01/05/04
Received Date: 01/09/04
Extraction Date: 01/12/04
Analysis Date: 01/19/04
Report Date: 01/28/2004
Matrix: SOIL
% Solids: 93.2

Lab ID: WU0050-29DL
Client ID: MPT-45-D3-2'
SDG: WU0050
Extracted by: NB
Extraction Method: SW846 3550
Analyst: JCG
Analysis Method: SW846 M8270C
Lab Prep Batch: WG5370
Units: ug/Kg

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
91-20-3	Naphthalene	U	2100	100	20	2100	95
91-57-6	2-Methylnaphthalene	U	2100	100	20	2100	60
208-96-8	Acenaphthylene	U	2100	100	20	2100	57
83-32-9	Acenaphthene	U	2100	100	20	2100	75
86-73-7	Fluorene	U	2100	100	20	2100	65
85-01-8	Phenanthrene	U	2100	100	20	2100	160
120-12-7	Anthracene	U	2100	100	20	2100	87
206-44-0	Fluoranthene	J	1700	100	20	2100	180
129-00-0	Pyrene		3000	100	20	2100	190
56-55-3	Benzo(a)anthracene		3200	100	20	2100	110
218-01-9	Chrysene		3800	100	20	2100	130
205-99-2	Benzo(b)fluoranthene		4500	100	20	2100	220
207-08-9	Benzo(k)fluoranthene		2700	100	20	2100	140
50-32-8	Benzo(a)pyrene		4900	100	20	2100	80
193-39-5	Indeno(1,2,3-cd)pyrene	J	1800	100	20	2100	220
53-70-3	Dibenzo(a,h)anthracene	U	2100	100	20	2100	210
191-24-2	Benzo(g,h,i)perylene	J	1800	100	20	2100	180
7297-45-2	2-Methylnaphthalene-d10		D				
81103-79-9	Fluorene-d10		D				
1718-52-1	Pyrene-d10		D				

Data File: \\Target_server\GG\chem\gcms-k.i\K011904.b\K6158.D
Report Date: 28-Jan-2004 13:39

Katahdin Analytical Services

Data file : \\Target_server\GG\chem\gcms-k.i\K011904.b\K6158.D
Lab Smp Id: WU0050-29DL Client Smp ID: MPT-45-D3-2'
Inj Date : 19-JAN-2004 21:58 MS Autotune Date: 02-OCT-2003 14:39
Operator : JCG Inst ID: gcms-k.i
Smp Info : WU0050-29DL
Misc Info : SW846 M8270C
Comment :
Method : \\Target_server\GG\chem\gcms-k.i\K011904.b\827sim18.m
Meth Date : 19-Jan-2004 15:30 cgomez Quant Type: ISTD
Cal Date : 17-JAN-2004 15:01 Cal File: K6134.D
Als bottle: 14
Dil Factor: 100.00000
Integrator: HP RTE Compound Sublist: SW8270SIM.sub
Target Version: 4.12
Processing Host: TARGET06

Concentration Formula: Amt * DF * (Vt/Vo)* 1000 * (100/(100 - M)) * CpndVari

Name	Value	Description
DF	100.000	Dilution Factor
Vt	0.00100	Volume of final extract (L)
Vo	0.03000	Sample Weight
M	6.744	% Moisture
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/Kg)
* 1 1,4-Dichlorobenzene-D4	152	8.124	8.132	(1.000)	24016	0.80000	
* 2 Naphthalene-D8	136	10.935	10.935	(1.000)	71950	0.80000	
* 10 Acenaphthene-D10	164	15.026	15.028	(1.000)	37625	0.80000	
* 14 Phenanthrene-D10	188	18.486	18.470	(1.000)	50516	0.80000	
18 Fluoranthene	202	21.325	21.305	(1.154)	18544	0.47397	1690(a)
20 Pyrene	202	21.811	21.791	(0.881)	28251	0.84500	3020
22 Benzo(a)anthracene	228	24.728	24.708	(0.999)	12470	0.88052	3150
* 23 Chrysene-D12	240	24.749	24.750	(1.000)	17972	0.80000	
24 Chrysene	228	24.792	24.793	(1.002)	25348	1.05098	3760
25 Benzo(b)fluoranthene	252	27.124	27.104	(0.973)	9702	1.25738	4490(QM)
26 Benzo(k)fluoranthene	252	27.143	27.143	(0.974)	9150	0.74796	2670(QM)
27 Benzo(a)pyrene	252	27.758	27.739	(0.996)	9770	1.36365	4870(Q)
* 28 Perylene-D12	264	27.874	27.854	(1.000)	6659	0.80000	
29 Indeno(1,2,3-cd)pyrene	276	29.873	29.853	(1.072)	2609	0.51352	1840(a)
31 Benzo(g,h,i)perylene	276	30.277	30.257	(1.086)	2095	0.49176	1760(a)

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.

FORM 7B
SEMIVOLATILE CALIBRATION VERIFICATION SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO91 NS MAYPORT SDG No.: WU0050

Instrument ID: GCMS-K Calibration Date: 01/19/04 Time: 1128

Lab File ID: K6146 Init. Calib. Date(s): 01/17/04 01/17/04

Init. Calib. Times: 0952 1501

GC Column: DB5-MS ID: 0.25 (mm)

COMPOUND	RRF OR AMOUNT	RRF1.2500 OR AMOUNT	MIN RRF	%D OR %DRIFT	MAX %D OR %DRIFT	CURV TYPE
Naphthalene	0.7120000	0.7106400	0.01	-0.19		AVRG
2-Methylnaphthalene	0.3730000	0.3293400	0.01	-11.70		AVRG
Acenaphthylene	1.2490000	1.1957000	0.01	-4.27		AVRG
Acenaphthene	0.9340000	0.8517700	0.01	-8.80	20.00	AVRG
Fluorene	0.9070000	0.7888600	0.01	-13.02		AVRG
Phenanthrene	0.6250000	0.5599200	0.01	-10.41		AVRG
Anthracene	0.7920000	0.8919000	0.01	12.61		AVRG
Fluoranthene	0.6200000	0.5610500	0.01	-9.51	20.00	AVRG
Pyrene	1.4880000	2.2347000	0.01	50.18		AVRG
Benzo(a)anthracene	0.6300000	0.6177800	0.01	-1.94		AVRG
Chrysene	1.0740000	1.2306000	0.01	14.58		AVRG
Benzo(b)fluoranthene	0.9270000	0.7594100	0.01	-18.08		AVRG
Benzo(k)fluoranthene	1.4700000	1.2370000	0.01	-15.85		AVRG
Benzo(a)pyrene	0.8610000	0.7509300	0.01	-12.78	20.00	AVRG
Indeno(1,2,3-cd)pyrene	0.6100000	0.4535900	0.01	-25.64		AVRG
Dibenzo(a,h)anthracene	0.4280000	0.3295900	0.01	-22.99		AVRG
Benzo(g,h,i)perylene	0.5120000	0.4541400	0.01	-11.30		AVRG
2-Methylnaphthalene-d10	0.3100000	0.3137900	0.01	1.22		AVRG
Fluorene-d10	0.9190000	0.8042200	0.01	-12.49		AVRG
Pyrene-d10	1.1000000	1.5770000	0.01	43.36		AVRG

FORM VII PEST

FORM 8
SEMIVOLATILE ANALYTICAL SEQUENCE

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO91 NS MAYPORT SDG No.: WU0050

GC Column: RTX-CLPI ID: 0.53 (mm) Init. Calib. Date(s): 01/15/04 01/15/04

Instrument ID: GC08

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION
DCB: 14.95 TCX: 3.15

	CLIENT SAMPLE ID	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	DCB RT #	TCX RT #
01	EVAL	EVAL	01/15/04	1503		
02	ICAL	AB 0.05PPM	01/15/04	1530	14.96	3.15
03	ICAL	AB 0.005PPM	01/15/04	1558	14.95	3.15
04	ICAL	AB 0.01PPM	01/15/04	1625	14.95	3.15
05	ICAL	AB 0.025PPM	01/15/04	1652	14.95	3.15
06	ICAL	AB 0.10PPM	01/15/04	1719	14.95	3.15
07	ICAL	AB 0.25PPM	01/15/04	1746	14.95	3.15
08	INDSOURCE	IND AB 0.05P	01/15/04	1813		
09	ICAL	TOX 1.0PPM	01/15/04	1840		
10	ICAL	TC 0.5PPM	01/15/04	1907		
11	WG5360-BLANK	WG5360-1	01/15/04	1935	14.95	3.15
12	WG5360-LCS	WG5360-2	01/15/04	2002	14.95	3.15
13	WG5360-LCSD	WG5360-3	01/15/04	2029	14.95	3.15
14	MPT-45-A1-2'	WU0050-1	01/16/04	0100	14.95	3.15
15	MPT-45-A2-2'	WU0050-2	01/16/04	0127	14.95	3.15
16	MPT-45-A3-2'	WU0050-3	01/16/04	0154	14.95	3.15
17	MPT-45-A4-2'	WU0050-4	01/16/04	0222	14.95	3.15
18	MPT-45-B1-2'	WU0050-5	01/16/04	0249	14.95	3.15
19	MPT-45-B2-2'	WU0050-6	01/16/04	0316	14.95	3.15
20	MPT-45-B3-2'	WU0050-7	01/16/04	0343	14.95	3.15

QC LIMITS
DCB = Decachlorobiphenyl (+/- 0.07 MINUTES)
TCX = Tetrachloro-m-Xylene (+/- 0.07 MINUTES)

Column used to flag retention time values with an asterisk.
* Values outside of QC limits.

FORM 8
SEMIVOLATILE ANALYTICAL SEQUENCE

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO91 NS MAYPORT SDG No.: WU0050

GC Column: RTX-CLPI ID: 0.53 (mm) Init. Calib. Date(s): 01/15/04 01/15/04

Instrument ID: GC08

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION
DCB: 14.95 TCX: 3.15

	CLIENT SAMPLE ID	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	DCB RT	#	TCX RT	#
01	MPT-45-B4-2'	WU0050-8	01/16/04	0410	14.95		3.15	
02	CV	AB0.05PPM	01/16/04	0531	14.95		3.15	
03	EVAL	EVAL	01/16/04	0833				
04	CV	AB 0.05PPM	01/16/04	0900	14.95		3.15	
05	MPT-45-C1-2'	WU0050-9	01/16/04	1103	14.99		3.16	
06	MPT-45-C2-2'	WU0050-10	01/16/04	1130	14.95		3.15	
07	MPT-45-C3-2'	WU0050-11	01/16/04	1157	14.95		3.15	
08	MPT-45-C4-2'	WU0050-12	01/16/04	1224	14.95		3.15	
09	MPT-45-D3-2'	WU0050-13	01/16/04	1251	14.96		3.15	
10	MPT-45-D4-2'	WU0050-14	01/16/04	1318	14.95		3.15	
11	MPT-45-E4-2'	WU0050-15	01/16/04	1345	14.95		3.15	
12	MPT-45-E4-5'	WU0050-16	01/16/04	1413	14.95		3.15	
13	CV	AB 0.05PPM	01/16/04	1709	14.95		3.15	
14								
15								
16								
17								
18								
19								
20								

QC LIMITS

DCB = Decachlorobiphenyl (+/- 0.07 MINUTES)
TCX = Tetrachloro-m-Xylene (+/- 0.07 MINUTES)

Column used to flag retention time values with an asterisk.
* Values outside of QC limits.

FORM 8
SEMIVOLATILE ANALYTICAL SEQUENCE

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO91 NS MAYPORT SDG No.: WU0050

GC Column: RTX-CLPII ID: 0.53 (mm) Init. Calib. Date(s): 01/15/04 01/15/04

Instrument ID: GC08

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION
DCB: 18.48 TCX: 3.69

	CLIENT SAMPLE ID	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	DCB RT #	TCX RT #
01	EVAL	EVAL	01/15/04	1503		
02	ICAL	AB 0.05PPM	01/15/04	1530	18.48	3.69
03	ICAL	AB 0.005PPM	01/15/04	1558	18.48	3.69
04	ICAL	AB 0.01PPM	01/15/04	1625	18.48	3.69
05	ICAL	AB 0.025PPM	01/15/04	1652	18.48	3.69
06	ICAL	AB 0.10PPM	01/15/04	1719	18.48	3.69
07	ICAL	AB 0.25PPM	01/15/04	1746	18.48	3.69
08	INDSOURCE	IND AB 0.05P	01/15/04	1813		
09	ICAL	TOX 1.0PPM	01/15/04	1840		
10	ICAL	TC 0.5PPM	01/15/04	1907		
11	WG5360-BLANK	WG5360-1	01/15/04	1935	18.48	3.69
12	WG5360-LCS	WG5360-2	01/15/04	2002	18.48	3.69
13	WG5360-LCSD	WG5360-3	01/15/04	2029	18.48	3.69
14	MPT-45-A1-2'	WU0050-1	01/16/04	0100	18.48	3.69
15	MPT-45-A2-2'	WU0050-2	01/16/04	0127	18.48	3.69
16	MPT-45-A3-2'	WU0050-3	01/16/04	0154	18.48	3.69
17	MPT-45-A4-2'	WU0050-4	01/16/04	0222	18.48	3.69
18	MPT-45-B1-2'	WU0050-5	01/16/04	0249	18.48	3.69
19	MPT-45-B2-2'	WU0050-6	01/16/04	0316	18.48	3.69
20	MPT-45-B3-2'	WU0050-7	01/16/04	0343	18.48	3.69

QC LIMITS

DCB = Decachlorobiphenyl (+/- 0.07 MINUTES)
TCX = Tetrachloro-m-Xylene (+/- 0.07 MINUTES)

Column used to flag retention time values with an asterisk.
* Values outside of QC limits.

FORM 8
SEMIVOLATILE ANALYTICAL SEQUENCE

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO91 NS MAYPORT SDG No.: WU0050

GC Column: RTX-CLPII ID: 0.53 (mm) Init. Calib. Date(s): 01/15/04 01/15/04

Instrument ID: GC08

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION
DCB: 18.48 TCX: 3.69

	CLIENT SAMPLE ID	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	DCB RT #	TCX RT #
01	MPT-45-B4-2'	WU0050-8	01/16/04	0410	18.48	3.69
02	CV	AB0.05PPM	01/16/04	0531	18.48	3.69
03	EVAL	EVAL	01/16/04	0833		
04	CV	AB 0.05PPM	01/16/04	0900	18.48	3.69
05	MPT-45-C1-2'	WU0050-9	01/16/04	1103	18.49	3.71
06	MPT-45-C2-2'	WU0050-10	01/16/04	1130	18.48	3.69
07	MPT-45-C3-2'	WU0050-11	01/16/04	1157	18.48	3.69
08	MPT-45-C4-2'	WU0050-12	01/16/04	1224	18.48	3.69
09	MPT-45-D3-2'	WU0050-13	01/16/04	1251	18.49	3.69
10	MPT-45-D4-2'	WU0050-14	01/16/04	1318	18.48	3.69
11	MPT-45-E4-2'	WU0050-15	01/16/04	1345	18.48	3.69
12	MPT-45-E4-5'	WU0050-16	01/16/04	1413	18.48	3.69
13	CV	AB 0.05PPM	01/16/04	1709	18.48	3.69
14						
15						
16						
17						
18						
19						
20						

QC LIMITS

DCB = Decachlorobiphenyl (+/- 0.07 MINUTES)
TCX = Tetrachloro-m-Xylene (+/- 0.07 MINUTES)

Column used to flag retention time values with an asterisk.
* Values outside of QC limits.

FORM VIII PEST

FORM 6
SEMIVOLATILE INITIAL CALIBRATION DATA

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project CTO91 NS MAYPORT SDG No.: WU0050

Instrument ID: GC08 Calibration Date(s): 01/15/04 01/15/04

Column: RTX-CLPI ID: 0.53 (mm) Calibration Time(s): 1530 1746

LAB FILE ID: RF0.005: 8UA3008 RF0.01: 8UA3009 RF0.025: 8UA3010
RF0.05: 8UA3007 RF0.1: 8UA3011 RF0.25: 8UA3012

COMPOUND	RF0.005	RF0.01	RF0.025	RF0.05	RF0.1	RF0.25	COEFFICENTS CURVE	A0	A1	A2	%RSD OR R^2	MAX %RSD OR R^2	
Endosulfan 1	27276	54060	132340	250230	448400	936820	2ORDR	-2e-004	2e-007	9e-014	0.99997	0.99000	
alpha-BHC	27878	63188	164830	298330	600830	981720	2ORDR	5e-003	7e-008	2e-013	0.99467	0.99000	
gamma BHC	27616	60936	154750	271310	553250	978850	2ORDR	3.e-003	1e-007	1e-013	0.99754	0.99000	
beta-BHC	15579	31313	73904	134780	252240	572100	2ORDR	-1e-003	4e-007	1e-013	0.99990	0.99000	
delta-BHC	21966	51160	136880	260370	523200	976800	2ORDR	3e-003	1e-007	1e-013	0.99870	0.99000	
Heptachlor	31243	62623	149730	274450	527160	976820	2ORDR	2e-003	1e-007	1e-013	0.99916	0.99000	
Aldrin	26776	54272	141470	248270	501950	974780	2ORDR	1e-003	1e-007	1e-013	0.99919	0.99000	
Heptachlor Epoxide	27425	55138	132160	240660	448750	931220	2ORDR	-1e-004	2e-007	9e-014	0.99997	0.99000	
gamma-Chlordane	29115	57920	138740	249460	485240	975130	2ORDR	5e-004	2e-007	9e-014	0.99973	0.99000	
alpha-Chlordane	29073	57302	135380	245990	466980	971880	2ORDR	-1e-004	2e-007	8e-014	0.99994	0.99000	
4,4'-DDE	21669	46012	118130	232810	438020	947710	2ORDR	5e-004	2.e-007	7.e-014	0.99999	0.99000	
4,4'-DDT	17411	37197	91065	167370	342100	761450	2ORDR	3.e-004	3e-007	8e-014	0.99982	0.99000	
Dieldrin	25902	53056	131440	247350	469880	972490	2ORDR	5e-004	2e-007	8e-014	0.99994	0.99000	
Toxaphene							2ORDR					0.00000	<-
(2)							2ORDR					0.00000	<-
(3)							2ORDR					0.00000	<-
(4)							2ORDR					0.00000	<-
(5)							2ORDR					0.00000	<-
(6)							2ORDR					0.00000	<-
(7)							2ORDR					0.00000	<-
(8)							2ORDR					0.00000	<-
(9)							2ORDR					0.00000	<-
(10)							2ORDR					0.00000	<-
Endrin	23075	47657	117390	208790	407650	864790	2ORDR	-5e-007	2e-007	9.e-014	0.99987	0.99000	
4,4'-DDD	13761	30387	77831	159230	313310	714290	2ORDR	8e-004	3e-007	8e-014	0.99996	0.99000	
Endosulfan II	22454	44742	104690	195550	363520	780470	2ORDR	-5e-004	2e-007	1e-013	0.99999	0.99000	
Endrin Aldehyde	17280	34057	76265	144650	267730	566180	2ORDR	-4e-004	3e-007	2e-013	0.99999	0.99000	
Methoxychlor	15175	30416	72019	133980	255900	564900	2ORDR	-4e-004	4e-007	2e-013	0.99998	0.99000	
Endosulfan sulfate	8684	19236	42474	72344	148380	319550	2ORDR	-4e-004	6e-007	6e-013	0.99957	0.99000	
Endrin Ketone	17429	35221	84755	154540	287830	610090	2ORDR	-4e-004	3e-007	2e-013	0.99998	0.99000	
Tetrachloro-m-Xylene	22886	47350	113380	202120	386420	843830	2ORDR	-6e-004	2e-007	8.e-014	0.99992	0.99000	
Decachlorobiphenyl	21490	40482	87146	149200	276610	593660	2ORDR	-2e-003	3e-007	2e-013	0.99980	0.99000	

FORM VI SV

FORM 6
SEMIVOLATILE INITIAL CALIBRATION DATA

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project CTO91 NS MAYPORT SDG No.: WU0050

Instrument ID: GC08 Calibration Date(s): 01/15/04 01/15/04

Column: RTX-CLPII ID: 0.53 (mm) Calibration Time(s): 1530 1746

LAB FILE ID: RF0.005: 8UA4008 RF0.01: 8UA4009 RF0.025: 8UA4010
RF0.05: 8UA4007 RF0.1: 8UA4011 RF0.25: 8UA4012

COMPOUND	RF0.005	RF0.01	RF0.025	RF0.05	RF0.1	RF0.25	COEFFICENTS CURVE	A0	A1	A2	%RSD OR R^2	MAX %RSD OR R^2	
Endosulfan I	13304	27330	67812	131990	250800	537780	2ORDR	4e-004	3e-007	2e-013	0.99998	0.99000	
alpha-BHC	15506	35248	101100	201620	386680	863770	2ORDR	1.e-003	2e-007	7e-014	0.99996	0.99000	
gamma BHC	15985	36994	98074	180810	368160	818920	2ORDR	7e-004	2e-007	7e-014	0.99984	0.99000	
beta-BHC	9321	18634	45190	85620	162300	372670	2ORDR	-6e-004	6e-007	3e-013	0.99996	0.99000	
delta-BHC	13776	31710	88272	178900	353560	800500	2ORDR	1e-003	3e-007	7e-014	0.99994	0.99000	
Heptachlor	17078	34834	85229	158280	308140	682210	2ORDR	-1e-004	3e-007	1e-013	0.99996	0.99000	
Aldrin	14582	31405	83030	166490	320390	700710	2ORDR	9.e-004	3e-007	1e-013	0.99956	0.99000	
Heptachlor Epoxide	15610	31633	79479	153570	289420	627070	2ORDR	2e-004	3.e-007	2e-013	1.00000	0.99000	
gamma-Chlordane	15443	31984	79853	145150	290760	651040	2ORDR	-8e-006	3e-007	1.e-013	0.99989	0.99000	
alpha-Chlordane	14633	30575	75531	137570	268080	604000	2ORDR	-3e-004	3e-007	1e-013	0.99994	0.99000	
4,4'-DDE	12270	25800	67287	132580	255920	568920	2ORDR	6e-004	4e-007	2e-013	0.99999	0.99000	
4,4'-DDT	7097	15191	38333	74471	153030	354940	2ORDR	6e-004	6e-007	2e-013	0.99950	0.99000	
Dieldrin	11238	23765	62684	122780	244550	530290	2ORDR	1e-003	4e-007	2e-013	0.99987	0.99000	
Toxaphene							2ORDR					0.00000	<-
(2)							2ORDR					0.00000	<-
(3)							2ORDR					0.00000	<-
(4)							2ORDR					0.00000	<-
(5)							2ORDR					0.00000	<-
(6)							2ORDR					0.00000	<-
(7)							2ORDR					0.00000	<-
(8)							2ORDR					0.00000	<-
(9)							2ORDR					0.00000	<-
(10)							2ORDR					0.00000	<-
Endrin	9910	20757	52708	101220	200940	436550	2ORDR	7e-004	4e-007	3.e-013	0.99990	0.99000	
4,4'-DDD	6503	14199	37098	75951	156540	360440	2ORDR	1e-003	6.e-007	2e-013	0.99984	0.99000	
Endosulfan II	9961	20699	50295	96884	187040	416050	2ORDR	7e-005	5e-007	3e-013	0.99999	0.99000	
Endrin Aldehyde	7494	15439	35470	68099	133020	288970	2ORDR	1.e-004	7e-007	7e-013	0.99994	0.99000	
Methoxychlor	4185	8627	20332	35552	71960	156450	2ORDR	-2e-004	1e-006	2e-012	0.99975	0.99000	
Endosulfan sulfate	6797	14160	34211	67369	135440	303160	2ORDR	6e-004	7e-007	5e-013	0.99990	0.99000	
Endrin Ketone	9533	19771	49217	92457	181230	388650	2ORDR	4e-004	5e-007	4e-013	0.99992	0.99000	
Tetrachloro-m-Xylene	13598	29308	70552	128070	251400	555320	2ORDR	-2e-004	4e-007	2e-013	0.99992	0.99000	
Decachlorobiphenyl	14000	27664	62057	109560	205780	448080	2ORDR	-1e-003	4e-007	3e-013	0.99989	0.99000	

FORM VI SV

FORM 7B
PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO91 NS MAYPORT SDG No.: WU0050

Instrument ID: GC08 Calibration Date: 01/15/04 Time: 1813

Lab File ID: 8UA3013 Init. Calib. Date(s): 01/15/04 01/15/04

Init. Calib. Times: 1530 1746

GC Column: RTX-CLPI ID: 0.53 (mm)

COMPOUND	RRF or AMOUNT	RRF5e-002 or AMOUNT	CCAL RRF5e-002	MIN RRF	%D or %DRIFT	MAX %D or %DRIFT	CURV TYPE	
Endosulfan I	4.84e-002	5.e-002	4800000.0	0.01	-3.20	15.00	2RDR	
gamma BHC	4.44e-002	5.e-002	5604000.0	0.01	-11.20	15.00	2RDR	
beta-BHC	4.92e-002	5.e-002	2640000.0	0.01	-1.60	15.00	2RDR	
delta-BHC	4.54e-002	5.e-002	5246000.0	0.01	-9.20	15.00	2RDR	
Heptachlor	4.56e-002	5.e-002	5462000.0	0.01	-8.80	15.00	2RDR	
Aldrin	4.76e-002	5.e-002	5198000.0	0.01	-4.80	15.00	2RDR	
Heptachlor Epoxide	4.84e-002	5.e-002	4753000.0	0.01	-3.20	15.00	2RDR	
gamma-Chlordane	4.78e-002	5.e-002	5049000.0	0.01	-4.40	15.00	2RDR	
alpha-Chlordane	4.88e-002	5.e-002	4940000.0	0.01	-2.40	15.00	2RDR	
4,4'-DDE	4.82e-002	5.e-002	4494000.0	0.01	-3.60	15.00	2RDR	
alpha-BHC	4.06e-002	5.e-002	5955000.0	0.01	-18.80	15.00	2RDR	<-
Dieldrin	4.85e-002	5.e-002	4928000.0	0.01	-3.00	15.00	2RDR	
Endrin	5.2e-002	5.e-002	4506000.0	0.01	4.00	15.00	2RDR	
4,4'-DDD	4.7e-002	5.e-002	3026000.0	0.01	-6.00	15.00	2RDR	
Endosulfan II	5.01e-002	5.e-002	3930000.0	0.01	0.20	15.00	2RDR	
4,4'-DDT	4.98e-002	5.e-002	3510000.0	0.01	-0.40	15.00	2RDR	
Endrin Aldehyde	4.96e-002	5.e-002	2886000.0	0.01	-0.80	15.00	2RDR	
Methoxychlor	4.96e-002	5.e-002	2692000.0	0.01	-0.80	15.00	2RDR	
Endosulfan sulfate	5.07e-002	5.e-002	1581000.0	0.01	1.40	15.00	2RDR	
Endrin Ketone	5.13e-002	5.e-002	3193000.0	0.01	2.60	15.00	2RDR	

FORM 7B
PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO91 NS MAYPORT SDG No.: WU0050

Instrument ID: GC08 Calibration Date: 01/15/04 Time: 1813

Lab File ID: 8UA4013 Init. Calib. Date(s): 01/15/04 01/15/04

Init. Calib. Times: 1530 1746

GC Column: RTX-CLPII ID: 0.53 (mm)

COMPOUND	RRF or AMOUNT	RRF5e-002 or AMOUNT	CCAL RRF5e-002	MIN RRF	%D or %DRIFT	MAX %D or %DRIFT	CURV TYPE
4,4'-DDE	4.85e-002	5.e-002	2588000.0	0.01	-3.00	15.00	2RDR
gamma BHC	4.97e-002	5.e-002	3759000.0	0.01	-0.60	15.00	2RDR
beta-BHC	4.99e-002	5.e-002	1699000.0	0.01	-0.20	15.00	2RDR
delta-BHC	4.9e-002	5.e-002	3547000.0	0.01	-2.00	15.00	2RDR
Heptachlor	4.94e-002	5.e-002	3192000.0	0.01	-1.20	15.00	2RDR
Aldrin	4.79e-002	5.e-002	3217000.0	0.01	-4.20	15.00	2RDR
Heptachlor Epoxide	4.92e-002	5.e-002	3027000.0	0.01	-1.60	15.00	2RDR
gamma-Chlordane	4.92e-002	5.e-002	2962000.0	0.01	-1.60	15.00	2RDR
alpha-Chlordane	4.97e-002	5.e-002	2786000.0	0.01	-0.60	15.00	2RDR
Endosulfan I	4.93e-002	5.e-002	2626000.0	0.01	-1.40	15.00	2RDR
alpha-BHC	4.7e-002	5.e-002	3790000.0	0.01	-6.00	15.00	2RDR
Dieldrin	4.87e-002	5.e-002	2470000.0	0.01	-2.60	15.00	2RDR
Endrin	5.21e-002	5.e-002	2173000.0	0.01	4.20	15.00	2RDR
4,4'-DDD	4.84e-002	5.e-002	1518000.0	0.01	-3.20	15.00	2RDR
Endosulfan II	4.96e-002	5.e-002	1942000.0	0.01	-0.80	15.00	2RDR
4,4'-DDT	4.9e-002	5.e-002	1513000.0	0.01	-2.00	15.00	2RDR
Endrin Aldehyde	4.93e-002	5.e-002	1377000.0	0.01	-1.40	15.00	2RDR
Endosulfan sulfate	4.95e-002	5.e-002	1374000.0	0.01	-1.00	15.00	2RDR
Methoxychlor	5.15e-002	5.e-002	772700.00	0.01	3.00	15.00	2RDR
Endrin Ketone	5.19e-002	5.e-002	1974000.0	0.01	3.80	15.00	2RDR

FORM 7B
PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO91 NS MAYPORT SDG No.: WU0050

Instrument ID: GC08 Calibration Date: 01/16/04 Time: 0531

Lab File ID: 8UA3038 Init. Calib. Date(s): 01/15/04 01/15/04

Init. Calib. Times: 1530 1746

GC Column: RTX-CLPI ID: 0.53 (mm)

COMPOUND	RRF or AMOUNT	RRF5e-002 or AMOUNT	CCAL RRF5e-002	MIN RRF	%D or %DRIFT	MAX %D or %DRIFT	CURV TYPE	
alpha-BHC	3.95e-002	5.e-002	5823100.0	0.01	-21.00	15.00	2RDR	<-
gamma BHC	4.25e-002	5.e-002	5404100.0	0.01	-15.00	15.00	2RDR	
Heptachlor	4.18e-002	5.e-002	5072300.0	0.01	-16.40	15.00	2RDR	<-
beta-BHC	4.45e-002	5.e-002	2403900.0	0.01	-11.00	15.00	2RDR	
Aldrin	4.46e-002	5.e-002	4899100.0	0.01	-10.80	15.00	2RDR	
delta-BHC	4.11e-002	5.e-002	4795600.0	0.01	-17.80	15.00	2RDR	<-
Heptachlor Epoxide	4.48e-002	5.e-002	4428500.0	0.01	-10.40	15.00	2RDR	
Endosulfan I	4.26e-002	5.e-002	4272500.0	0.01	-14.80	15.00	2RDR	
4,4'-DDE	4.24e-002	5.e-002	3979100.0	0.01	-15.20	15.00	2RDR	<-
Dieldrin	4.27e-002	5.e-002	4384400.0	0.01	-14.60	15.00	2RDR	
Endrin	4.52e-002	5.e-002	3950900.0	0.01	-9.60	15.00	2RDR	
4,4'-DDD	4.85e-002	5.e-002	3112500.0	0.01	-3.00	15.00	2RDR	
Endosulfan II	4.42e-002	5.e-002	3496000.0	0.01	-11.60	15.00	2RDR	
4,4'-DDT	4.46e-002	5.e-002	3149100.0	0.01	-10.80	15.00	2RDR	
Endrin Aldehyde	4.37e-002	5.e-002	2566500.0	0.01	-12.60	15.00	2RDR	
Endosulfan sulfate	5.07e-002	5.e-002	1573500.0	0.01	1.40	15.00	2RDR	
Methoxychlor	4.71e-002	5.e-002	2558500.0	0.01	-5.80	15.00	2RDR	
alpha-Chlordane	4.31e-002	5.e-002	4410700.0	0.01	-13.80	15.00	2RDR	
gamma-Chlordane	4.27e-002	5.e-002	4562400.0	0.01	-14.60	15.00	2RDR	
Endrin Ketone	4.58e-002	5.e-002	2879200.0	0.01	-8.40	15.00	2RDR	
Tetrachloro-m-Xylene	4.6e-002	5.e-002	3811600.0	0.01	-8.00	15.00	2RDR	
Decachlorobiphenyl	4.3e-002	5.e-002	2648000.0	0.01	-14.00	15.00	2RDR	

FORM 7B
PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO91 NS MAYPORT SDG No.: WU0050

Instrument ID: GC08 Calibration Date: 01/16/04 Time: 0531

Lab File ID: 8UA4038 Init. Calib. Date(s): 01/15/04 01/15/04

Init. Calib. Times: 1530 1746

GC Column: RTX-CLPII ID: 0.53 (mm)

COMPOUND	RRF or AMOUNT	RRF5e-002 or AMOUNT	CCAL RRF5e-002	MIN RRF	%D or %DRIFT	MAX %D or %DRIFT	CURV TYPE	
alpha-BHC	4.38e-002	5.e-002	3536400.0	0.01	-12.40	15.00	2RDR	
gamma BHC	4.63e-002	5.e-002	3504600.0	0.01	-7.40	15.00	2RDR	
Heptachlor	4.69e-002	5.e-002	3039500.0	0.01	-6.20	15.00	2RDR	
beta-BHC	4.67e-002	5.e-002	1594800.0	0.01	-6.60	15.00	2RDR	
Aldrin	4.3e-002	5.e-002	2896600.0	0.01	-14.00	15.00	2RDR	
delta-BHC	4.5e-002	5.e-002	3256700.0	0.01	-10.00	15.00	2RDR	
Heptachlor Epoxide	4.25e-002	5.e-002	2639000.0	0.01	-15.00	15.00	2RDR	
Endosulfan I	4.33e-002	5.e-002	2328200.0	0.01	-13.40	15.00	2RDR	
4,4'-DDE	4.4e-002	5.e-002	2357400.0	0.01	-12.00	15.00	2RDR	
Dieldrin	4.36e-002	5.e-002	2223000.0	0.01	-12.80	15.00	2RDR	
Endrin	4.38e-002	5.e-002	1839800.0	0.01	-12.40	15.00	2RDR	
4,4'-DDD	4.67e-002	5.e-002	1466800.0	0.01	-6.60	15.00	2RDR	
Endosulfan II	4.52e-002	5.e-002	1778300.0	0.01	-9.60	15.00	2RDR	
4,4'-DDT	4.48e-002	5.e-002	1382700.0	0.01	-10.40	15.00	2RDR	
Endrin Aldehyde	4.53e-002	5.e-002	1270800.0	0.01	-9.40	15.00	2RDR	
Endosulfan sulfate	4.59e-002	5.e-002	1278900.0	0.01	-8.20	15.00	2RDR	
Methoxychlor	4.99e-002	5.e-002	750560.00	0.01	-0.20	15.00	2RDR	
alpha-Chlordane	4.46e-002	5.e-002	2511500.0	0.01	-10.80	15.00	2RDR	
gamma-Chlordane	4.41e-002	5.e-002	2667300.0	0.01	-11.80	15.00	2RDR	
Endrin Ketone	4.52e-002	5.e-002	1734800.0	0.01	-9.60	15.00	2RDR	
Tetrachloro-m-Xylene	4.77e-002	5.e-002	2518500.0	0.01	-4.60	15.00	2RDR	
Decachlorobiphenyl	4.11e-002	5.e-002	1855300.0	0.01	-17.80	15.00	2RDR	<-

FORM 7B
PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO91 NS MAYPORT SDG No.: WU0050

Instrument ID: GC08 Calibration Date: 01/16/04 Time: 0900

Lab File ID: 8UA3041 Init. Calib. Date(s): 01/15/04 01/15/04

Init. Calib. Times: 1530 1746

GC Column: RTX-CLPI ID: 0.53 (mm)

COMPOUND	RRF or AMOUNT	RRF5e-002 or AMOUNT	CCAL RRF5e-002	MIN RRF	%D or %DRIFT	MAX %D or %DRIFT	CURV TYPE	
alpha-BHC	4.05e-002	5.e-002	5934000.0	0.01	-19.00	15.00	2RDR	<-
gamma BHC	4.4e-002	5.e-002	5569900.0	0.01	-12.00	15.00	2RDR	
Heptachlor	4.35e-002	5.e-002	5245400.0	0.01	-13.00	15.00	2RDR	
beta-BHC	4.54e-002	5.e-002	2446700.0	0.01	-9.20	15.00	2RDR	
Aldrin	4.79e-002	5.e-002	5222600.0	0.01	-4.20	15.00	2RDR	
delta-BHC	4.23e-002	5.e-002	4921100.0	0.01	-15.40	15.00	2RDR	<-
Heptachlor Epoxide	4.99e-002	5.e-002	4880900.0	0.01	-0.20	15.00	2RDR	
Endosulfan I	4.87e-002	5.e-002	4824400.0	0.01	-2.60	15.00	2RDR	
4,4'-DDE	4.8e-002	5.e-002	4473700.0	0.01	-4.00	15.00	2RDR	
Dieldrin	4.71e-002	5.e-002	4789200.0	0.01	-5.80	15.00	2RDR	
Endrin	5.08e-002	5.e-002	4403400.0	0.01	1.60	15.00	2RDR	
4,4'-DDD	5.35e-002	5.e-002	3426500.0	0.01	7.00	15.00	2RDR	
Endosulfan II	4.81e-002	5.e-002	3780400.0	0.01	-3.80	15.00	2RDR	
4,4'-DDT	5.07e-002	5.e-002	3563800.0	0.01	1.40	15.00	2RDR	
Endrin Aldehyde	4.72e-002	5.e-002	2753000.0	0.01	-5.60	15.00	2RDR	
Endosulfan sulfate	5.45e-002	5.e-002	1682800.0	0.01	9.00	15.00	2RDR	
Methoxychlor	5.12e-002	5.e-002	2766000.0	0.01	2.40	15.00	2RDR	
alpha-Chlordane	4.74e-002	5.e-002	4814000.0	0.01	-5.20	15.00	2RDR	
gamma-Chlordane	4.73e-002	5.e-002	5003100.0	0.01	-5.40	15.00	2RDR	
Endrin Ketone	4.99e-002	5.e-002	3110100.0	0.01	-0.20	15.00	2RDR	
Tetrachloro-m-Xylene	4.66e-002	5.e-002	3859600.0	0.01	-6.80	15.00	2RDR	
Decachlorobiphenyl	4.83e-002	5.e-002	2934700.0	0.01	-3.40	15.00	2RDR	

FORM 7B
PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO91 NS MAYPORT SDG No.: WU0050

Instrument ID: GC08 Calibration Date: 01/16/04 Time: 0900

Lab File ID: 8UA4041 Init. Calib. Date(s): 01/15/04 01/15/04

Init. Calib. Times: 1530 1746

GC Column: RTX-CLPII ID: 0.53 (mm)

COMPOUND	RRF or AMOUNT	RRF5e-002 or AMOUNT	CCAL RRF5e-002	MIN RRF	%D or %DRIFT	MAX %D or %DRIFT	CURV TYPE
alpha-BHC	4.59e-002	5.e-002	3701400.0	0.01	-8.20	15.00	2RDR
gamma BHC	4.8e-002	5.e-002	3631300.0	0.01	-4.00	15.00	2RDR
Heptachlor	4.68e-002	5.e-002	3033500.0	0.01	-6.40	15.00	2RDR
beta-BHC	4.96e-002	5.e-002	1687200.0	0.01	-0.80	15.00	2RDR
Aldrin	4.59e-002	5.e-002	3087400.0	0.01	-8.20	15.00	2RDR
delta-BHC	4.63e-002	5.e-002	3350500.0	0.01	-7.40	15.00	2RDR
Heptachlor Epoxide	4.57e-002	5.e-002	2826200.0	0.01	-8.60	15.00	2RDR
Endosulfan I	4.51e-002	5.e-002	2416600.0	0.01	-9.80	15.00	2RDR
4,4'-DDE	4.74e-002	5.e-002	2532200.0	0.01	-5.20	15.00	2RDR
Dieldrin	4.66e-002	5.e-002	2368000.0	0.01	-6.80	15.00	2RDR
Endrin	4.81e-002	5.e-002	2015400.0	0.01	-3.80	15.00	2RDR
4,4'-DDD	4.84e-002	5.e-002	1520000.0	0.01	-3.20	15.00	2RDR
Endosulfan II	4.8e-002	5.e-002	1880900.0	0.01	-4.00	15.00	2RDR
4,4'-DDT	4.69e-002	5.e-002	1448300.0	0.01	-6.20	15.00	2RDR
Endrin Aldehyde	4.73e-002	5.e-002	1324100.0	0.01	-5.40	15.00	2RDR
Endosulfan sulfate	4.79e-002	5.e-002	1330900.0	0.01	-4.20	15.00	2RDR
Methoxychlor	4.9e-002	5.e-002	737640.00	0.01	-2.00	15.00	2RDR
alpha-Chlordane	4.85e-002	5.e-002	2721000.0	0.01	-3.00	15.00	2RDR
gamma-Chlordane	4.83e-002	5.e-002	2912700.0	0.01	-3.40	15.00	2RDR
Endrin Ketone	4.74e-002	5.e-002	1815000.0	0.01	-5.20	15.00	2RDR
Tetrachloro-m-Xylene	4.75e-002	5.e-002	2511400.0	0.01	-5.00	15.00	2RDR
Decachlorobiphenyl	4.46e-002	5.e-002	1999200.0	0.01	-10.80	15.00	2RDR

FORM 7B
PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO91 NS MAYPORT SDG No.: WU0050

Instrument ID: GC08 Calibration Date: 01/16/04 Time: 1709

Lab File ID: 8UA3054 Init. Calib. Date(s): 01/15/04 01/15/04

Init. Calib. Times: 1530 1746

GC Column: RTX-CLPI ID: 0.53 (mm)

COMPOUND	RRF or AMOUNT	RRF5e-002 or AMOUNT	CCAL RRF5e-002	MIN RRF	%D or %DRIFT	MAX %D or %DRIFT	CURV TYPE	
alpha-BHC	4.06e-002	5.e-002	5949500.0	0.01	-18.80	15.00	2RDR	<-
gamma BHC	4.29e-002	5.e-002	5445100.0	0.01	-14.20	15.00	2RDR	
Heptachlor	4.59e-002	5.e-002	5489200.0	0.01	-8.20	15.00	2RDR	
beta-BHC	4.64e-002	5.e-002	2498500.0	0.01	-7.20	15.00	2RDR	
Aldrin	4.55e-002	5.e-002	4987600.0	0.01	-9.00	15.00	2RDR	
delta-BHC	4.39e-002	5.e-002	5094600.0	0.01	-12.20	15.00	2RDR	
Heptachlor Epoxide	4.65e-002	5.e-002	4578900.0	0.01	-7.00	15.00	2RDR	
Endosulfan I	4.73e-002	5.e-002	4696400.0	0.01	-5.40	15.00	2RDR	
4,4'-DDE	4.85e-002	5.e-002	4514400.0	0.01	-3.00	15.00	2RDR	
Dieldrin	4.79e-002	5.e-002	4867400.0	0.01	-4.20	15.00	2RDR	
Endrin	4.81e-002	5.e-002	4182500.0	0.01	-3.80	15.00	2RDR	
4,4'-DDD	5.33e-002	5.e-002	3410500.0	0.01	6.60	15.00	2RDR	
Endosulfan II	4.95e-002	5.e-002	3879200.0	0.01	-1.00	15.00	2RDR	
4,4'-DDT	4.77e-002	5.e-002	3360500.0	0.01	-4.60	15.00	2RDR	
Endrin Aldehyde	4.7e-002	5.e-002	2741500.0	0.01	-6.00	15.00	2RDR	
Endosulfan sulfate	5.35e-002	5.e-002	1653700.0	0.01	7.00	15.00	2RDR	
Methoxychlor	5.e-002	5.e-002	2707300.0	0.01	0.00	15.00	2RDR	
alpha-Chlordane	4.82e-002	5.e-002	4888800.0	0.01	-3.60	15.00	2RDR	
gamma-Chlordane	4.71e-002	5.e-002	4982400.0	0.01	-5.80	15.00	2RDR	
Endrin Ketone	4.9e-002	5.e-002	3060400.0	0.01	-2.00	15.00	2RDR	
Tetrachloro-m-Xylene	4.86e-002	5.e-002	4012000.0	0.01	-2.80	15.00	2RDR	
Decachlorobiphenyl	4.85e-002	5.e-002	2943600.0	0.01	-3.00	15.00	2RDR	

FORM 7B
PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO91 NS MAYPORT SDG No.: WU0050

Instrument ID: GC08 Calibration Date: 01/16/04 Time: 1709

Lab File ID: 8UA4054 Init. Calib. Date(s): 01/15/04 01/15/04

Init. Calib. Times: 1530 1746

GC Column: RTX-CLPII ID: 0.53 (mm)

COMPOUND	RRF or AMOUNT	RRF5e-002 or AMOUNT	CCAL RRF5e-002	MIN RRF	%D or %DRIFT	MAX %D or %DRIFT	CURV TYPE
alpha-BHC	4.85e-002	5.e-002	3900700.0	0.01	-3.00	15.00	2RDR
gamma BHC	4.67e-002	5.e-002	3534100.0	0.01	-6.60	15.00	2RDR
Heptachlor	5.09e-002	5.e-002	3280900.0	0.01	1.80	15.00	2RDR
beta-BHC	4.85e-002	5.e-002	1651900.0	0.01	-3.00	15.00	2RDR
Aldrin	4.87e-002	5.e-002	3267900.0	0.01	-2.60	15.00	2RDR
delta-BHC	4.93e-002	5.e-002	3561700.0	0.01	-1.40	15.00	2RDR
Heptachlor Epoxide	4.97e-002	5.e-002	3060700.0	0.01	-0.60	15.00	2RDR
Endosulfan I	4.92e-002	5.e-002	2623700.0	0.01	-1.60	15.00	2RDR
4,4'-DDE	4.88e-002	5.e-002	2602800.0	0.01	-2.40	15.00	2RDR
Dieldrin	4.96e-002	5.e-002	2514900.0	0.01	-0.80	15.00	2RDR
Endrin	4.99e-002	5.e-002	2083900.0	0.01	-0.20	15.00	2RDR
4,4'-DDD	5.16e-002	5.e-002	1618000.0	0.01	3.20	15.00	2RDR
Endosulfan II	4.97e-002	5.e-002	1943300.0	0.01	-0.60	15.00	2RDR
4,4'-DDT	4.64e-002	5.e-002	1433500.0	0.01	-7.20	15.00	2RDR
Endrin Aldehyde	4.76e-002	5.e-002	1332500.0	0.01	-4.80	15.00	2RDR
Endosulfan sulfate	4.91e-002	5.e-002	1363100.0	0.01	-1.80	15.00	2RDR
Methoxychlor	5.11e-002	5.e-002	767960.00	0.01	2.20	15.00	2RDR
alpha-Chlordane	4.87e-002	5.e-002	2730400.0	0.01	-2.60	15.00	2RDR
gamma-Chlordane	4.79e-002	5.e-002	2886000.0	0.01	-4.20	15.00	2RDR
Endrin Ketone	4.84e-002	5.e-002	1849900.0	0.01	-3.20	15.00	2RDR
Tetrachloro-m-Xylene	4.89e-002	5.e-002	2579000.0	0.01	-2.20	15.00	2RDR
Decachlorobiphenyl	4.75e-002	5.e-002	2114600.0	0.01	-5.00	15.00	2RDR

FORM 2

SOIL SEMIVOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO91 NS MAYPORT SDG No.: WU0050

GC Column(1): RTX-CLPI ID: 0.53 (mm) GC Column(2): RTX-CLPII ID: 0.53 (mm)

	CLIENT SAMPLE ID	LAB SAMPLE ID	TCX1 REC#	TCX2 REC#	DCB1 REC#	DCB2 REC#	OTHR (1)	OTHR (2)	TOT OUT
01	WG5360-BLANK	WG5360-1	80	85	81	86			0
02	WG5360-LCS	WG5360-2	80	86	78	87			0
03	WG5360-LCSD	WG5360-3	84	89	69	84			0
04	MPT-45-A1-2'	WU0050-1	69	74	56	63			0
05	MPT-45-A2-2'	WU0050-2	72	77	54	61			0
06	MPT-45-A3-2'	WU0050-3	66	71	50	59			0
07	MPT-45-A4-2'	WU0050-4	60	64	45	55			0
08	MPT-45-B1-2'	WU0050-5	58	62	42	48			0
09	MPT-45-B2-2'	WU0050-6	66	71	45	52			0
10	MPT-45-B3-2'	WU0050-7	72	77	52	59			0
11	MPT-45-B4-2'	WU0050-8	76	83	58	65			0
12	MPT-45-C1-2'	WU0050-9	71	72	55	62			0
13	MPT-45-C2-2'	WU0050-10	76	81	59	66			0
14	MPT-45-C3-2'	WU0050-11	81	85	61	67			0
15	MPT-45-C4-2'	WU0050-12	70	72	59	63			0
16	MPT-45-D3-2'	WU0050-13	70	73	76	45			0
17	MPT-45-D4-2'	WU0050-14	66	70	36*	37*			2
18	MPT-45-E4-2'	WU0050-15	66	68	60	59			0
19	MPT-45-E4-5'	WU0050-16	74	76	61	60			0
20									
21									
22									
23									
24									
25									
26									
27									
28									

ADVISORY QC LIMITS

S1 (TCX) = Tetrachloro-m-Xylene (49-111)

S2 (DCB) = Decachlorobiphenyl (40-133)

Column to be used to flag recovery values

* Values outside of QC limits

D Surrogate diluted out

KATAHDIN ANALYTICAL SERVICES
LAB CONTROL SAMPLE

Client:
Project: CTO91 NS MAYPORT
PO No:
Sample Date:
Received Date:
Extraction Date: 01/09/04
Analysis Date: 01/15/04
Report Date: 01/16/2004
Matrix: SOIL

Lab ID: WG5360-2 & WG5360-3
Client ID: WG5360-LCS & WG5360-LCSD
SDG: WU0050
Extracted by: AZ
Extraction Method: SW846 3545
Analyst: LAD
Analysis Method: SW846 8081A
Lab Prep Batch: WG5360
Units: ug/Kg

COMPOUND	LCS SPIKE	LCSD SPIKE	SAMPLE CONC.	LCS CONC.	LCSD CONC.	LCS %REC.	LCSD %REC.	%RPD	%RPD LIMIT	QC. LIMITS
alpha-BHC	17	17	NA	14	14	84	84	0.0	50	59-101
gamma BHC	17	17	NA	15	15	91	91	0.0	50	63-101
Heptachlor	17	17	NA	15	15	88	88	0.0	50	62-106
beta-BHC	17	17	NA	16	16	93	94	0.6	50	70-106
Aldrin	17	17	NA	14	14	86	87	0.7	50	63-100
delta-BHC	17	17	NA	14	14	83	83	0.0	50	63-124
Heptachlor Epoxide	17	17	NA	15	15	89	88	0.7	50	72-102
Endosulfan I	17	17	NA	14	14	84	83	1	50	70- 93
4,4'-DDE	17	17	NA	15	14	88	87	1	50	69-108
Dieldrin	17	17	NA	15	14	88	87	0.7	50	71-104
Endrin	17	17	NA	16	16	96	95	1	50	69-110
4,4'-DDD	17	17	NA	15	15	92	90	3	50	61-130
Endosulfan II	17	17	NA	10	9.4	* 61	* 56	8	50	67-108
4,4'-DDT	17	17	NA	16	15	94	92	2	50	62-126
Endrin Aldehyde	17	17	NA	9.9	9.1	60	54	9	50	45-124
Endosulfan sulfate	17	17	NA	16	16	97	96	1	50	51-137
Methoxychlor	17	17	NA	15	15	89	89	0.7	50	53-180
alpha-Chlordane	17	17	NA	16	15	93	92	1	50	72-105
gamma-Chlordane	17	17	NA	15	15	91	91	0.7	50	72-102
Endrin Ketone	17	17	NA	15	15	92	91	1	50	66-140

FORM III PEST-2

8UA3017.d & 8UA3018.d

FORM 10
PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

CLIENT SAMPLE ID: MPT-45-A1-2'

Lab Name: KATAHDIN ANALYTICAL SERVICES Project: CTO91 NS MAYPO

Lab Code: KAS PO No.: SDG No.: WU0050

Lab Sample ID: WU0050-1 Date(s) Analyzed: 01/16/04 01/16/04

Instrument ID (1): GC08 Instrument ID (2): GC08

GC Column(1): RTX-CLPI ID: 0.53(mm) GC Column(2): RTX-CLPII ID: 0.53(mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	%D
gamma-Chlordane	1	6.37	6.30	6.44	6.17	
	2	7.72	7.65	7.79	6.35	2.8
alpha-Chlordane	1	6.57	6.52	6.66	9.91	
	2	8.01	7.94	8.08	5.93	40.2
Dieldrin	1	7.19	7.12	7.26	3.97	
	2	8.73	8.66	8.80	4.04	1.7
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					

FORM X PEST-1

FORM 10

PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

CLIENT SAMPLE ID

MPT-45-A2-2'

Lab Name: KATAHDIN ANALYTICAL SERVICES Project: CTO91 NS MAYPO

Lab Code: KAS PO No.: SDG No.: WU0050

Lab Sample ID: WU0050-2 Date(s) Analyzed: 01/16/04 01/16/04

Instrument ID (1): GC08 Instrument ID (2): GC08

GC Column(1): RTX-CLPI ID: 0.53(mm) GC Column(2): RTX-CLPII ID: 0.53(mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	%D
gamma-Chlordane	1	6.37	6.30	6.44	5.79	
	2	7.72	7.65	7.79	6.74	14.1
alpha-Chlordane	1	6.57	6.52	6.66	10.5	
	2	8.01	7.94	8.08	6.46	38.5
Dieldrin	1	7.19	7.12	7.26	4.50	
	2	8.73	8.66	8.80	5.01	10.2
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					

FORM X PEST-1

FORM 10
PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

CLIENT SAMPLE ID: MPT-45-A3-2'

Lab Name: KATAHDIN ANALYTICAL SERVICES Project: CTO91 NS MAYPO

Lab Code: KAS PO No.: SDG No.: WU0050

Lab Sample ID: WU0050-3 Date(s) Analyzed: 01/16/04 01/16/04

Instrument ID (1): GC08 Instrument ID (2): GC08

GC Column(1): RTX-CLPI ID: 0.53(mm) GC Column(2): RTX-CLPII ID: 0.53(mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	%D
gamma-Chlordane	1	6.37	6.30	6.44	2.79	
	2	7.72	7.65	7.79	2.89	3.5
alpha-Chlordane	1	6.57	6.52	6.66	4.35	
	2	8.01	7.94	8.08	2.38	45.3
Dieldrin	1	7.20	7.12	7.26	1.67	
	2	8.72	8.66	8.80	1.67	0.0
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					

FORM X PEST-1

FORM 10

PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

CLIENT SAMPLE ID

| MPT-45-A4-2' |

Lab Name: KATAHDIN ANALYTICAL SERVICES Project: CTO91 NS MAYPO

Lab Code: KAS PO No.: SDG No.: WU0050

Lab Sample ID: WU0050-4 Date(s) Analyzed: 01/16/04 01/16/04

Instrument ID (1): GC08 Instrument ID (2): GC08

GC Column(1): RTX-CLPI ID: 0.53(mm) GC Column(2): RTX-CLPII ID: 0.53(mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	%D
gamma-Chlordane	1	6.37	6.30	6.44	1.70	
	2	7.72	7.65	7.79	0.969	43.0
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					

FORM X PEST-1

FORM 10

PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

CLIENT SAMPLE ID

MPT-45-B4-2'

Lab Name: KATAHDIN ANALYTICAL SERVICES Project: CTO91 NS MAYPO

Lab Code: KAS PO No.: SDG No.: WU0050

Lab Sample ID: WU0050-8 Date(s) Analyzed: 01/16/04 01/16/04

Instrument ID (1): GC08 Instrument ID (2): GC08

GC Column(1): RTX-CLPI ID: 0.53(mm) GC Column(2): RTX-CLPII ID: 0.53(mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	%D
gamma-Chlordane	1	6.37	6.30	6.44	2.83	
	2	7.72	7.65	7.79	2.99	5.4
alpha-Chlordane	1	6.57	6.52	6.66	4.17	
	2	8.01	7.94	8.08	2.44	41.5
Dieldrin	1	7.20	7.12	7.26	1.84	
	2	8.72	8.66	8.80	1.96	6.1
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					

FORM X PEST-1

FORM 10

PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

CLIENT SAMPLE ID

MPT-45-C2-2'

Lab Name: KATAHDIN ANALYTICAL SERVICES Project: CTO91 NS MAYPO

Lab Code: KAS PO No.: SDG No.: WU0050

Lab Sample ID: WU0050-10 Date(s) Analyzed: 01/16/04 01/16/04

Instrument ID (1): GC08 Instrument ID (2): GC08

GC Column(1): RTX-CLPI ID: 0.53(mm) GC Column(2): RTX-CLPII ID: 0.53(mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	%D
4,4'-DDT	1	8.32	8.25	8.39	1.41	
	2	10.93	10.86	11.00	2.46	42.7
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					

FORM X PEST-1

FORM 10

PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

CLIENT SAMPLE ID

MPT-45-C4-2'

Lab Name: KATAHDIN ANALYTICAL SERVICES Project: CTO91 NS MAYPO

Lab Code: KAS PO No.: SDG No.: WU0050

Lab Sample ID: WU0050-12 Date(s) Analyzed: 01/16/04 01/16/04

Instrument ID (1): GC08 Instrument ID (2): GC08

GC Column(1): RTX-CLPI ID: 0.53(mm) GC Column(2): RTX-CLPII ID: 0.53(mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	%D
4,4'-DDE	1	6.75	6.68	6.82	3.20	
	2	8.41	8.33	8.47	3.56	10.1
4,4'-DDT	1	8.32	8.25	8.39	1.68	
	2	10.93	10.86	11.00	2.44	31.1
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					
	1					
	2					

FORM X PEST-1

FORM 8
SEMIVOLATILE ANALYTICAL SEQUENCE

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO91 NS MAYPORT SDG No.: WU0050

GC Column: RTX-5 ID: 0.53 (mm) Init. Calib. Date(s): 12/10/03 12/11/03

Instrument ID: GC06

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION
TCX: 7.20 DCB: 20.65

	CLIENT SAMPLE ID	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	TCX RT #	DCB RT #
01	ICAL	AR1660 1.0PP	12/10/03	1641	7.20	20.65
02	ICAL	AR1660 0.05P	12/10/03	1709	7.20	20.65
03	ICAL	AR1660 0.1PP	12/10/03	1738	7.20	20.65
04	ICAL	AR1660 0.25P	12/10/03	1806	7.20	20.65
05	ICAL	AR1660 2.5PP	12/10/03	1835	7.19	20.65
06	ICAL	AR1660 10.0P	12/10/03	1903	7.20	20.65
07	INDSOURCE	AR1016 1.0PP	12/10/03	1931		
08	INDSOURCE	AR1260 1.0PP	12/10/03	2000		
09	ICAL	AR1242 1.0PP	12/10/03	2028		
10	ICAL	AR1248 1.0PP	12/10/03	2319		
11	ICAL	AR1254 1.0PP	12/11/03	0209		
12	ICAL	AR1221 1.0PP	12/11/03	0500		
13	ICAL	AR1232 1.0PP	12/11/03	0529		
14	CV	AR1660 1.0PP	01/15/04	1016	7.18	20.63
15	WG5361-BLANK	WG5361-1	01/15/04	1509	7.19	20.63
16	WG5361-LCS	WG5361-2	01/15/04	1538	7.18	20.62
17	WG5361-LCSD	WG5361-3	01/15/04	1606	7.17	20.62
18	MPT-45-A1-2'	WU0050-1	01/15/04	1926	7.17	20.62
19	MPT-45-A2-2'	WU0050-2	01/15/04	1954	7.17	20.62
20	MPT-45-A3-2'	WU0050-3	01/15/04	2023	7.17	20.62

QC LIMITS

TCX = Tetrachloro-m-xylene (+/- 0.07 MINUTES)
DCB = Decachlorobiphenyl (+/- 0.07 MINUTES)

Column used to flag retention time values with an asterisk.
* Values outside of QC limits.

FORM 8
SEMIVOLATILE ANALYTICAL SEQUENCE

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO91 NS MAYPORT SDG No.: WU0050

GC Column: RTX-5 ID: 0.53 (mm) Init. Calib. Date(s): 12/10/03 12/11/03

Instrument ID: GC06

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION
TCX: 7.20 DCB: 20.65

	CLIENT SAMPLE ID	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	TCX RT #	DCB RT #
01	MPT-45-A4-2'	WU0050-4	01/15/04	2051	7.17	20.62
02	MPT-45-B1-2'	WU0050-5	01/15/04	2120	7.17	20.62
03	MPT-45-B2-2'	WU0050-6	01/15/04	2148	7.17	20.62
04	MPT-45-B3-2'	WU0050-7	01/15/04	2216	7.16	20.62
05	MPT-45-B4-2'	WU0050-8	01/15/04	2245	7.17	20.62
06	MPT-45-C1-2'	WU0050-9	01/15/04	2314	7.17	20.62
07	MPT-45-C2-2'	WU0050-10	01/15/04	2342	7.17	20.62
08	MPT-45-C3-2'	WU0050-11	01/16/04	0011	7.17	20.62
09	CV	AR1660 1.0PP	01/16/04	0108	7.17	20.62
10	MPT-45-C4-2'	WU0050-12	01/16/04	0301	7.17	20.62
11	MPT-45-D3-2'	WU0050-13	01/16/04	0330	7.17	20.62
12	MPT-45-D4-2'	WU0050-14	01/16/04	0358	7.17	20.62
13	MPT-45-E4-2'	WU0050-15	01/16/04	0427	7.17	20.62
14	MPT-45-E4-5'	WU0050-16	01/16/04	0455	7.17	20.62
15	CV	AR1660 1.0PP	01/16/04	0840	7.18	20.62
16						
17						
18						
19						
20						

QC LIMITS
TCX = Tetrachloro-m-xylene (+/- 0.07 MINUTES)
DCB = Decachlorobiphenyl (+/- 0.07 MINUTES)

Column used to flag retention time values with an asterisk.
* Values outside of QC limits.

FORM VIII PEST

FORM 8
SEMIVOLATILE ANALYTICAL SEQUENCE

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO91 NS MAYPORT SDG No.: WU0050

GC Column: RTX-35 ID: 0.53 (mm) Init. Calib. Date(s): 12/10/03 12/11/03

Instrument ID: GC06

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION
TCX: 7.02 DCB: 21.08

	CLIENT SAMPLE ID	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	TCX RT #	DCB RT #
01	ICAL	AR1660 1.0PP	12/10/03	1641	7.00	21.05
02	ICAL	AR1660 0.05P	12/10/03	1709	7.00	21.05
03	ICAL	AR1660 0.1PP	12/10/03	1738	7.00	21.05
04	ICAL	AR1660 0.25P	12/10/03	1806	7.00	21.05
05	ICAL	AR1660 2.5PP	12/10/03	1835	7.00	21.05
06	ICAL	AR1660 10.0P	12/10/03	1903	7.00	21.05
07	INDSOURCE	AR1016 1.0PP	12/10/03	1931		
08	INDSOURCE	AR1260 1.0PP	12/10/03	2000		
09	ICAL	AR1242 1.0PP	12/10/03	2028		
10	ICAL	AR1248 1.0PP	12/10/03	2319		
11	ICAL	AR1254 1.0PP	12/11/03	0209		
12	ICAL	AR1221 1.0PP	12/11/03	0500		
13	ICAL	AR1232 1.0PP	12/11/03	0529		
14	CV	AR1660 1.0PP	01/15/04	1016	6.98	21.02
15	WG5361-BLANK	WG5361-1	01/15/04	1509	6.99	21.03
16	WG5361-LCS	WG5361-2	01/15/04	1538	6.98	21.02
17	WG5361-LCSD	WG5361-3	01/15/04	1606	6.97	21.02
18	MPT-45-A1-2'	WU0050-1	01/15/04	1926	6.97	21.02
19	MPT-45-A2-2'	WU0050-2	01/15/04	1954	6.97	21.02
20	MPT-45-A3-2'	WU0050-3	01/15/04	2023	6.97	21.02

QC LIMITS

TCX = Tetrachloro-m-xylene (+/- 0.07 MINUTES)
DCB = Decachlorobiphenyl (+/- 0.07 MINUTES)

Column used to flag retention time values with an asterisk.
* Values outside of QC limits.

FORM 8
SEMIVOLATILE ANALYTICAL SEQUENCE

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO91 NS MAYPORT SDG No.: WU0050

GC Column: RTX-35 ID: 0.53 (mm) Init. Calib. Date(s): 12/10/03 12/11/03

Instrument ID: GC06

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION
TCX: 7.02 DCB: 21.08

	CLIENT SAMPLE ID	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	TCX RT #	DCB RT #
01	MPT-45-A4-2'	WU0050-4	01/15/04	2051	6.97	21.02
02	MPT-45-B1-2'	WU0050-5	01/15/04	2120	6.97	21.02
03	MPT-45-B2-2'	WU0050-6	01/15/04	2148	6.97	21.02
04	MPT-45-B3-2'	WU0050-7	01/15/04	2216	6.97	21.02
05	MPT-45-B4-2'	WU0050-8	01/15/04	2245	6.97	21.02
06	MPT-45-C1-2'	WU0050-9	01/15/04	2314	6.97	21.02
07	MPT-45-C2-2'	WU0050-10	01/15/04	2342	6.97	21.02
08	MPT-45-C3-2'	WU0050-11	01/16/04	0011	6.97	21.02
09	CV	AR1660 1.0PP	01/16/04	0108	6.97	21.02
10	MPT-45-C4-2'	WU0050-12	01/16/04	0301	6.97	21.02
11	MPT-45-D3-2'	WU0050-13	01/16/04	0330	6.97	21.02
12	MPT-45-D4-2'	WU0050-14	01/16/04	0358	6.97	21.02
13	MPT-45-E4-2'	WU0050-15	01/16/04	0427	6.97	21.02
14	MPT-45-E4-5'	WU0050-16	01/16/04	0455	6.97	21.02
15	CV	AR1660 1.0PP	01/16/04	0840	6.98	21.02
16						
17						
18						
19						
20						

QC LIMITS
TCX = Tetrachloro-m-xylene (+/- 0.07 MINUTES)
DCB = Decachlorobiphenyl (+/- 0.07 MINUTES)

Column used to flag retention time values with an asterisk.
* Values outside of QC limits.

FORM 6
SEMIVOLATILE INITIAL CALIBRATION DATA

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project CTO91 NS MAYPORT SDG No.: WU0050

Instrument ID: GC06 Calibration Date(s): 12/10/03 12/11/03

Column: RTX-5 ID: 0.53 (mm) Calibration Time(s): 1641 0432

LAB FILE ID: RF0.05: 6TL1169 RF0.1: 6TL1170 RF0.25: 6TL1171
RF1: 6TL1168 RF2.5: 6TL1172 RF10: 6TL1173

								COEFFICENTS			%RSD	MAX %RSD	
COMPOUND	RF0.05	RF0.1	RF0.25	RF1	RF2.5	RF10	CURVE	A0	A1	A2	OR R^2	OR R^2	
Aroclor-1016	1321	2535	5966	20394	46901	153020	2ORDR	-2e-002	5e-005	1e-010	0.99998	0.99000	
(2)	3126	5961	13732	45988	103600	340710	2ORDR	-3e-002	2e-005	2e-011	0.99996	0.99000	
(3)	1765	3334	7712	25880	59092	193390	2ORDR	-3e-002	4e-005	7e-011	0.99998	0.99000	
(4)	1006	1948	4683	16630	39680	135540	2ORDR	-1e-002	6e-005	1e-010	0.99999	0.99000	
(5)	1193	2177	4861	15631	34826	112420	2ORDR	-4e-002	6e-005	2e-010	0.99995	0.99000	
Aroclor-1221							2ORDR					0.00000	<-
(2)							2ORDR					0.00000	<-
(3)							2ORDR					0.00000	<-
(4)							2ORDR					0.00000	<-
Aroclor-1232							2ORDR					0.00000	<-
(2)							2ORDR					0.00000	<-
(3)							2ORDR					0.00000	<-
(4)							2ORDR					0.00000	<-
(5)							2ORDR					0.00000	<-
Aroclor-1242	1541	2675	6324	20807	44445	135490	2ORDR	-3e-002	5e-005	2.e-010	0.99994	0.99000	
(2)	1240	2174	5278	18336	40356	126930	2ORDR	-2e-002	5e-005	2.e-010	0.99997	0.99000	
(3)	2889	5032	11847	40319	87700	280320	2ORDR	-3e-002	3e-005	4e-011	0.99994	0.99000	
(4)	1633	2837	6816	23167	49995	160060	2ORDR	-3e-002	4e-005	1e-010	0.99993	0.99000	
(5)	956	1655	4109	14956	33351	112320	2ORDR	-2e-002	7e-005	2e-010	0.99995	0.99000	
Aroclor-1248	1832	3430	11174	26113	81316	189650	2ORDR	8e-002	2e-005	2e-010	0.99785	0.99000	
(2)	1528	2937	9818	23719	76631	182110	2ORDR	9e-002	2e-005	2.e-010	0.99783	0.99000	
(3)	2160	4148	13170	30749	96615	226600	2ORDR	8e-002	1e-005	1e-010	0.99785	0.99000	
(4)	2291	4382	13959	32956	104200	246720	2ORDR	8e-002	1e-005	1e-010	0.99790	0.99000	
(5)	1623	3209	10584	25940	85113	204060	2ORDR	9e-002	2e-005	2e-010	0.99782	0.99000	
Aroclor-1254	3243	5949	13876	41811	98129	301000	2ORDR	-2e-002	2e-005	4e-011	0.99996	0.99000	
(2)	1703	3253	8092	26220	64090	203000	2ORDR	-8e-003	3e-005	7e-011	0.99996	0.99000	
(3)	3191	6034	14721	46655	112500	352010	2ORDR	-1e-002	2.e-005	2e-011	0.99996	0.99000	
(4)	2927	5490	13071	40213	96184	300080	2ORDR	-2e-002	2e-005	3e-011	0.99996	0.99000	
(5)	1434	2730	6604	20108	47599	146620	2ORDR	-2e-002	5e-005	2e-010	0.99996	0.99000	
Aroclor-1260	1669	3132	7117	24094	55138	187630	2ORDR	-3e-002	4e-005	6.e-011	0.99997	0.99000	
(2)	1550	2961	6887	24245	56398	195830	2ORDR	-2e-002	4e-005	5e-011	0.99998	0.99000	
(3)	3687	6853	15539	54947	127320	447880	2ORDR	-2e-002	2e-005	8e-012	0.99998	0.99000	
(4)	1687	3293	7837	28989	67593	238710	2ORDR	-2e-002	4e-005	3e-011	0.99998	0.99000	
(5)	879	1760	4340	15895	37026	130210	2ORDR	-1e-002	6e-005	1.e-010	0.99998	0.99000	
Tetrachloro-m-xylene	869	1729	4368	17273	43758	156380	2ORDR	2e-004	1e-006	1e-012	0.99998	0.99000	
Decachlorobiphenyl	907	1785	4315	15354	34377	113760	2ORDR	-4e-004	1e-006	4e-012	0.99996	0.99000	

FORM 6
SEMIVOLATILE INITIAL CALIBRATION DATA

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project CTO91 NS MAYPORT SDG No.: WU0050

Instrument ID: GC06 Calibration Date(s): 12/10/03 12/11/03

Column: RTX-35 ID: 0.53 (mm) Calibration Time(s): 1641 0432

LAB FILE ID: RF0.05: 6TL2169 RF0.1: 6TL2170 RF0.25: 6TL2171
RF1: 6TL2168 RF2.5: 6TL2172 RF10: 6TL2173

COMPOUND	RF0.05	RF0.1	RF0.25	RF1	RF2.5	RF10	CURVE	COEFFICENTS A0	A1	A2	%RSD OR R^2	MAX %RSD OR R^2	
Aroclor-1016	2963	5548	12423	39254	86600	277030	2ORDR	-4e-002	3e-005	4e-011	0.99994	0.99000	
(2)	1349	2606	6097	20145	45477	148990	2ORDR	-3e-002	5.e-005	1e-010	0.99996	0.99000	
(3)	4623	8673	19515	63656	144010	480640	2ORDR	-3e-002	2e-005	1.e-011	0.99996	0.99000	
(4)	2055	3935	8926	29106	65698	216620	2ORDR	-3e-002	3e-005	5e-011	0.99996	0.99000	
(5)	1445	2854	6687	23020	53564	182170	2ORDR	-2e-002	4e-005	6e-011	0.99998	0.99000	
Aroclor-1221							2ORDR					0.00000	<-
(2)							2ORDR					0.00000	<-
(3)							2ORDR					0.00000	<-
(4)							2ORDR					0.00000	<-
Aroclor-1232							2ORDR					0.00000	<-
(2)							2ORDR					0.00000	<-
(3)							2ORDR					0.00000	<-
(4)							2ORDR					0.00000	<-
(5)							2ORDR					0.00000	<-
Aroclor-1242	2776	4737	10883	35062	75070	230630	2ORDR	-4e-002	3e-005	7e-011	0.99994	0.99000	
(2)	4132	7245	16806	55893	122830	389120	2ORDR	-3e-002	2e-005	2.e-011	0.99996	0.99000	
(3)	1824	3301	7799	26004	56052	177420	2ORDR	-3e-002	4e-005	1e-010	0.99993	0.99000	
(4)	1295	2342	5459	17756	37680	116020	2ORDR	-4e-002	6e-005	3e-010	0.99992	0.99000	
(5)	1902	3371	7992	26610	57794	183620	2ORDR	-3e-002	4e-005	9.e-011	0.99994	0.99000	
Aroclor-1248	2677	5238	15833	36562	112870	267340	2ORDR	7e-002	1e-005	9e-011	0.99803	0.99000	
(2)	1702	3459	10669	25229	80604	192690	2ORDR	8.e-002	2e-005	2e-010	0.99793	0.99000	
(3)	3422	6597	20167	46459	145990	347210	2ORDR	8e-002	1e-005	5e-011	0.99797	0.99000	
(4)	2677	5241	16059	37274	117150	280260	2ORDR	7e-002	1e-005	8e-011	0.99802	0.99000	
(5)	2356	4618	14428	34199	111630	270890	2ORDR	8.e-002	1e-005	8e-011	0.99793	0.99000	
Aroclor-1254	1299	2092	5129	15874	37068	113150	2ORDR	-2e-002	6e-005	3e-010	0.99997	0.99000	
(2)	1563	2464	6012	18490	43257	133240	2ORDR	-2e-002	5.e-005	2e-010	0.99997	0.99000	
(3)	2596	4349	10605	33590	81232	259320	2ORDR	-2e-002	3e-005	4e-011	0.99996	0.99000	
(4)	4767	8291	19906	62332	149850	479420	2ORDR	-2e-002	2e-005	1e-011	0.99996	0.99000	
(5)	3854	6489	15513	47404	113810	360330	2ORDR	-2e-002	2.e-005	2e-011	0.99995	0.99000	
Aroclor-1260	3127	5901	13684	46792	107770	376160	2ORDR	-3e-002	2e-005	1e-011	0.99997	0.99000	
(2)	2362	4505	10543	36146	83455	290920	2ORDR	-3e-002	3e-005	2e-011	0.99997	0.99000	
(3)	4995	9456	21848	75450	176160	635490	2ORDR	-3e-002	1e-005	3e-012	0.99997	0.99000	
(4)	2761	5294	12619	44390	103120	364270	2ORDR	-2e-002	2e-005	1e-011	0.99998	0.99000	
(5)	1240	2430	5913	21201	49272	173410	2ORDR	-2e-002	5e-005	6e-011	0.99998	0.99000	
Tetrachloro-m-xylene	1894	3413	7434	27397	65699	226780	2ORDR	-3e-004	7e-007	7e-013	1.00000	0.99000	
Decachlorobiphenyl	1111	2210	5428	19051	42637	144360	2ORDR	-5e-004	1e-006	2e-012	0.99995	0.99000	

FORM 7B
PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO91 NS MAYPORT SDG No.: WU0050

Instrument ID: GC06 Calibration Date: 12/10/03 Time: 1931

Lab File ID: 6TL1154 Init. Calib. Date(s): 12/10/03 12/11/03

Init. Calib. Times: 1641 0432

GC Column: RTX-5 ID: 0.53 (mm)

COMPOUND	RRF or AMOUNT	RRF1.0000 or AMOUNT	CCAL RRF1.0000	MIN RRF	%D or %DRIFT	MAX %D or %DRIFT	CURV TYPE
Aroclor-1016	1.0699000	1.0000000	21510.000	0.01	6.99	15.00	2RDR
(2)	1.0562000	1.0000000	47214.000	0.01	5.62	15.00	2RDR
(3)	1.0714000	1.0000000	27210.000	0.01	7.14	15.00	2RDR
(4)	1.0603000	1.0000000	17629.000	0.01	6.03	15.00	2RDR
(5)	1.0451000	1.0000000	15890.000	0.01	4.51	15.00	2RDR
Average %D: 6.0600							

FORM 7B
PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO91 NS MAYPORT SDG No.: WU0050

Instrument ID: GC06 Calibration Date: 12/10/03 Time: 1931

Lab File ID: 6TL2154 Init. Calib. Date(s): 12/10/03 12/11/03

Init. Calib. Times: 1641 0432

GC Column: RTX-35 ID: 0.53 (mm)

COMPOUND	RRF or AMOUNT	RRF1.0000 or AMOUNT	CCAL RRF1.0000	MIN RRF	%D or %DRIFT	MAX %D or %DRIFT	CURV TYPE
Aroclor-1016	1.0840000	1.0000000	41110.000	0.01	8.40	15.00	2RDR
(2)	1.0829000	1.0000000	21227.000	0.01	8.29	15.00	2RDR
(3)	1.0634000	1.0000000	65854.000	0.01	6.34	15.00	2RDR
(4)	1.0694000	1.0000000	30301.000	0.01	6.94	15.00	2RDR
(5)	1.0637000	1.0000000	24106.000	0.01	6.37	15.00	2RDR
Average %D: 7.2700							

FORM 7B
PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO91 NS MAYPORT SDG No.: WU0050

Instrument ID: GC06 Calibration Date: 01/15/04 Time: 1016

Lab File ID: 6UA1165 Init. Calib. Date(s): 12/10/03 01/08/04

Init. Calib. Times: 1641 1609

GC Column: RTX-5 ID: 0.53 (mm)

COMPOUND	RRF or AMOUNT	RRF1.0000 or AMOUNT	CCAL RRF1.0000	MIN RRF	%D or %DRIFT	MAX %D or %DRIFT	CURV TYPE
Aroclor-1016	1.0355000	1.0000000	20864.000	0.01	3.55	15.00	2RDR
(2)	1.0179000	1.0000000	45614.000	0.01	1.79	15.00	2RDR
(3)	1.0171000	1.0000000	25920.000	0.01	1.71	15.00	2RDR
(4)	1.0072000	1.0000000	16782.000	0.01	0.72	15.00	2RDR
(5)	1.0984000	1.0000000	16634.000	0.01	9.84	15.00	2RDR
Average %D: 3.5200							
Aroclor-1260	1.0584000	1.0000000	24854.000	0.01	5.84	15.00	2RDR
(2)	1.0445000	1.0000000	24815.000	0.01	4.45	15.00	2RDR
(3)	1.0238000	1.0000000	54895.000	0.01	2.38	15.00	2RDR
(4)	1.0205000	1.0000000	28875.000	0.01	2.05	15.00	2RDR
(5)	1.0328000	1.0000000	16017.000	0.01	3.28	15.00	2RDR
Average %D: 3.6000							
Tetrachloro-m-xylene	2.e-002	2.e-002	891500.00	0.01	0.00	15.00	2RDR
Decachlorobiphenyl	2.14e-002	2.e-002	791250.00	0.01	7.00	15.00	2RDR

FORM 7B
PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO91 NS MAYPORT SDG No.: WU0050

Instrument ID: GC06 Calibration Date: 01/15/04 Time: 1016

Lab File ID: 6UA2165 Init. Calib. Date(s): 12/10/03 01/08/04

Init. Calib. Times: 1641 1609

GC Column: RTX-35 ID: 0.53 (mm)

COMPOUND	RRF or AMOUNT	RRF1.0000 or AMOUNT	CCAL RRF1.0000	MIN RRF	%D or %DRIFT	MAX %D or %DRIFT	CURV TYPE	
Aroclor-1016	1.1634000	1.0000000	43851.000	0.01	16.34	15.00	2RDR	<-
(2)	1.1504000	1.0000000	22454.000	0.01	15.04	15.00	2RDR	<-
(3)	1.1158000	1.0000000	68874.000	0.01	11.58	15.00	2RDR	
(4)	1.1357000	1.0000000	32043.000	0.01	13.57	15.00	2RDR	
(5)	1.1110000	1.0000000	25121.000	0.01	11.10	15.00	2RDR	
Average %D: 13.530								
Aroclor-1260	1.0880000	1.0000000	49464.000	0.01	8.80	15.00	2RDR	
(2)	1.1028000	1.0000000	38770.000	0.01	10.28	15.00	2RDR	
(3)	1.0865000	1.0000000	79893.000	0.01	8.65	15.00	2RDR	
(4)	1.0889000	1.0000000	47054.000	0.01	8.89	15.00	2RDR	
(5)	1.0820000	1.0000000	22328.000	0.01	8.20	15.00	2RDR	
Average %D: 8.9600								
Tetrachloro-m-xylene	2.26e-002	2.e-002	1547700.0	0.01	13.00	15.00	2RDR	
Decachlorobiphenyl	2.22e-002	2.e-002	1009700.0	0.01	11.00	15.00	2RDR	

FORM 7B
PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO91 NS MAYPORT SDG No.: WU0050

Instrument ID: GC06 Calibration Date: 01/16/04 Time: 0108

Lab File ID: 6UA1190 Init. Calib. Date(s): 12/10/03 01/08/04

Init. Calib. Times: 1641 1609

GC Column: RTX-5 ID: 0.53 (mm)

COMPOUND	RRF or AMOUNT	RRF1.0000 or AMOUNT	CCAL RRF1.0000	MIN RRF	%D or %DRIFT	MAX %D or %DRIFT	CURV TYPE
Aroclor-1016	1.0529000	1.0000000	21192.000	0.01	5.29	15.00	2RDR
(2)	1.0306000	1.0000000	46144.000	0.01	3.06	15.00	2RDR
(3)	1.0344000	1.0000000	26331.000	0.01	3.44	15.00	2RDR
(4)	1.0268000	1.0000000	17095.000	0.01	2.68	15.00	2RDR
(5)	1.1044000	1.0000000	16717.000	0.01	10.44	15.00	2RDR
Average %D: 4.9800							
Aroclor-1260	1.0662000	1.0000000	25027.000	0.01	6.62	15.00	2RDR
(2)	1.0445000	1.0000000	24815.000	0.01	4.45	15.00	2RDR
(3)	1.0322000	1.0000000	55326.000	0.01	3.22	15.00	2RDR
(4)	1.0270000	1.0000000	29053.000	0.01	2.70	15.00	2RDR
(5)	1.0396000	1.0000000	16117.000	0.01	3.96	15.00	2RDR
Average %D: 4.1900							
Tetrachloro-m-xylene	2.04e-002	2.e-002	907100.00	0.01	2.00	15.00	2RDR
Decachlorobiphenyl	2.16e-002	2.e-002	796400.00	0.01	8.00	15.00	2RDR

FORM 7B
PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO91 NS MAYPORT SDG No.: WU0050

Instrument ID: GC06 Calibration Date: 01/16/04 Time: 0108

Lab File ID: 6UA2190 Init. Calib. Date(s): 12/10/03 01/08/04

Init. Calib. Times: 1641 1609

GC Column: RTX-35 ID: 0.53 (mm)

COMPOUND	RRF or AMOUNT	RRF1.0000 or AMOUNT	CCAL RRF1.0000	MIN RRF	%D or %DRIFT	MAX %D or %DRIFT	CURV TYPE	
Aroclor-1016	1.2147000	1.0000000	45613.000	0.01	21.47	15.00	2RDR	<-
(2)	1.2024000	1.0000000	23395.000	0.01	20.24	15.00	2RDR	<-
(3)	1.1703000	1.0000000	71998.000	0.01	17.03	15.00	2RDR	<-
(4)	1.1961000	1.0000000	33622.000	0.01	19.61	15.00	2RDR	<-
(5)	1.1781000	1.0000000	26558.000	0.01	17.81	15.00	2RDR	<-
Average %D: 19.230								
Aroclor-1260	1.1263000	1.0000000	51113.000	0.01	12.63	15.00	2RDR	
(2)	1.1413000	1.0000000	40055.000	0.01	14.13	15.00	2RDR	
(3)	1.1207000	1.0000000	82302.000	0.01	12.07	15.00	2RDR	
(4)	1.1269000	1.0000000	48622.000	0.01	12.69	15.00	2RDR	
(5)	1.1169000	1.0000000	23019.000	0.01	11.69	15.00	2RDR	
Average %D: 12.640								
Tetrachloro-m-xylene	2.4e-002	2.e-002	1636100.0	0.01	20.00	15.00	2RDR	<-
Decachlorobiphenyl	2.3e-002	2.e-002	1044600.0	0.01	15.00	15.00	2RDR	

FORM 7B
PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO91 NS MAYPORT SDG No.: WU0050

Instrument ID: GC06 Calibration Date: 01/16/04 Time: 0840

Lab File ID: 6UA3002 Init. Calib. Date(s): 12/10/03 01/08/04

Init. Calib. Times: 1641 1609

GC Column: RTX-5 ID: 0.53 (mm)

COMPOUND	RRF or AMOUNT	RRF1.0000 or AMOUNT	CCAL RRF1.0000	MIN RRF	%D or %DRIFT	MAX %D or %DRIFT	CURV TYPE	
Aroclor-1016	1.1055000	1.0000000	22182.000	0.01	10.55	15.00	2RDR	
(2)	1.0851000	1.0000000	48416.000	0.01	8.51	15.00	2RDR	
(3)	1.0838000	1.0000000	27503.000	0.01	8.38	15.00	2RDR	
(4)	1.0798000	1.0000000	17940.000	0.01	7.98	15.00	2RDR	
(5)	1.1700000	1.0000000	17627.000	0.01	17.00	15.00	2RDR	<-
Average %D: 10.480								
Aroclor-1260	1.1250000	1.0000000	26326.000	0.01	12.50	15.00	2RDR	
(2)	1.1132000	1.0000000	26370.000	0.01	11.32	15.00	2RDR	
(3)	1.0946000	1.0000000	58511.000	0.01	9.46	15.00	2RDR	
(4)	1.0909000	1.0000000	30789.000	0.01	9.09	15.00	2RDR	
(5)	1.1015000	1.0000000	17040.000	0.01	10.15	15.00	2RDR	
Average %D: 10.510								
Tetrachloro-m-xylene	2.17e-002	2.e-002	962850.00	0.01	8.50	15.00	2RDR	
Decachlorobiphenyl	2.29e-002	2.e-002	843400.00	0.01	14.50	15.00	2RDR	

FORM 7B
PESTICIDE CALIBRATION VERIFICATION SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO91 NS MAYPORT SDG No.: WU0050

Instrument ID: GC06 Calibration Date: 01/16/04 Time: 0840

Lab File ID: 6UA4002 Init. Calib. Date(s): 12/10/03 01/08/04

Init. Calib. Times: 1641 1609

GC Column: RTX-35 ID: 0.53 (mm)

COMPOUND	RRF or AMOUNT	RRF1.0000 or AMOUNT	CCAL RRF1.0000	MIN RRF	%D or %DRIFT	MAX %D or %DRIFT	CURV TYPE	
Aroclor-1016	1.2658000	1.0000000	47356.000	0.01	26.58	15.00	2RDR	<-
(2)	1.2529000	1.0000000	24306.000	0.01	25.29	15.00	2RDR	<-
(3)	1.2213000	1.0000000	74918.000	0.01	22.13	15.00	2RDR	<-
(4)	1.2478000	1.0000000	34967.000	0.01	24.78	15.00	2RDR	<-
(5)	1.2375000	1.0000000	27823.000	0.01	23.75	15.00	2RDR	<-
Average %D: 24.510								
Aroclor-1260	1.1871000	1.0000000	53729.000	0.01	18.71	15.00	2RDR	<-
(2)	1.1950000	1.0000000	41841.000	0.01	19.50	15.00	2RDR	<-
(3)	1.1816000	1.0000000	86583.000	0.01	18.16	15.00	2RDR	<-
(4)	1.1802000	1.0000000	50819.000	0.01	18.02	15.00	2RDR	<-
(5)	1.1827000	1.0000000	24317.000	0.01	18.27	15.00	2RDR	<-
Average %D: 18.530								
Tetrachloro-m-xylene	2.51e-002	2.e-002	1708000.0	0.01	25.50	15.00	2RDR	<-
Decachlorobiphenyl	2.41e-002	2.e-002	1089800.0	0.01	20.50	15.00	2RDR	<-

FORM 2
SOIL SEMIVOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: CTO91 NS MAYPORT SDG No.: WU0050

GC Column(1): RTX-5 ID: 0.53 (mm) GC Column(2): RTX-35 ID: 0.53 (mm)

	CLIENT SAMPLE ID	LAB SAMPLE ID	TCX1 REC#	TCX2 REC#	DCB1 REC#	DCB2 REC#	OTHR (1)	OTHR (2)	TOT OUT
01	WG5361-BLANK	WG5361-1	96	104*	83	85			1
02	WG5361-LCS	WG5361-2	87	97	82	85			0
03	WG5361-LCSD	WG5361-3	98	109*	86	89			1
04	MPT-45-A1-2'	WU0050-1	77	87	72	76			0
05	MPT-45-A2-2'	WU0050-2	82	92	75	78			0
06	MPT-45-A3-2'	WU0050-3	78	87	73	77			0
07	MPT-45-A4-2'	WU0050-4	72	79	69	72			0
08	MPT-45-B1-2'	WU0050-5	68	77	63	66			0
09	MPT-45-B2-2'	WU0050-6	76	85	70	73			0
10	MPT-45-B3-2'	WU0050-7	85	94	81	84			0
11	MPT-45-B4-2'	WU0050-8	90	101	84	89			0
12	MPT-45-C1-2'	WU0050-9	82	93	77	80			0
13	MPT-45-C2-2'	WU0050-10	90	101	84	88			0
14	MPT-45-C3-2'	WU0050-11	93	106*	85	90			1
15	MPT-45-C4-2'	WU0050-12	80	91	75	79			0
16	MPT-45-D3-2'	WU0050-13	84	95	79	84			0
17	MPT-45-D4-2'	WU0050-14	79	90	51*	53*			2
18	MPT-45-E4-2'	WU0050-15	75	86	71	75			0
19	MPT-45-E4-5'	WU0050-16	83	96	70	74			0
20									
21									
22									
23									
24									
25									
26									
27									
28									

ADVISORY
QC LIMITS

S1 (TCX) = Tetrachloro-m-xylene (44-103)
S2 (DCB) = Decachlorobiphenyl (56-107)

Column to be used to flag recovery values
* Values outside of QC limits
D Surrogate diluted out

FORM 10
PESTICIDE IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

CLIENT SAMPLE ID: MPT-45-C2-2'

Lab Name: KATAHDIN ANALYTICAL SERVICES Project: CTO91 NS MAYPO

Lab Code: KAS PO No.: SDG No.: WU0050

Lab Sample ID: WU0050-10 Date(s) Analyzed: 01/15/04 01/15/04

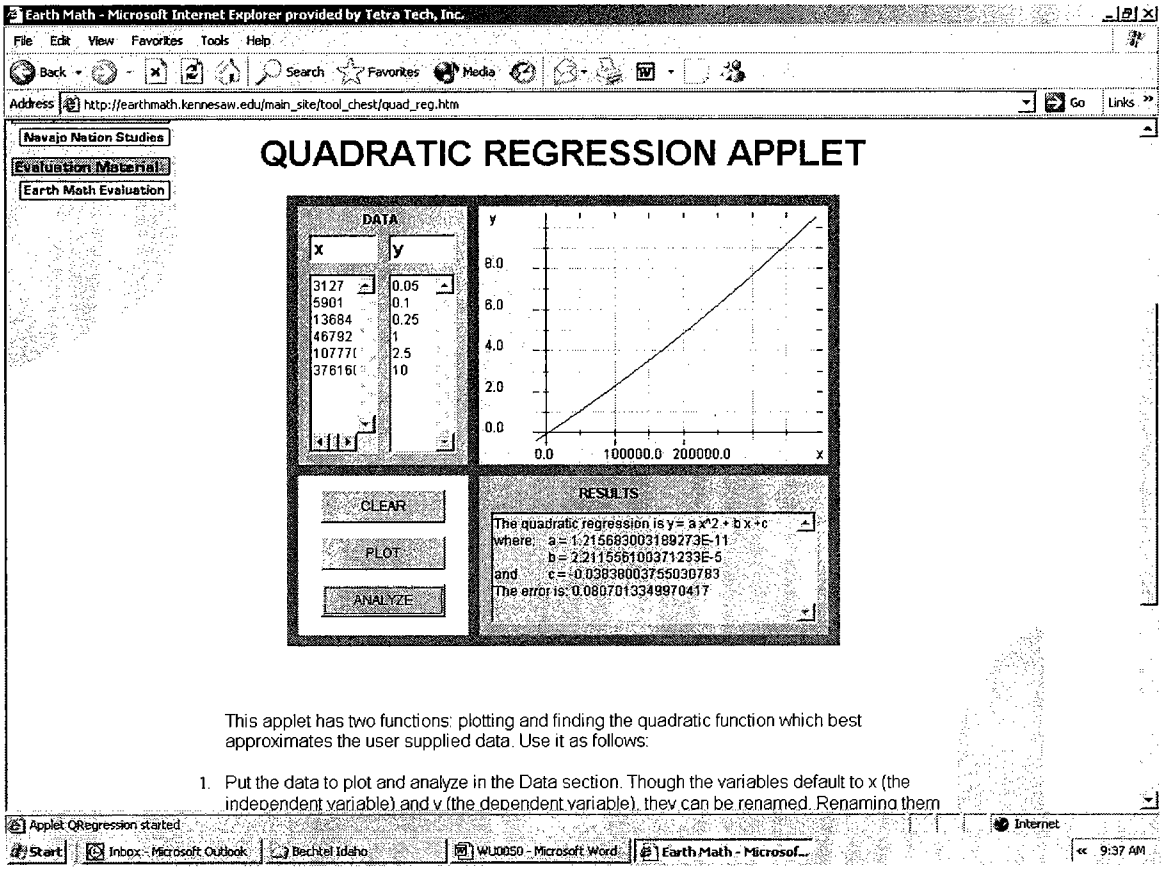
Instrument ID (1): GC06 Instrument ID (2): GC06

GC Column(1): RTX-5 ID: 0.53(mm) GC Column(2): RTX-35 ID: 0.53(mm)

ANALYTE	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	MEAN CONCENTRATION	%D
	1	16.02	15.97	16.11	13.5		
Aroclor-1260	2	16.56	16.51	16.65	10.6		
	3	17.14	17.10	17.24	10.6		
COLUMN 1	4	17.82	17.78	17.92	12.0		
	5					11.7	
	1	16.15	16.15	16.29	26.2		
	2	17.07	17.06	17.20	17.3		
	3	17.46	17.44	17.58	11.1		
COLUMN 2	4	18.43	18.42	18.56	14.7		
	5	19.56	19.55	19.69	14.7	16.8	30.4
	1						
	2						
	3						
COLUMN 1	4						
	5						
	1						
	2						
	3						
COLUMN 2	4						
	5						
	1						
	2						
	3						
COLUMN 1	4						
	5						
	1						
	2						
	3						
COLUMN 2	4						
	5						

At least 3 peaks are required for identification of multicomponent analytes.

FORM X PEST-2



Peak 1 Aroclor 1260 $= (1.21568 \times 10^{-11})(28720^2) + (2.211556)(28720) - 0.03838$

$0.0100273 + 0.63516 - 0.03838$

0.6068

$$\frac{(0.6068\ ng)(5000\ mL)}{(15\ g)(1\ mL)(0.912)} = 221.8$$

$$\text{Ave} = \frac{221.8 + 123 + 161 + 184}{4} = 172.4$$

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO91 NS MAYPORT
PO No:
Sample Date: 01/05/04
Received Date: 01/09/04
Extraction Date: 01/09/04
Analysis Date: 01/15/04
Report Date: 01/16/2004
Matrix: SOIL
% Solids: 91.2

Lab ID: WU0050-1
Client ID: MPT-45-A1-2'
SDG: WU0050
Extracted by: AZ
Extraction Method: SW846 3545
Analyst: LAD
Analysis Method: SW846 8082
Lab Prep Batch: WG5361
Units: ug/Kg

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
12674-11-2	Aroclor-1016	U	19	1.0	17	19	12
11104-28-2	Aroclor-1221	U	19	1.0	17	19	9.0
11141-16-5	Aroclor-1232	U	19	1.0	17	19	5.8
53469-21-9	Aroclor-1242	U	19	1.0	17	19	7.4
12672-29-6	Aroclor-1248	U	19	1.0	17	19	9.0
11097-69-1	Aroclor-1254	U	19	1.0	17	19	5.2
11096-82-5	Aroclor-1260		170	1.0	17	19	9.4
877-09-8	Tetrachloro-m-xylene		87%				
2051-24-3	Decachlorobiphenyl		76%				

Data File: \\Target_server\GG\chem\gc06.i\GC06UA15B1.B\6UA2178.d
Report Date: 16-Jan-2004 09:26

Katahdin Analytical Services

Data file : \\Target_server\GG\chem\gc06.i\GC06UA15B1.B\6UA2178.d
Lab Smp Id: WU0050-1 Client Smp ID: MPT-45-A1-2'
Inj Date : 15-JAN-2004 19:26
Operator : LAD Inst ID: gc06.i
Smp Info : PCBA023A.M,GC06UA15A1.B,1,WU0050-1
Misc Info : SW846 8082
Comment :
Method : \\Target_server\GG\chem\gc06.i\GC06UA15B1.B\PCBB023A.m
Meth Date : 16-Jan-2004 07:51 ldimond Quant Type: ESTD
Cal Date : 11-DEC-2003 04:32 Cal File: 6TL2173.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP Genie Compound Sublist: SW8082.sub
Target Version: 4.12 Sample Matrix: SOIL
Processing Host: TARGET02

Concentration Formula: Amt * DF * 1000*Vt*(100/(100-M))/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.00500	Volume of final extract (L)(1000 low, 20
M	8.794	% Moisture
Vo	0.01500	Sample Weight
Cpnd Variable		Local Compound Variable

RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COL (ug/mL)	FINAL (ug/Kg)	TARGET RANGE	RATIO
$ 3 Tetrachloro-m-xylene					CAS #: 877-09-8		
6.966	7.022	-0.056	109326	0.08689	31.8		
7 Aroclor-1260					CAS #: 11096-82-5		
16.197	16.222	-0.025	28720	0.61269	224	80.00- 120.00	100.00
17.064	17.129	-0.065	12709	0.33702	123	94.69- 142.03	44.25
17.444	17.514	-0.070	33917	0.44076	161	89.28- 133.92	118.10
18.423	18.491	-0.068	22580	0.50431	184	72.48- 108.73	78.62
19.617	19.617	0.000	0	0.000	0.000	60.00- 140.00	0.00
Average of Peak Concentrations =					173		
$ 8 Decachlorobiphenyl					CAS #: 2051-24-3		
21.017	21.080	-0.063	63233	0.07636	27.9		

FORM 6
SEMIVOLATILE INITIAL CALIBRATION DATA

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project CTO91 NS MAYPORT SDG No.: WU0050

Instrument ID: GC06 Calibration Date(s): 12/10/03 12/11/03

Column: RTX-35 ID: 0.53 (mm) Calibration Time(s): 1641 0432

LAB FILE ID: RF0.05: 6TL2169 RF0.1: 6TL2170 RF0.25: 6TL2171
RF1: 6TL2168 RF2.5: 6TL2172 RF10: 6TL2173

COMPOUND	RF0.05	RF0.1	RF0.25	RF1	RF2.5	RF10	CURVE	COEFFICENTS A0	A1	A2	%RSD OR R^2	MAX %RSD OR R^2	
Aroclor-1016	2963	5548	12423	39254	86600	277030	20RDR	-4e-002	3e-005	4e-011	0.99994	0.99000	
(2)	1349	2606	6097	20145	45477	148990	20RDR	-3e-002	5.e-005	1e-010	0.99996	0.99000	
(3)	4623	8673	19515	63656	144010	480640	20RDR	-3e-002	2e-005	1.e-011	0.99996	0.99000	
(4)	2055	3935	8926	29106	65698	216620	20RDR	-3e-002	3e-005	5e-011	0.99996	0.99000	
(5)	1445	2854	6687	23020	53564	182170	20RDR	-2e-002	4e-005	6e-011	0.99998	0.99000	
Aroclor-1221							20RDR					0.00000	<-
(2)							20RDR					0.00000	<-
(3)							20RDR					0.00000	<-
(4)							20RDR					0.00000	<-
Aroclor-1232							20RDR					0.00000	<-
(2)							20RDR					0.00000	<-
(3)							20RDR					0.00000	<-
(4)							20RDR					0.00000	<-
(5)							20RDR					0.00000	<-
Aroclor-1242	2776	4737	10883	35062	75070	230630	20RDR	-4e-002	3e-005	7e-011	0.99994	0.99000	
(2)	4132	7245	16806	55893	122830	389120	20RDR	-3e-002	2e-005	2.e-011	0.99996	0.99000	
(3)	1824	3301	7799	26004	56052	177420	20RDR	-3e-002	4e-005	1e-010	0.99993	0.99000	
(4)	1295	2342	5459	17756	37680	116020	20RDR	-4e-002	6e-005	3e-010	0.99992	0.99000	
(5)	1902	3371	7992	26610	57794	183620	20RDR	-3e-002	4e-005	9.e-011	0.99994	0.99000	
Aroclor-1248	2677	5238	15833	36562	112870	267340	20RDR	7e-002	1e-005	9e-011	0.99803	0.99000	
(2)	1702	3459	10669	25229	80604	192690	20RDR	8.e-002	2e-005	2e-010	0.99793	0.99000	
(3)	3422	6597	20167	46459	145990	347210	20RDR	8e-002	1e-005	5e-011	0.99797	0.99000	
(4)	2677	5241	16059	37274	117150	280260	20RDR	7e-002	1e-005	8e-011	0.99802	0.99000	
(5)	2356	4618	14428	34199	111630	270890	20RDR	8.e-002	1e-005	8e-011	0.99793	0.99000	
Aroclor-1254	1299	2092	5129	15874	37068	113150	20RDR	-2e-002	6e-005	3e-010	0.99997	0.99000	
(2)	1563	2464	6012	18490	43257	133240	20RDR	-2e-002	5.e-005	2e-010	0.99997	0.99000	
(3)	2596	4349	10605	33590	81232	259320	20RDR	-2e-002	3e-005	4e-011	0.99996	0.99000	
(4)	4767	8291	19906	62332	149850	479420	20RDR	-2e-002	2e-005	1e-011	0.99996	0.99000	
(5)	3854	6489	15513	47404	113810	360330	20RDR	-2e-002	2.e-005	2e-011	0.99995	0.99000	
Aroclor-1260	3127	5901	13684	46792	107770	376160	20RDR	-3e-002	2e-005	1e-011	0.99997	0.99000	
(2)	2362	4505	10543	36146	83455	290920	20RDR	-3e-002	3e-005	2e-011	0.99997	0.99000	
(3)	4995	9456	21848	75450	176160	635490	20RDR	-3e-002	1e-005	3e-012	0.99997	0.99000	
(4)	2761	5294	12619	44390	103120	364270	20RDR	-2e-002	2e-005	1e-011	0.99998	0.99000	
(5)	1240	2430	5913	21201	49272	173410	20RDR	-2e-002	5e-005	6e-011	0.99998	0.99000	
Tetrachloro-m-xylene	1894	3413	7434	27397	65699	226780	20RDR	-3e-004	7e-007	7e-013	1.00000	0.99000	
Decachlorobiphenyl	1111	2210	5428	19051	42637	144360	20RDR	-5e-004	1e-006	2e-012	0.99995	0.99000	

FORM 8
FL-PRO ANALYTICAL SEQUENCE

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code:

Project: CTO91 NS MAYPORT SDG No.: WU0050

GC Column: ZB-1 ID: 0.53 (mm) Init. Calib. Date(s): 01/15/04 01/15/04

Instrument ID: GC12

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION
S1 : 18.20 S2 : 24.42

	CLIENT SAMPLE ID	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	S1 RT #	S2 RT #
01	ICAL	FLPRO 5 UG/M	01/15/04	0329	18.20	24.42
02	ICAL	FLPRO 20 UG/	01/15/04	0438	18.20	24.42
03	ICAL	FLPRO 50 UG/	01/15/04	0548	18.20	24.42
04	ICAL	FLPRO 100UG/	01/15/04	0658	18.20	24.42
05	ICAL	FLPRO 200UG/	01/15/04	0809	18.20	24.42
06	INDSOURCE	FLPRO IND	01/15/04	0919	18.20	24.42
07	WG5362-BLANK	WG5362-1	01/15/04	1656	18.21	24.43
08	WG5362-LCS	WG5362-2	01/15/04	1806	18.21	24.42
09	WG5362-LCSD	WG5362-3	01/15/04	1916	18.20	24.42
10	MPT-45-D4-2'	WU0050-14	01/15/04	2026	18.20	24.42
11	MPT-45-E4-2'	WU0050-15	01/15/04	2136	18.20	24.42
12	MPT-45-A1-2'	WU0050-1	01/15/04	2247	18.20	24.41
13	MPT-45-A2-2'	WU0050-2	01/15/04	2356	18.20	24.41
14	MPT-45-A3-2'	WU0050-3	01/16/04	0106	18.20	24.43
15	CV	FLPRO 50 UG/	01/16/04	0548	18.20	24.42
16	MPT-45-E4-5'	WU0050-16	01/16/04	0658	18.20	24.42
17	MPT-45-C1-2'	WU0050-9	01/16/04	0809	18.20	24.41
18	MPT-45-C2-2'	WU0050-10	01/16/04	0918	18.20	24.43
19	MPT-45-C4-2'	WU0050-12	01/16/04	1029	18.20	24.43
20	MPT-45-C3-2'	WU0050-11	01/16/04	1250	18.20	24.41

QC LIMITS

S1 = O-Terphenyl (+/- 0.36 MINUTES)
S2 = n-Triacontane-D62 (+/- 0.49 MINUTES)

Column used to flag retention time values with an asterisk.
* Values outside of QC limits.

FORM 8
FL-PRO ANALYTICAL SEQUENCE

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code:

Project: CTO91 NS MAYPORT SDG No.: WU0050

GC Column: ZB-1 ID: 0.53 (mm) Init. Calib. Date(s): 01/15/04 01/15/04

Instrument ID: GC12

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION
S1 : 18.20 S2 : 24.42

	CLIENT SAMPLE ID	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	S1 RT #	S2 RT #
01	MPT-45-B2-2'	WU0050-6	01/16/04	1400	18.20	24.41
02	MPT-45-B4-2'	WU0050-8	01/16/04	1620	18.20	24.41
03	CV	FLPRO 50 UG/	01/19/04	1219	18.20	24.42
04	CV	FLPRO 50 UG/	01/19/04	2040	18.19	24.41
05	MPT-45-A4-2'	WU0050-4DL	01/20/04	0341	18.20	24.40
06	MPT-45-B1-2'	WU0050-5DL	01/20/04	0451	18.20	24.40
07	MPT-45-B3-2'	WU0050-7DL	01/20/04	0602	18.20	24.40
08	MPT-45-D3-2'	WU0050-13DL	01/20/04	0712	18.20	24.40
09	CV	FLPRO 50 UG/	01/20/04	1042	18.19	24.41
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						

QC LIMITS

S1 = O-Terphenyl (+/- 0.36 MINUTES)
S2 = n-Triacontane-D62 (+/- 0.49 MINUTES)

Column used to flag retention time values with an asterisk.
* Values outside of QC limits.

FORM 6
FL-PRO INITIAL CALIBRATION DATA

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code:

Project CTO91 NS MAYPORT SDG No.: WU0050

Instrument ID: GC12 Calibration Date(s): 01/15/04 01/15/04

Column: ZB-1 ID: 0.53 (mm) Calibration Time(s): 0329 0809

LAB FILE ID: RF5: CUA2058 RF20: CUA2059 RF50: CUA2060
RF100: CUA2061 RF200: CUA2062

COMPOUND	RF5	RF20	RF50	RF100	RF200	CURVE	COEFFICENTS A0	COEFFICENTS A1	%RSD OR R^2	MAX %RSD OR R^2
C-8	29571	113520	285540	559500	1120700	LINR	-0.3180	2e-004	0.99998	0.99000
C-10	44616	119260	291320	572080	1153100	LINR	-0.9962	2e-004	0.99981	0.99000
C-16	30385	117240	293420	575020	1165800	LINR	-3e-002	2e-004	0.99994	0.99000
FL-PRO peaks C8-C40	491480	1955200	4966100	9706200	2.e+007	LINR	0.84270	2e-004	0.99994	0.99000
C-38	28905	107560	279190	558160	1129200	LINR	0.41790	2e-004	0.99995	0.99000
C-40	23709	102680	285040	550470	1136800	LINR	1.00040	2e-004	0.99970	0.99000
C-32	29450	114070	293980	572950	1156100	LINR	-4e-002	2e-004	0.99995	0.99000
C-34	29113	115760	300230	585980	1178500	LINR	-2e-002	2e-004	0.99995	0.99000
O-Terphenyl	6399.80	6360.20	6552.40	6396.50	6295.50	AVRG		6400.87	1.477	40.000
n-Triacontane-D62	5100.80	5099.40	5229.10	5106.60	5062.00	AVRG		5119.58	1.245	40.000
C-12	8727	118790	296890	573940	1155400	LINR	0.67416	2e-004	0.99955	0.99000
C-14	30797	116970	289990	572110	1157900	LINR	-6e-002	2e-004	0.99996	0.99000
C-18	29940	116910	292420	573010	1166600	LINR	8e-002	2e-004	0.99991	0.99000
C-20	29610	116560	293280	571720	1164600	LINR	7e-002	2e-004	0.99990	0.99000
C-22	29259	116660	293340	572810	1169300	LINR	0.16149	2e-004	0.99989	0.99000
C-24	28608	115080	291160	567020	1159700	LINR	0.21946	2e-004	0.99986	0.99000
C-26	29407	115890	294330	572720	1167500	LINR	0.11743	2e-004	0.99989	0.99000
C-28	29723	116310	294110	572040	1164400	LINR	3e-002	2e-004	0.99990	0.99000
C-30	31378	117890	295870	573650	1161900	LINR	-0.2571	2e-004	0.99992	0.99000
C-36	28271	114090	296030	583060	1159300	LINR	-0.1381	2e-004	0.99995	0.99000

FORM VI FL-PRO

FORM 7B
SEMIVOLATILE CALIBRATION VERIFICATION SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code:

Project: CTO91 NS MAYPORT SDG No.: WU0050

Instrument ID: GC12 Calibration Date: 01/19/04 Time: 1219

Lab File ID: CUA2085B Init. Calib. Date(s): 01/15/04 01/15/04

Init. Calib. Times: 0329 0809

GC Column: ZB-1 ID: 0.53 (mm)

COMPOUND	RRF or AMOUNT	RRF50.000 or AMOUNT	CCAL RRF50.000	MIN RRF	%D or %DRIFT	MAX %D or %DRIFT	CURV TYPE	
C-24	49.080000	50.000000	5652.7000	0.01	-1.84	25.00	LINR	
C-8	50.004000	50.000000	5631.0000	0.01	0.01	25.00	LINR	
C-10	49.187000	50.000000	5744.0000	0.01	-1.63	25.00	LINR	
C-12	50.521000	50.000000	5788.1000	0.01	1.04	25.00	LINR	
C-14	49.802000	50.000000	5759.1000	0.01	-0.40	25.00	LINR	
C-16	49.933000	50.000000	5811.4000	0.01	-0.13	25.00	LINR	
C-18	49.759000	50.000000	5780.3000	0.01	-0.48	25.00	LINR	
C-28	47.018000	50.000000	5457.1000	0.01	-5.96	25.00	LINR	
C-20	49.917000	50.000000	5790.9000	0.01	-0.17	25.00	LINR	
C-22	49.692000	50.000000	5777.4000	0.01	-0.62	25.00	LINR	
C-26	48.771000	50.000000	5667.0000	0.01	-2.46	25.00	LINR	
C-30	46.032000	50.000000	5361.4000	0.01	-7.94	25.00	LINR	
C-36	34.995000	50.000000	4077.2000	0.01	-30.01	25.00	LINR	<-
FL-PRO peaks C8-C40	759.67000	850.00000	5160.5000	0.01	-10.63	25.00	LINR	
C-38	26.160000	50.000000	2906.7000	0.01	-47.68	25.00	LINR	<-
C-40	18.983000	50.000000	2045.6000	0.01	-62.03	25.00	LINR	<-
C-32	46.995000	50.000000	5431.5000	0.01	-6.01	25.00	LINR	
C-34	42.823000	50.000000	5047.4000	0.01	-14.35	25.00	LINR	
O-Terphenyl	6400.9000	6507.8000	6507.8000	0.01	1.67	25.00	AVRG	
n-Triacontane-D62	5119.6000	5060.1000	5060.1000	0.01	-1.16	25.00	AVRG	

FORM VII PEST

FORM 7B
SEMIVOLATILE CALIBRATION VERIFICATION SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code:

Project: CTO91 NS MAYPORT SDG No.: WU0050

Instrument ID: GC12 Calibration Date: 01/19/04 Time: 2040

Lab File ID: CUA2093 Init. Calib. Date(s): 01/15/04 01/15/04

Init. Calib. Times: 0329 0809

GC Column: ZB-1 ID: 0.53 (mm)

COMPOUND	RRF or AMOUNT	RRF50.000 or AMOUNT	CCAL RRF50.000	MIN RRF	%D or %DRIFT	MAX %D or %DRIFT	CURV TYPE	
C-24	38.126000	50.000000	4385.4000	0.01	-23.75	25.00	LINR	
C-8	40.628000	50.000000	4581.8000	0.01	-18.74	25.00	LINR	
C-10	39.581000	50.000000	4644.5000	0.01	-20.84	25.00	LINR	
C-12	39.894000	50.000000	4554.1000	0.01	-20.21	25.00	LINR	
C-14	38.616000	50.000000	4467.0000	0.01	-22.77	25.00	LINR	
C-16	38.278000	50.000000	4455.9000	0.01	-23.44	25.00	LINR	
C-18	38.486000	50.000000	4468.5000	0.01	-23.03	25.00	LINR	
C-28	38.085000	50.000000	4419.5000	0.01	-23.83	25.00	LINR	
C-20	38.320000	50.000000	4443.7000	0.01	-23.36	25.00	LINR	
C-22	38.411000	50.000000	4461.5000	0.01	-23.18	25.00	LINR	
C-26	38.003000	50.000000	4412.8000	0.01	-23.99	25.00	LINR	
C-30	38.233000	50.000000	4458.2000	0.01	-23.53	25.00	LINR	
C-36	36.910000	50.000000	4299.5000	0.01	-26.18	25.00	LINR	<-
FL-PRO peaks C8-C40	648.55000	850.00000	4400.3000	0.01	-23.70	25.00	LINR	
C-38	36.633000	50.000000	4089.2000	0.01	-26.73	25.00	LINR	<-
C-40	34.986000	50.000000	3865.8000	0.01	-30.03	25.00	LINR	<-
C-32	37.870000	50.000000	4377.8000	0.01	-24.26	25.00	LINR	
C-34	37.488000	50.000000	4418.9000	0.01	-25.02	25.00	LINR	<-
O-Terphenyl	6400.9000	5054.0000	5054.0000	0.01	-21.04	25.00	AVRG	
n-Triacontane-D62	5119.6000	3947.8000	3947.8000	0.01	-22.89	25.00	AVRG	

FORM VII PEST

FORM 7B
SEMIVOLATILE CALIBRATION VERIFICATION SUMMARY

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code:

Project: CTO91 NS MAYPORT SDG No.: WU0050

Instrument ID: GC12 Calibration Date: 01/20/04 Time: 1042

Lab File ID: CUA2105 Init. Calib. Date(s): 01/15/04 01/15/04

Init. Calib. Times: 0329 0809

GC Column: ZB-1 ID: 0.53 (mm)

COMPOUND	RRF or AMOUNT	RRF50.000 or AMOUNT	CCAL RRF50.000	MIN RRF	%D or %DRIFT	MAX %D or %DRIFT	CURV TYPE	
C-24	37.150000	50.000000	4272.5000	0.01	-25.70	25.00	LINR	<-
C-8	38.444000	50.000000	4337.5000	0.01	-23.11	25.00	LINR	
C-10	38.279000	50.000000	4495.5000	0.01	-23.44	25.00	LINR	
C-12	39.846000	50.000000	4548.5000	0.01	-20.31	25.00	LINR	
C-14	37.787000	50.000000	4371.2000	0.01	-24.43	25.00	LINR	
C-16	37.709000	50.000000	4389.7000	0.01	-24.58	25.00	LINR	
C-18	37.710000	50.000000	4378.2000	0.01	-24.58	25.00	LINR	
C-28	37.209000	50.000000	4317.8000	0.01	-25.58	25.00	LINR	<-
C-20	37.553000	50.000000	4354.7000	0.01	-24.89	25.00	LINR	
C-22	37.507000	50.000000	4356.1000	0.01	-24.99	25.00	LINR	
C-26	36.354000	50.000000	4220.7000	0.01	-27.29	25.00	LINR	<-
C-30	36.592000	50.000000	4268.1000	0.01	-26.82	25.00	LINR	<-
C-36	36.655000	50.000000	4269.9000	0.01	-26.69	25.00	LINR	<-
FL-PRO peaks C8-C40	638.15000	850.00000	4329.3000	0.01	-24.92	25.00	LINR	
C-38	37.351000	50.000000	4170.3000	0.01	-25.30	25.00	LINR	<-
C-40	38.258000	50.000000	4238.1000	0.01	-23.48	25.00	LINR	
C-32	36.692000	50.000000	4241.9000	0.01	-26.62	25.00	LINR	<-
C-34	37.054000	50.000000	4367.8000	0.01	-25.89	25.00	LINR	<-
O-Terphenyl	6400.9000	4861.6000	4861.6000	0.01	-24.05	25.00	AVRG	
n-Triacontane-D62	5119.6000	3847.0000	3847.0000	0.01	-24.86	25.00	AVRG	

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client:
Project: CTO91 NS MAYPORT
PO No:
Sample Date:
Received Date:
Extraction Date: 01/09/04
Analysis Date: 01/15/04
Report Date: 01/21/2004
Matrix: SOIL
% Solids: 100

Lab ID: WG5362-1
Client ID: WG5362-Blank
SDG: WU0050
Extracted by: AZ
Extraction Method: SW846 3550
Analyst: SAW
Analysis Method: SW846 M8015
Lab Prep Batch: WG5362
Units: mg/Kg

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
	Petroleum Range Organics	J	4.5	1.0	20	20	1.4
	n-Triacontane-D62		95%				
	O-Terphenyl		90%				

X-VALUE	Y-VALUE	CORREL	SLOPE
491480	85	0.999879	0.000170195
1955200	340	Y-INTERC	
4966100	850	11.50986	
9706200	1700		
20000000	3400		
10048776	1721.757		

$$\frac{(1721.8\ \mu g/mL)(2\ mL)(5)}{(30\ g)(0.932)} = 615.8\ \mu g/g = mg/kg$$

KATAHDIN ANALYTICAL SERVICES
Report of Analytical Results

Client: Tetra Tech NUS, Inc
Project: CTO91 NS MAYPORT
PO No:
Sample Date: 01/05/04
Received Date: 01/09/04
Extraction Date: 01/09/04
Analysis Date: 01/20/04
Report Date: 01/21/2004
Matrix: SOIL
% Solids: 93.2

Lab ID: WU0050-13DL
Client ID: MPT-45-D3-2'
SDG: WU0050
Extracted by: AZ
Extraction Method: SW846 3550
Analyst: SAW
Analysis Method: SW846 M8015
Lab Prep Batch: WG5362
Units: mg/Kg

CAS#	Compound	Flags	Results	DF	PQL	Adj.PQL	Adj.MDL
	Petroleum Range Organics	B	620	5.0	20	110	7.5
	n-Triacontane-D62		94%				
	O-Terphenyl		90%				

Data File: \\Target_server\GG\chem\gc12.i\GC12UA19B1.B\CUA2102.d
Report Date: 20-Jan-2004 15:34

Katahdin Analytical Services

Data file : \\Target_server\GG\chem\gc12.i\GC12UA19B1.B\CUA2102.d
Lab Smp Id: WU0050-13DL Client Smp ID: MPT-45-D3-2'
Inj Date : 20-JAN-2004 07:12
Operator : SAW Inst ID: gc12.i
Smp Info : FLPB004A.M,GC12UA19B1.B,5,WU0050-13DL
Misc Info : SW846 M8015
Comment :
Method : \\TARGET_SERVER\GG\chem\gc12.i\GC12UA19B1.B\FLPB004A.m
Meth Date : 20-Jan-2004 14:08 swilkinson Quant Type: ESTD
Cal Date : 15-JAN-2004 08:09 Cal File: CUA2062.d
Als bottle: 1
Dil Factor: 5.00000
Integrator: HP Genie Compound Sublist: SW8015M-FLPRO.sub
Subtraction File: \\Target_server\GG\chem\gc12.i\GC12UA19B1.B\CUA2092.d
Target Version: 4.12
Processing Host: TARGET01

Concentration Formula: Amt * DF * (Vt/Vo)*(100/(100-M)) * CpndVariable

Name	Value	Description
DF	5.000	Dilution Factor
Vt	0.00200	Final Volume (L)
Vo	0.03000	Sample Weight (Kg)
M	6.744	Moisture (%)
Cpnd Variable		Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	CONCENTRATIONS FINAL (mg/Kg)
$ 9 O-Terphenyl	18.200	18.200	0.000	57777	9.02643	3.2(M)
$ 15 n-Triacontane-D62	24.400	24.422	-0.022	288318	56.3167	20(M)
S 7 Petroleum Range Organics	7.344-50.189			10048776	1740.92	620(M)

QC Flag Legend

M - Compound response manually integrated.

FORM 6
FL-PRO INITIAL CALIBRATION DATA

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code:

Project CTO91 NS MAYPORT SDG No.: WU0050

Instrument ID: GC12 Calibration Date(s): 01/15/04 01/15/04

Column: ZB-1 ID: 0.53 (mm) Calibration Time(s): 0329 0809

LAB FILE ID: RF5: CUA2058 RF20: CUA2059 RF50: CUA2060
RF100: CUA2061 RF200: CUA2062

COMPOUND	RF5	RF20	RF50	RF100	RF200	CURVE	COEFFICENTS A0	COEFFICENTS A1	%RSD OR R^2	MAX %RSD OR R^2
C-8	29571	113520	285540	559500	1120700	LINR	-0.3180	2e-004	0.99998	0.99000
C-10	44616	119260	291320	572080	1153100	LINR	-0.9962	2e-004	0.99981	0.99000
C-16	30385	117240	293420	575020	1165800	LINR	-3e-002	2e-004	0.99994	0.99000
FL-PRO peaks C8-C40	491480	1955200	4966100	9706200	2.e+007	LINR	0.84270	2e-004	0.99994	0.99000
C-38	28905	107560	279190	558160	1129200	LINR	0.41790	2e-004	0.99995	0.99000
C-40	23709	102680	285040	550470	1136800	LINR	1.00040	2e-004	0.99970	0.99000
C-32	29450	114070	293980	572950	1156100	LINR	-4e-002	2e-004	0.99995	0.99000
C-34	29113	115760	300230	585980	1178500	LINR	-2e-002	2e-004	0.99995	0.99000
O-Terphenyl	6399.80	6360.20	6552.40	6396.50	6295.50	AVRG		6400.87	1.477	40.000
n-Triacontane-D62	5100.80	5099.40	5229.10	5106.60	5062.00	AVRG		5119.58	1.245	40.000
C-12	8727	118790	296890	573940	1155400	LINR	0.67416	2e-004	0.99955	0.99000
C-14	30797	116970	289990	572110	1157900	LINR	-6e-002	2e-004	0.99996	0.99000
C-18	29940	116910	292420	573010	1166600	LINR	8e-002	2e-004	0.99991	0.99000
C-20	29610	116560	293280	571720	1164600	LINR	7e-002	2e-004	0.99990	0.99000
C-22	29259	116660	293340	572810	1169300	LINR	0.16149	2e-004	0.99989	0.99000
C-24	28608	115080	291160	567020	1159700	LINR	0.21946	2e-004	0.99986	0.99000
C-26	29407	115890	294330	572720	1167500	LINR	0.11743	2e-004	0.99989	0.99000
C-28	29723	116310	294110	572040	1164400	LINR	3e-002	2e-004	0.99990	0.99000
C-30	31378	117890	295870	573650	1161900	LINR	-0.2571	2e-004	0.99992	0.99000
C-36	28271	114090	296030	583060	1159300	LINR	-0.1381	2e-004	0.99995	0.99000

FORM VI FL-PRO

Tetra Tech NUS **INTERNAL CORRESPONDENCE**

TO: **T. HANSEN** **DATE:** **MARCH 3, 2004**

FROM: **JACQUELINE J. RASPANTI** **COPIES:** **DV FILE**

SUBJECT: **INORGANIC DATA VALIDATION – TAL METALS AND CYANIDE**
CTO- 091 NS MAYPORT
SAMPLE DELIVERY GROUP (SDG) – WU0050

SAMPLES: 16/SOIL/

MPT-45-A1-2'	MPT-45-A2-2'	MPT-45-A3-2'
MPT-45-A4-2'	MPT-45-B1-2'	MPT-45-B2-2'
MPT-45-B3-2'	MPT-45-B4-2'	MPT-45-C1-2'
MPT-45-C2-2'	MPT-45-C3-2'	MPT-45-C4-2'
MPT-45-D3-2'	MPT-45-D4-2'	MPT-45-E4-2'
MPT-45-E4-5'		

Overview

The sample set for NS Mayport, CTO 091, SDG WU0050, consists of sixteen (16) soil environmental samples.

All samples were analyzed for target analyte list (TAL) metals and cyanide. The samples were collected by Tetra Tech NUS on January 5, 2004 and analyzed by Katahdin Analytical Services under Naval Facilities Engineering Service Center (NFESC) Quality Assurance/Quality Control (QA/QC) criteria. Metals analyses except for mercury were conducted using SW846 method 6010B. Mercury analyses were conducted using SW846 method 7471A. Cyanide analyses were conducted using SW846 method 9012A.

Metals analyses, with the exception of mercury, were conducted using Inductively Coupled Plasma (ICP) methodologies. Mercury analysis was conducted using Cold Vapor Atomic Absorption (CVAA) methodology.

These data were evaluated based on the following parameters:

* • Data Completeness
* • Holding Times
* • Calibration Verification Results
• Laboratory Blank Analyses
• ICP Interference Check Sample Results
• Matrix Spike / Matrix Spike Duplicate Results
* • Laboratory Control Sample Results
* • ICP Serial Dilution Results
• Detection Limits
* • Sample Quantitation

* - All quality control criteria were met for this parameter.

Laboratory Blank Analyses

The following contaminants were detected in the laboratory method/preparation blanks at the following maximum concentration:

Analyte	Maximum Concentration	Action Level
Aluminum	50.41 ug/L	25.205 mg/kg
Beryllium	0.51 ug/L	0.255 mg/kg
Calcium	43.93 ug/L	21.965 mg/kg
Chromium[(1)]	0.114 mg/kg	0.57 mg/kg
Iron	20.20 ug/L	10.1 mg/kg
Magnesium	45.90 ug/L	22.95 mg/kg
Sodium[(1)]	3.891 mg/kg	19.455 mg/kg
Thallium[(1)]	0.673 mg/kg	3.365 mg/kg

[(1)] Maximum concentration present in soil preparation blank.

An action level of 5X the maximum concentration was used to evaluate the sample data for blank contamination. Sample aliquot, percent solids, and dilution factors, if applicable, were taken into consideration when evaluating for blank contamination. Positive results less than the action level reported for beryllium and thallium were qualified as non-detected (U) as a result of laboratory blank contamination. The remaining analytes were not qualified because the results were greater than the action level.

ICP Interference Check Sample Results

The interfering analyte calcium was present in samples MPT-45-A1-2' and MPT-45-B1-2' at a concentration comparable to the concentration of calcium in the ICS solution. Several analytes, namely antimony, arsenic, barium, beryllium, cadmium, chromium, cobalt, lead, manganese, nickel, selenium, silver, sodium, thallium, and zinc were present in the ICS solution at concentrations that exceeded the absolute value of the IDL. Interference effects exist for antimony, arsenic, cadmium, cobalt, and selenium in the affected samples. Positive results reported for antimony, arsenic, cadmium, cobalt, and selenium were qualified as estimated (J).

The interfering analyte calcium was present in samples MPT-45-A2-2', MTP-45-A3-2', and MPT-45-B2-2' at a concentration comparable to the concentration of calcium in the ICS solution. Several analytes, namely antimony, arsenic, barium, beryllium, cadmium, chromium, cobalt, lead, manganese, nickel, selenium, silver, sodium, thallium, and zinc were present in the ICS solution at concentrations that exceeded the absolute value of the IDL. Interference effects exist for antimony, arsenic, cadmium, cobalt, nickel, selenium, and silver in the affected samples. Positive results reported for antimony, arsenic, cadmium, cobalt, nickel, selenium, and silver were qualified as estimated (J).

The interfering analyte calcium was present in samples MPT-45-A4-2' and MPT-45-B3-2' at a concentration comparable to the concentration of calcium in the ICS solution. Several analytes, namely antimony, arsenic, barium, beryllium, cadmium, chromium, cobalt, lead, manganese, nickel, selenium, silver, sodium, thallium, and zinc were present in the ICS solution at concentrations that exceeded the absolute value of the IDL. Interference effects exist for antimony, arsenic, cadmium, cobalt, selenium, and silver in the affected samples. Positive results reported for antimony, arsenic, cadmium, cobalt, selenium, and silver were qualified as estimated (J).

The interfering analyte calcium was present in sample MPT-45-B4-2' at a concentration comparable to the concentration of calcium in the ICS solution. Several analytes, namely antimony, arsenic, barium, beryllium, cadmium, chromium, cobalt, lead, manganese, nickel,

selenium, silver, sodium, thallium, and zinc were present in the ICS solution at concentrations that exceeded the absolute value of the IDL. Interference effects exist for arsenic, cadmium, cobalt, and selenium in the affected sample. Positive results reported for arsenic, cadmium, cobalt, and selenium were qualified as estimated (J).

The interfering analyte calcium was present in sample MPT-45-C1-2' at a concentration comparable to the concentration of calcium in the ICS solution. Several analytes, namely antimony, arsenic, barium, beryllium, cadmium, chromium, cobalt, lead, manganese, nickel, selenium, silver, sodium, thallium, and zinc were present in the ICS solution at concentrations that exceeded the absolute value of the IDL. Interference effects exist for antimony, arsenic, cadmium, cobalt, nickel, selenium, and silver in the affected sample. Positive results reported for antimony, arsenic, cobalt, nickel and silver were qualified as estimated (J). Nondetected results reported for cadmium and selenium were qualified as estimated (UJ).

The interfering analyte calcium was present in sample MPT-45-C4-2' at a concentration comparable to the concentration of calcium in the ICS solution. Several analytes, namely antimony, arsenic, barium, beryllium, cadmium, chromium, cobalt, lead, manganese, nickel, selenium, silver, sodium, thallium, and zinc were present in the ICS solution at concentrations that exceeded the absolute value of the IDL. Interference effects exist for antimony, arsenic, cadmium, cobalt, nickel, selenium, and silver in the affected sample. Positive results reported for antimony, arsenic, cadmium, cobalt, nickel, and silver were qualified as estimated (J). The nondetected result reported selenium was qualified as estimated (UJ).

The interfering analyte calcium was present in sample MPT-45-D3-2' at a concentration comparable to the concentration of calcium in the ICS solution. Several analytes, namely antimony, arsenic, barium, beryllium, cadmium, chromium, cobalt, lead, manganese, nickel, selenium, silver, sodium, thallium, and zinc were present in the ICS solution at concentrations that exceeded the absolute value of the IDL. Interference effects exist for antimony, arsenic, cadmium, cobalt, nickel, selenium, silver, and sodium in the affected sample. Positive results reported for antimony, arsenic, cadmium, cobalt, nickel and sodium were qualified as estimated (J). Nondetected results reported for selenium and silver were qualified as estimated (UJ).

The interfering analyte calcium was present in sample MPT-45-E4-5' at a concentration comparable to the concentration of calcium in the ICS solution. Several analytes, namely antimony, arsenic, barium, beryllium, cadmium, chromium, cobalt, lead, manganese, nickel, selenium, silver, sodium, thallium, and zinc were present in the ICS solution at concentrations that exceeded the absolute value of the IDL. Interference effects exist for antimony, arsenic, cadmium, cobalt, nickel, selenium, and silver in the affected sample. Positive results reported for antimony, arsenic, cobalt, and nickel were qualified as estimated (J). Nondetected results reported for cadmium, selenium, and silver were qualified as estimated (UJ).

Matrix Spike / Matrix Spike Duplicate Results

The Matrix Spike (MS) and Matrix Spike Duplicate (MSD) percent recoveries (%R's) were <30% quality control limit for mercury. However, the original sample concentration was between 3 (three) and 4 (four) times the spike level concentration. Therefore, positive results reported for mercury were qualified as estimated (J). Nondetected results reported for mercury were qualified as estimated (UJ).

The MS and MSD %R's were <75% quality control limit for antimony and silver. Positive results reported for antimony and silver were qualified as estimated (J). Nondetected results reported for antimony and silver were qualified as estimated (UJ).

The MS and MSD %R's were >125% quality control limit for magnesium. Positive results reported for magnesium were qualified as estimated (J).

The MSD %R was <75% quality control limit for zinc. Positive results reported for zinc were qualified as estimated (J).

Detection Limits

Results reported below the detection limit for cyanide were qualified as estimated (J).

Notes

The Chain of Custody type of analysis for the samples states all analysis. The laboratory analyzed the samples for TAL metals and cyanide which agrees with the Master Agreement Work Release.

The Practical Quantitation Limit (PQL) %R run on 01/14/04 at 9:55 am was >130% quality control limit for magnesium. No qualification action was taken based on PQL standards.

The MS and MSD %R's for aluminum, calcium, and iron, and the MS for copper were outside quality control limits. No qualification action was required due to the original sample concentration exceeding four (4) times the spike level concentration.

Katahdin Analytical Services did not perform a laboratory duplicate as part of the analysis. A MS and MSD were performed on sample MPT-45-A1-2'.

Dilutions were performed on several samples for calcium, copper, and mercury.

Executive Summary

Laboratory Performance: Several analytes were present in the laboratory method/preparation blanks.

Other Factors Affecting Data Quality: Several analytes were qualified due to ICP interference. Antimony, magnesium, mercury, silver, and zinc were qualified due to MS noncompliance. Cyanide was qualified due to uncertainty near the detection limit.

The data for these analyses were reviewed with reference to the "National Functional Guidelines for Inorganic Data Review" (July 2002), and the NFESC document entitled "Navy IRCDQM" (September 1999).

The text of this report has been formulated to address only those problem areas affecting data quality.

"I attest that the data referenced herein were validated according to the agreed upon validation criteria as specified in the NFESC Guidelines and the Quality Assurance Project Plan (QAPP)."

Jacqueline J. Rasponti

Tetra Tech NUS
Jacqueline J. Rasponti
Environmental Scientist

Edward Dollmeyer for

Tetra Tech NUS
Joseph A. Samchuck
Quality Assurance Officer

Attachments:

1. Appendix A - Qualified Analytical Results
2. Appendix B - Results as reported by the Laboratory
3. Appendix C - Support Documentation

APPENDIX A

QUALIFIED ANALYTICAL RESULTS

Qualifier Codes:

A = Lab Blank Contamination
B = Field Blank Contamination
C = Calibration Noncompliance (i.e., % RSDs, %Ds, ICVs, CCVs, RRFs, etc.)
C01 = GC/MS Tuning Noncompliance
D = MS/MSD Recovery Noncompliance
E = LCS/LCSD Recovery Noncompliance
F = Lab Duplicate Imprecision
G = Field Duplicate Imprecision
H = Holding Time Exceedance
I = ICP Serial Dilution Noncompliance
J = GFAA PDS - GFAA MSA's $r < 0.995$
K = ICP Interference - includes ICS % R Noncompliance
L = Instrument Calibration Range Exceedance
M = Sample Preservation Noncompliance
N = Internal Standard Noncompliance
N01 = Internal Standard Recovery Noncompliance Dioxins
N02 = Recovery Standard Noncompliance Dioxins
N03 = Clean-up Standard Noncompliance Dioxins
O = Poor Instrument Performance (i.e., base-time drifting)
P = Uncertainty near detection limit (< 2 x IDL for inorganics and <CRQL for organics)
Q = Other problems (can encompass a number of issues; i.e.chromatography,interferences, etc.)
R = Surrogates Recovery Noncompliance
S = Pesticide/PCB Resolution
T = % Breakdown Noncompliance for DDT and Endrin
U = % Difference between columns/detectors >25% for positive results determined via GC/HPLC
V = Non-linear calibrations; correlation coefficient $r < 0.995$
W = EMPC result
X = Signal to noise response drop
Y = Percent solids <30%
Z = Uncertainty at 2 sigma deviation is less than sample activity

PROJ_NO: 0123

SDG: WU0050 MEDIA: SOIL DATA FRACTION: M

nsample	MPT-45-A1-2'	nsample	MPT-45-A2-2'	nsample	MPT-45-A3-2'
samp_date	1/5/2004	samp_date	1/5/2004	samp_date	1/5/2004
lab_id	WU0050-001	lab_id	WU0050-002	lab_id	WU0050-003
qc_type	NM	qc_type	NM	qc_type	NM
units	MG/KG	units	MG/KG	units	MG/KG
Pct_Solids	91.2	Pct_Solids	93.0	Pct_Solids	95.4
DUP_OF:		DUP_OF:		DUP_OF:	

Parameter	Result	Val Qual	Qual Code
ALUMINUM	2100		
ANTIMONY	0.48	J	DK
ARSENIC	1.1	J	K
BARIUM	30.9		
BERYLLIUM	0.15	U	A
CADMIUM	0.58	J	K
CALCIUM	24800		
CHROMIUM	9.3		
COBALT	1.1	J	K
COPPER	154		
IRON	3600		
LEAD	26.5		
MAGNESIUM	501	J	D
MANGANESE	35.2		
MERCURY	0.56	J	D
NICKEL	12.8		
POTASSIUM	181		
SELENIUM	0.52	J	K
SILVER	5.6	J	D
SODIUM	208		
THALLIUM	0.24	U	
VANADIUM	7.5		
ZINC	113	J	D

Parameter	Result	Val Qual	Qual Code
ALUMINUM	1440		
ANTIMONY	1.3	J	DK
ARSENIC	0.85	J	K
BARIUM	35.6		
BERYLLIUM	0.10	U	A
CADMIUM	0.62	J	K
CALCIUM	50300		
CHROMIUM	8.8		
COBALT	1.1	J	K
COPPER	215		
IRON	3110		
LEAD	24.0		
MAGNESIUM	428	J	D
MANGANESE	36.6		
MERCURY	0.77	J	D
NICKEL	16.3	J	K
POTASSIUM	111		
SELENIUM	0.25	J	K
SILVER	5.9	J	DK
SODIUM	304		
THALLIUM	0.24	U	
VANADIUM	7.1		
ZINC	134	J	D

Parameter	Result	Val Qual	Qual Code
ALUMINUM	1930		
ANTIMONY	1.4	J	DK
ARSENIC	0.83	J	K
BARIUM	36.6		
BERYLLIUM	0.15	U	A
CADMIUM	0.48	J	K
CALCIUM	50600		
CHROMIUM	8.8		
COBALT	1.0	J	K
COPPER	242		
IRON	3240		
LEAD	22.1		
MAGNESIUM	457	J	D
MANGANESE	35.1		
MERCURY	0.01	UJ	D
NICKEL	15.9	J	K
POTASSIUM	152		
SELENIUM	0.48	J	K
SILVER	4.2	J	DK
SODIUM	356		
THALLIUM	0.49	U	A
VANADIUM	5.3		
ZINC	130	J	D

PROJ_NO: 0123

SDG: WU0050 MEDIA: SOIL DATA FRACTION: M

nsample	MPT-45-A4-2'	nsample	MPT-45-B1-2'	nsample	MPT-45-B2-2'
samp_date	1/5/2004	samp_date	1/5/2004	samp_date	1/5/2004
lab_id	WU0050-004	lab_id	WU0050-005	lab_id	WU0050-006
qc_type	NM	qc_type	NM	qc_type	NM
units	MG/KG	units	MG/KG	units	MG/KG
Pct_Solids	92.7	Pct_Solids	90.8	Pct_Solids	95.8
DUP_OF:		DUP_OF:		DUP_OF:	

Parameter	Result	Val Qual	Qual Code
ALUMINUM	2010		
ANTIMONY	2.1	J	DK
ARSENIC	1.2	J	K
BARIUM	62.0		
BERYLLIUM	0.10	U	A
CADMIUM	1.2	J	K
CALCIUM	39800		
CHROMIUM	11.6		
COBALT	0.79	J	K
COPPER	483		
IRON	3890		
LEAD	26.6		
MAGNESIUM	438	J	D
MANGANESE	34.9		
MERCURY	0.25	J	D
NICKEL	23.8		
POTASSIUM	112		
SELENIUM	0.57	J	K
SILVER	4.7	J	DK
SODIUM	259		
THALLIUM	0.42	U	A
VANADIUM	3.6		
ZINC	206	J	D

Parameter	Result	Val Qual	Qual Code
ALUMINUM	1790		
ANTIMONY	1.4	J	DK
ARSENIC	0.98	J	K
BARIUM	57.2		
BERYLLIUM	0.10	U	A
CADMIUM	0.58	J	K
CALCIUM	35800		
CHROMIUM	13.8		
COBALT	1.3	J	K
COPPER	878		
IRON	6160		
LEAD	27.7		
MAGNESIUM	376	J	D
MANGANESE	42.7		
MERCURY	0.30	J	D
NICKEL	58.2		
POTASSIUM	94.4		
SELENIUM	0.30	J	K
SILVER	4.6	J	D
SODIUM	208		
THALLIUM	0.34	U	A
VANADIUM	4.3		
ZINC	215	J	D

Parameter	Result	Val Qual	Qual Code
ALUMINUM	1550		
ANTIMONY	2.0	J	DK
ARSENIC	1.2	J	K
BARIUM	20.0		
BERYLLIUM	0.07	U	A
CADMIUM	0.35	J	K
CALCIUM	72800		
CHROMIUM	9.1		
COBALT	0.73	J	K
COPPER	189		
IRON	5210		
LEAD	34.8		
MAGNESIUM	714	J	D
MANGANESE	55.8		
MERCURY	0.35	J	D
NICKEL	15.0	J	K
POTASSIUM	70.9		
SELENIUM	0.32	J	K
SILVER	1.5	J	DK
SODIUM	446		
THALLIUM	0.46	U	A
VANADIUM	7.6		
ZINC	207	J	D

PROJ_NO: 0123

SDG: WU0050 MEDIA: SOIL DATA FRACTION: M

nsample	MPT-45-B3-2'	nsample	MPT-45-B4-2'	nsample	MPT-45-C1-2'
samp_date	1/5/2004	samp_date	1/5/2004	samp_date	1/5/2004
lab_id	WU0050-007	lab_id	WU0050-008	lab_id	WU0050-009
qc_type	NM	qc_type	NM	qc_type	NM
units	MG/KG	units	MG/KG	units	MG/KG
Pct_Solids	91.4	Pct_Solids	95.8	Pct_Solids	96.8
DUP_OF:		DUP_OF:		DUP_OF:	

Parameter	Result	Val Qual	Qual Code
ALUMINUM	1420		
ANTIMONY	1.3	J	DK
ARSENIC	0.74	J	K
BARIUM	51.5		
BERYLLIUM	0.1	U	A
CADMIUM	0.80	J	K
CALCIUM	47100		
CHROMIUM	10.2		
COBALT	0.71	J	K
COPPER	382		
IRON	3430		
LEAD	23.0		
MAGNESIUM	494	J	D
MANGANESE	37.6		
MERCURY	0.34	J	D
NICKEL	21.2		
POTASSIUM	78.9		
SELENIUM	0.45	J	K
SILVER	3.2	J	DK
SODIUM	173		
THALLIUM	0.25	U	
VANADIUM	4.3		
ZINC	188	J	D

Parameter	Result	Val Qual	Qual Code
ALUMINUM	2200		
ANTIMONY	6.5	J	D
ARSENIC	1.2	J	K
BARIUM	70.2		
BERYLLIUM	0.09	U	A
CADMIUM	1.2	J	K
CALCIUM	31600		
CHROMIUM	14.3		
COBALT	0.85	J	K
COPPER	445		
IRON	4300		
LEAD	32.8		
MAGNESIUM	424	J	D
MANGANESE	26.0		
MERCURY	0.34	J	D
NICKEL	14.8		
POTASSIUM	104		
SELENIUM	0.74	J	K
SILVER	6.6	J	D
SODIUM	185		
THALLIUM	0.31	U	A
VANADIUM	3.4		
ZINC	224	J	D

Parameter	Result	Val Qual	Qual Code
ALUMINUM	1210		
ANTIMONY	0.63	J	DK
ARSENIC	0.90	J	K
BARIUM	14.5		
BERYLLIUM	0.09	U	A
CADMIUM	0.19	UJ	K
CALCIUM	66300		
CHROMIUM	7.2		
COBALT	0.66	J	K
COPPER	109		
IRON	2990		
LEAD	10.4		
MAGNESIUM	536	J	D
MANGANESE	25.1		
MERCURY	0.16	J	D
NICKEL	11.1	J	K
POTASSIUM	70.8		
SELENIUM	0.17	UJ	K
SILVER	0.64	J	DK
SODIUM	194		
THALLIUM	0.32	U	A
VANADIUM	4.3		
ZINC	66.7	J	D

PROJ_NO: 0123

SDG: WU0050 MEDIA: SOIL DATA FRACTION: M

nsample	MPT-45-C2-2'
samp_date	1/5/2004
lab_id	WU0050-010
qc_type	NM
units	MG/KG
Pct_Solids	95.8
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
ALUMINUM	972		
ANTIMONY	0.79	J	D
ARSENIC	1.1		
BARIUM	20.8		
BERYLLIUM	0.11	U	A
CADMIUM	0.53		
CALCIUM	73700		
CHROMIUM	8.8		
COBALT	0.77		
COPPER	188		
IRON	3330		
LEAD	18.6		
MAGNESIUM	670	J	D
MANGANESE	33.0		
MERCURY	0.15	J	D
NICKEL	14.3		
POTASSIUM	57.2		
SELENIUM	0.17	U	
SILVER	1.1	J	D
SODIUM	329		
THALLIUM	0.21	U	
VANADIUM	4.8		
ZINC	204	J	D

nsample	MPT-45-C3-2'
samp_date	1/5/2004
lab_id	WU0050-011
qc_type	NM
units	MG/KG
Pct_Solids	94.9
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
ALUMINUM	1080		
ANTIMONY	0.83	J	D
ARSENIC	1.0		
BARIUM	30.1		
BERYLLIUM	0.11	U	A
CADMIUM	0.58		
CALCIUM	45100		
CHROMIUM	8.4		
COBALT	0.76		
COPPER	279		
IRON	3990		
LEAD	19.6		
MAGNESIUM	446	J	D
MANGANESE	31.1		
MERCURY	0.25	J	D
NICKEL	16.5		
POTASSIUM	73.8		
SELENIUM	0.22	U	
SILVER	2.6	J	D
SODIUM	280		
THALLIUM	0.32	U	A
VANADIUM	3.1		
ZINC	315	J	D

nsample	MPT-45-C4-2'
samp_date	1/5/2004
lab_id	WU0050-012
qc_type	NM
units	MG/KG
Pct_Solids	96.1
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
ALUMINUM	994		
ANTIMONY	1.4	J	DK
ARSENIC	1.1	J	K
BARIUM	21.0		
BERYLLIUM	0.12	U	A
CADMIUM	0.38	J	K
CALCIUM	112000		
CHROMIUM	7.9		
COBALT	0.75	J	K
COPPER	163		
IRON	2780		
LEAD	65.1		
MAGNESIUM	844	J	D
MANGANESE	33.3		
MERCURY	0.20	J	D
NICKEL	13.8	J	K
POTASSIUM	82.2		
SELENIUM	0.19	UJ	K
SILVER	0.91	J	DK
SODIUM	342		
THALLIUM	0.26	U	A
VANADIUM	6.2		
ZINC	73.8	J	D

PROJ_NO: 0123

SDG: WU0050 MEDIA: SOIL DATA FRACTION: M

nsample	MPT-45-D3-2'		nsample	MPT-45-D4-2'		nsample	MPT-45-E4-2'	
samp_date	1/5/2004		samp_date	1/5/2004		samp_date	1/5/2004	
lab_id	WU0050-013		lab_id	WU0050-014		lab_id	WU0050-015	
qc_type	NM		qc_type	NM		qc_type	NM	
units	MG/KG		units	MG/KG		units	MG/KG	
Pct_Solids	93.2		Pct_Solids	86.8		Pct_Solids	87.4	
DUP_OF:			DUP_OF:			DUP_OF:		
Parameter	Result	Val Qual	Qual Code	Parameter	Result	Val Qual	Qual Code	Parameter	Result	Val Qual	Qual Code
ALUMINUM	692			ALUMINUM	2920			ALUMINUM	1690		
ANTIMONY	0.37	J	DK	ANTIMONY	0.18	UJ	D	ANTIMONY	0.94	J	D
ARSENIC	1.1	J	K	ARSENIC	0.22	U		ARSENIC	3.0		
BARIUM	18.2			BARIUM	12.4			BARIUM	8.2		
BERYLLIUM	0.14	U	A	BERYLLIUM	0.11	U	A	BERYLLIUM	0.23	U	A
CADMIUM	1.9	J	K	CADMIUM	0.27	U		CADMIUM	0.27	U	
CALCIUM	266000			CALCIUM	498			CALCIUM	146000		
CHROMIUM	11.3			CHROMIUM	3.7			CHROMIUM	4.8		
COBALT	0.62	J	K	COBALT	0.34			COBALT	1.8		
COPPER	103			COPPER	6.6			COPPER	5.2		
IRON	1770			IRON	730			IRON	1880		
LEAD	29.2			LEAD	2.6			LEAD	5.4		
MAGNESIUM	1400	J	D	MAGNESIUM	127	J	D	MAGNESIUM	742	J	D
MANGANESE	52.7			MANGANESE	5.8			MANGANESE	57.2		
MERCURY	0.27	J	D	MERCURY	0.02	UJ	D	MERCURY	0.02	J	D
NICKEL	6.2	J	K	NICKEL	1.22	U		NICKEL	1.8		
POTASSIUM	110			POTASSIUM	53.4			POTASSIUM	167		
SELENIUM	0.20	UJ	K	SELENIUM	0.23	U		SELENIUM	0.23	U	
SILVER	0.30	UJ	DK	SILVER	0.36	UJ	D	SILVER	0.36	UJ	D
SODIUM	70.6	J	K	SODIUM	26.0			SODIUM	1220		
THALLIUM	0.23	U		THALLIUM	0.37	U	A	THALLIUM	0.41	U	A
VANADIUM	3.7			VANADIUM	3.6			VANADIUM	5.8		
ZINC	64.8	J	D	ZINC	3.0	J	D	ZINC	11.0	J	D

PROJ_NO: 0123

SDG: WU0050 MEDIA: SOIL DATA FRACTION: M

nsample	MPT-45-E4-5'
samp_date	1/5/2004
lab_id	WU0050-016
qc_type	NM
units	MG/KG
Pct_Solids	94.0
DUP_OF:	

Parameter	Result	Val Qual	Qual Code
ALUMINUM	1350		
ANTIMONY	0.49	J	DK
ARSENIC	1.5	J	K
BARIUM	6.4		
BERYLLIUM	0.11	U	A
CADMIUM	0.20	UJ	K
CALCIUM	64000		
CHROMIUM	5.5		
COBALT	1.2	J	K
COPPER	15.0		
IRON	6230		
LEAD	4.3		
MAGNESIUM	336	J	D
MANGANESE	35.1		
MERCURY	0.02	J	D
NICKEL	5.7	J	K
POTASSIUM	63.8		
SELENIUM	0.17	UJ	K
SILVER	0.27	UJ	DK
SODIUM	601		
THALLIUM	0.36	U	A
VANADIUM	3.2		
ZINC	12.6	J	D

PROJ_NO: 0123

SDG: WU0050 MEDIA: SOIL DATA FRACTION: MISC

nsample	MPT-45-A1-2'	nsample	MPT-45-A2-2'	nsample	MPT-45-A3-2'
samp_date	1/5/2004	samp_date	1/5/2004	samp_date	1/5/2004
lab_id	WU0050-1	lab_id	WU0050-2	lab_id	WU0050-3
qc_type	NM	qc_type	NM	qc_type	NM
Pct_Solids	91.0	Pct_Solids	93.0	Pct_Solids	95.0
DUP_OF:		DUP_OF:		DUP_OF:	

Parameter	units	Result	Val Qual	Qual Code
CYANIDE	MG/KG	0.39	J	P
TOTAL SOLIDS	%	91		

Parameter	units	Result	Val Qual	Qual Code
CYANIDE	MG/KG	0.35	J	P
TOTAL SOLIDS	%	93		

Parameter	units	Result	Val Qual	Qual Code
CYANIDE	MG/KG	0.26	J	P
TOTAL SOLIDS	%	95		

PROJ_NO: 0123

SDG: WU0050 MEDIA: SOIL DATA FRACTION: MISC

nsample	MPT-45-A4-2'	nsample	MPT-45-B1-2'	nsample	MPT-45-B2-2'
samp_date	1/5/2004	samp_date	1/5/2004	samp_date	1/5/2004
lab_id	WU0050-4	lab_id	WU0050-5	lab_id	WU0050-6
qc_type	NM	qc_type	NM	qc_type	NM
Pct_Solids	93.0	Pct_Solids	91.0	Pct_Solids	96.0
DUP_OF:		DUP_OF:		DUP_OF:	

Parameter	units	Result	Val Qual	Qual Code
CYANIDE	MG/KG	0.46	J	P
TOTAL SOLIDS	%	93		

Parameter	units	Result	Val Qual	Qual Code
CYANIDE	MG/KG	0.3	J	P
TOTAL SOLIDS	%	91		

Parameter	units	Result	Val Qual	Qual Code
CYANIDE	MG/KG	0.49	J	P
TOTAL SOLIDS	%	96		

PROJ_NO: 0123

SDG: WU0050 MEDIA: SOIL DATA FRACTION: MISC

nsample	MPT-45-B3-2'	nsample	MPT-45-B4-2'	nsample	MPT-45-C1-2'
samp_date	1/5/2004	samp_date	1/5/2004	samp_date	1/5/2004
lab_id	WU0050-7	lab_id	WU0050-8	lab_id	WU0050-9
qc_type	NM	qc_type	NM	qc_type	NM
Pct_Solids	91.0	Pct_Solids	96.0	Pct_Solids	97.0
DUP_OF:		DUP_OF:		DUP_OF:	

Parameter	units	Result	Val Qual	Qual Code
CYANIDE	MG/KG	0.49	J	P
TOTAL SOLIDS	%	91		

Parameter	units	Result	Val Qual	Qual Code
CYANIDE	MG/KG	0.44	J	P
TOTAL SOLIDS	%	96		

Parameter	units	Result	Val Qual	Qual Code
CYANIDE	MG/KG	0.48	J	P
TOTAL SOLIDS	%	97		

PROJ_NO: 0123

SDG: WU0050 MEDIA: SOIL DATA FRACTION: MISC

nsample	MPT-45-C2-2'	nsample	MPT-45-C3-2'	nsample	MPT-45-C4-2'
samp_date	1/5/2004	samp_date	1/5/2004	samp_date	1/5/2004
lab_id	WU0050-10	lab_id	WU0050-11	lab_id	WU0050-12
qc_type	NM	qc_type	NM	qc_type	NM
Pct_Solids	96.0	Pct_Solids	95.0	Pct_Solids	96.0
DUP_OF:		DUP_OF:		DUP_OF:	

Parameter	units	Result	Val Qual	Qual Code
CYANIDE	MG/KG	0.67		
TOTAL SOLIDS	%	96		

Parameter	units	Result	Val Qual	Qual Code
CYANIDE	MG/KG	0.72		
TOTAL SOLIDS	%	95		

Parameter	units	Result	Val Qual	Qual Code
CYANIDE	MG/KG	0.59		
TOTAL SOLIDS	%	96		

PROJ_NO: 0123

SDG: WU0050 MEDIA: SOIL DATA FRACTION: MISC

nsample	MPT-45-D3-2'	nsample	MPT-45-D4-2'	nsample	MPT-45-E4-2'
samp_date	1/5/2004	samp_date	1/5/2004	samp_date	1/5/2004
lab_id	WU0050-13	lab_id	WU0050-14	lab_id	WU0050-15
qc_type	NM	qc_type	NM	qc_type	NM
Pct_Solids	93.0	Pct_Solids	87.0	Pct_Solids	87.0
DUP_OF:		DUP_OF:		DUP_OF:	

Parameter	units	Result	Val Qual	Qual Code
CYANIDE	MG/KG	0.85		
TOTAL SOLIDS	%	93		

Parameter	units	Result	Val Qual	Qual Code
CYANIDE	MG/KG	0.58	U	
TOTAL SOLIDS	%	87		

Parameter	units	Result	Val Qual	Qual Code
CYANIDE	MG/KG	0.57	U	
TOTAL SOLIDS	%	87		

PROJ_NO: 0123

SDG: WU0050 MEDIA: SOIL DATA FRACTION: MISC

nsample	MPT-45-E4-5'
samp_date	1/5/2004
lab_id	WU0050-16
qc_type	NM
Pct_Solids	94.0
DUP_OF:	

Parameter	units	Result	Val Qual	Qual Code
CYANIDE	MG/KG	0.53	U	
TOTAL SOLIDS	%	94		

APPENDIX B

RESULTS AS REPORTED BY THE LABORATORY

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services **Client Field ID:** MPT-45-A1-2'

Matrix: SOIL **SDG Name:** WU0050

Percent Solids: 91.2 **Lab Sample ID:** WU0050-001

Concentration Units : mg/Kg

CAS No.	Analyte	Concentration	C	Q	M	DF	Adjusted PQL	Adjusted IDL
7429-90-5	ALUMINUM, TOTAL	2100			P	1	26	1.36
7440-36-0	ANTIMONY, TOTAL	0.48	B	N	P	1	0.69	0.15
7440-38-2	ARSENIC, TOTAL	1.1			P	1	0.69	0.18
7440-39-3	BARIUM, TOTAL	30.9			P	1	0.43	0.05
7440-41-7	BERYLLIUM, TOTAL	0.15	B		P	1	0.43	0.02
7440-43-9	CADMIUM, TOTAL	0.58	B		P	1	0.86	0.23
7440-70-2	CALCIUM, TOTAL	24800		*	P	1	4.3	1.34
7440-47-3	CHROMIUM, TOTAL	9.3			P	1	1.3	0.08
7440-48-4	COBALT, TOTAL	1.1	B		P	1	2.6	0.26
7440-50-8	COPPER, TOTAL	154		*	P	1	2.2	0.28
7439-89-6	IRON, TOTAL	3600			P	1	8.6	0.41
7439-92-1	LEAD, TOTAL	26.5			P	1	0.43	0.13
7439-95-4	MAGNESIUM, TOTAL	501		N	P	1	4.3	2.69
7439-96-5	MANGANESE, TOTAL	35.2			P	1	0.43	0.08
7439-97-6	MERCURY, TOTAL	0.56		N*	CV	2	0.065	0.01
7440-02-0	NICKEL, TOTAL	12.8			P	1	3.4	1.04
7440-09-7	POTASSIUM, TOTAL	181			P	1	86	41.35
7782-49-2	SELENIUM, TOTAL	0.52	B		P	1	0.86	0.20
7440-22-4	SILVER, TOTAL	5.6		N	P	1	1.3	0.31
7440-23-5	SODIUM, TOTAL	208			P	1	86	2.14
7440-28-0	THALLIUM, TOTAL	0.24	U		P	1	1.3	0.24
7440-62-2	VANADIUM, TOTAL	7.5			P	1	2.2	0.31
7440-66-6	ZINC, TOTAL	113		N	P	1	2.2	0.17

Color Before: N/A Texture: N/A

Color After: N/A Clarity After: N/A

Comments:

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services **Client Field ID:** MPT-45-A2-2'

Matrix: SOIL **SDG Name:** WU0050

Percent Solids: 93.0 **Lab Sample ID:** WU0050-002

Concentration Units : mg/Kg

CAS No.	Analyte	Concentration	C	Q	M	DF	Adjusted PQL	Adjusted IDL
7429-90-5	ALUMINUM, TOTAL	1440			P	1	26	1.38
7440-36-0	ANTIMONY, TOTAL	1.3		N	P	1	0.70	0.15
7440-38-2	ARSENIC, TOTAL	0.85			P	1	0.70	0.19
7440-39-3	BARIUM, TOTAL	35.6			P	1	0.44	0.05
7440-41-7	BERYLLIUM, TOTAL	0.10	B		P	1	0.44	0.02
7440-43-9	CADMIUM, TOTAL	0.62	B		P	1	0.88	0.23
7440-70-2	CALCIUM, TOTAL	50300		*	P	2	8.8	2.73
7440-47-3	CHROMIUM, TOTAL	8.8			P	1	1.3	0.08
7440-48-4	COBALT, TOTAL	1.1	B		P	1	2.6	0.26
7440-50-8	COPPER, TOTAL	215		*	P	1	2.2	0.29
7439-89-6	IRON, TOTAL	3110			P	1	8.8	0.42
7439-92-1	LEAD, TOTAL	24.0			P	1	0.44	0.14
7439-95-4	MAGNESIUM, TOTAL	428		N	P	1	4.4	2.75
7439-96-5	MANGANESE, TOTAL	36.6			P	1	0.44	0.08
7439-97-6	MERCURY, TOTAL	0.77		N*	CV	2	0.062	0.01
7440-02-0	NICKEL, TOTAL	16.3			P	1	3.5	1.07
7440-09-7	POTASSIUM, TOTAL	111			P	1	88	42.23
7782-49-2	SELENIUM, TOTAL	0.25	B		P	1	0.88	0.20
7440-22-4	SILVER, TOTAL	5.9		N	P	1	1.3	0.32
7440-23-5	SODIUM, TOTAL	304			P	1	88	2.19
7440-28-0	THALLIUM, TOTAL	0.24	U		P	1	1.3	0.24
7440-62-2	VANADIUM, TOTAL	7.1			P	1	2.2	0.32
7440-66-6	ZINC, TOTAL	134		N	P	1	2.2	0.18

Color Before: N/A Texture: N/A

Color After: N/A Clarity After: N/A

Comments:

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services **Client Field ID:** MPT-45-A3-2'

Matrix: SOIL **SDG Name:** WU0050

Percent Solids: 95.4 **Lab Sample ID:** WU0050-003

Concentration Units : mg/Kg

CAS No.	Analyte	Concentration	C	Q	M	DF	Adjusted PQL	Adjusted IDL
7429-90-5	ALUMINUM, TOTAL	1930			P	1	28	1.47
7440-36-0	ANTIMONY, TOTAL	1.4		N	P	1	0.75	0.16
7440-38-2	ARSENIC, TOTAL	0.83			P	1	0.75	0.20
7440-39-3	BARIUM, TOTAL	36.6			P	1	0.47	0.05
7440-41-7	BERYLLIUM, TOTAL	0.15	B		P	1	0.47	0.03
7440-43-9	CADMIUM, TOTAL	0.48	B		P	1	0.94	0.25
7440-70-2	CALCIUM, TOTAL	50600		*	P	2	9.4	2.90
7440-47-3	CHROMIUM, TOTAL	8.8			P	1	1.4	0.08
7440-48-4	COBALT, TOTAL	1.0	B		P	1	2.8	0.28
7440-50-8	COPPER, TOTAL	242		*	P	1	2.3	0.31
7439-89-6	IRON, TOTAL	3240			P	1	9.4	0.45
7439-92-1	LEAD, TOTAL	22.1			P	1	0.47	0.15
7439-95-4	MAGNESIUM, TOTAL	457		N	P	1	4.7	2.92
7439-96-5	MANGANESE, TOTAL	35.1			P	1	0.47	0.08
7439-97-6	MERCURY, TOTAL	0.01	U	N*	CV	2	0.064	0.01
7440-02-0	NICKEL, TOTAL	15.9			P	1	3.7	1.13
7440-09-7	POTASSIUM, TOTAL	152			P	1	94	44.83
7782-49-2	SELENIUM, TOTAL	0.48	B		P	1	0.94	0.22
7440-22-4	SILVER, TOTAL	4.2		N	P	1	1.4	0.34
7440-23-5	SODIUM, TOTAL	356			P	1	94	2.32
7440-28-0	THALLIUM, TOTAL	0.49	B		P	1	1.4	0.26
7440-62-2	VANADIUM, TOTAL	5.3			P	1	2.3	0.34
7440-66-6	ZINC, TOTAL	130		N	P	1	2.3	0.19

Color Before: N/A Texture: N/A

Color After: N/A Clarity After: N/A

Comments:

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services **Client Field ID:** MPT-45-A4-2'

Matrix: SOIL **SDG Name:** WU0050

Percent Solids: 92.7 **Lab Sample ID:** WU0050-004

Concentration Units : mg/Kg

CAS No.	Analyte	Concentration	C	Q	M	DF	Adjusted PQL	Adjusted IDL
7429-90-5	ALUMINUM, TOTAL	2010			P	1	25	1.30
7440-36-0	ANTIMONY, TOTAL	2.1		N	P	1	0.66	0.14
7440-38-2	ARSENIC, TOTAL	1.2			P	1	0.66	0.18
7440-39-3	BARIUM, TOTAL	62.0			P	1	0.42	0.04
7440-41-7	BERYLLIUM, TOTAL	0.10	B		P	1	0.42	0.02
7440-43-9	CADMIUM, TOTAL	1.2			P	1	0.83	0.22
7440-70-2	CALCIUM, TOTAL	39800		*	P	1	4.2	1.29
7440-47-3	CHROMIUM, TOTAL	11.6			P	1	1.2	0.07
7440-48-4	COBALT, TOTAL	0.79	B		P	1	2.5	0.25
7440-50-8	COPPER, TOTAL	483		*	P	1	2.1	0.27
7439-89-6	IRON, TOTAL	3890			P	1	8.3	0.40
7439-92-1	LEAD, TOTAL	26.6			P	1	0.42	0.13
7439-95-4	MAGNESIUM, TOTAL	438		N	P	1	4.2	2.59
7439-96-5	MANGANESE, TOTAL	34.9			P	1	0.42	0.07
7439-97-6	MERCURY, TOTAL	0.25		N*	CV	2	0.070	0.01
7440-02-0	NICKEL, TOTAL	23.8			P	1	3.3	1.00
7440-09-7	POTASSIUM, TOTAL	112			P	1	83	39.76
7782-49-2	SELENIUM, TOTAL	0.57	B		P	1	0.83	0.19
7440-22-4	SILVER, TOTAL	4.7		N	P	1	1.2	0.30
7440-23-5	SODIUM, TOTAL	259			P	1	83	2.06
7440-28-0	THALLIUM, TOTAL	0.42	B		P	1	1.2	0.23
7440-62-2	VANADIUM, TOTAL	3.6			P	1	2.1	0.30
7440-66-6	ZINC, TOTAL	206		N	P	1	2.1	0.17

Color Before: N/A Texture: N/A

Color After: N/A Clarity After: N/A

Comments:

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services **Client Field ID:** MPT-45-B1-2'

Matrix: SOIL **SDG Name:** WU0050

Percent Solids: 90.8 **Lab Sample ID:** WU0050-005

Concentration Units : mg/Kg

CAS No.	Analyte	Concentration	C	Q	M	DF	Adjusted PQL	Adjusted IDL
7429-90-5	ALUMINUM, TOTAL	1790			P	1	26	1.34
7440-36-0	ANTIMONY, TOTAL	1.4		N	P	1	0.68	0.15
7440-38-2	ARSENIC, TOTAL	0.98			P	1	0.68	0.18
7440-39-3	BARIUM, TOTAL	57.2			P	1	0.43	0.05
7440-41-7	BERYLLIUM, TOTAL	0.10	B		P	1	0.43	0.02
7440-43-9	CADMIUM, TOTAL	0.58	B		P	1	0.85	0.23
7440-70-2	CALCIUM, TOTAL	35800		*	P	1	4.3	1.32
7440-47-3	CHROMIUM, TOTAL	13.8			P	1	1.3	0.08
7440-48-4	COBALT, TOTAL	1.3	B		P	1	2.6	0.25
7440-50-8	COPPER, TOTAL	878		*	P	2	4.3	0.56
7439-89-6	IRON, TOTAL	6160			P	1	8.5	0.41
7439-92-1	LEAD, TOTAL	27.7			P	1	0.43	0.13
7439-95-4	MAGNESIUM, TOTAL	376		N	P	1	4.3	2.66
7439-96-5	MANGANESE, TOTAL	42.7			P	1	0.43	0.08
7439-97-6	MERCURY, TOTAL	0.30		N*	CV	2	0.071	0.01
7440-02-0	NICKEL, TOTAL	58.2			P	1	3.4	1.03
7440-09-7	POTASSIUM, TOTAL	94.4			P	1	85	40.91
7782-49-2	SELENIUM, TOTAL	0.30	B		P	1	0.85	0.20
7440-22-4	SILVER, TOTAL	4.6		N	P	1	1.3	0.31
7440-23-5	SODIUM, TOTAL	208			P	1	85	2.12
7440-28-0	THALLIUM, TOTAL	0.34	B		P	1	1.3	0.24
7440-62-2	VANADIUM, TOTAL	4.3			P	1	2.1	0.31
7440-66-6	ZINC, TOTAL	215		N	P	1	2.1	0.17

Color Before: N/A Texture: N/A

Color After: N/A Clarity After: N/A

Comments:

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services **Client Field ID:** MPT-45-B2-2'

Matrix: SOIL **SDG Name:** WU0050

Percent Solids: 95.8 **Lab Sample ID:** WU0050-006

Concentration Units : mg/Kg

CAS No.	Analyte	Concentration	C	Q	M	DF	Adjusted PQL	Adjusted IDL
7429-90-5	ALUMINUM, TOTAL	1550			P	1	27	1.43
7440-36-0	ANTIMONY, TOTAL	2.0		N	P	1	0.73	0.16
7440-38-2	ARSENIC, TOTAL	1.2			P	1	0.73	0.19
7440-39-3	BARIUM, TOTAL	20.0			P	1	0.45	0.05
7440-41-7	BERYLLIUM, TOTAL	0.07	B		P	1	0.45	0.03
7440-43-9	CADMIUM, TOTAL	0.35	B		P	1	0.91	0.24
7440-70-2	CALCIUM, TOTAL	72800		*	P	2	9.1	2.81
7440-47-3	CHROMIUM, TOTAL	9.1			P	1	1.4	0.08
7440-48-4	COBALT, TOTAL	0.73	B		P	1	2.7	0.27
7440-50-8	COPPER, TOTAL	189		*	P	1	2.3	0.30
7439-89-6	IRON, TOTAL	5210			P	1	9.1	0.44
7439-92-1	LEAD, TOTAL	34.8			P	1	0.45	0.14
7439-95-4	MAGNESIUM, TOTAL	714		N	P	1	4.5	2.83
7439-96-5	MANGANESE, TOTAL	55.8			P	1	0.45	0.08
7439-97-6	MERCURY, TOTAL	0.35		N*	CV	2	0.054	0.01
7440-02-0	NICKEL, TOTAL	15.0			P	1	3.6	1.10
7440-09-7	POTASSIUM, TOTAL	70.9	B		P	1	91	43.48
7782-49-2	SELENIUM, TOTAL	0.32	B		P	1	0.91	0.21
7440-22-4	SILVER, TOTAL	1.5		N	P	1	1.4	0.33
7440-23-5	SODIUM, TOTAL	446			P	1	91	2.25
7440-28-0	THALLIUM, TOTAL	0.46	B		P	1	1.4	0.25
7440-62-2	VANADIUM, TOTAL	7.6			P	1	2.3	0.33
7440-66-6	ZINC, TOTAL	207		N	P	1	2.3	0.18

Color Before: N/A Texture: N/A

Color After: N/A Clarity After: N/A

Comments:

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services **Client Field ID:** MPT-45-B3-2'

Matrix: SOIL **SDG Name:** WU0050

Percent Solids: 91.4 **Lab Sample ID:** WU0050-007

Concentration Units : mg/Kg

CAS No.	Analyte	Concentration	C	Q	M	DF	Adjusted PQL	Adjusted IDL
7429-90-5	ALUMINUM, TOTAL	1420			P	1	28	1.44
7440-36-0	ANTIMONY, TOTAL	1.3		N	P	1	0.74	0.16
7440-38-2	ARSENIC, TOTAL	0.74	B		P	1	0.74	0.20
7440-39-3	BARIUM, TOTAL	51.5			P	1	0.46	0.05
7440-41-7	BERYLLIUM, TOTAL	0.1	B		P	1	0.46	0.03
7440-43-9	CADMIUM, TOTAL	0.80	B		P	1	0.92	0.24
7440-70-2	CALCIUM, TOTAL	47100		*	P	2	9.2	2.85
7440-47-3	CHROMIUM, TOTAL	10.2			P	1	1.4	0.08
7440-48-4	COBALT, TOTAL	0.71	B		P	1	2.8	0.27
7440-50-8	COPPER, TOTAL	382		*	P	1	2.3	0.30
7439-89-6	IRON, TOTAL	3430			P	1	9.2	0.44
7439-92-1	LEAD, TOTAL	23.0			P	1	0.46	0.14
7439-95-4	MAGNESIUM, TOTAL	494		N	P	1	4.6	2.87
7439-96-5	MANGANESE, TOTAL	37.6			P	1	0.46	0.08
7439-97-6	MERCURY, TOTAL	0.34		N*	CV	2	0.065	0.01
7440-02-0	NICKEL, TOTAL	21.2			P	1	3.7	1.11
7440-09-7	POTASSIUM, TOTAL	78.9	B		P	1	92	44.05
7782-49-2	SELENIUM, TOTAL	0.45	B		P	1	0.92	0.21
7440-22-4	SILVER, TOTAL	3.2		N	P	1	1.4	0.33
7440-23-5	SODIUM, TOTAL	173			P	1	92	2.28
7440-28-0	THALLIUM, TOTAL	0.25	U		P	1	1.4	0.25
7440-62-2	VANADIUM, TOTAL	4.3			P	1	2.3	0.33
7440-66-6	ZINC, TOTAL	188		N	P	1	2.3	0.18

Color Before: N/A Texture: N/A

Color After: N/A Clarity After: N/A

Comments:

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services **Client Field ID:** MPT-45-B4-2'

Matrix: SOIL **SDG Name:** WU0050

Percent Solids: 95.8 **Lab Sample ID:** WU0050-008

Concentration Units : mg/Kg

CAS No.	Analyte	Concentration	C	Q	M	DF	Adjusted PQL	Adjusted IDL
7429-90-5	ALUMINUM, TOTAL	2200			P	1	26	1.39
7440-36-0	ANTIMONY, TOTAL	6.5		N	P	1	0.71	0.15
7440-38-2	ARSENIC, TOTAL	1.2			P	1	0.71	0.19
7440-39-3	BARIUM, TOTAL	70.2			P	1	0.44	0.05
7440-41-7	BERYLLIUM, TOTAL	0.09	B		P	1	0.44	0.02
7440-43-9	CADMIUM, TOTAL	1.2			P	1	0.88	0.24
7440-70-2	CALCIUM, TOTAL	31600		*	P	1	4.4	1.37
7440-47-3	CHROMIUM, TOTAL	14.3			P	1	1.3	0.08
7440-48-4	COBALT, TOTAL	0.85	B		P	1	2.6	0.26
7440-50-8	COPPER, TOTAL	445		*	P	1	2.2	0.29
7439-89-6	IRON, TOTAL	4300			P	1	8.8	0.42
7439-92-1	LEAD, TOTAL	32.8			P	1	0.44	0.14
7439-95-4	MAGNESIUM, TOTAL	424		N	P	1	4.4	2.76
7439-96-5	MANGANESE, TOTAL	26.0			P	1	0.44	0.08
7439-97-6	MERCURY, TOTAL	0.34		N*	CV	2	0.061	0.01
7440-02-0	NICKEL, TOTAL	14.8			P	1	3.5	1.07
7440-09-7	POTASSIUM, TOTAL	104			P	1	88	42.36
7782-49-2	SELENIUM, TOTAL	0.74	B		P	1	0.88	0.21
7440-22-4	SILVER, TOTAL	6.6		N	P	1	1.3	0.32
7440-23-5	SODIUM, TOTAL	185			P	1	88	2.19
7440-28-0	THALLIUM, TOTAL	0.31	B		P	1	1.3	0.24
7440-62-2	VANADIUM, TOTAL	3.4			P	1	2.2	0.32
7440-66-6	ZINC, TOTAL	224		N	P	1	2.2	0.18

Color Before: N/A Texture: N/A

Color After: N/A Clarity After: N/A

Comments:

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services **Client Field ID:** MPT-45-C1-2'

Matrix: SOIL **SDG Name:** WU0050

Percent Solids: 96.8 **Lab Sample ID:** WU0050-009

Concentration Units : mg/Kg

CAS No.	Analyte	Concentration	C	Q	M	DF	Adjusted PQL	Adjusted IDL
7429-90-5	ALUMINUM, TOTAL	1210			P	1	21	1.12
7440-36-0	ANTIMONY, TOTAL	0.63		N	P	1	0.57	0.12
7440-38-2	ARSENIC, TOTAL	0.90			P	1	0.57	0.15
7440-39-3	BARIUM, TOTAL	14.5			P	1	0.36	0.04
7440-41-7	BERYLLIUM, TOTAL	0.09	B		P	1	0.36	0.02
7440-43-9	CADMIUM, TOTAL	0.19	U		P	1	0.71	0.19
7440-70-2	CALCIUM, TOTAL	66300		*	P	2	7.1	2.21
7440-47-3	CHROMIUM, TOTAL	7.2			P	1	1.1	0.06
7440-48-4	COBALT, TOTAL	0.66	B		P	1	2.1	0.21
7440-50-8	COPPER, TOTAL	109		*	P	1	1.8	0.24
7439-89-6	IRON, TOTAL	2990			P	1	7.1	0.34
7439-92-1	LEAD, TOTAL	10.4			P	1	0.36	0.11
7439-95-4	MAGNESIUM, TOTAL	536		N	P	1	3.6	2.22
7439-96-5	MANGANESE, TOTAL	25.1			P	1	0.36	0.06
7439-97-6	MERCURY, TOTAL	0.16		N*	CV	2	0.068	0.01
7440-02-0	NICKEL, TOTAL	11.1			P	1	2.8	0.86
7440-09-7	POTASSIUM, TOTAL	70.8	B		P	1	71	34.12
7782-49-2	SELENIUM, TOTAL	0.17	U		P	1	0.71	0.17
7440-22-4	SILVER, TOTAL	0.64	B	N	P	1	1.1	0.26
7440-23-5	SODIUM, TOTAL	194			P	1	71	1.77
7440-28-0	THALLIUM, TOTAL	0.32	B		P	1	1.1	0.20
7440-62-2	VANADIUM, TOTAL	4.3			P	1	1.8	0.26
7440-66-6	ZINC, TOTAL	66.7		N	P	1	1.8	0.14

Color Before: N/A Texture: N/A

Color After: N/A Clarity After: N/A

Comments:

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services **Client Field ID:** MPT-45-C2-2'

Matrix: SOIL **SDG Name:** WU0050

Percent Solids: 95.8 **Lab Sample ID:** WU0050-010

Concentration Units : mg/Kg

CAS No.	Analyte	Concentration	C	Q	M	DF	Adjusted PQL	Adjusted IDL
7429-90-5	ALUMINUM, TOTAL	972			P	1	22	1.17
7440-36-0	ANTIMONY, TOTAL	0.79		N	P	1	0.60	0.13
7440-38-2	ARSENIC, TOTAL	1.1			P	1	0.60	0.16
7440-39-3	BARIUM, TOTAL	20.8			P	1	0.37	0.04
7440-41-7	BERYLLIUM, TOTAL	0.11	B		P	1	0.37	0.02
7440-43-9	CADMIUM, TOTAL	0.53	B		P	1	0.74	0.20
7440-70-2	CALCIUM, TOTAL	73700		*	P	5	19	5.78
7440-47-3	CHROMIUM, TOTAL	8.8			P	1	1.1	0.07
7440-48-4	COBALT, TOTAL	0.77	B		P	1	2.2	0.22
7440-50-8	COPPER, TOTAL	188		*	P	1	1.9	0.25
7439-89-6	IRON, TOTAL	3330			P	1	7.4	0.36
7439-92-1	LEAD, TOTAL	18.6			P	1	0.37	0.12
7439-95-4	MAGNESIUM, TOTAL	670		N	P	1	3.7	2.33
7439-96-5	MANGANESE, TOTAL	33.0			P	1	0.37	0.07
7439-97-6	MERCURY, TOTAL	0.15		N*	CV	2	0.065	0.01
7440-02-0	NICKEL, TOTAL	14.3			P	1	3.0	0.90
7440-09-7	POTASSIUM, TOTAL	57.2	B		P	1	74	35.72
7782-49-2	SELENIUM, TOTAL	0.17	U		P	1	0.74	0.17
7440-22-4	SILVER, TOTAL	1.1	B	N	P	1	1.1	0.27
7440-23-5	SODIUM, TOTAL	329			P	1	74	1.85
7440-28-0	THALLIUM, TOTAL	0.21	U		P	1	1.1	0.21
7440-62-2	VANADIUM, TOTAL	4.8			P	1	1.9	0.27
7440-66-6	ZINC, TOTAL	204		N	P	1	1.9	0.15

Color Before: N/A Texture: N/A

Color After: N/A Clarity After: N/A

Comments:

I

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services **Client Field ID:** MPT-45-C3-2'

Matrix: SOIL **SDG Name:** WU0050

Percent Solids: 94.9 **Lab Sample ID:** WU0050-011

Concentration Units : mg/Kg

CAS No.	Analyte	Concentration	C	Q	M	DF	Adjusted PQL	Adjusted IDL
7429-90-5	ALUMINUM, TOTAL	1080			P	1	28	1.48
7440-36-0	ANTIMONY, TOTAL	0.83		N	P	1	0.75	0.16
7440-38-2	ARSENIC, TOTAL	1.0			P	1	0.75	0.20
7440-39-3	BARIUM, TOTAL	30.1			P	1	0.47	0.05
7440-41-7	BERYLLIUM, TOTAL	0.11	B		P	1	0.47	0.03
7440-43-9	CADMIUM, TOTAL	0.58	B		P	1	0.94	0.25
7440-70-2	CALCIUM, TOTAL	45100		*	P	2	9.4	2.92
7440-47-3	CHROMIUM, TOTAL	8.4			P	1	1.4	0.08
7440-48-4	COBALT, TOTAL	0.76	B		P	1	2.8	0.28
7440-50-8	COPPER, TOTAL	279		*	P	1	2.4	0.31
7439-89-6	IRON, TOTAL	3990			P	1	9.4	0.45
7439-92-1	LEAD, TOTAL	19.6			P	1	0.47	0.15
7439-95-4	MAGNESIUM, TOTAL	446		N	P	1	4.7	2.93
7439-96-5	MANGANESE, TOTAL	31.1			P	1	0.47	0.08
7439-97-6	MERCURY, TOTAL	0.25		N*	CV	2	0.060	0.01
7440-02-0	NICKEL, TOTAL	16.5			P	1	3.8	1.14
7440-09-7	POTASSIUM, TOTAL	73.8	B		P	1	94	45.05
7782-49-2	SELENIUM, TOTAL	0.22	U		P	1	0.94	0.22
7440-22-4	SILVER, TOTAL	2.6		N	P	1	1.4	0.34
7440-23-5	SODIUM, TOTAL	280			P	1	94	2.33
7440-28-0	THALLIUM, TOTAL	0.32	B		P	1	1.4	0.26
7440-62-2	VANADIUM, TOTAL	3.1			P	1	2.4	0.34
7440-66-6	ZINC, TOTAL	315		N	P	1	2.4	0.19

Color Before: N/A Texture: N/A

Color After: N/A Clarity After: N/A

Comments:

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services **Client Field ID:** MPT-45-C4-2'

Matrix: SOIL **SDG Name:** WU0050

Percent Solids: 96.1 **Lab Sample ID:** WU0050-012

Concentration Units : mg/Kg

CAS No.	Analyte	Concentration	C	Q	M	DF	Adjusted PQL	Adjusted IDL
7429-90-5	ALUMINUM, TOTAL	994			P	1	24	1.27
7440-36-0	ANTIMONY, TOTAL	1.4		N	P	1	0.64	0.14
7440-38-2	ARSENIC, TOTAL	1.1			P	1	0.64	0.17
7440-39-3	BARIUM, TOTAL	21.0			P	1	0.40	0.04
7440-41-7	BERYLLIUM, TOTAL	0.12	B		P	1	0.40	0.02
7440-43-9	CADMIUM, TOTAL	0.38	B		P	1	0.81	0.21
7440-70-2	CALCIUM, TOTAL	112000		*	P	5	20	6.25
7440-47-3	CHROMIUM, TOTAL	7.9			P	1	1.2	0.07
7440-48-4	COBALT, TOTAL	0.75	B		P	1	2.4	0.24
7440-50-8	COPPER, TOTAL	163		*	P	1	2.0	0.27
7439-89-6	IRON, TOTAL	2780			P	1	8.1	0.39
7439-92-1	LEAD, TOTAL	65.1			P	1	0.40	0.13
7439-95-4	MAGNESIUM, TOTAL	844		N	P	1	4.0	2.52
7439-96-5	MANGANESE, TOTAL	33.3			P	1	0.40	0.07
7439-97-6	MERCURY, TOTAL	0.20		N*	CV	2	0.057	0.01
7440-02-0	NICKEL, TOTAL	13.8			P	1	3.2	0.98
7440-09-7	POTASSIUM, TOTAL	82.2			P	1	81	38.64
7782-49-2	SELENIUM, TOTAL	0.19	U		P	1	0.81	0.19
7440-22-4	SILVER, TOTAL	0.91	B	N	P	1	1.2	0.29
7440-23-5	SODIUM, TOTAL	342			P	1	81	2.00
7440-28-0	THALLIUM, TOTAL	0.26	B		P	1	1.2	0.22
7440-62-2	VANADIUM, TOTAL	6.2			P	1	2.0	0.29
7440-66-6	ZINC, TOTAL	73.8		N	P	1	2.0	0.16

Color Before: N/A Texture: N/A

Color After: N/A Clarity After: N/A

Comments:

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services **Client Field ID:** MPT-45-D3-2'

Matrix: SOIL **SDG Name:** WU0050

Percent Solids: 93.2 **Lab Sample ID:** WU0050-013

Concentration Units : mg/Kg

CAS No.	Analyte	Concentration	C	Q	M	DF	Adjusted PQL	Adjusted IDL
7429-90-5	ALUMINUM, TOTAL	692			P	1	25	1.33
7440-36-0	ANTIMONY, TOTAL	0.37	B	N	P	1	0.68	0.15
7440-38-2	ARSENIC, TOTAL	1.1			P	1	0.68	0.18
7440-39-3	BARIUM, TOTAL	18.2			P	1	0.42	0.05
7440-41-7	BERYLLIUM, TOTAL	0.14	B		P	1	0.42	0.02
7440-43-9	CADMIUM, TOTAL	1.9			P	1	0.84	0.22
7440-70-2	CALCIUM, TOTAL	266000		*	P	10	42	13.09
7440-47-3	CHROMIUM, TOTAL	11.3			P	1	1.3	0.07
7440-48-4	COBALT, TOTAL	0.62	B		P	1	2.5	0.25
7440-50-8	COPPER, TOTAL	103		*	P	1	2.1	0.28
7439-89-6	IRON, TOTAL	1770			P	1	8.4	0.41
7439-92-1	LEAD, TOTAL	29.2			P	1	0.42	0.13
7439-95-4	MAGNESIUM, TOTAL	1400		N	P	1	4.2	2.63
7439-96-5	MANGANESE, TOTAL	52.7			P	1	0.42	0.08
7439-97-6	MERCURY, TOTAL	0.27		N*	CV	2	0.055	0.01
7440-02-0	NICKEL, TOTAL	6.2			P	1	3.4	1.02
7440-09-7	POTASSIUM, TOTAL	110			P	1	84	40.44
7782-49-2	SELENIUM, TOTAL	0.20	U		P	1	0.84	0.20
7440-22-4	SILVER, TOTAL	0.30	U	N	P	1	1.3	0.30
7440-23-5	SODIUM, TOTAL	70.6	B		P	1	84	2.09
7440-28-0	THALLIUM, TOTAL	0.23	U		P	1	1.3	0.23
7440-62-2	VANADIUM, TOTAL	3.7			P	1	2.1	0.30
7440-66-6	ZINC, TOTAL	64.8		N	P	1	2.1	0.17

Color Before: N/A Texture: N/A

Color After: N/A Clarity After: N/A

Comments:

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services **Client Field ID:** MPT-45-D4-2'

Matrix: SOIL **SDG Name:** WU0050

Percent Solids: 86.8 **Lab Sample ID:** WU0050-014

Concentration Units : mg/Kg

CAS No.	Analyte	Concentration	C	Q	M	DF	Adjusted PQL	Adjusted IDL
7429-90-5	ALUMINUM, TOTAL	2920			P	1	30	1.59
7440-36-0	ANTIMONY, TOTAL	0.18	U	N	P	1	0.81	0.18
7440-38-2	ARSENIC, TOTAL	0.22	U		P	1	0.81	0.22
7440-39-3	BARIUM, TOTAL	12.4			P	1	0.50	0.05
7440-41-7	BERYLLIUM, TOTAL	0.11	B		P	1	0.50	0.03
7440-43-9	CADMIUM, TOTAL	0.27	U		P	1	1.0	0.27
7440-70-2	CALCIUM, TOTAL	498		*	P	1	5.0	1.57
7440-47-3	CHROMIUM, TOTAL	3.7			P	1	1.5	0.09
7440-48-4	COBALT, TOTAL	0.34	B		P	1	3.0	0.30
7440-50-8	COPPER, TOTAL	6.6		*	P	1	2.5	0.33
7439-89-6	IRON, TOTAL	730			P	1	10	0.49
7439-92-1	LEAD, TOTAL	2.6			P	1	0.50	0.16
7439-95-4	MAGNESIUM, TOTAL	127		N	P	1	5.0	3.15
7439-96-5	MANGANESE, TOTAL	5.8			P	1	0.50	0.09
7439-97-6	MERCURY, TOTAL	0.02	U	N*	CV	2	0.076	0.02
7440-02-0	NICKEL, TOTAL	1.22	U		P	1	4.0	1.22
7440-09-7	POTASSIUM, TOTAL	53.4	B		P	1	100	48.41
7782-49-2	SELENIUM, TOTAL	0.23	U		P	1	1.0	0.23
7440-22-4	SILVER, TOTAL	0.36	U	N	P	1	1.5	0.36
7440-23-5	SODIUM, TOTAL	26.0	B		P	1	100	2.51
7440-28-0	THALLIUM, TOTAL	0.37	B		P	1	1.5	0.28
7440-62-2	VANADIUM, TOTAL	3.6			P	1	2.5	0.36
7440-66-6	ZINC, TOTAL	3.0		N	P	1	2.5	0.20

Color Before: N/A Texture: N/A

Color After: N/A Clarity After: N/A

Comments:

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services **Client Field ID:** MPT-45-E4-2'

Matrix: SOIL **SDG Name:** WU0050

Percent Solids: 87.4 **Lab Sample ID:** WU0050-015

Concentration Units : mg/Kg

CAS No.	Analyte	Concentration	C	Q	M	DF	Adjusted PQL	Adjusted IDL
7429-90-5	ALUMINUM, TOTAL	1690			P	1	30	1.59
7440-36-0	ANTIMONY, TOTAL	0.94		N	P	1	0.81	0.18
7440-38-2	ARSENIC, TOTAL	3.0			P	1	0.81	0.22
7440-39-3	BARIUM, TOTAL	8.2			P	1	0.50	0.05
7440-41-7	BERYLLIUM, TOTAL	0.23	B		P	1	0.50	0.03
7440-43-9	CADMIUM, TOTAL	0.27	U		P	1	1.0	0.27
7440-70-2	CALCIUM, TOTAL	146000		*	P	10	50	15.68
7440-47-3	CHROMIUM, TOTAL	4.8			P	1	1.5	0.09
7440-48-4	COBALT, TOTAL	1.8	B		P	1	3.0	0.30
7440-50-8	COPPER, TOTAL	5.2		*	P	1	2.5	0.33
7439-89-6	IRON, TOTAL	1880			P	1	10	0.49
7439-92-1	LEAD, TOTAL	5.4			P	1	0.50	0.16
7439-95-4	MAGNESIUM, TOTAL	742		N	P	1	5.0	3.16
7439-96-5	MANGANESE, TOTAL	57.2			P	1	0.50	0.09
7439-97-6	MERCURY, TOTAL	0.02	B	N*	CV	2	0.068	0.01
7440-02-0	NICKEL, TOTAL	1.8	B		P	1	4.0	1.22
7440-09-7	POTASSIUM, TOTAL	167			P	1	100	48.47
7782-49-2	SELENIUM, TOTAL	0.23	U		P	1	1.0	0.23
7440-22-4	SILVER, TOTAL	0.36	U	N	P	1	1.5	0.36
7440-23-5	SODIUM, TOTAL	1220			P	1	100	2.51
7440-28-0	THALLIUM, TOTAL	0.41	B		P	1	1.5	0.28
7440-62-2	VANADIUM, TOTAL	5.8			P	1	2.5	0.36
7440-66-6	ZINC, TOTAL	11.0		N	P	1	2.5	0.20

Color Before: N/A Texture: N/A

Color After: N/A Clarity After: N/A

Comments:

INORGANIC ANALYSIS DATA SHEET

Lab Name: Katahdin Analytical Services **Client Field ID:** MPT-45-E4-5'

Matrix: SOIL **SDG Name:** WU0050

Percent Solids: 94.0 **Lab Sample ID:** WU0050-016

Concentration Units : mg/Kg

CAS No.	Analyte	Concentration	C	Q	M	DF	Adjusted PQL	Adjusted IDL
7429-90-5	ALUMINUM, TOTAL	1350			P	1	22	1.17
7440-36-0	ANTIMONY, TOTAL	0.49	B	N	P	1	0.60	0.13
7440-38-2	ARSENIC, TOTAL	1.5			P	1	0.60	0.16
7440-39-3	BARIUM, TOTAL	6.4			P	1	0.37	0.04
7440-41-7	BERYLLIUM, TOTAL	0.11	B		P	1	0.37	0.02
7440-43-9	CADMIUM, TOTAL	0.20	U		P	1	0.74	0.20
7440-70-2	CALCIUM, TOTAL	64000		*	P	2	7.4	2.31
7440-47-3	CHROMIUM, TOTAL	5.5			P	1	1.1	0.07
7440-48-4	COBALT, TOTAL	1.2	B		P	1	2.2	0.22
7440-50-8	COPPER, TOTAL	15.0		*	P	1	1.8	0.25
7439-89-6	IRON, TOTAL	6230			P	1	7.4	0.36
7439-92-1	LEAD, TOTAL	4.3			P	1	0.37	0.12
7439-95-4	MAGNESIUM, TOTAL	336		N	P	1	3.7	2.32
7439-96-5	MANGANESE, TOTAL	35.1			P	1	0.37	0.07
7439-97-6	MERCURY, TOTAL	0.02	B	N*	CV	2	0.066	0.01
7440-02-0	NICKEL, TOTAL	5.7			P	1	3.0	0.90
7440-09-7	POTASSIUM, TOTAL	63.8	B		P	1	74	35.63
7782-49-2	SELENIUM, TOTAL	0.17	U		P	1	0.74	0.17
7440-22-4	SILVER, TOTAL	0.27	U	N	P	1	1.1	0.27
7440-23-5	SODIUM, TOTAL	601			P	1	74	1.84
7440-28-0	THALLIUM, TOTAL	0.36	B		P	1	1.1	0.21
7440-62-2	VANADIUM, TOTAL	3.2			P	1	1.8	0.27
7440-66-6	ZINC, TOTAL	12.6		N	P	1	1.8	0.15

Color Before: N/A Texture: N/A

Color After: N/A Clarity After: N/A

Comments:

Katahdin
ANALYTICAL SERVICES

ACCREDITED IN ACCORDANCE WITH nelac
Cert No E87604

Report of Analytical Results

Client: Amy Thomson
Tetra Tech NUS, Inc.
661 Andersen Drive
Pittsburgh,PA 15220

Lab Sample ID: WU0050-1
Report Date: 19-JAN-04
Client PO: MSA-0402-N4113-05 N0123
Project: CTO91 NS MAYPORT
SDG: WU0050

Sample Description	Matrix	Date Sampled	Date Received
MPT-45-A1-2'	SL	05-JAN-04	09-JAN-04

Parameter	Result	Adj PQL	Anal. Method	QC.Batch	Anal. Date	By	Prep. Method	Prep. Date	By	Footnotes
Total Cyanide	J0.39 mg/Kg	.55	SW846 M9012A	WG5444	13-JAN-04	KGT	SW846 M9012	12-JAN-04	PAG	
Total Solids	91 %	.1	CLP SOW 788	WG5393	12-JAN-04	JF	CLP SOW 788	09-JAN-04	JF	

Katahdin
ANALYTICAL SERVICES

Accredited in accordance with nelac
Cert No E87604

Report of Analytical Results

Client: Amy Thomson
Tetra Tech NUS, Inc.
661 Andersen Drive
Pittsburgh,PA 15220

Lab Sample ID: WU0050-2
Report Date: 19-JAN-04
Client PO: MSA-0402-N4113-05 N0123
Project: CTO91 NS MAYPORT
SDG: WU0050

Sample Description	Matrix	Date Sampled	Date Received
MPT-45-A2-2'	SL	05-JAN-04	09-JAN-04

Parameter	Result	Adj PQL	Anal. Method	QC.Batch	Anal. Date	By	Prep. Method	Prep. Date	By	Footnotes
Total Cyanide	J0.35 mg/Kg	.54	SW846 M9012A	WG5444	13-JAN-04	KGT	SW846 M9012	12-JAN-04	PAG	
Total Solids	93 %	.1	CLP SOW 788	WG5393	12-JAN-04	JF	CLP SOW 788	09-JAN-04	JF	

Katahdin
ANALYTICAL SERVICES

Accredited in accordance with nelac
Cert No E87604

Report of Analytical Results

Client: Amy Thomson
Tetra Tech NUS, Inc.
661 Andersen Drive
Pittsburgh,PA 15220

Lab Sample ID: WU0050-3
Report Date: 19-JAN-04
Client PO: MSA-0402-N4113-05 N0123
Project: CTO91 NS MAYPORT
SDG: WU0050

Sample Description	Matrix	Date Sampled	Date Received
MPT-45-A3-2'	SL	05-JAN-04	09-JAN-04

Parameter	Result	Adj PQL	Anal. Method	QC.Batch	Anal. Date	By	Prep. Method	Prep. Date	By	Footnotes
Total Cyanide	J0.26 mg/Kg	.52	SW846 M9012A	WG5444	13-JAN-04	KGT	SW846 M9012	12-JAN-04	PAG	
Total Solids	95 %	.1	CLP SOW 788	WG5393	12-JAN-04	JF	CLP SOW 788	09-JAN-04	JF	

Katahdin
ANALYTICAL SERVICES

Accredited in accordance with nelac
Cert No E87604

Report of Analytical Results

Client: Amy Thomson
Tetra Tech NUS, Inc.
661 Andersen Drive
Pittsburgh,PA 15220

Lab Sample ID: WU0050-4
Report Date: 19-JAN-04
Client PO: MSA-0402-N4113-05 N0123
Project: CTO91 NS MAYPORT
SDG: WU0050

Sample Description	Matrix	Date Sampled	Date Received
MPT-45-A4-2'	SL	05-JAN-04	09-JAN-04

Parameter	Result	Adj PQL	Anal. Method	QC.Batch	Anal. Date	By	Prep. Method	Prep. Date	By	Footnotes
Total Cyanide	J0.46 mg/Kg	.54	SW846 M9012A	WG5444	13-JAN-04	KGT	SW846 M9012	12-JAN-04	PAG	
Total Solids	93 %	.1	CLP SOW 788	WG5393	12-JAN-04	JF	CLP SOW 788	09-JAN-04	JF	

Katahdin
ANALYTICAL SERVICES

ACCREDITED IN ACCORDANCE WITH nelac
Cert No E87604

Report of Analytical Results

Client: Amy Thomson
Tetra Tech NUS, Inc.
661 Andersen Drive
Pittsburgh,PA 15220

Lab Sample ID: WU0050-5
Report Date: 19-JAN-04
Client PO: MSA-0402-N4113-05 N0123
Project: CTO91 NS MAYPORT
SDG: WU0050

Sample Description	Matrix	Date Sampled	Date Received
MPT-45-B1-2'	SL	05-JAN-04	09-JAN-04

Parameter	Result	Adj PQL	Anal. Method	QC.Batch	Anal. Date	By	Prep. Method	Prep. Date	By	Footnotes
Total Cyanide	J0.30 mg/Kg	.55	SW846 M9012A	WG5444	13-JAN-04	KGT	SW846 M9012	12-JAN-04	PAG	
Total Solids	91 %	.1	CLP SOW 788	WG5393	12-JAN-04	JF	CLP SOW 788	09-JAN-04	JF	

Katahdin
ANALYTICAL SERVICES

ACCREDITED IN ACCORDANCE WITH nelac
Cert No E87604

Report of Analytical Results

Client: Amy Thomson
Tetra Tech NUS, Inc.
661 Andersen Drive
Pittsburgh,PA 15220

Lab Sample ID: WU0050-6
Report Date: 19-JAN-04
Client PO: MSA-0402-N4113-05 N0123
Project: CTO91 NS MAYPORT
SDG: WU0050

Sample Description	Matrix	Date Sampled	Date Received
MPT-45-B2-2'	SL	05-JAN-04	09-JAN-04

Parameter	Result	Adj PQL	Anal. Method	QC.Batch	Anal. Date	By	Prep. Method	Prep. Date	By	Footnotes
Total Cyanide	J0.49 mg/Kg	.52	SW846 M9012A	WG5444	13-JAN-04	KGT	SW846 M9012	12-JAN-04	PAG	
Total Solids	96 %	.1	CLP SOW 788	WG5393	12-JAN-04	JF	CLP SOW 788	09-JAN-04	JF	

Katahdin
ANALYTICAL SERVICES

ACCREDITED IN ACCORDANCE WITH nelac
Cert No E87604

Report of Analytical Results

Client: Amy Thomson
Tetra Tech NUS, Inc.
661 Andersen Drive
Pittsburgh,PA 15220

Lab Sample ID: WU0050-7
Report Date: 19-JAN-04
Client PO: MSA-0402-N4113-05 N0123
Project: CTO91 NS MAYPORT
SDG: WU0050

Sample Description	Matrix	Date Sampled	Date Received
MPT-45-B3-2'	SL	05-JAN-04	09-JAN-04

Parameter	Result	Adj PQL	Anal. Method	QC.Batch	Anal. Date	By	Prep. Method	Prep. Date	By	Footnotes
Total Cyanide	J0.49 mg/Kg	.55	SW846 M9012A	WG5444	13-JAN-04	KGT	SW846 M9012	12-JAN-04	PAG	
Total Solids	91 %	.1	CLP SOW 788	WG5393	12-JAN-04	JF	CLP SOW 788	09-JAN-04	JF	

Katahdin
ANALYTICAL SERVICES

Accredited in accordance with nelac
Cert No E87604

Report of Analytical Results

Client: Amy Thomson
Tetra Tech NUS, Inc.
661 Andersen Drive
Pittsburgh,PA 15220

Lab Sample ID: WU0050-8
Report Date: 19-JAN-04
Client PO: MSA-0402-N4113-05 N0123
Project: CTO91 NS MAYPORT
SDG: WU0050

Sample Description	Matrix	Date Sampled	Date Received
MPT-45-B4-2'	SL	05-JAN-04	09-JAN-04

Parameter	Result	Adj PQL	Anal. Method	QC.Batch	Anal. Date	By	Prep. Method	Prep. Date	By	Footnotes
Total Cyanide	J0.44 mg/Kg	.52	SW846 M9012A	WG5444	13-JAN-04	KGT	SW846 M9012	12-JAN-04	PAG	
Total Solids	96 %	.1	CLP SOW 788	WG5393	12-JAN-04	JF	CLP SOW 788	09-JAN-04	JF	

Katahdin
ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client: Amy Thomson
Tetra Tech NUS, Inc.
661 Andersen Drive
Pittsburgh,PA 15220

Lab Sample ID: WU0050-9
Report Date: 19-JAN-04
Client PO: MSA-0402-N4113-05 N0123
Project: CTO91 NS MAYPORT
SDG: WU0050

Sample Description	Matrix	Date Sampled	Date Received
MPT-45-C1-2'	SL	05-JAN-04	09-JAN-04

Parameter	Result	Adj PQL	Anal. Method	QC.Batch	Anal. Date	By	Prep. Method	Prep. Date	By	Footnotes
Total Cyanide	J0.48 mg/Kg	.52	SW846 M9012A	WG5444	13-JAN-04	KGT	SW846 M9012	12-JAN-04	PAG	
Total Solids	97 %	.1	CLP SOW 788	WG5393	12-JAN-04	JF	CLP SOW 788	09-JAN-04	JF	

Katahdin
ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client: Amy Thomson
Tetra Tech NUS, Inc.
661 Andersen Drive
Pittsburgh,PA 15220

Lab Sample ID: WU0050-10
Report Date: 19-JAN-04
Client PO: MSA-0402-N4113-05 N0123
Project: CTO91 NS MAYPORT
SDG: WU0050

Sample Description	Matrix	Date Sampled	Date Received
MPT-45-C2-2'	SL	05-JAN-04	09-JAN-04

Parameter	Result	Adj PQL	Anal. Method	QC.Batch	Anal. Date	By	Prep. Method	Prep. Date	By	Footnotes
Total Cyanide	0.67 mg/Kg	.52	SW846 M9012A	WG5444	13-JAN-04	KGT	SW846 M9012	12-JAN-04	PAG	
Total Solids	96 %	.1	CLP SOW 788	WG5393	12-JAN-04	JF	CLP SOW 788	09-JAN-04	JF	

Katahdin
ANALYTICAL SERVICES

Accredited in accordance with nelac
Cert No E87604

Report of Analytical Results

Client: Amy Thomson
Tetra Tech NUS, Inc.
661 Andersen Drive
Pittsburgh,PA 15220

Lab Sample ID: WU0050-11
Report Date: 19-JAN-04
Client PO: MSA-0402-N4113-05 N0123
Project: CTO91 NS MAYPORT
SDG: WU0050

Sample Description	Matrix	Date Sampled	Date Received
MPT-45-C3-2'	SL	05-JAN-04	09-JAN-04

Parameter	Result	Adj PQL	Anal. Method	QC.Batch	Anal. Date	By	Prep. Method	Prep. Date	By	Footnotes
Total Cyanide	0.72 mg/Kg	.53	SW846 M9012A	WG5444	13-JAN-04	KGT	SW846 M9012	12-JAN-04	PAG	
Total Solids	95 %	.1	CLP SOW 788	WG5393	12-JAN-04	JF	CLP SOW 788	09-JAN-04	JF	

340 County Road No. 5
P.O. Box 720, Westbrook, ME 04098
Tel:(207) 874-2400 Fax:(207) 775-4029

http://katahdinlab.com
sales@katahdinlab.com

Report of Analytical Results

Client: Amy Thomson
Tetra Tech NUS, Inc.
661 Andersen Drive
Pittsburgh,PA 15220

Lab Sample ID: WU0050-12
Report Date: 19-JAN-04
Client PO: MSA-0402-N4113-05 N0123
Project: CTO91 NS MAYPORT
SDG: WU0050

Sample Description	Matrix	Date Sampled	Date Received
MPT-45-C4-2'	SL	05-JAN-04	09-JAN-04

Parameter	Result	Adj PQL	Anal. Method	QC.Batch	Anal. Date	By	Prep. Method	Prep. Date	By	Footnotes
Total Cyanide	0.59 mg/Kg	.52	SW846 M9012A	WG5444	13-JAN-04	KGT	SW846 M9012	12-JAN-04	PAG	
Total Solids	96 %	.1	CLP SOW 788	WG5393	12-JAN-04	JF	CLP SOW 788	09-JAN-04	JF	

Katahdin
ANALYTICAL SERVICES

ACCREDITED IN ACCORDANCE WITH nelac
Cert No E87604

Report of Analytical Results

Client: Amy Thomson
Tetra Tech NUS, Inc.
661 Andersen Drive
Pittsburgh,PA 15220

Lab Sample ID: WU0050-13
Report Date: 19-JAN-04
Client PO: MSA-0402-N4113-05 N0123
Project: CTO91 NS MAYPORT
SDG: WU0050

Sample Description	Matrix	Date Sampled	Date Received
MPT-45-D3-2'	SL	05-JAN-04	09-JAN-04

Parameter	Result	Adj PQL	Anal. Method	QC.Batch	Anal. Date	By	Prep. Method	Prep. Date	By	Footnotes
Total Cyanide	0.85 mg/Kg	.54	SW846 M9012A	WG5444	13-JAN-04	KGT	SW846 M9012	12-JAN-04	PAG	
Total Solids	93 %	.1	CLP SOW 788	WG5393	12-JAN-04	JF	CLP SOW 788	09-JAN-04	JF	

Katahdin
ANALYTICAL SERVICES

Accredited in accordance with nelac
Cert No E87604

Report of Analytical Results

Client: Amy Thomson
Tetra Tech NUS, Inc.
661 Andersen Drive
Pittsburgh,PA 15220

Lab Sample ID: WU0050-14
Report Date: 19-JAN-04
Client PO: MSA-0402-N4113-05 N0123
Project: CTO91 NS MAYPORT
SDG: WU0050

Sample Description	Matrix	Date Sampled	Date Received
MPT-45-D4-2'	SL	05-JAN-04	09-JAN-04

Parameter	Result	Adj PQL	Anal. Method	QC.Batch	Anal. Date	By	Prep. Method	Prep. Date	By	Footnotes
Total Cyanide	U0.58 mg/Kg	.58	SW846 M9012A	WG5445	13-JAN-04	KGT	SW846 M9012	13-JAN-04	PAG	
Total Solids	87 %	.1	CLP SOW 788	WG5393	12-JAN-04	JF	CLP SOW 788	09-JAN-04	JF	

340 County Road No. 5
P.O. Box 720, Westbrook, ME 04098
Tel:(207) 874-2400 Fax:(207) 775-4029

http://katahdinlab.com
sales@katahdinlab.com

Report of Analytical Results

Client: Amy Thomson
Tetra Tech NUS, Inc.
661 Andersen Drive
Pittsburgh,PA 15220

Lab Sample ID: WU0050-15
Report Date: 19-JAN-04
Client PO: MSA-0402-N4113-05 N0123
Project: CTO91 NS MAYPORT
SDG: WU0050

Sample Description	Matrix	Date Sampled	Date Received
MPT-45-E4-2'	SL	05-JAN-04	09-JAN-04

Parameter	Result	Adj PQL	Anal. Method	QC.Batch	Anal. Date	By	Prep. Method	Prep. Date	By	Footnotes
Total Cyanide	U0.57 mg/Kg	.57	SW846 M9012A	WG5445	13-JAN-04	KGT	SW846 M9012	13-JAN-04	PAG	
Total Solids	87 %	.1	CLP SOW 788	WG5393	12-JAN-04	JF	CLP SOW 788	09-JAN-04	JF	

Katahdin
ANALYTICAL SERVICES

ACCREDITED IN ACCORDANCE WITH nelac
Cert No E87604

Report of Analytical Results

Client: Amy Thomson
Tetra Tech NUS, Inc.
661 Andersen Drive
Pittsburgh,PA 15220

Lab Sample ID: WU0050-16
Report Date: 19-JAN-04
Client PO: MSA-0402-N4113-05 N0123
Project: CTO91 NS MAYPORT
SDG: WU0050

Sample Description	Matrix	Date Sampled	Date Received
MPT-45-E4-5'	SL	05-JAN-04	09-JAN-04

Parameter	Result	Adj PQL	Anal. Method	QC.Batch	Anal. Date	By	Prep. Method	Prep. Date	By	Footnotes
Total Cyanide	U0.53 mg/Kg	.53	SW846 M9012A	WG5445	13-JAN-04	KGT	SW846 M9012	13-JAN-04	PAG	
Total Solids	94 %	.1	CLP SOW 788	WG5393	12-JAN-04	JF	CLP SOW 788	09-JAN-04	JF	

APPENDIX C

SUPPORT DOCUMENTATION

WW0050

TETRA TECH NUS, INC. | CHAIN OF CUSTODY | NUMBER 11223 | PAGE 1 OF 2

PROJECT NO: N0123 (CTO 91)	FACILITY: NS Mayport	PROJECT MANAGER Terry Hansen	PHONE NUMBER	LABORATORY NAME AND CONTACT: KaTahdin / Andrea Colby
SAMPLERS (SIGNATURE) Charles Metz		FIELD OPERATIONS LEADER Charles Metz	PHONE NUMBER 904-636-6125	ADDRESS 340 County Rd #5
		CARRIER/WAYBILL NUMBER		CITY, STATE Westbrook, ME 04092

STANDARD TAT ☐
RUSH TAT ☑
☐ 24 hr. ☐ 48 hr. ☐ 72 hr. ☐ 7 day ☐ 14 day

DATE YEAR 2003	TIME	SAMPLE ID	LOCATION ID	TOP DEPTH (FT)	BOTTOM DEPTH (FT)	MATRIX (GW, SO, SW, SD, QC, ETC.)	COLLECTION METHOD GRAP (G) COMP (C)	No. OF CONTAINERS	CONTAINER TYPE PLASTIC (P) or GLASS (G)	PRESERVATIVE USED	TYPE OF ANALYSIS All Analysis	COMMENTS
									G	—		
1-5	1400	MPT-45-A1-2'		1	2	SO	C	1	1			
	1352	MPT-45-A2-2'					C	1	1			
	1345	MPT-45-A3-2'					C	1	1			
	1300	MPT-45-A4-2'					C	1	1			
	1426	MPT-45-B1-2'					C	1	1			Cool 4°C
	1418	MPT-45-B2-2'					C	1	1			
	1410	MPT-45-B3-2'					C	1	1			
	1255	MPT-45-B4-2'					C	1	1			
	1503	MPT-45-C1-2'					C	1	1			
	1458	MPT-45-C2-2'					C	1	1			
	1449	MPT-45-C3-2'					C	1	1			
	1240	MPT-45-C4-2'					C	1	1			
↓	1524	MPT-45-D3-2'		↓	↓	↓	C	1	1			

	DATE	TIME		DATE	TIME
1. RELINQUISHED BY Charles Metz	1-8-04	1850	1. RECEIVED BY	1-9-04	0905
2. RELINQUISHED BY	DATE	TIME	2. RECEIVED BY	DATE	TIME
3. RELINQUISHED BY	DATE	TIME	3. RECEIVED BY	DATE	TIME

COMMENTS

DISTRIBUTION: WHITE (ACCOMPANIES SAMPLE) YELLOW (FIELD COPY) PINK (FILE COPY)

4/02R
FORM NO. TtNUS-001

11000C

TETRA TECH NUS, INC. | CHAIN OF CUSTODY | NUMBER 11223 | PAGE 2 OF 2

PROJECT NO: N0123 (CTO 091)	FACILITY: NS Mayport	PROJECT MANAGER Terry Hansen	PHONE NUMBER	LABORATORY NAME AND CONTACT: Katahdin / Andrea Colby
SAMPLERS (SIGNATURE) Charles Metz		FIELD OPERATIONS LEADER Charles Metz	PHONE NUMBER 904-636-6125	ADDRESS 340 County Rd #5
		CARRIER/WAYBILL NUMBER 7905-1407-8163 7905-1407-8141		CITY, STATE Westbrook Me 04092

STANDARD TAT ☐ RUSH TAT ☑ ☐ 24 hr. ☐ 48 hr. ☐ 72 hr. ☐ 7 day ☐ 14 day

DATE YEAR 2003	TIME	SAMPLE ID	LOCATION ID	TOP DEPTH (FT)	BOTTOM DEPTH (FT)	MATRIX (GW, SO, SW, SD, QC, ETC.)	COLLECTION METHOD GRAP (G) COMP (C)	No. OF CONTAINERS	CONTAINER TYPE PLASTIC (P) or GLASS (G): G	PRESERVATIVE USED: —	TYPE OF ANALYSIS: All Analysis	COMMENTS
1-5	1514	MPT-45-D4-2'		1	2	SO	C	1	1			
1-5	1200	MPT-45-E4-2'		1	2	SO	C	1	1			
1-5	1220	MPT-45-E4-5'		4	5	SO	C	1	1			
												Cool 4°C

2 Coolers

1. RELINQUISHED BY Charles Metz	DATE 1-8-04	TIME 1850	1. RECEIVED BY		DATE 1-9-04	TIME 0925
2. RELINQUISHED BY	DATE	TIME	2. RECEIVED BY		DATE	TIME
3. RELINQUISHED BY	DATE	TIME	3. RECEIVED BY		DATE	TIME

COMMENTS

DISTRIBUTION: WHITE (ACCOMPANIES SAMPLE) YELLOW (FIELD COPY) PINK (FILE COPY)

4/02R
FORM NO. TtNUS-001

000012

KATAHDIN ANALYTICAL SERVICES, INC.
SAMPLE RECEIPT CONDITION REPORT
Tel. (207) 874-2400
Fax (207) 775-4029

LAB (WORK ORDER) # WWC055C

PAGE: 1 OF 2

COOLER: 1 OF 2

CLIENT: Tetra tech

PROJECT: C7091 Mayport

COC#
SDG#
DATE / TIME RECEIVED: 1/9/06 0825
DELIVERED BY: Fedex
RECEIVED BY:
LIMS ENTRY BY:
LIMS REVIEW BY / PM: AC

	YES	NO	EXCEPTIONS
1. CUSTODY SEALS PRESENT / INTACT?	☑	☐	☐
2.CHAIN OF CUSTODY PRESENT IN THIS COOLER?	☑	☐	☐
3. CHAIN OF CUSTODY SIGNED BY CLIENT?	☑	☐	☐
4. CHAIN OF CUSTODY MATCHES SAMPLES?	☑	☐	☐
5. TEMPERATURE BLANKS PRESENT?	☑	☐	☐
6. SAMPLES RECEIVED AT 4°C +/- 2? ICE / ICE PACKS PRESENT (Y) or N?	☐	☑	☐
7. VOLATILES FREE OF HEADSPACE?	☐	☐	☑
8. TRIP BLANK PRESENT IN THIS COOLER	☐	☑	☐
9. PROPER SAMPLE CONTAINERS AND VOLUME?	☑	☐	☐
10. SAMPLES WITHIN HOLD TIME UPON RECEIPT?	☑	☐	☐
11. SAMPLES PROPERLY PRESERVED(1)?	☑	☐	☐
12. CORRECTIVE ACTION REPORT FILED?	☐	☑	N/A

COMMENTS	RESOLUTION
TEMP BLANK TEMP (°C)= 1.7	
COOLER TEMP (°C)= NA	
(RECORD COOLER TEMP ONLY IF TEMP BLANK IS NOT PRESENT)	

13. ANALYTICAL PROGRAMS (CIRCLE ONE) COMMERCIAL CLP HAZWRAP (NFESC) ACOE AFCEE OTHER (STATE OF ORIGIN):

LOG - IN NOTES(1):

(1) Use this space (and additional sheets if necessary) to document samples that are received broken or compromised, C-O-C discrepancies, radiation checks, residual chlorine check, results of pH check if required. If samples required pH adjustment, record volume and type of preservative added.

00000

KATAHDIN ANALYTICAL SERVICES, INC.
SAMPLE RECEIPT CONDITION REPORT
Tel. (207) 874-2400
Fax (207) 775-4029

LAB (WORK ORDER) # 4LL0050

PAGE: 2 OF 2

COOLER: 2 OF 2

CLIENT: Tetra tech

PROJECT: CTO 91 Mayport

COC#
SDG#
DATE / TIME RECEIVED: 1-9-01 0925
DELIVERED BY: FedEx
RECEIVED BY: AmB
LIMS ENTRY BY: AMB
LIMS REVIEW BY / PM: AJC

	YES	NO	EXCEPTIONS
1. CUSTODY SEALS PRESENT / INTACT?	☑	☐	☐
2.CHAIN OF CUSTODY PRESENT IN THIS COOLER?	☑	☐	☐
3. CHAIN OF CUSTODY SIGNED BY CLIENT?	☑	☐	☐
4. CHAIN OF CUSTODY MATCHES SAMPLES?	☑	☐	☐
5. TEMPERATURE BLANKS PRESENT?	☑	☐	☐
6. SAMPLES RECEIVED AT 4°C +/- 2? (ICE) / ICE PACKS PRESENT (Y) or N?	☐	☑	☐
7. VOLATILES FREE OF HEADSPACE?	☐	☐	☑
8. TRIP BLANK PRESENT IN THIS COOLER	☐	☑	☐
9. PROPER SAMPLE CONTAINERS AND VOLUME?	☑	☐	☐
10. SAMPLES WITHIN HOLD TIME UPON RECEIPT?	☑	☐	☐
11. SAMPLES PROPERLY PRESERVED(1)?	☑	☐	☐
12. CORRECTIVE ACTION REPORT FILED?	☐	☐	☑ N/A

COMMENTS	RESOLUTION
TEMP BLANK TEMP (°C)= 4.0	
COOLER TEMP (°C)= NA (RECORD COOLER TEMP ONLY IF TEMP BLANK IS NOT PRESENT)	

13. ANALYTICAL PROGRAMS (CIRCLE ONE) COMMERCIAL CLP HAZWRAP (NFESC) ACOE AFCEE OTHER (STATE OF ORIGIN):

LOG - IN NOTES(1):

(1) **Use this space (and additional sheets if necessary) to document samples that are received broken or compromised, C-O-C discrepancies, radiation checks, residual chlorine check, results of pH check if required. If samples required pH adjustment, record volume and type of preservative added.**

000010

HOLDTIME

SDG WU0050

SORT	UNITS	NSAMPLE	LAB_ID	QC_TYP	SAMP_DATE	EXTR_DATE	ANAL_DATE	SMP_EXTR	EXTR_ANL	SMP_ANL
HG	MG/KG	MPT-45-C3-2'	WU0050-011R	NM	1/5/2004	1/16/2004	1/19/2004	11	3	14
HG	MG/KG	MPT-45-A1-2'	WU0050-001R	NM	1/5/2004	1/16/2004	1/19/2004	11	3	14
HG	MG/KG	MPT-45-E4-5'	WU0050-016R	NM	1/5/2004	1/16/2004	1/19/2004	11	3	14
HG	MG/KG	MPT-45-E4-2'	WU0050-015R	NM	1/5/2004	1/16/2004	1/19/2004	11	3	14
HG	MG/KG	MPT-45-D4-2'	WU0050-014R	NM	1/5/2004	1/16/2004	1/19/2004	11	3	14
HG	MG/KG	MPT-45-C4-2'	WU0050-012R	NM	1/5/2004	1/16/2004	1/19/2004	11	3	14
HG	MG/KG	MPT-45-C2-2'	WU0050-010R	NM	1/5/2004	1/16/2004	1/19/2004	11	3	14
HG	MG/KG	MPT-45-C1-2'	WU0050-009R	NM	1/5/2004	1/16/2004	1/19/2004	11	3	14
HG	MG/KG	MPT-45-B4-2'	WU0050-008R	NM	1/5/2004	1/16/2004	1/19/2004	11	3	14
HG	MG/KG	MPT-45-B3-2'	WU0050-007R	NM	1/5/2004	1/16/2004	1/19/2004	11	3	14
HG	MG/KG	MPT-45-B2-2'	WU0050-006R	NM	1/5/2004	1/16/2004	1/19/2004	11	3	14
HG	MG/KG	MPT-45-B1-2'	WU0050-005R	NM	1/5/2004	1/16/2004	1/19/2004	11	3	14
HG	MG/KG	MPT-45-A4-2'	WU0050-004R	NM	1/5/2004	1/16/2004	1/19/2004	11	3	14
HG	MG/KG	MPT-45-A3-2'	WU0050-003R	NM	1/5/2004	1/16/2004	1/19/2004	11	3	14
HG	MG/KG	MPT-45-A2-2'	WU0050-002R	NM	1/5/2004	1/16/2004	1/19/2004	11	3	14

SORT	UNITS	NSAMPLE	LAB_ID	QC_TYP	SAMP_DATE	EXTR_DATE	ANAL_DATE	SMP_EXTR	EXTR_ANL	SMP_ANL
HG	MG/KG	MPT-45-D3-2'	WU0050-013R	NM	1/5/2004	1/16/2004	1/19/2004	11	3	14
M	MG/KG	MPT-45-B1-2'	WU0050-005	NM	1/5/2004	1/12/2004	1/13/2004	7	1	8
M	MG/KG	MPT-45-A4-2'	WU0050-004	NM	1/5/2004	1/12/2004	1/13/2004	7	1	8
M	MG/KG	MPT-45-A1-2'	WU0050-001	NM	1/5/2004	1/12/2004	1/13/2004	7	1	8
M	MG/KG	MPT-45-A2-2'	WU0050-002	NM	1/5/2004	1/12/2004	1/13/2004	7	1	8
M	MG/KG	MPT-45-A2-2'	WU0050-002	NM	1/5/2004	1/12/2004	1/14/2004	7	2	9
M	MG/KG	MPT-45-A3-2'	WU0050-003	NM	1/5/2004	1/12/2004	1/13/2004	7	1	8
M	MG/KG	MPT-45-C2-2'	WU0050-010	NM	1/5/2004	1/12/2004	1/14/2004	7	2	9
M	MG/KG	MPT-45-E4-5'	WU0050-016	NM	1/5/2004	1/12/2004	1/13/2004	7	1	8
M	MG/KG	MPT-45-E4-2'	WU0050-015	NM	1/5/2004	1/12/2004	1/14/2004	7	2	9
M	MG/KG	MPT-45-E4-2'	WU0050-015	NM	1/5/2004	1/12/2004	1/13/2004	7	1	8
M	MG/KG	MPT-45-D4-2'	WU0050-014	NM	1/5/2004	1/12/2004	1/13/2004	7	1	8
M	MG/KG	MPT-45-D3-2'	WU0050-013	NM	1/5/2004	1/12/2004	1/14/2004	7	2	9
M	MG/KG	MPT-45-D3-2'	WU0050-013	NM	1/5/2004	1/12/2004	1/13/2004	7	1	8
M	MG/KG	MPT-45-C4-2'	WU0050-012	NM	1/5/2004	1/12/2004	1/14/2004	7	2	9
M	MG/KG	MPT-45-C4-2'	WU0050-012	NM	1/5/2004	1/12/2004	1/13/2004	7	1	8
M	MG/KG	MPT-45-A3-2'	WU0050-003	NM	1/5/2004	1/12/2004	1/14/2004	7	2	9
M	MG/KG	MPT-45-C3-2'	WU0050-011	NM	1/5/2004	1/12/2004	1/13/2004	7	1	8

SORT	UNITS	NSAMPLE	LAB_ID	QC_TYP	SAMP_DATE	EXTR_DATE	ANAL_DATE	SMP_EXTR	EXTR_ANL	SMP_ANL
M	MG/KG	MPT-45-E4-5'	WU0050-016	NM	1/5/2004	1/12/2004	1/14/2004	7	2	9
M	MG/KG	MPT-45-C2-2'	WU0050-010	NM	1/5/2004	1/12/2004	1/13/2004	7	1	8
M	MG/KG	MPT-45-C1-2'	WU0050-009	NM	1/5/2004	1/12/2004	1/14/2004	7	2	9
M	MG/KG	MPT-45-C1-2'	WU0050-009	NM	1/5/2004	1/12/2004	1/13/2004	7	1	8
M	MG/KG	MPT-45-B4-2'	WU0050-008	NM	1/5/2004	1/12/2004	1/13/2004	7	1	8
M	MG/KG	MPT-45-B3-2'	WU0050-007	NM	1/5/2004	1/12/2004	1/14/2004	7	2	9
M	MG/KG	MPT-45-B3-2'	WU0050-007	NM	1/5/2004	1/12/2004	1/13/2004	7	1	8
M	MG/KG	MPT-45-B2-2'	WU0050-006	NM	1/5/2004	1/12/2004	1/14/2004	7	2	9
M	MG/KG	MPT-45-B2-2'	WU0050-006	NM	1/5/2004	1/12/2004	1/13/2004	7	1	8
M	MG/KG	MPT-45-B1-2'	WU0050-005	NM	1/5/2004	1/12/2004	1/14/2004	7	2	9
M	MG/KG	MPT-45-C3-2'	WU0050-011	NM	1/5/2004	1/12/2004	1/14/2004	7	2	9

HOLDTIME

SDG WU0050

SORT	UNITS	NSAMPLE	LAB_ID	QC_TYP	SAMP_DATE	EXTR_DATE	ANAL_DATE	SMP_EXTR	EXTR_ANL	SMP_ANL
CN	MG/KG	MPT-45-C4-2'	WU0050-12	NM	1/5/2004	1/12/2004	1/13/2004	7	1	8
CN	MG/KG	MPT-45-A1-2'	WU0050-1	NM	1/5/2004	1/12/2004	1/13/2004	7	1	8
CN	MG/KG	MPT-45-E4-5'	WU0050-16	NM	1/5/2004	1/13/2004	1/13/2004	8	0	8
CN	MG/KG	MPT-45-E4-2'	WU0050-15	NM	1/5/2004	1/13/2004	1/13/2004	8	0	8
CN	MG/KG	MPT-45-D3-2'	WU0050-13	NM	1/5/2004	1/12/2004	1/13/2004	7	1	8
CN	MG/KG	MPT-45-C3-2'	WU0050-11	NM	1/5/2004	1/12/2004	1/13/2004	7	1	8
CN	MG/KG	MPT-45-C2-2'	WU0050-10	NM	1/5/2004	1/12/2004	1/13/2004	7	1	8
CN	MG/KG	MPT-45-C1-2'	WU0050-9	NM	1/5/2004	1/12/2004	1/13/2004	7	1	8
CN	MG/KG	MPT-45-A3-2'	WU0050-3	NM	1/5/2004	1/12/2004	1/13/2004	7	1	8
CN	MG/KG	MPT-45-B3-2'	WU0050-7	NM	1/5/2004	1/12/2004	1/13/2004	7	1	8
CN	MG/KG	MPT-45-B2-2'	WU0050-6	NM	1/5/2004	1/12/2004	1/13/2004	7	1	8
CN	MG/KG	MPT-45-A2-2'	WU0050-2	NM	1/5/2004	1/12/2004	1/13/2004	7	1	8
CN	MG/KG	MPT-45-B1-2'	WU0050-5	NM	1/5/2004	1/12/2004	1/13/2004	7	1	8
CN	MG/KG	MPT-45-A4-2'	WU0050-4	NM	1/5/2004	1/12/2004	1/13/2004	7	1	8
CN	MG/KG	MPT-45-B4-2'	WU0050-8	NM	1/5/2004	1/12/2004	1/13/2004	7	1	8

SORT	UNITS	NSAMPLE	LAB_ID	QC_TYP	SAMP_DATE	EXTR_DATE	ANAL_DATE	SMP_EXTR	EXTR_ANL	SMP_ANL
CN	MG/KG	MPT-45-D4-2'	WU0050-14	NM	1/5/2004	1/13/2004	1/13/2004	8	0	8
TS	%	MPT-45-A3-2'	WU0050-3	NM	1/5/2004	1/9/2004	1/12/2004	4	3	7
TS	%	MPT-45-A3-2'	WU0050-19	NM	1/5/2004	1/9/2004	1/12/2004	4	3	7
TS	%	MPT-45-A2-2'	WU0050-2	NM	1/5/2004	1/9/2004	1/12/2004	4	3	7
TS	%	MPT-45-A2-2'	WU0050-18	NM	1/5/2004	1/9/2004	1/12/2004	4	3	7
TS	%	MPT-45-A1-2'	WU0050-1	NM	1/5/2004	1/9/2004	1/12/2004	4	3	7
TS	%	MPT-45-A4-2'	WU0050-4	NM	1/5/2004	1/9/2004	1/12/2004	4	3	7
TS	%	MPT-45-B1-2'	WU0050-21	NM	1/5/2004	1/9/2004	1/12/2004	4	3	7
TS	%	MPT-45-A1-2'	WU0050-17	NM	1/5/2004	1/9/2004	1/12/2004	4	3	7
TS	%	MPT-45-C2-2'	WU0050-26	NM	1/5/2004	1/9/2004	1/12/2004	4	3	7
TS	%	MPT-45-E4-5'	WU0050-16	NM	1/5/2004	1/9/2004	1/12/2004	4	3	7
TS	%	MPT-45-E4-2'	WU0050-31	NM	1/5/2004	1/9/2004	1/12/2004	4	3	7
TS	%	MPT-45-E4-2'	WU0050-15	NM	1/5/2004	1/9/2004	1/12/2004	4	3	7
TS	%	MPT-45-D4-2'	WU0050-30	NM	1/5/2004	1/9/2004	1/12/2004	4	3	7
TS	%	MPT-45-D4-2'	WU0050-14	NM	1/5/2004	1/9/2004	1/12/2004	4	3	7
TS	%	MPT-45-D3-2'	WU0050-29	NM	1/5/2004	1/9/2004	1/12/2004	4	3	7
TS	%	MPT-45-D3-2'	WU0050-13	NM	1/5/2004	1/9/2004	1/12/2004	4	3	7
TS	%	MPT-45-C4-2'	WU0050-28	NM	1/5/2004	1/9/2004	1/12/2004	4	3	7

SORT	UNITS	NSAMPLE	LAB_ID	QC_TYP	SAMP_DATE	EXTR_DATE	ANAL_DATE	SMP_EXTR	EXTR_ANL	SMP_ANL
TS	%	MPT-45-C4-2'	WU0050-12	NM	1/5/2004	1/9/2004	1/12/2004	4	3	7
TS	%	MPT-45-A4-2'	WU0050-20	NM	1/5/2004	1/9/2004	1/12/2004	4	3	7
TS	%	MPT-45-C3-2'	WU0050-11	NM	1/5/2004	1/9/2004	1/12/2004	4	3	7
TS	%	MPT-45-E4-5'	WU0050-32	NM	1/5/2004	1/9/2004	1/12/2004	4	3	7
TS	%	MPT-45-C2-2'	WU0050-10	NM	1/5/2004	1/9/2004	1/12/2004	4	3	7
TS	%	MPT-45-C1-2'	WU0050-9	NM	1/5/2004	1/9/2004	1/12/2004	4	3	7
TS	%	MPT-45-C1-2'	WU0050-25	NM	1/5/2004	1/9/2004	1/12/2004	4	3	7
TS	%	MPT-45-B4-2'	WU0050-8	NM	1/5/2004	1/9/2004	1/12/2004	4	3	7
TS	%	MPT-45-B4-2'	WU0050-24	NM	1/5/2004	1/9/2004	1/12/2004	4	3	7
TS	%	MPT-45-B3-2'	WU0050-7	NM	1/5/2004	1/9/2004	1/12/2004	4	3	7
TS	%	MPT-45-B3-2'	WU0050-23	NM	1/5/2004	1/9/2004	1/12/2004	4	3	7
TS	%	MPT-45-B2-2'	WU0050-6	NM	1/5/2004	1/9/2004	1/12/2004	4	3	7
TS	%	MPT-45-B2-2'	WU0050-22	NM	1/5/2004	1/9/2004	1/12/2004	4	3	7
TS	%	MPT-45-B1-2'	WU0050-5	NM	1/5/2004	1/9/2004	1/12/2004	4	3	7
TS	%	MPT-45-C3-2'	WU0050-27	NM	1/5/2004	1/9/2004	1/12/2004	4	3	7

SDG NARRATIVE
KATAHDIN ANALYTICAL SERVICES
TETRA TECH NUS
CASE NS MAYPORT
TASK ORDER MANAGER: TERRY HANSEN
WU0050

Sample Receipt

The following samples were received on January 9, 2004 and were logged in under Katahdin Analytical Services work order number WU0050 for a hardcopy due date of February 4, 2004.

KATAHDIN Sample No.	TTNUS Sample Identification
WU0050-1	MPT-45-A1-2'
WU0050-2	MPT-45-A2-2'
WU0050-3	MPT-45-A3-2'
WU0050-4	MPT-45-A4-2'
WU0050-5	MPT-45-B1-2'
WU0050-6	MPT-45-B2-2'
WU0050-7	MPT-45-B3-2'
WU0050-8	MPT-45-B4-2'
WU0050-9	MPT-45-C1-2'
WU0050-10	MPT-45-C2-2'
WU0050-11	MPT-45-C3-2'
WU0050-12	MPT-45-C4-2'
WU0050-13	MPT-45-D3-2'
WU0050-14	MPT-45-D4-2'
WU0050-15	MPT-45-E4-2'
WU0050-16	MPT-45-E4-5'
WU0050-17	MPT-45-A1-2'
WU0050-18	MPT-45-A2-2'
WU0050-19	MPT-45-A3-2'
WU0050-20	MPT-45-A4-2'
WU0050-21	MPT-45-B1-2'
WU0050-22	MPT-45-B2-2'
WU0050-23	MPT-45-B3-2'
WU0050-24	MPT-45-B4-2'
WU0050-25	MPT-45-C1-2'
WU0050-26	MPT-45-C2-2'
WU0050-27	MPT-45-C3-2'
WU0050-28	MPT-45-C4-2'
WU0050-29	MPT-45-D3-2'
WU0050-30	MPT-45-D4-2'
WU0050-31	MPT-45-E4-2'
WU0050-32	MPT-45-E4-5'

The samples were logged in for the analyses specified on the chain of custody form. All problems encountered and resolved during sample receipt have been documented on the applicable chain of custody forms.

Sample analyses have been performed by the methods as noted herein.

Should you have any questions or comments concerning this Report of Analysis, please do not hesitate to contact your Katahdin Analytical Services Project Manager, **Andrea J. Colby**. This narrative is an integral part of the Report of Analysis.

Organics Analysis

The samples of Work Order WU0050 were analyzed in accordance with "Test Methods for Evaluating Solid Wastes: Physical/Chemical Methods." SW-846. 2nd edition, 1982 (revised 1984), 3rd edition, 1986, and Updates I, II, IIA, and III 1996, Office of Solid Waste and Emergency Response, U.S. EPA and/or Method for Determination of Petroleum Range Organics (Method #FL-PRO), Florida Department of Environmental Protection, November 1, 1995 and/or "Methods for the Determination of Organic Compounds in Drinking Water", U.S. EPA, Environmental Monitoring and Support Laboratory - Cincinnati (September 1995) for the specific methods listed below or on the Report of Analysis. Some manual integrations may have been performed due to split peaks and/or corrected baselines. All have been flagged with a "M" (software-generated) on the pertinent quantitation report.

8270 Analysis

Some method blanks may have detected one or more target analytes above the MDL. Any of these analytes that were also detected in any of the associated samples were flagged with a "B" qualifier indicating that the analyte was detected in the method blank analyzed and/or extracted concurrently with the sample.

There were three initial calibrations performed for this SDG. The initial calibration analyzed on the U instrument on 01/12/04 had %RSD values for several analytes that exceeded the method acceptance limit of 15%. For these analytes, either a linear or quadratic model was used for quantitation instead of an average response factor. The target analytes 2,4-dinitrophenol, diethylphthalate, 4-nitroaniline and the surrogate 2,4,6-tribromophenol failed for both the linear and quadratic models in the initial calibration curve due to the correlation coefficient being less than the method acceptance criteria of 0.990. These compounds were calibrated using the average model. Since none of the associated samples detected these target analytes above the PQL, the samples were not reanalyzed.

Samples WU0050-8, 9, 10, 11, 13, 14, 15, and 16 had high responses for one or more internal standards, which were outside the method acceptance limit of -50% to 100% of the response of the internal standard of the daily calibration verification standard. The samples were reanalyzed with similar failures confirming a matrix effect. The results from both analyses are reported.

The CV (file U5895) had high responses for the calibration check compounds (CCCs) phenol, 4-chloro-3-methylphenol and di-n-octylphthalate, which resulted in %D's that were outside the

method acceptance limit of 20%. Since a high response would indicate a high bias and the associated samples did not detect these analytes above the PQL, the samples were not reanalyzed.

The CV (file U5907) had a high response for the CCC phenol and a low response for hexachlorobutadiene, which resulted in %D's that were outside the method acceptance limit of 20%. Since the associated samples did not detect these analytes above the PQL, the samples were not reanalyzed.

The CV (file X4122) had a low response for the CCC N-nitrosodiphenylamine, which resulted in a %D that was outside the method acceptance limit of 20%. Since a high response would indicate a high bias and the associated samples did not detect N-nitrosodiphenylamine above the MDL, the samples were not reanalyzed.

The CV's (files U5895 and X4122) had responses for the internal standard perylene-d12 which were low and resulted in %D's that were outside the method acceptance limits of -50% to +100% of the response of the mid-point standard level of the initial calibration. Since none of the associated samples detected any target analytes above the PQL that are quantitated against this internal standard, the samples were not reanalyzed.

8270 SIM Analysis

Some method blanks may have detected one or more target analytes above the MDL. Any of these analytes that were also detected in any of the associated samples were flagged with a "B" qualifier indicating that the analyte was detected in the method blank analyzed and/or extracted concurrently with the sample.

Samples WU0050-17, 18, 19, 20, and 21 had responses for one or more internal standards which were high and outside the method acceptance limit of -50% to 100% of the response of the internal standard of the daily calibration verification standard. The samples were reanalyzed with similar failures confirming a matrix effect. The results from both analyses are reported.

Samples WU0050-25, 26, 27, 28 and 29, which were analyzed at dilution, had responses for one or more internal standards which were high and outside the method acceptance limit of -50% to 100% of the response of the internal standard of the daily calibration verification standard. The results from both analyses are reported.

Samples WU0050-30, 31, and 32 had responses for one or more internal standards which were high and outside the method acceptance limit of -50% to 100% of the response of the internal standard of the daily calibration verification standard. These samples were not reanalyzed due to time constraints.

The initial calibration analyzed on the K instrument on 01/17/04 had a %RSD value for the analyte benzo(b)fluoranthene that exceeded the method acceptance limit of 15%. This analyte, benzo(b)fluoranthene, failed for both the linear and quadratic models in the initial calibration curve due to the correlation coefficient being less than the method acceptance criteria of 0.990. This compound was calibrated using the average model.

The laboratory control sample duplicate (WG5370-3RA) which was analyzed on the "K" instrument had responses for two internal standards, which were high and outside the method acceptance limit of -50% to 100% of the response of the internal standard of the daily continuing calibration standard.

The calibration verification check standard (CV) (file K6146) had responses for two internal standards which were low and outside the method acceptance limit of -50% to 100% of the response of the internal standard of the initial calibration standard.

FL-PRO Analysis

Some method blanks may have detected one or more target analytes above the MDL. Any of these analytes that were also detected in any of the associated samples were flagged with a "B" qualifier indicating that the analyte was detected in the method blank analyzed and/or extracted concurrently with the sample.

The calibration verification standards (file CTU2085B, CTU2093 and CTU2105) had low responses for one or more individual hydrocarbons, which resulted in a %D that was above the method acceptance limit of 25%. Since the method requirement applies to only the PRO range response, which was acceptable, the associated samples were not reanalyzed.

8081 Analysis

Sample WU0050-14 had low recoveries for the surrogate DCB on both channels, which were outside of the laboratory established acceptance limits. Since the recoveries for TCX were within the acceptance limits on both channels, the sample was not reanalyzed.

The closing CV standard (files 8UA3038 and 8UA4038) had low responses for alpha-BHC, heptachlor and delta-BHC on channel A and a low response for the surrogate DCB on channel B, which resulted in %D's that were outside of the method acceptance limits of 15%. Since the responses for all of the target analytes and surrogates were acceptable on one channel, the associated samples were not reanalyzed.

The opening CV standard (file 8UA3041) had a low response for alpha-BHC on channel A, which resulted in a %D that was outside of the method acceptance limits of 15%. Since all responses on the confirmation channel were within the acceptance limits, the associated samples were not reanalyzed.

The closing CV standard (file 8UA3054) had a low response for alpha-BHC on channel A, which resulted in a %D that was outside of the method acceptance limits of 15%. Since all responses on the confirmation channel were within the acceptance limits, the associated samples were not reanalyzed.

8082 Analysis

Sample WU0050-14 had low recoveries for the surrogate DCB on both channels, which were outside the laboratory established acceptance limits. Since the recoveries for TCX were within the acceptance limits on both channels, the sample was not reanalyzed.

The method blank, WG5361-1, laboratory control sample duplicate WG5361-3 and sample WU0050-11 had high recoveries for the surrogate TCX on the B channel. These recoveries were outside of the laboratory established acceptance limits. Since the recoveries for DCB were within the acceptance limits on both channels, the samples were not reanalyzed.

The middle CV standard (file 6UA2190) had high responses for Aroclor 1016 and TCX on channel B, which resulted in %D's that were outside of the method acceptance limits of 15%. Since the responses on the confirmation channel were within the acceptance limits, the associated samples were not reanalyzed.

The closing CV standard (file 6UA4002) had high responses for Aroclor 1016, Aroclor 1260, TCX and DCB on channel B, which resulted in %D's that were outside of the method acceptance limits of 15%. Since the responses on the confirmation channel were within the acceptance limits, the associated samples were not reanalyzed.

Some of the samples were reported for Aroclor 1260, which contained some peaks that were disproportional to those from the Aroclor 1260 standard. Since most of the peaks that are present in Aroclor 1260 standard are present in the samples, the samples were identified for this aroclor.

There were no other protocol deviations or observations noted by the organics laboratory staff.

Metals Analysis

The samples of Katahdin SDG WU0050 were prepared and analyzed for metals in accordance with the "Test Methods for Evaluating Solid Waste", SW-846, November 1986, Third Edition.

Inductively-Coupled Plasma Atomic Emission Spectroscopic Analysis (ICP)

Solid-matrix Katahdin Sample Nos. WU0050-(1-16) were digested for ICP analysis on 01/12/04 (QC Batch UA12ICS0) in accordance with USEPA Method 3050B. Katahdin Sample No. WU0050-1 was prepared with duplicate matrix-spiked aliquots.

ICP analyses of the Katahdin SDG WU0050 sample digestates were performed in accordance with USEPA Method 6010B, using a Thermo Jarrell Ash (TJA) Trace ICP spectrometer and a TJA ICAP 61E ICP spectrometer. All samples were analyzed within holding times and all QC criteria were met with the following comments or exceptions:

Some of the results for run QC samples (ICV, ICB, CCV, CCB, ICSA, and ICSAB) included in the accompanying data package may have exceeded acceptance limits for some elements. Please note that all client samples and batch QC samples associated with out-of-control results for run QC samples were subsequently reanalyzed for the analytes in question.

Analysis of Mercury by Cold Vapor Atomic Absorption (CVAA)

Solid-matrix Katahdin Sample Nos. WU0050-(1-16) were digested for mercury analysis on 01/13/04 (QC Batch UA13HGS0) in accordance with USEPA Method 7471A. Katahdin Sample No. WU0050-1 was prepared with duplicate matrix-spiked aliquots. The measured mercury recovery for the laboratory control sample that was prepared in this batch exceeded the laboratory's acceptance limits. For this reason, Katahdin Sample Nos. WU0050-(1-16) were redigested for mercury analysis on 01/16/04 (QC Batch UA16HGS0). Redigestates are identified throughout the raw data by the suffixes "R" or "X" appended to the Katahdin sample number, e.g. "WU0050-001R". These redigestates were successfully analyzed for mercury.

Mercury analyses of the Katahdin SDG WU0050 sample digestate were performed using a Leeman Labs PS200 automated mercury analyzer. All samples were analyzed within holding times and all run QC criteria were met.

Matrix QC Summary

One or both of the matrix-spiked aliquots of Katahdin Sample No. WU0050-1 exceeded the laboratory's acceptance criteria (75% - 125% recovery of the added element, if the native concentration is less than four times the amount added) for the following analytes: antimony, magnesium, mercury, silver, and zinc.

Low matrix spike recoveries for antimony in soil samples are common, and are attributed to loss of insoluble antimony compounds during filtration of the digestates. Matrix spike recovery failures for other elements are attributed to sample heterogeneity, and difficulty in obtaining representative replicate aliquots of the samples.

The matrix spike duplicate analysis of Katahdin Sample No. WU0050-1 exceeded the laboratory's acceptance limit (<20% relative difference between duplicate matrix spiked aliquots) for the following elements: calcium, copper, and mercury. These failures are attributed to sample heterogeneity, and difficulty in obtaining representative replicate aliquots of the sample.

The serial dilution analyses of Katahdin Sample No. WU0050-1 was within the laboratory's ICP serial dilution acceptance limit (<10% difference between the original sample result and the result for a 5-fold dilution of the sample, if the result for the dilution is at least ten times the instrument detection limit) for all analytes.

Wet Chemistry Analysis

The samples of Work Order WU0050 were analyzed in accordance with the specific methods listed on the Report of Analysis.

Analyses for cyanide were performed according to "Test Methods for Evaluating Solid Wastes: Physical/Chemical Methods." SW-846. 2nd edition, 1982 (revised 1984), 3rd edition, 1986, and Updates I, II, IIA, and III 1996, Office of Solid Waste and Emergency Response, U.S. EPA.

Analyses of Work Order WT3024 samples for total solids were performed according to U.S. EPA Contract Laboratory Program Statement of Work for Inorganic Analysis, 7/88.

All Wet Chemistry results were evaluated to Katahdin Analytical Services' Method Detection Limits (MDL). Measured concentrations that fall between the MDL and Katahdin's Practical Quantitation Limit (PQL) are flagged "J". Measured concentrations that are below the MDL are flagged "U" and reported as "U PQL", where "PQL" is the numerical value of the Practical Quantitation Limit.

All analyses were performed within analytical hold time, and all quality control criteria were met. No deviations were noted by the Wet Chemistry group.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package has been authorized by the Operations Manager or the Quality Assurance Officer as verified by the following signature.

Deborah J. Nadeau
2.4.04

Deborah Nadeau
Operations Manager

COVER PAGE - INORGANIC ANALYSES DATA PACKAGE

Lab Name: Katahdin Analytical Services

SDG Name: WU0050 **SOW No.** SW846

Client Field ID	Lab Sample ID
MPT-45-A1-2'	WU0050-001
MPT-45-A1-2'	WU0050-001P
MPT-45-A1-2'	WU0050-001S
MPT-45-A2-2'	WU0050-002
MPT-45-A3-2'	WU0050-003
MPT-45-A4-2'	WU0050-004
MPT-45-B1-2'	WU0050-005
MPT-45-B2-2'	WU0050-006
MPT-45-B3-2'	WU0050-007
MPT-45-B4-2'	WU0050-008
MPT-45-C1-2'	WU0050-009
MPT-45-C2-2'	WU0050-010
MPT-45-C3-2'	WU0050-011
MPT-45-C4-2'	WU0050-012
MPT-45-D3-2'	WU0050-013
MPT-45-D4-2'	WU0050-014
MPT-45-E4-2'	WU0050-015
MPT-45-E4-5'	WU0050-016

Were ICP interelement corrections applied ?	Yes
Were ICP background corrections applied ?	Yes
If yes - were raw data generated before application of background corrections ?	No

Comments:

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on floppy diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: Molly Fabbricant Name: Molly Fabbricant

Date: 1-22-04 Title: Chemist

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Katahdin Analytical Services **SDG Name:** WU0050

Concentration Units: ug/L

SAMPLE: ICV

File: AUA13B Jan 13, 2004 13:05

Analyte	True	Found	%R (1)
ALUMINUM	20000.0	18860.38	94.3
ANTIMONY	600.0	586.05	97.7
ARSENIC	600.0	585.27	97.5
CALCIUM	20000.0	20360.80	101.8
CHROMIUM	500.0	495.26	99.1
IRON	20000.0	19602.43	98.0
LEAD	550.0	534.22	97.1
MAGNESIUM	20000.0	20664.91	103.3
SELENIUM	550.0	521.26	94.8
THALLIUM	600.0	586.09	97.7

SAMPLE: CCV

File: AUA13B Jan 13, 2004 13:46

Analyte	True	Found	%R (1)
ALUMINUM	50000.0	48982.08	98.0
ANTIMONY	1000.0	1005.91	100.6
ARSENIC	1000.0	1006.04	100.6
CALCIUM	50000.0	51654.13	103.3
CHROMIUM	1000.0	1006.57	100.7
IRON	20000.0	20122.12	100.6
LEAD	1000.0	1015.74	101.6
MAGNESIUM	50000.0	51415.06	102.8
SELENIUM	1000.0	1005.43	100.5
THALLIUM	1000.0	1008.38	100.8

(1) Control Limits: Mercury 80-120; Other Metals 90-110

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Katahdin Analytical Services **SDG Name:** WU0050

Concentration Units: ug/L

SAMPLE: CCV

File: AUA13B Jan 13, 2004 15:06

Analyte	True	Found	%R (1)
ALUMINUM	50000.0	48387.25	96.8
ANTIMONY	1000.0	1002.40	100.2
ARSENIC	1000.0	1011.60	101.2
CALCIUM	50000.0	51766.33	103.5
CHROMIUM	1000.0	1003.45	100.3
IRON	20000.0	20086.77	100.4
LEAD	1000.0	1017.53	101.8
MAGNESIUM	50000.0	51173.97	102.3
SELENIUM	1000.0	1002.75	100.3
THALLIUM	1000.0	1003.76	100.4

SAMPLE: CCV

File: AUA13B Jan 13, 2004 16:26

Analyte	True	Found	%R (1)
ALUMINUM	50000.0	48268.12	96.5
ANTIMONY	1000.0	1008.19	100.8
ARSENIC	1000.0	1014.56	101.5
CALCIUM	50000.0	51994.64	104.0
CHROMIUM	1000.0	1001.99	100.2
IRON	20000.0	20090.99	100.5
LEAD	1000.0	1021.27	102.1
MAGNESIUM	50000.0	51095.36	102.2
SELENIUM	1000.0	1005.42	100.5
THALLIUM	1000.0	1013.18	101.3

(1) Control Limits: Mercury 80-120; Other Metals 90-110

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Katahdin Analytical Services **SDG Name:** WU0050

Concentration Units: ug/L

SAMPLE: CCV

File: AUA13B Jan 13, 2004 17:47

Analyte	True	Found	%R (1)
ALUMINUM	50000.0	48417.77	96.8
ANTIMONY	1000.0	1019.50	102.0
ARSENIC	1000.0	1038.38	103.8
CALCIUM	50000.0	52285.40	104.6
CHROMIUM	1000.0	1005.91	100.6
IRON	20000.0	20224.61	101.1
LEAD	1000.0	1028.67	102.9
MAGNESIUM	50000.0	51234.00	102.5
SELENIUM	1000.0	1017.85	101.8
THALLIUM	1000.0	1033.35	103.3

(1) Control Limits: Mercury 80-120; Other Metals 90-110

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Katahdin Analytical Services **SDG Name:** WU0050

Concentration Units: ug/L

SAMPLE: ICV

File: BUA13A Jan 13, 2004 9:50

Analyte	True	Found	%R (1)
ALUMINUM	20000.0	19580.82	97.9
BARIUM	500.0	490.29	98.1
BERYLLIUM	500.0	499.37	99.9
CADMIUM	1250.0	1190.07	95.2
CALCIUM	20000.0	19376.47	96.9
COBALT	500.0	505.24	101.0
COPPER	500.0	485.45	97.1
IRON	20000.0	20086.63	100.4
MAGNESIUM	20000.0	19794.89	99.0
MANGANESE	500.0	498.21	99.6
NICKEL	1000.0	1011.12	101.1
POTASSIUM	20000.0	18918.17	94.6
SILVER	200.0	193.13	96.6
SODIUM	20000.0	19616.91	98.1
VANADIUM	500.0	487.45	97.5
ZINC	1000.0	977.63	97.8

SAMPLE: CCV

File: BUA13A Jan 13, 2004 10:26

Analyte	True	Found	%R (1)
ALUMINUM	50000.0	48690.79	97.4
BARIUM	1000.0	981.32	98.1
BERYLLIUM	1000.0	1003.23	100.3
CADMIUM	1000.0	983.16	98.3
CALCIUM	50000.0	48693.37	97.4
COBALT	1000.0	1006.39	100.6
COPPER	1000.0	982.24	98.2
IRON	20000.0	20034.26	100.2
MAGNESIUM	50000.0	49005.77	98.0
MANGANESE	1000.0	991.57	99.2
NICKEL	1000.0	1003.56	100.4
POTASSIUM	50000.0	48540.15	97.1
SILVER	250.0	245.80	98.3
SODIUM	50000.0	49224.11	98.4
VANADIUM	1000.0	993.42	99.3
ZINC	1000.0	993.31	99.3

(1) Control Limits: Mercury 80-120; Other Metals 90-110

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Katahdin Analytical Services **SDG Name:** WU0050

Concentration Units: ug/L

SAMPLE: CCV

File: BUA13A Jan 13, 2004 11:34

Analyte	True	Found	%R (1)
ALUMINUM	50000.0	49768.29	99.5
BARIUM	1000.0	998.48	99.8
BERYLLIUM	1000.0	1023.80	102.4
CADMIUM	1000.0	1014.47	101.4
CALCIUM	50000.0	51035.23	102.1
COBALT	1000.0	1046.13	104.6
COPPER	1000.0	990.81	99.1
IRON	20000.0	20685.32	103.4
MAGNESIUM	50000.0	49987.67	100.0
MANGANESE	1000.0	1022.34	102.2
NICKEL	1000.0	1031.82	103.2
POTASSIUM	50000.0	49073.64	98.1
SILVER	250.0	252.72	101.1
SODIUM	50000.0	47920.41	95.8
VANADIUM	1000.0	1023.48	102.3
ZINC	1000.0	1021.86	102.2

SAMPLE: CCV

File: BUA13A Jan 13, 2004 12:42

Analyte	True	Found	%R (1)
ALUMINUM	50000.0	49141.03	98.3
BARIUM	1000.0	984.96	98.5
BERYLLIUM	1000.0	1012.03	101.2
CADMIUM	1000.0	1000.15	100.0
CALCIUM	50000.0	50737.85	101.5
COBALT	1000.0	1042.02	104.2
COPPER	1000.0	972.72	97.3
IRON	20000.0	20556.71	102.8
MAGNESIUM	50000.0	49383.89	98.8
MANGANESE	1000.0	1008.90	100.9
NICKEL	1000.0	1032.57	103.3
POTASSIUM	50000.0	48465.67	96.9
SILVER	250.0	249.35	99.7
SODIUM	50000.0	46516.52	93.0
VANADIUM	1000.0	1017.45	101.7
ZINC	1000.0	1012.00	101.2

(1) Control Limits: Mercury 80-120; Other Metals 90-110

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Katahdin Analytical Services **SDG Name:** WU0050

Concentration Units: ug/L

SAMPLE: CCV

File: BUA13A Jan 13, 2004 13:50

Analyte	True	Found	%R (1)
ALUMINUM	50000.0	48301.20	96.6
BARIUM	1000.0	970.47	97.0
BERYLLIUM	1000.0	1000.49	100.0
CADMIUM	1000.0	992.01	99.2
CALCIUM	50000.0	50485.80	101.0
COBALT	1000.0	1036.75	103.7
COPPER	1000.0	954.92	95.5
IRON	20000.0	20403.56	102.0
MAGNESIUM	50000.0	48633.06	97.3
MANGANESE	1000.0	1001.08	100.1
NICKEL	1000.0	1013.17	101.3
POTASSIUM	50000.0	47783.64	95.6
SILVER	250.0	244.67	97.9
SODIUM	50000.0	45402.32	90.8
VANADIUM	1000.0	1007.06	100.7
ZINC	1000.0	1006.52	100.7

SAMPLE: CCV

File: BUA13A Jan 13, 2004 14:58

Analyte	True	Found	%R (1)
ALUMINUM	50000.0	49431.11	98.9
BARIUM	1000.0	996.22	99.6
BERYLLIUM	1000.0	1027.54	102.8
CADMIUM	1000.0	1013.15	101.3
CALCIUM	50000.0	51010.00	102.0
COBALT	1000.0	1054.47	105.4
COPPER	1000.0	980.66	98.1
IRON	20000.0	20797.02	104.0
MAGNESIUM	50000.0	49666.67	99.3
MANGANESE	1000.0	1022.55	102.3
NICKEL	1000.0	1045.24	104.5
POTASSIUM	50000.0	48341.33	96.7
SILVER	250.0	253.19	101.3
SODIUM	50000.0	46806.66	93.6
VANADIUM	1000.0	1032.82	103.3
ZINC	1000.0	1023.91	102.4

(1) Control Limits: Mercury 80-120; Other Metals 90-110

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Katahdin Analytical Services **SDG Name:** WU0050

Concentration Units: ug/L

SAMPLE: CCV

File: BUA13A Jan 13, 2004 16:05

Analyte	True	Found	%R (1)
ALUMINUM	50000.0	50526.43	101.1
BARIUM	1000.0	1014.76	101.5
BERYLLIUM	1000.0	1051.04	105.1
CADMIUM	1000.0	1040.46	104.0
CALCIUM	50000.0	52551.78	105.1
COBALT	1000.0	1073.85	107.4
COPPER	1000.0	1000.18	100.0
IRON	20000.0	21215.50	106.1
MAGNESIUM	50000.0	50741.20	101.5
MANGANESE	1000.0	1051.65	105.2
NICKEL	1000.0	1066.67	106.7
POTASSIUM	50000.0	49119.91	98.2
SILVER	250.0	257.72	103.1
SODIUM	50000.0	48398.03	96.8
VANADIUM	1000.0	1054.37	105.4
ZINC	1000.0	1049.84	105.0

SAMPLE: CCV

File: BUA13A Jan 13, 2004 17:13

Analyte	True	Found	%R (1)
ALUMINUM	50000.0	49490.26	99.0
BARIUM	1000.0	991.55	99.2
BERYLLIUM	1000.0	1027.72	102.8
CADMIUM	1000.0	1025.48	102.5
CALCIUM	50000.0	51340.95	102.7
COBALT	1000.0	1042.10	104.2
COPPER	1000.0	979.05	97.9
IRON	20000.0	20661.23	103.3
MAGNESIUM	50000.0	49641.87	99.3
MANGANESE	1000.0	1034.83	103.5
NICKEL	1000.0	1050.42	105.0
POTASSIUM	50000.0	47451.49	94.9
SILVER	250.0	254.44	101.8
SODIUM	50000.0	48255.72	96.5
VANADIUM	1000.0	1031.15	103.1
ZINC	1000.0	1027.69	102.8

(1) Control Limits: Mercury 80-120; Other Metals 90-110

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Katahdin Analytical Services **SDG Name:** WU0050

Concentration Units: ug/L

SAMPLE: CCV

File: BUA13A Jan 13, 2004 17:47

Analyte	True	Found	%R (1)
ALUMINUM	50000.0	49664.32	99.3
BARIUM	1000.0	996.48	99.6
BERYLLIUM	1000.0	1036.58	103.7
CADMIUM	1000.0	1038.10	103.8
CALCIUM	50000.0	52063.42	104.1
COBALT	1000.0	1048.36	104.8
COPPER	1000.0	980.96	98.1
IRON	20000.0	20862.79	104.3
MAGNESIUM	50000.0	49997.29	100.0
MANGANESE	1000.0	1045.74	104.6
NICKEL	1000.0	1055.83	105.6
POTASSIUM	50000.0	47554.53	95.1
SILVER	250.0	256.07	102.4
SODIUM	50000.0	48527.08	97.1
VANADIUM	1000.0	1041.46	104.1
ZINC	1000.0	1037.28	103.7

(1) Control Limits: Mercury 80-120; Other Metals 90-110

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Katahdin Analytical Services **SDG Name:** WU0050

Concentration Units: ug/L

SAMPLE: ICV

File: BUA14A Jan 14, 2004 9:43

Analyte	True	Found	%R (1)
ALUMINUM	20000.0	19366.34	96.8
CALCIUM	20000.0	19241.70	96.2
COPPER	500.0	480.52	96.1
IRON	20000.0	19890.56	99.5
MAGNESIUM	20000.0	19515.21	97.6

SAMPLE: CCV

File: BUA14A Jan 14, 2004 10:17

Analyte	True	Found	%R (1)
ALUMINUM	50000.0	49025.12	98.1
CALCIUM	50000.0	48365.60	96.7
COPPER	1000.0	995.55	99.6
IRON	20000.0	20008.33	100.0
MAGNESIUM	50000.0	49350.46	98.7

(1) Control Limits: Mercury 80-120; Other Metals 90-110

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Katahdin Analytical Services **SDG Name:** WU0050

Concentration Units: ug/L

SAMPLE: CCV

File: BUA14A Jan 14, 2004 11:25

Analyte	True	Found	%R (1)
ALUMINUM	50000.0	49516.09	99.0
CALCIUM	50000.0	48791.36	97.6
COPPER	1000.0	1002.57	100.3
IRON	20000.0	20172.08	100.9
MAGNESIUM	50000.0	49731.66	99.5

SAMPLE: CCV

File: BUA14A Jan 14, 2004 12:33

Analyte	True	Found	%R (1)
ALUMINUM	50000.0	49096.75	98.2
CALCIUM	50000.0	48608.68	97.2
COPPER	1000.0	990.95	99.1
IRON	20000.0	20076.42	100.4
MAGNESIUM	50000.0	49419.61	98.8

(1) Control Limits: Mercury 80-120; Other Metals 90-110

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Katahdin Analytical Services **SDG Name:** WU0050

Concentration Units: ug/L

SAMPLE: CCV

File: BUA14A Jan 14, 2004 13:40

Analyte	True	Found	%R (1)
ALUMINUM	50000.0	48665.45	97.3
CALCIUM	50000.0	47977.18	96.0
COPPER	1000.0	986.45	98.6
IRON	20000.0	19868.01	99.3
MAGNESIUM	50000.0	48897.52	97.8

(1) Control Limits: Mercury 80-120; Other Metals 90-110

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Katahdin Analytical Services **SDG Name:** WU0050

Concentration Units: ug/L

SAMPLE: ICV

File: DUA19B Jan 19, 2004 11:32

Analyte	True	Found	%R (1)
MERCURY	6.0	5.66	94.3

SAMPLE: CCV

File: DUA19B Jan 19, 2004 12:16

Analyte	True	Found	%R (1)
MERCURY	5.0	4.48	89.6

(1) Control Limits: Mercury 80-120; Other Metals 90-110

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Katahdin Analytical Services **SDG Name:** WU0050

Concentration Units: ug/L

SAMPLE: CCV

File: DUA19B Jan 19, 2004 13:02

Analyte	True	Found	%R (1)
MERCURY	5.0	4.99	99.8

SAMPLE: CCV

File: DUA19B Jan 19, 2004 13:13

Analyte	True	Found	%R (1)
MERCURY	5.0	4.95	99.0

(1) Control Limits: Mercury 80-120; Other Metals 90-110

2B

CRDL STANDARD FOR AA AND ICP

Lab Name: Katahdin Analytical Services **SDG Name:** WU0050

Concentration Units: ug/L

SAMPLE: CRI

File: AUA13B Jan 13, 2004 13:26

Analyte	TRUE	FOUND	% R
ANTIMONY	120.0	125.91	104.9
ARSENIC	20.0	18.98	94.9
CHROMIUM	20.0	21.52	107.6
LEAD	6.0	6.30	105.0
SELENIUM	10.0	8.45	84.5
THALLIUM	20.0	21.46	107.3

SAMPLE: CRI

File: AUA13B Jan 13, 2004 17:27

Analyte	TRUE	FOUND	% R
ANTIMONY	120.0	127.18	106.0
ARSENIC	20.0	23.77	118.8
CHROMIUM	20.0	21.30	106.5
LEAD	6.0	6.54	109.0
SELENIUM	10.0	8.23	82.3
THALLIUM	20.0	21.57	107.8

2B

CRDL STANDARD FOR AA AND ICP

Lab Name: Katahdin Analytical Services **SDG Name:** WU0050

Concentration Units: ug/L

SAMPLE: CRI

File: BUA13A Jan 13, 2004 10:07

Analyte	TRUE	FOUND	% R
BERYLLIUM	10.0	10.26	102.6
CADMIUM	10.0	9.14	91.4
COBALT	100.0	105.45	105.5
COPPER	50.0	49.74	99.5
MANGANESE	30.0	31.16	103.9
NICKEL	80.0	91.30	114.1
SILVER	20.0	16.94	84.7
VANADIUM	100.0	100.10	100.1
ZINC	40.0	39.41	98.5

SAMPLE: CRI

File: BUA13A Jan 13, 2004 13:33

Analyte	TRUE	FOUND	% R
BERYLLIUM	10.0	10.74	107.4
CADMIUM	10.0	9.37	93.7
COBALT	100.0	113.00	113.0
COPPER	50.0	51.32	102.6
MANGANESE	30.0	32.34	107.8
NICKEL	80.0	82.76	103.5
SILVER	20.0	16.69	83.5
VANADIUM	100.0	104.81	104.8
ZINC	40.0	42.23	105.6

2B

CRDL STANDARD FOR AA AND ICP

Lab Name: Katahdin Analytical Services **SDG Name:** WU0050

Concentration Units: ug/L

SAMPLE: CRI

File: BUA13A Jan 13, 2004 17:30

Analyte	TRUE	FOUND	% R
BERYLLIUM	10.0	10.44	104.4
CADMIUM	10.0	11.18	111.8
COBALT	100.0	111.88	111.9
COPPER	50.0	51.13	102.3
MANGANESE	30.0	32.87	109.6
NICKEL	80.0	79.33	99.2
SILVER	20.0	19.08	95.4
VANADIUM	100.0	105.91	105.9
ZINC	40.0	41.78	104.5

2B

CRDL STANDARD FOR AA AND ICP

Lab Name: Katahdin Analytical Services **SDG Name:** WU0050

Concentration Units: ug/L

SAMPLE: CRI

File: BUA14A Jan 14, 2004 10:00

Analyte	TRUE	FOUND	% R
COPPER	50.0	53.98	108.0

SAMPLE: CRI

File: BUA14A Jan 14, 2004 13:23

Analyte	TRUE	FOUND	% R
COPPER	50.0	55.05	110.1

2B

CRDL STANDARD FOR AA AND ICP

Lab Name: Katahdin Analytical Services **SDG Name:** WU0050

Concentration Units: ug/L

SAMPLE: CRA

File: DUA19B Jan 19, 2004 11:39

Analyte	TRUE	FOUND	% R
MERCURY	0.2	0.21	105.0

2C

PQL STANDARD FOR AA AND ICP

Lab Name: Katahdin Analytical Services **SDG Name:** WU0050

SAMPLE: PQL

File: AUA13B Jan 13, 2004 13:19 Concentration Units: ug/L

Analyte	TRUE	FOUND	% R
ALUMINUM	300.0	254.27	84.8
ANTIMONY	8.0	8.24	103.0
ARSENIC	8.0	8.01	100.1
CALCIUM	50.0	47.39	94.8
CHROMIUM	15.0	14.33	95.5
IRON	100.0	96.40	96.4
LEAD	5.0	4.55	91.0
MAGNESIUM	50.0	63.60	127.2
SELENIUM	10.0	10.00	100.0
THALLIUM	15.0	15.13	100.9

2C

PQL STANDARD FOR AA AND ICP

Lab Name: Katahdin Analytical Services **SDG Name:** WU0050

SAMPLE: PQL

File: BUA13A Jan 13, 2004 10:02 Concentration Units: ug/L

Analyte	TRUE	FOUND	% R
ALUMINUM	300.0	306.84	102.3
BARIUM	5.0	4.82	96.4
BERYLLIUM	5.0	5.49	109.8
CADMIUM	10.0	7.84	78.4
CALCIUM	50.0	36.02	72.0
COBALT	30.0	30.55	101.8
COPPER	25.0	24.51	98.0
IRON	100.0	101.62	101.6
MAGNESIUM	50.0	44.81	89.6
MANGANESE	5.0	4.64	92.8
NICKEL	40.0	38.37	95.9
POTASSIUM	1000.0	1028.49	102.8
SILVER	15.0	13.64	90.9
SODIUM	1000.0	997.39	99.7
VANADIUM	25.0	21.00	84.0
ZINC	25.0	24.50	98.0

2C

PQL STANDARD FOR AA AND ICP

Lab Name: Katahdin Analytical Services **SDG Name:** WU0050

SAMPLE: PQL

File: BUA14A Jan 14, 2004 09:55 Concentration Units: ug/L

Analyte	TRUE	FOUND	% R
ALUMINUM	300.0	299.65	99.9
CALCIUM	50.0	55.10	110.2
COPPER	25.0	25.67	102.7
IRON	100.0	100.80	100.8
MAGNESIUM	50.0	72.13	144.3

INITIAL AND CONTINUING CALIBRATION BLANKS

Lab Name: Katahdin Analytical Services **SDG Name:** WU0050

Concentration Units: ug/L

SAMPLE: ICB

File: AUA13B Jan 13, 2004 13:12

Analyte	Result	C
ALUMINUM	29.20	U
ANTIMONY	1.74	U
ARSENIC	2.13	U
CALCIUM	12.40	U
CHROMIUM	0.88	U
IRON	13.90	U
LEAD	1.56	U
MAGNESIUM	5.65	U
SELENIUM	2.32	U
THALLIUM	2.77	U

SAMPLE: CCB

File: AUA13B Jan 13, 2004 13:52

Analyte	Result	C
ALUMINUM	29.20	U
ANTIMONY	1.74	U
ARSENIC	2.13	U
CALCIUM	13.82	B
CHROMIUM	0.88	U
IRON	13.90	U
LEAD	1.56	U
MAGNESIUM	18.35	B
SELENIUM	2.32	U
THALLIUM	2.77	U

SAMPLE: CCB

File: AUA13B Jan 13, 2004 15:13

Analyte	Result	C
ALUMINUM	35.50	B
ANTIMONY	1.74	U
ARSENIC	2.13	U
CALCIUM	12.40	U
CHROMIUM	0.88	U
IRON	13.90	U
LEAD	1.56	U
MAGNESIUM	19.10	B
SELENIUM	2.32	U
THALLIUM	2.77	U

INITIAL AND CONTINUING CALIBRATION BLANKS

Lab Name: Katahdin Analytical Services **SDG Name:** WU0050

Concentration Units: ug/L

SAMPLE: CCB

File: AUA13B Jan 13, 2004 16:33

Analyte	Result	C
ALUMINUM	31.34	B
ANTIMONY	1.74	U
ARSENIC	2.13	U
CALCIUM	13.68	B
CHROMIUM	0.88	U
IRON	13.90	U
LEAD	1.56	U
MAGNESIUM	25.18	B
SELENIUM	2.32	U
THALLIUM	2.77	U

SAMPLE: CCB

File: AUA13B Jan 13, 2004 17:53

Analyte	Result	C
ALUMINUM	33.80	B
ANTIMONY	1.74	U
ARSENIC	2.13	U
CALCIUM	12.40	U
CHROMIUM	0.88	U
IRON	13.90	U
LEAD	1.56	U
MAGNESIUM	5.65	U
SELENIUM	2.32	U
THALLIUM	2.77	U

3A

INITIAL AND CONTINUING CALIBRATION BLANKS

Lab Name: Katahdin Analytical Services **SDG Name:** WU0050

Concentration Units: ug/L

SAMPLE: ICB

File: BUA13A Jan 13, 2004 9:56

Analyte	Result	C
ALUMINUM	15.70	U
BARIUM	0.54	U
BERYLLIUM	0.28	U
CADMIUM	2.66	U
CALCIUM	-20.17	B
COBALT	2.96	U
COPPER	3.30	U
IRON	4.80	U
MAGNESIUM	31.20	U
MANGANESE	0.90	U
NICKEL	12.10	U
POTASSIUM	479.00	U
SILVER	3.60	U
SODIUM	24.80	U
VANADIUM	3.60	U
ZINC	2.00	U

SAMPLE: CCB

File: BUA13A Jan 13, 2004 10:32

Analyte	Result	C
ALUMINUM	16.92	B
BARIUM	0.54	U
BERYLLIUM	0.35	B
CADMIUM	2.66	U
CALCIUM	15.50	U
COBALT	2.96	U
COPPER	3.30	U
IRON	8.88	B
MAGNESIUM	31.20	U
MANGANESE	0.90	U
NICKEL	12.10	U
POTASSIUM	479.00	U
SILVER	3.60	U
SODIUM	24.80	U
VANADIUM	3.60	U
ZINC	2.00	U

SAMPLE: CCB

File: BUA13A Jan 13, 2004 11:40

Analyte	Result	C
ALUMINUM	41.29	B
BARIUM	0.54	U
BERYLLIUM	0.33	B
CADMIUM	2.66	U
CALCIUM	22.02	B
COBALT	2.96	U
COPPER	3.30	U
IRON	17.78	B
MAGNESIUM	31.20	U
MANGANESE	0.90	U
NICKEL	12.10	U
POTASSIUM	479.00	U
SILVER	-4.53	B
SODIUM	24.80	U
VANADIUM	3.60	U
ZINC	2.00	U

3A

INITIAL AND CONTINUING CALIBRATION BLANKS

Lab Name: Katahdin Analytical Services **SDG Name:** WU0050

Concentration Units: ug/L

SAMPLE: CCB

File: BUA13A Jan 13, 2004 12:48

Analyte	Result	C
ALUMINUM	40.84	B
BARIUM	0.54	U
BERYLLIUM	0.34	B
CADMIUM	2.66	U
CALCIUM	38.78	B
COBALT	2.96	U
COPPER	3.30	U
IRON	19.97	B
MAGNESIUM	44.37	B
MANGANESE	0.90	U
NICKEL	12.10	U
POTASSIUM	479.00	U
SILVER	3.60	U
SODIUM	24.80	U
VANADIUM	3.60	U
ZINC	2.00	U

SAMPLE: CCB

File: BUA13A Jan 13, 2004 13:56

Analyte	Result	C
ALUMINUM	50.41	B
BARIUM	0.54	U
BERYLLIUM	0.51	B
CADMIUM	2.66	U
CALCIUM	43.93	B
COBALT	2.96	U
COPPER	3.30	U
IRON	20.20	B
MAGNESIUM	45.90	B
MANGANESE	0.90	U
NICKEL	12.10	U
POTASSIUM	479.00	U
SILVER	3.60	U
SODIUM	24.80	U
VANADIUM	3.60	U
ZINC	2.00	U

SAMPLE: CCB

File: BUA13A Jan 13, 2004 15:03

Analyte	Result	C
ALUMINUM	15.70	U
BARIUM	0.54	U
BERYLLIUM	0.28	U
CADMIUM	2.66	U
CALCIUM	15.50	U
COBALT	2.96	U
COPPER	3.30	U
IRON	4.80	U
MAGNESIUM	31.20	U
MANGANESE	0.90	U
NICKEL	12.10	U
POTASSIUM	479.00	U
SILVER	3.60	U
SODIUM	24.80	U
VANADIUM	3.60	U
ZINC	2.00	U

INITIAL AND CONTINUING CALIBRATION BLANKS

Lab Name: Katahdin Analytical Services **SDG Name:** WU0050

Concentration Units: ug/L

SAMPLE: CCB
File: BUA13A Jan 13, 2004 16:11

Analyte	Result	C
ALUMINUM	15.70	U
BARIUM	0.54	U
BERYLLIUM	0.28	U
CADMIUM	2.66	U
CALCIUM	15.50	U
COBALT	2.96	U
COPPER	3.30	U
IRON	7.48	B
MAGNESIUM	31.20	U
MANGANESE	0.90	U
NICKEL	12.10	U
POTASSIUM	479.00	U
SILVER	3.60	U
SODIUM	24.80	U
VANADIUM	3.60	U
ZINC	2.00	U

SAMPLE: CCB
File: BUA13A Jan 13, 2004 17:19

Analyte	Result	C
ALUMINUM	15.70	U
BARIUM	0.54	U
BERYLLIUM	0.28	U
CADMIUM	2.66	U
CALCIUM	15.50	U
COBALT	2.96	U
COPPER	3.30	U
IRON	7.53	B
MAGNESIUM	31.20	U
MANGANESE	0.90	U
NICKEL	12.10	U
POTASSIUM	479.00	U
SILVER	3.60	U
SODIUM	24.80	U
VANADIUM	3.60	U
ZINC	2.00	U

SAMPLE: CCB
File: BUA13A Jan 13, 2004 17:53

Analyte	Result	C
ALUMINUM	15.70	U
BARIUM	0.54	U
BERYLLIUM	0.28	U
CADMIUM	2.66	U
CALCIUM	15.50	U
COBALT	2.96	U
COPPER	3.30	U
IRON	10.69	B
MAGNESIUM	31.20	U
MANGANESE	0.90	U
NICKEL	12.10	U
POTASSIUM	479.00	U
SILVER	3.60	U
SODIUM	24.80	U
VANADIUM	3.60	U
ZINC	2.00	U

3A

INITIAL AND CONTINUING CALIBRATION BLANKS

Lab Name: Katahdin Analytical Services **SDG Name:** WU0050

Concentration Units: ug/L

SAMPLE: ICB

File: BUA14A Jan 14, 2004 9:49

Analyte	Result	C
ALUMINUM	15.70	U
CALCIUM	15.50	U
COPPER	3.30	U
IRON	4.80	U
MAGNESIUM	31.20	U

SAMPLE: CCB

File: BUA14A Jan 14, 2004 10:23

Analyte	Result	C
ALUMINUM	15.70	U
CALCIUM	15.50	U
COPPER	3.30	U
IRON	4.80	U
MAGNESIUM	31.20	U

SAMPLE: CCB

File: BUA14A Jan 14, 2004 11:30

Analyte	Result	C
ALUMINUM	38.04	B
CALCIUM	36.30	B
COPPER	3.30	U
IRON	11.24	B
MAGNESIUM	31.20	U

INITIAL AND CONTINUING CALIBRATION BLANKS

Lab Name: Katahdin Analytical Services **SDG Name:** WU0050

Concentration Units: ug/L

SAMPLE: CCB

File: BUA14A Jan 14, 2004 12:38

Analyte	Result	C
ALUMINUM	42.94	B
CALCIUM	26.77	B
COPPER	3.30	U
IRON	11.50	B
MAGNESIUM	45.03	B

SAMPLE: CCB

File: BUA14A Jan 14, 2004 13:46

Analyte	Result	C
ALUMINUM	31.06	B
CALCIUM	24.72	B
COPPER	3.30	U
IRON	14.57	B
MAGNESIUM	45.60	B

3A

INITIAL AND CONTINUING CALIBRATION BLANKS

Lab Name: Katahdin Analytical Services **SDG Name:** WU0050

Concentration Units: ug/L

SAMPLE: ICB

File: DUA19B Jan 19, 2004 11:36

Analyte	Result	C
MERCURY	0.04	U

SAMPLE: CCB

File: DUA19B Jan 19, 2004 12:20

Analyte	Result	C
MERCURY	-0.09	B

SAMPLE: CCB

File: DUA19B Jan 19, 2004 13:06

Analyte	Result	C
MERCURY	-0.05	B

INITIAL AND CONTINUING CALIBRATION BLANKS

Lab Name: Katahdin Analytical Services **SDG Name:** WU0050

Concentration Units: ug/L

SAMPLE: CCB

File: DUA19B Jan 19, 2004 13:17

Analyte	Result	C
MERCURY	0.04	U

3P

PREPARATION BLANKS

Lab Name: Katahdin Analytical Services **Sample ID:** PBSUA12ICS0

Matrix: SOIL **SDG Name:** WU0050

QC Batch ID: UA12ICS0

Concentration Units : mg/Kg

Analyte	RESULT	C
ALUMINUM	1.570	U
ANTIMONY	0.170	U
ARSENIC	0.210	U
BARIUM	0.050	U
BERYLLIUM	0.030	U
CADMIUM	0.270	U
CALCIUM	1.550	U
CHROMIUM	0.114	B
COBALT	0.300	U
COPPER	-0.500	B
IRON	0.576	B
LEAD	-0.170	B
MAGNESIUM	3.120	U
MANGANESE	0.090	U
NICKEL	1.210	U
POTASSIUM	47.900	U
SELENIUM	0.230	U
SILVER	0.360	U
SODIUM	3.891	B
THALLIUM	0.673	B
VANADIUM	0.360	U
ZINC	0.200	U

3P

PREPARATION BLANKS

Lab Name: Katahdin Analytical Services **Sample ID:** PBSUA16HGS0

Matrix: SOIL **SDG Name:** WU0050

QC Batch ID: UA16HGS0

Concentration Units : mg/Kg

Analyte	RESULT	C
MERCURY	0.010	U

ICP INTERFERENCE CHECK SAMPLE

Lab Name: Katahdin Analytical Services **SDG Name:** WU0050

Concentration Units: ug/L

SAMPLE: ICSA

File: AUA13B Jan 13, 2004 13:32

Analyte	TRUE	FOUND	% R
ALUMINUM	500000	485999	97.2
ANTIMONY	0	-5	
ARSENIC	0	4	
CALCIUM	500000	495316	99.1
CHROMIUM	0	1	
IRON	200000	193194	96.6
LEAD	5	1	
MAGNESIUM	500000	493002	98.6
SELENIUM	0	-2	
THALLIUM	0	7	

SAMPLE: ICSAB

File: AUA13B Jan 13, 2004 13:39

Analyte	TRUE	FOUND	% R
ALUMINUM	500000	501293	100.3
ANTIMONY	600	619	103.2
ARSENIC	100	106	106.0
CALCIUM	500000	509229	101.8
CHROMIUM	500	502	100.4
IRON	200000	198593	99.3
LEAD	55	49	89.1
MAGNESIUM	500000	505869	101.2
SELENIUM	50	48	96.0
THALLIUM	100	107	107.0

ICP INTERFERENCE CHECK SAMPLE

Lab Name: Katahdin Analytical Services **SDG Name:** WU0050

Concentration Units: ug/L

SAMPLE: ICSA

File: AUA13B Jan 13, 2004 17:33

Analyte	TRUE	FOUND	% R
ALUMINUM	500000	484420	96.9
ANTIMONY	0	-3	
ARSENIC	0	3	
CALCIUM	500000	506915	101.4
CHROMIUM	0	0	
IRON	200000	196224	98.1
LEAD	5	-2	
MAGNESIUM	500000	496079	99.2
SELENIUM	0	-6	
THALLIUM	0	6	

SAMPLE: ICSAB

File: AUA13B Jan 13, 2004 17:40

Analyte	TRUE	FOUND	% R
ALUMINUM	500000	495290	99.1
ANTIMONY	600	630	105.0
ARSENIC	100	110	110.0
CALCIUM	500000	515844	103.2
CHROMIUM	500	502	100.4
IRON	200000	199710	99.9
LEAD	55	50	90.9
MAGNESIUM	500000	503937	100.8
SELENIUM	50	51	102.0
THALLIUM	100	108	108.0

ICP INTERFERENCE CHECK SAMPLE

Lab Name: Katahdin Analytical Services **SDG Name:** WU0050

Concentration Units: ug/L

SAMPLE: ICSA

File: BUA13A Jan 13, 2004 10:13

Analyte	TRUE	FOUND	% R
ALUMINUM	500000	518513	103.7
BARIUM	0	0	
BERYLLIUM	0	1	
CADMIUM	0	1	
CALCIUM	500000	501825	100.4
COBALT	0	0	
COPPER	0	0	
IRON	200000	191788	95.9
MAGNESIUM	500000	517039	103.4
MANGANESE	5	7	
NICKEL	0	-2	
POTASSIUM	0	-33	
SILVER	0	-5	
SODIUM	0	38	
VANADIUM	0	-1	
ZINC	9	6	

SAMPLE: ICSAB

File: BUA13A Jan 13, 2004 10:21

Analyte	TRUE	FOUND	% R
ALUMINUM	500000	518590	103.7
BARIUM	500	503	100.6
BERYLLIUM	500	496	99.2
CADMIUM	1000	1032	103.2
CALCIUM	500000	506224	101.2
COBALT	500	491	98.2
COPPER	500	519	103.8
IRON	200000	192514	96.3
MAGNESIUM	500000	515800	103.2
MANGANESE	505	502	99.4
NICKEL	1000	965	96.5
POTASSIUM	20000	20976	104.9
SILVER	200	202	101.0
SODIUM	20000	20667	103.3
VANADIUM	500	482	96.4
ZINC	1010	1016	100.6

ICP INTERFERENCE CHECK SAMPLE

Lab Name: Katahdin Analytical Services **SDG Name:** WU0050

Concentration Units: ug/L

SAMPLE: ICSA

File: BUA13A Jan 13, 2004 13:39

Analyte	TRUE	FOUND	% R
ALUMINUM	500000	515146	103.0
BARIUM	0	0	
BERYLLIUM	0	1	
CADMIUM	0	-5	
CALCIUM	500000	517281	103.5
COBALT	0	-3	
COPPER	0	1	
IRON	200000	195817	97.9
MAGNESIUM	500000	515459	103.1
MANGANESE	5	9	
NICKEL	0	-20	
POTASSIUM	0	-267	
SILVER	0	-5	
SODIUM	0	37	
VANADIUM	0	-1	
ZINC	9	4	

SAMPLE: ICSAB

File: BUA13A Jan 13, 2004 13:44

Analyte	TRUE	FOUND	% R
ALUMINUM	500000	509913	102.0
BARIUM	500	493	98.6
BERYLLIUM	500	494	98.8
CADMIUM	1000	1030	103.0
CALCIUM	500000	520174	104.0
COBALT	500	505	101.0
COPPER	500	497	99.4
IRON	200000	194948	97.5
MAGNESIUM	500000	510274	102.1
MANGANESE	505	506	100.2
NICKEL	1000	979	97.9
POTASSIUM	20000	20289	101.4
SILVER	200	200	100.0
SODIUM	20000	18990	95.0
VANADIUM	500	487	97.4
ZINC	1010	1023	101.3

ICP INTERFERENCE CHECK SAMPLE

Lab Name: Katahdin Analytical Services **SDG Name:** WU0050

Concentration Units: ug/L

SAMPLE: ICSA

File: BUA13A Jan 13, 2004 17:36

Analyte	TRUE	FOUND	% R
ALUMINUM	500000	522667	104.5
BARIUM	0	1	
BERYLLIUM	0	0	
CADMIUM	0	-2	
CALCIUM	500000	525573	105.1
COBALT	0	-2	
COPPER	0	-1	
IRON	200000	197171	98.6
MAGNESIUM	500000	522618	104.5
MANGANESE	5	7	
NICKEL	0	-13	
POTASSIUM	0	-352	
SILVER	0	-6	
SODIUM	0	34	
VANADIUM	0	-1	
ZINC	9	4	

SAMPLE: ICSAB

File: BUA13A Jan 13, 2004 17:41

Analyte	TRUE	FOUND	% R
ALUMINUM	500000	525615	105.1
BARIUM	500	507	101.4
BERYLLIUM	500	513	102.6
CADMIUM	1000	1062	106.2
CALCIUM	500000	532013	106.4
COBALT	500	509	101.8
COPPER	500	516	103.2
IRON	200000	198926	99.5
MAGNESIUM	500000	526157	105.2
MANGANESE	505	523	103.6
NICKEL	1000	1000	100.0
POTASSIUM	20000	20692	103.5
SILVER	200	205	102.5
SODIUM	20000	20464	102.3
VANADIUM	500	502	100.4
ZINC	1010	1051	104.1

ICP INTERFERENCE CHECK SAMPLE

Lab Name: Katahdin Analytical Services **SDG Name:** WU0050

Concentration Units: ug/L

SAMPLE: ICSA

File: BUA14A Jan 14, 2004 10:06

Analyte	TRUE	FOUND	% R
ALUMINUM	500000	524064	104.8
CALCIUM	500000	503228	100.6
COPPER	0	3	
IRON	200000	193538	96.8
MAGNESIUM	500000	524011	104.8

SAMPLE: ICSAB

File: BUA14A Jan 14, 2004 10:12

Analyte	TRUE	FOUND	% R
ALUMINUM	500000	517054	103.4
CALCIUM	500000	499423	99.9
COPPER	500	521	104.2
IRON	200000	191602	95.8
MAGNESIUM	500000	516850	103.4

ICP INTERFERENCE CHECK SAMPLE

Lab Name: Katahdin Analytical Services **SDG Name:** WU0050

Concentration Units: ug/L

SAMPLE: ICSA

File: BUA14A Jan 14, 2004 13:29

Analyte	TRUE	FOUND	% R
ALUMINUM	500000	523813	104.8
CALCIUM	500000	505534	101.1
COPPER	0	3	
IRON	200000	193962	97.0
MAGNESIUM	500000	522326	104.5

SAMPLE: ICSAB

File: BUA14A Jan 14, 2004 13:35

Analyte	TRUE	FOUND	% R
ALUMINUM	500000	525803	105.2
CALCIUM	500000	505712	101.1
COPPER	500	531	106.2
IRON	200000	194428	97.2
MAGNESIUM	500000	523589	104.7

5A

SPIKE SAMPLE RECOVERY

Lab Name: Katahdin Analytical Services | **Client Field ID:** MPT-45-A1-2'S

Matrix: SOIL | **SDG Name:** WU0050

Percent Solids: 91.2 | **Lab Sample ID:** WU0050-001S

Concentration Units : mg/Kg

Analyte	Spiked Sample Result	C	Sample Result	C	Spike Added	%R	Q	Control Limits (%R) Low	High	M
ALUMINUM, TOTAL	5247.9733		2099.0227		171.32	1838.1		75	125	P
ANTIMONY, TOTAL	25.8241		0.4800	B	42.83	59.2	N	75	125	P
ARSENIC, TOTAL	43.1424		1.0697		42.83	98.2		75	125	P
BARIUM, TOTAL	186.7827		30.8672		171.32	91.0		75	125	P
BERYLLIUM, TOTAL	4.0824		0.1545	B	4.28	91.8		75	125	P
CADMIUM, TOTAL	20.9288		0.5767	B	21.41	95.1		75	125	P
CALCIUM, TOTAL	23426.5509		24789.1029		214.14	-636.3		75	125	P
CHROMIUM, TOTAL	28.0589		9.2609		17.13	109.7		75	125	P
COBALT, TOTAL	41.8926		1.1327	B	42.83	95.2		75	125	P
COPPER, TOTAL	172.7040		154.1971		21.41	86.4		75	125	P
IRON, TOTAL	4968.4010		3604.6315		85.66	1592.1		75	125	P
LEAD, TOTAL	64.0429		26.5135		42.83	87.6		75	125	P
MAGNESIUM, TOTAL	1093.2052		501.3122		428.29	138.2	N	75	125	P
MANGANESE, TOTAL	78.3426		35.2503		42.83	100.6		75	125	P
MERCURY, TOTAL	0.4998		0.5629		0.16	-39.4	N	75	125	CV
NICKEL, TOTAL	54.0715		12.7893		42.83	96.4		75	125	P
POTASSIUM, TOTAL	1046.6999		181.0317		856.58	101.1		75	125	P
SELENIUM, TOTAL	42.0126		0.5154	B	42.83	96.9		75	125	P
SILVER, TOTAL	7.5190		5.6340		4.28	44.0	N	75	125	P
SODIUM, TOTAL	763.6859		208.5795		642.43	86.4		75	125	P
THALLIUM, TOTAL	42.6713		0.1511	U	42.83	99.6		75	125	P
VANADIUM, TOTAL	48.5234		7.4807		42.83	95.8		75	125	P
ZINC, TOTAL	155.3600		112.8949		42.83	99.1		75	125	P

Comments:

5A

SPIKE SAMPLE RECOVERY

Lab Name: Katahdin Analytical Services **Client Field ID:** MPT-45-A1-2'S

Matrix: SOIL **SDG Name:** WU0050

Percent Solids: 91.2 **Lab Sample ID:** WU0050-001P

Concentration Units : mg/Kg

Analyte	Spiked Sample Result	C	Sample Result	C	Spike Added	%R	Q	Control Limits (%R) Low	High	M
ALUMINUM, TOTAL	5035.0251		2099.0227		172.66	1700.5		75	125	P
ANTIMONY, TOTAL	29.6853		0.4800	B	43.17	67.7	N	75	125	P
ARSENIC, TOTAL	44.3057		1.0697		43.17	100.2		75	125	P
BARIUM, TOTAL	183.9584		30.8672		172.66	88.7		75	125	P
BERYLLIUM, TOTAL	4.1681		0.1545	B	4.32	92.9		75	125	P
CADMIUM, TOTAL	21.6279		0.5767	B	21.58	97.5		75	125	P
CALCIUM, TOTAL	30571.3807		24789.1029		215.83	2679.1		75	125	P
CHROMIUM, TOTAL	27.2378		9.2609		17.27	104.1		75	125	P
COBALT, TOTAL	43.1903		1.1327	B	43.17	97.4		75	125	P
COPPER, TOTAL	132.0279		154.1971		21.58	-102.7		75	125	P
IRON, TOTAL	4420.8577		3604.6315		86.33	945.5		75	125	P
LEAD, TOTAL	62.8732		26.5135		43.17	84.2		75	125	P
MAGNESIUM, TOTAL	1071.1065		501.3122		431.66	132.0	N	75	125	P
MANGANESE, TOTAL	77.0135		35.2503		43.17	96.7		75	125	P
MERCURY, TOTAL	0.3502		0.5629		0.16	-132.9	N	75	125	CV
NICKEL, TOTAL	55.5073		12.7893		43.17	99.0		75	125	P
POTASSIUM, TOTAL	1072.4576		181.0317		863.32	103.3		75	125	P
SELENIUM, TOTAL	43.7730		0.5154	B	43.17	100.2		75	125	P
SILVER, TOTAL	7.8070		5.6340		4.32	50.3	N	75	125	P
SODIUM, TOTAL	835.7286		208.5795		647.49	96.9		75	125	P
THALLIUM, TOTAL	43.7713		0.1511	U	43.17	101.4		75	125	P
VANADIUM, TOTAL	51.6232		7.4807		43.17	102.3		75	125	P
ZINC, TOTAL	142.6243		112.8949		43.17	68.9	N	75	125	P

Comments:

5D

SPIKE DUPLICATES

Lab Name: Katahdin Analytical Services **Client Field ID:** MPT-45-A1-2'

Matrix: SOIL **SDG Name:** WU0050

Percent Solids: 91.2 **Lab Sample ID:** WU0050-001

Concentration Units : mg/Kg

Analyte	Control Limits	Spike Result	C	Spike Dup. Result	C	RPD	Q	M
ALUMINUM, TOTAL		5247.9733		5035.0251		4.1		P
ANTIMONY, TOTAL		25.8241		29.6853		13.9		P
ARSENIC, TOTAL		43.1424		44.3057		2.7		P
BARIUM, TOTAL		186.7827		183.9584		1.5		P
BERYLLIUM, TOTAL		4.0824		4.1681		2.1		P
CADMIUM, TOTAL		20.9288		21.6279		3.3		P
CALCIUM, TOTAL		23426.5509		30571.3807		26.5	*	P
CHROMIUM, TOTAL		28.0589		27.2378		3.0		P
COBALT, TOTAL		41.8926		43.1903		3.1		P
COPPER, TOTAL		172.7040		132.0279		26.7	*	P
IRON, TOTAL		4968.4010		4420.8577		11.7		P
LEAD, TOTAL		64.0429		62.8732		1.8		P
MAGNESIUM, TOTAL		1093.2052		1071.1065		2.0		P
MANGANESE, TOTAL		78.3426		77.0135		1.7		P
MERCURY, TOTAL		0.4998		0.3502		35.2	*	CV
NICKEL, TOTAL		54.0715		55.5073		2.6		P
POTASSIUM, TOTAL		1046.6999		1072.4576		2.4		P
SELENIUM, TOTAL		42.0126		43.7730		4.1		P
SILVER, TOTAL		7.5190		7.8070		3.8		P
SODIUM, TOTAL		763.6859		835.7286		9.0		P
THALLIUM, TOTAL		42.6713		43.7713		2.5		P
VANADIUM, TOTAL		48.5234		51.6232		6.2		P
ZINC, TOTAL		155.3600		142.6243		8.5		P

Comments:

LABORATORY CONTROL SAMPLES

Lab Name: Katahdin Analytical Services **Sample ID:** LCSOUA12ICS0

Matrix: SOIL **SDG Name:** WU0050

QC Batch ID: UA12ICS0

Concentration Units : ug/L

Analyte	TRUE	FOUND	% R	LIMITS (%)	
ALUMINUM	2000.0	1837.44	91.9	80	120
ANTIMONY	500.0	509.95	102.0	80	120
ARSENIC	500.0	525.94	105.2	80	120
BARIUM	2000.0	1851.26	92.6	80	120
BERYLLIUM	50.0	46.58	93.2	80	120
CADMIUM	250.0	245.61	98.2	80	120
CALCIUM	2500.0	2469.37	98.8	80	120
CHROMIUM	200.0	200.65	100.3	80	120
COBALT	500.0	506.99	101.4	80	120
COPPER	250.0	224.89	90.0	80	120
IRON	1000.0	981.13	98.1	80	120
LEAD	500.0	513.22	102.6	80	120
MAGNESIUM	5000.0	4787.34	95.7	80	120
MANGANESE	500.0	486.76	97.4	80	120
NICKEL	500.0	500.20	100.0	80	120
POTASSIUM	10000.0	8701.83	87.0	80	120
SELENIUM	500.0	518.68	103.7	80	120
SILVER	50.0	43.16	86.3	80	120
SODIUM	7500.0	6569.30	87.6	80	120
THALLIUM	500.0	514.93	103.0	80	120
VANADIUM	500.0	473.67	94.7	80	120
ZINC	500.0	475.65	95.1	80	120

LABORATORY CONTROL SAMPLES

Lab Name: Katahdin Analytical Services **Sample ID:** LCSOUA16HGS0

Matrix: SOIL **SDG Name:** WU0050

QC Batch ID: UA16HGS0

Concentration Units : ug/L

Analyte	TRUE	FOUND	% R	LIMITS (%)	
MERCURY	5.0	4.96	99.2	80	120

ICP SERIAL DILUTION

Lab Name: Katahdin Analytical Services **Client Field ID:** MPT-45-A1-2'L

Matrix: SOIL **SDG Name:** WU0050

Lab Sample ID: WU0050-001L

Concentration Units: ug/L

Analyte	Sample Result	C	Dilution Result	C	% Difference	Q	M
ALUMINUM, TOTAL	24313.32		24661.27		1.4		P
ANTIMONY, TOTAL	5.56	B	10.52	B	89.2		P
ARSENIC, TOTAL	12.39		10.28	U	100.0		P
BARIUM, TOTAL	357.54		369.63		3.4		P
BERYLLIUM, TOTAL	1.79	B	3.13	B	74.9		P
CADMIUM, TOTAL	6.68	B	-4.56	U	100.0		P
CALCIUM, TOTAL	287136.19		286373.96		0.3		P
CHROMIUM, TOTAL	107.27		106.11		1.1		P
COBALT, TOTAL	13.12	B	15.25	B	16.2		P
COPPER, TOTAL	1786.09		1833.98		2.7		P
IRON, TOTAL	41753.03		43732.69		4.7		P
LEAD, TOTAL	307.11		298.50		2.8		P
MAGNESIUM, TOTAL	5806.78		5852.67		0.8		P
MANGANESE, TOTAL	408.31		421.09		3.1		P
NICKEL, TOTAL	148.14		170.27	B	14.9		P
POTASSIUM, TOTAL	2096.92		2318.94	U	100.0		P
SELENIUM, TOTAL	5.97	B	16.33	B	173.5		P
SILVER, TOTAL	65.26		58.01	B	11.1		P
SODIUM, TOTAL	2416.01		2491.90	B	3.1		P
THALLIUM, TOTAL	1.75	U	17.15	B			P
VANADIUM, TOTAL	86.65		84.65	B	2.3		P
ZINC, TOTAL	1307.68		1333.75		2.0		P

INSTRUMENT DETECTION LIMITS

Lab Name: Katahdin Analytical Services **Instrument Code:** A

Instrument Name: TJA TRACE ICP **Date:** 7/23/03

Concentration Units: ug/L

Analyte	CRDL	IDL	M
ANTIMONY	8.0	1.74	P
ARSENIC	8.0	2.13	P
CHROMIUM	15	0.88	P
LEAD	5.0	1.56	P
SELENIUM	10	2.32	P
THALLIUM	15	2.77	P

INSTRUMENT DETECTION LIMITS

Lab Name: Katahdin Analytical Services **Instrument Code:** B

Instrument Name: TJA 61 ICP **Date:** 7/23/03

Concentration Units: ug/L

Analyte	CRDL	IDL	M
ALUMINUM	300	15.70	P
BARIUM	5.0	0.54	P
BERYLLIUM	5.0	0.28	P
CADMIUM	10	2.66	P
CALCIUM	50	15.50	P
COBALT	30	2.96	P
COPPER	25	3.30	P
IRON	100	4.80	P
MAGNESIUM	50	31.20	P
MANGANESE	5.0	0.90	P
NICKEL	40	12.10	P
POTASSIUM	1000	479.00	P
SILVER	15	3.60	P
SODIUM	1000	24.80	P
VANADIUM	25	3.60	P
ZINC	25	2.00	P

INSTRUMENT DETECTION LIMITS

Lab Name: Katahdin Analytical Services **Instrument Code:** D

Instrument Name: LEEMAN MERCURY ANALYZER **Date:** 7/23/03

Concentration Units: ug/L

Analyte	CRDL	IDL	M
MERCURY	0.20	0.04	CV

ICP LINEAR RANGES

Lab Name: Katahdin Analytical Services **Instrument Code:** A

Instrument Name: TJA TRACE ICP **Date:** 1/17/03

Concentration Units: ug/L

Analyte	Integration Time (sec)	Linear Range	M
ALUMINUM	15.00	500000	P
ANTIMONY	15.00	10000	P
ARSENIC	15.00	10000	P
BARIUM	15.00	30000	P
BERYLLIUM	15.00	5000	P
CADMIUM	15.00	10000	P
CALCIUM	15.00	500000	P
CHROMIUM	15.00	10000	P
COBALT	15.00	10000	P
COPPER	15.00	10000	P
IRON	15.00	250000	P
LEAD	15.00	10000	P
MAGNESIUM	15.00	500000	P
MANGANESE	15.00	10000	P
NICKEL	15.00	10000	P
POTASSIUM	15.00	30000	P
SELENIUM	15.00	10000	P
SILVER	15.00	1000	P
SODIUM	15.00	200000	P
THALLIUM	15.00	10000	P
VANADIUM	15.00	10000	P
ZINC	15.00	10000	P

ICP LINEAR RANGES

Lab Name: Katahdin Analytical Services **Instrument Code:** B

Instrument Name: TJA 61 ICP **Date:** 1/17/03

Concentration Units: ug/L

Analyte	Integration Time (sec)	Linear Range	M
ALUMINUM	8.00	500000	P
ANTIMONY	8.00	10000	P
ARSENIC	8.00	10000	P
BARIUM	8.00	30000	P
BERYLLIUM	8.00	10000	P
CADMIUM	8.00	10000	P
CALCIUM	8.00	500000	P
CHROMIUM	8.00	10000	P
COBALT	8.00	10000	P
COPPER	8.00	10000	P
IRON	8.00	250000	P
LEAD	8.00	10000	P
MAGNESIUM	8.00	500000	P
MANGANESE	8.00	10000	P
NICKEL	8.00	10000	P
POTASSIUM	8.00	500000	P
SELENIUM	8.00	10000	P
SILVER	8.00	1000	P
SODIUM	8.00	500000	P
VANADIUM	8.00	10000	P
ZINC	8.00	10000	P

PREPARATION LOG

Lab Name: Katahdin Analytical Services **QC Batch ID:** UA12ICS0

Matrix: SOIL **SDG Name:** WU0050

Method: P **Prep Date:** 01/12/2004

Client ID	Lab Sample ID	Initial (g)	Final (L)
LCSOUA12ICS0	LCSOUA12ICS0	1	0.1
PBSUA12ICS0	PBSUA12ICS0	1	0.1
MPT-45-A1-2'	WU0050-001	1.27	0.1
MPT-45-A1-2'P	WU0050-001P	1.27	0.1
MPT-45-A1-2'S	WU0050-001S	1.28	0.1
MPT-45-A2-2'	WU0050-002	1.22	0.1
MPT-45-A3-2'	WU0050-003	1.12	0.1
MPT-45-A4-2'	WU0050-004	1.3	0.1
MPT-45-B1-2'	WU0050-005	1.29	0.1
MPT-45-B2-2'	WU0050-006	1.15	0.1
MPT-45-B3-2'	WU0050-007	1.19	0.1
MPT-45-B4-2'	WU0050-008	1.18	0.1
MPT-45-C1-2'	WU0050-009	1.45	0.1
MPT-45-C2-2'	WU0050-010	1.4	0.1
MPT-45-C3-2'	WU0050-011	1.12	0.1
MPT-45-C4-2'	WU0050-012	1.29	0.1
MPT-45-D3-2'	WU0050-013	1.27	0.1
MPT-45-D4-2'	WU0050-014	1.14	0.1
MPT-45-E4-2'	WU0050-015	1.13	0.1
MPT-45-E4-5'	WU0050-016	1.43	0.1

PREPARATION LOG

Lab Name: Katahdin Analytical Services **QC Batch ID:** UA16HGS0

Matrix: SOIL **SDG Name:** WU0050

Method: CV **Prep Date:** 01/16/2004

Client ID	Lab Sample ID	Initial (g)	Final (L)
LCSOUA16HGS0	LCSOUA16HGS0	0.6	0.1
PBSUA16HGS0	PBSUA16HGS0	0.6	0.1
MPT-45-A1-2'	WU0050-001R	0.67	0.1
MPT-45-A1-2'P	WU0050-001RP	0.67	0.1
MPT-45-A1-2'S	WU0050-001RS	0.68	0.1
MPT-45-A2-2'	WU0050-002R	0.69	0.1
MPT-45-A3-2'	WU0050-003R	0.65	0.1
MPT-45-A4-2'	WU0050-004R	0.62	0.1
MPT-45-B1-2'	WU0050-005R	0.62	0.1
MPT-45-B2-2'	WU0050-006R	0.77	0.1
MPT-45-B3-2'	WU0050-007R	0.67	0.1
MPT-45-B4-2'	WU0050-008R	0.68	0.1
MPT-45-C1-2'	WU0050-009R	0.61	0.1
MPT-45-C2-2'	WU0050-010R	0.64	0.1
MPT-45-C3-2'	WU0050-011R	0.7	0.1
MPT-45-C4-2'	WU0050-012R	0.73	0.1
MPT-45-D3-2'	WU0050-013R	0.78	0.1
MPT-45-D4-2'	WU0050-014R	0.61	0.1
MPT-45-E4-2'	WU0050-015R	0.67	0.1
MPT-45-E4-5'	WU0050-016R	0.64	0.1

ANALYSIS RUN LOG

Lab Name: Katahdin Analytical Services **SDG Name:** WU0050

Instrument ID: TJA TRACE ICP **File Name:** AUA13B

Date: 1/13/04 **Method:** P

Lab Sample ID	Client ID	D.F.	Time	Elements				
S0		1	12:22	Al Sb As	Ca Cr	Fe Pb Mg	Se	Tl
S1		1	12:29	Al Sb As	Ca Cr	Fe Pb Mg	Se	Tl
AL_IEC		1	12:38	Al Sb As	Ca Cr	Fe Pb Mg	Se	Tl
FE_IEC		1	12:45	Al Sb As	Ca Cr	Fe Pb Mg	Se	Tl
MN_IEC		1	12:52	Al Sb As	Ca Cr	Fe Pb Mg	Se	Tl
IEC		1	12:59	Al Sb As	Ca Cr	Fe Pb Mg	Se	Tl
ICV		1	13:05	Al Sb As	Ca Cr	Fe Pb Mg	Se	Tl
ICB		1	13:12	Al Sb As	Ca Cr	Fe Pb Mg	Se	Tl
PQL		1	13:19	Al Sb As	Ca Cr	Fe Pb Mg	Se	Tl
CRI		1	13:26	Al Sb As	Ca Cr	Fe Pb Mg	Se	Tl
ICSA		1	13:32	Al Sb As	Ca Cr	Fe Pb Mg	Se	Tl
ICSAB		1	13:39	Al Sb As	Ca Cr	Fe Pb Mg	Se	Tl
CCV		1	13:46	Al Sb As	Ca Cr	Fe Pb Mg	Se	Tl
CCB		1	13:52	Al Sb As	Ca Cr	Fe Pb Mg	Se	Tl
ZZZZZZ		1	13:59					
ZZZZZZ		5	14:06					
ZZZZZZ		1	14:13					
ZZZZZZ		1	14:19					
ZZZZZZ		1	14:26					
PBSUA12ICS0		1	14:33	Sb As	Cr	Pb	Se	Tl
LCSOUA12ICS0		1	14:39	Sb As	Cr	Pb	Se	Tl
WU0050-001	MPT-45-A1-2'	1	14:46	Sb As	Cr	Pb	Se	Tl
WU0050-001L	MPT-45-A1-2'L	5	14:53	Sb As	Cr	Pb	Se	Tl
WU0050-001P	MPT-45-A1-2'P	1	14:59	Sb As	Cr	Pb	Se	Tl
CCV		1	15:06	Al Sb As	Ca Cr	Fe Pb Mg	Se	Tl
CCB		1	15:13	Al Sb As	Ca Cr	Fe Pb Mg	Se	Tl
WU0050-001S	MPT-45-A1-2'S	1	15:19	Sb As	Cr	Pb	Se	Tl
WU0050-002	MPT-45-A2-2'	1	15:26	Sb As	Cr	Pb	Se	Tl
WU0050-003	MPT-45-A3-2'	1	15:33	Sb As	Cr	Pb	Se	Tl
WU0050-004	MPT-45-A4-2'	1	15:40	Sb As	Cr	Pb	Se	Tl
WU0050-005	MPT-45-B1-2'	1	15:46	Sb As	Cr	Pb	Se	Tl
WU0050-006	MPT-45-B2-2'	1	15:53	Sb As	Cr	Pb	Se	Tl
WU0050-007	MPT-45-B3-2'	1	16:00	Sb As	Cr	Pb	Se	Tl
WU0050-008	MPT-45-B4-2'	1	16:06	Sb As	Cr	Pb	Se	Tl
WU0050-009	MPT-45-C1-2'	1	16:13	Sb As	Cr	Pb	Se	Tl
WU0050-010	MPT-45-C2-2'	1	16:20	Sb As	Cr	Pb	Se	Tl
CCV		1	16:26	Al Sb As	Ca Cr	Fe Pb Mg	Se	Tl
CCB		1	16:33	Al Sb As	Ca Cr	Fe Pb Mg	Se	Tl
WU0050-011	MPT-45-C3-2'	1	16:40	Sb As	Cr	Pb	Se	Tl
WU0050-012	MPT-45-C4-2'	1	16:46	Sb As	Cr	Pb	Se	Tl
WU0050-013	MPT-45-D3-2'	1	16:53	Sb As	Cr	Pb	Se	Tl
WU0050-014	MPT-45-D4-2'	1	17:00	Sb As	Cr	Pb	Se	Tl
WU0050-015	MPT-45-E4-2'	1	17:06	Sb As	Cr	Pb	Se	Tl
WU0050-016	MPT-45-E4-5'	1	17:13	Sb As	Cr	Pb	Se	Tl
ZZZZZZ		2	17:20					
CRI		1	17:27	Al Sb As	Ca Cr	Fe Pb Mg	Se	Tl
ICSA		1	17:33	Al Sb As	Ca Cr	Fe Pb Mg	Se	Tl
ICSAB		1	17:40	Al Sb As	Ca Cr	Fe Pb Mg	Se	Tl
CCV		1	17:47	Al Sb As	Ca Cr	Fe Pb Mg	Se	Tl
CCB		1	17:53	Al Sb As	Ca Cr	Fe Pb Mg	Se	Tl

FORM XIV - IN

ANALYSIS RUN LOG

Lab Name: Katahdin Analytical Services **SDG Name:** WU0050

Instrument ID: TJA 61 ICP **File Name:** BUA13A

Date: 1/13/04 **Method:** P

Lab Sample ID	Client ID	D.F.	Time	Elements									
S0		1	9:23	Al	Ba Be	Cd Ca	Co Cu Fe	Mg Mn	Ni K	Ag Na	V Zn		
S1		1	9:28	Al	Ba Be	Cd Ca	Co Cu Fe	Mg Mn	Ni K	Ag Na	V Zn		
AL IEC		1	9:34	Al	Ba Be	Cd Ca	Co Cu Fe	Mg Mn	Ni K	Ag Na	V Zn		
FE IEC		1	9:42	Al	Ba Be	Cd Ca	Co Cu Fe	Mg Mn	Ni K	Ag Na	V Zn		
ICV		1	9:50	Al	Ba Be	Cd Ca	Co Cu Fe	Mg Mn	Ni K	Ag Na	V Zn		
ICB		1	9:56	Al	Ba Be	Cd Ca	Co Cu Fe	Mg Mn	Ni K	Ag Na	V Zn		
PQL		1	10:02	Al	Ba Be	Cd Ca	Co Cu Fe	Mg Mn	Ni K	Ag Na	V Zn		
CRI		1	10:07	Al	Ba Be	Cd Ca	Co Cu Fe	Mg Mn	Ni K	Ag Na	V Zn		
ICSA		1	10:13	Al	Ba Be	Cd Ca	Co Cu Fe	Mg Mn	Ni K	Ag Na	V Zn		
ICSAB		1	10:21	Al	Ba Be	Cd Ca	Co Cu Fe	Mg Mn	Ni K	Ag Na	V Zn		
CCV		1	10:26	Al	Ba Be	Cd Ca	Co Cu Fe	Mg Mn	Ni K	Ag Na	V Zn		
CCB		1	10:32	Al	Ba Be	Cd Ca	Co Cu Fe	Mg Mn	Ni K	Ag Na	V Zn		
ZZZZZZ		1	10:38										
ZZZZZZ		1	10:43										
ZZZZZZ		1	10:49										
ZZZZZZ		1	10:55										
ZZZZZZ		1	11:00										
ZZZZZZ		1	11:06										
ZZZZZZ		1	11:11										
ZZZZZZ		1	11:17										
ZZZZZZ		1	11:23										
ZZZZZZ		1	11:28										
CCV		1	11:34	Al	Ba Be	Cd Ca	Co Cu Fe	Mg Mn	Ni K	Ag Na	V Zn		
CCB		1	11:40	Al	Ba Be	Cd Ca	Co Cu Fe	Mg Mn	Ni K	Ag Na	V Zn		
ZZZZZZ		1	11:45										
PBSUA12ICS0		1	11:51	Al	Ba Be	Cd Ca	Co Cu Fe	Mg Mn	Ni K	Ag Na	V Zn		
LCSOUA12ICS0		1	11:57	Al	Ba Be	Cd Ca	Co Cu Fe	Mg Mn	Ni K	Ag Na	V Zn		
WU0050-001	MPT-45-A1-2'	1	12:02	Al	Ba Be	Cd Ca	Co Cu Fe	Mg Mn	Ni K	Ag Na	V Zn		
WU0050-001L	MPT-45-A1-2'L	5	12:08	Al	Ba Be	Cd Ca	Co Cu Fe	Mg Mn	Ni K	Ag Na	V Zn		
WU0050-001P	MPT-45-A1-2'P	1	12:13	Al	Ba Be	Cd Ca	Co Cu Fe	Mg Mn	Ni K	Ag Na	V Zn		
WU0050-001S	MPT-45-A1-2'S	1	12:19	Al	Ba Be	Cd Ca	Co Cu Fe	Mg Mn	Ni K	Ag Na	V Zn		
WU0050-002	MPT-45-A2-2'	1	12:25	Al	Ba Be	Cd	Co Cu Fe	Mg Mn	Ni K	Ag Na	V Zn		
WU0050-003	MPT-45-A3-2'	1	12:31	Al	Ba Be	Cd	Co Cu Fe	Mg Mn	Ni K	Ag Na	V Zn		
WU0050-004	MPT-45-A4-2'	1	12:37	Al	Ba Be	Cd Ca	Co Cu Fe	Mg Mn	Ni K	Ag Na	V Zn		
CCV		1	12:42	Al	Ba Be	Cd Ca	Co Cu Fe	Mg Mn	Ni K	Ag Na	V Zn		
CCB		1	12:48	Al	Ba Be	Cd Ca	Co Cu Fe	Mg Mn	Ni K	Ag Na	V Zn		
WU0050-005	MPT-45-B1-2'	1	12:54	Al	Ba Be	Cd Ca	Co Fe	Mg Mn	Ni K	Ag Na	V Zn		
WU0050-006	MPT-45-B2-2'	1	12:59	Al	Ba Be	Cd	Co Cu Fe	Mg Mn	Ni K	Ag Na	V Zn		
WU0050-007	MPT-45-B3-2'	1	13:05	Al	Ba Be	Cd	Co Cu Fe	Mg Mn	Ni K	Ag Na	V Zn		
WU0050-008	MPT-45-B4-2'	1	13:11	Al	Ba Be	Cd Ca	Co Cu Fe	Mg Mn	Ni K	Ag Na	V Zn		
WU0050-009	MPT-45-C1-2'	1	13:16	Al	Ba Be	Cd	Co Cu Fe	Mg Mn	Ni K	Ag Na	V Zn		
WU0050-010	MPT-45-C2-2'	1	13:22	Al	Ba Be	Cd	Co Cu Fe	Mg Mn	Ni K	Ag Na	V Zn		
WU0050-011	MPT-45-C3-2'	1	13:28	Al	Ba Be	Cd	Co Cu Fe	Mg Mn	Ni K	Ag Na	V Zn		
CRI		1	13:33	Al	Ba Be	Cd Ca	Co Cu Fe	Mg Mn	Ni K	Ag Na	V Zn		
ICSA		1	13:39	Al	Ba Be	Cd Ca	Co Cu Fe	Mg Mn	Ni K	Ag Na	V Zn		
ICSAB		1	13:44	Al	Ba Be	Cd Ca	Co Cu Fe	Mg Mn	Ni K	Ag Na	V Zn		
CCV		1	13:50	Al	Ba Be	Cd Ca	Co Cu Fe	Mg Mn	Ni K	Ag Na	V Zn		
CCB		1	13:56	Al	Ba Be	Cd Ca	Co Cu Fe	Mg Mn	Ni K	Ag Na	V Zn		
WU0050-012	MPT-45-C4-2'	1	14:01	Al	Ba Be	Cd	Co Cu Fe	Mg Mn	Ni K	Ag Na	V Zn		
WU0050-013	MPT-45-D3-2'	1	14:07	Al	Ba Be	Cd	Co Cu Fe	Mg Mn	Ni K	Ag Na	V Zn		

FORM XIV - IN

ANALYSIS RUN LOG

Lab Name: Katahdin Analytical Services **SDG Name:** WU0050

Instrument ID: TJA 61 ICP **File Name:** BUA13A

Date: 1/13/04 **Method:** P

Lab Sample ID	Client ID	D.F.	Time	Elements									
WU0050-014	MPT-45-D4-2'	1	14:13	Al	Ba Be	Cd Ca	Co Cu Fe	Mg Mn	Ni K	Ag Na	V Zn		
WU0050-015	MPT-45-E4-2'	1	14:18	Al	Ba Be	Cd	Co Cu Fe	Mg Mn	Ni K	Ag Na	V Zn		
WU0050-016	MPT-45-E4-5'	1	14:24	Al	Ba Be	Cd	Co Cu Fe	Mg Mn	Ni K	Ag Na	V Zn		
ZZZZZZ		1	14:30										
ZZZZZZ		1	14:35										
ZZZZZZ		1	14:41										
ZZZZZZ		1	14:46										
ZZZZZZ		1	14:52										
CCV		1	14:58	Al	Ba Be	Cd Ca	Co Cu Fe	Mg Mn	Ni K	Ag Na	V Zn		
CCB		1	15:03	Al	Ba Be	Cd Ca	Co Cu Fe	Mg Mn	Ni K	Ag Na	V Zn		
ZZZZZZ		1	15:09										
ZZZZZZ		1	15:15										
ZZZZZZ		5	15:20										
ZZZZZZ		1	15:26										
ZZZZZZ		1	15:32										
ZZZZZZ		1	15:37										
ZZZZZZ		1	15:43										
ZZZZZZ		1	15:49										
ZZZZZZ		1	15:54										
ZZZZZZ		1	16:00										
CCV		1	16:05	Al	Ba Be	Cd Ca	Co Cu Fe	Mg Mn	Ni K	Ag Na	V Zn		
CCB		1	16:11	Al	Ba Be	Cd Ca	Co Cu Fe	Mg Mn	Ni K	Ag Na	V Zn		
ZZZZZZ		1	16:17										
ZZZZZZ		1	16:22										
ZZZZZZ		1	16:28										
ZZZZZZ		1	16:34										
ZZZZZZ		1	16:39										
ZZZZZZ		1	16:45										
ZZZZZZ		1	16:51										
ZZZZZZ		1	16:56										
ZZZZZZ		1	17:02										
ZZZZZZ		1	17:08										
CCV		1	17:13	Al	Ba Be	Cd Ca	Co Cu Fe	Mg Mn	Ni K	Ag Na	V Zn		
CCB		1	17:19	Al	Ba Be	Cd Ca	Co Cu Fe	Mg Mn	Ni K	Ag Na	V Zn		
ZZZZZZ		1	17:24										
CRI		1	17:30	Al	Ba Be	Cd Ca	Co Cu Fe	Mg Mn	Ni K	Ag Na	V Zn		
ICSA		1	17:36	Al	Ba Be	Cd Ca	Co Cu Fe	Mg Mn	Ni K	Ag Na	V Zn		
ICSAB		1	17:41	Al	Ba Be	Cd Ca	Co Cu Fe	Mg Mn	Ni K	Ag Na	V Zn		
CCV		1	17:47	Al	Ba Be	Cd Ca	Co Cu Fe	Mg Mn	Ni K	Ag Na	V Zn		
CCB		1	17:53	Al	Ba Be	Cd Ca	Co Cu Fe	Mg Mn	Ni K	Ag Na	V Zn		

ANALYSIS RUN LOG

Lab Name: Katahdin Analytical Services **SDG Name:** WU0050

Instrument ID: TJA 61 ICP **File Name:** BUA14A

Date: 1/14/04 **Method:** P

Lab Sample ID	Client ID	D.F.	Time	Elements			
S0		1	9:15	Al	Ca	Cu Fe	Mg
S1		1	9:21	Al	Ca	Cu Fe	Mg
AL_IEC		1	9:27	Al	Ca	Cu Fe	Mg
FE_IEC		1	9:35	Al	Ca	Cu Fe	Mg
ICV		1	9:43	Al	Ca	Cu Fe	Mg
ICB		1	9:49	Al	Ca	Cu Fe	Mg
PQL		1	9:55	Al	Ca	Cu Fe	Mg
CRI		1	10:00	Al	Ca	Cu Fe	Mg
ICSA		1	10:06	Al	Ca	Cu Fe	Mg
ICSAB		1	10:12	Al	Ca	Cu Fe	Mg
CCV		1	10:17	Al	Ca	Cu Fe	Mg
CCB		1	10:23	Al	Ca	Cu Fe	Mg
ZZZZZZ		1	10:29				
ZZZZZZ		1	10:34				
ZZZZZZ		1	10:40				
ZZZZZZ		1	10:45				
ZZZZZZ		1	10:51				
ZZZZZZ		5	10:57				
ZZZZZZ		1	11:02				
ZZZZZZ		1	11:08				
ZZZZZZ		1	11:14				
WU0050-002	MPT-45-A2-2'	2	11:19		Ca		
CCV		1	11:25	Al	Ca	Cu Fe	Mg
CCB		1	11:30	Al	Ca	Cu Fe	Mg
WU0050-003	MPT-45-A3-2'	2	11:36		Ca		
WU0050-005	MPT-45-B1-2'	2	11:42			Cu	
WU0050-006	MPT-45-B2-2'	2	11:47		Ca		
WU0050-007	MPT-45-B3-2'	2	11:53		Ca		
WU0050-009	MPT-45-C1-2'	2	11:59		Ca		
WU0050-010	MPT-45-C2-2'	5	12:04		Ca		
WU0050-011	MPT-45-C3-2'	2	12:10		Ca		
WU0050-012	MPT-45-C4-2'	5	12:16		Ca		
WU0050-013	MPT-45-D3-2'	10	12:21		Ca		
WU0050-015	MPT-45-E4-2'	10	12:27		Ca		
CCV		1	12:33	Al	Ca	Cu Fe	Mg
CCB		1	12:38	Al	Ca	Cu Fe	Mg
WU0050-016	MPT-45-E4-5'	2	12:44		Ca		
ZZZZZZ		1	12:49				
ZZZZZZ		1	12:55				
ZZZZZZ		1	13:01				
ZZZZZZ		5	13:06				
ZZZZZZ		1	13:12				
ZZZZZZ		1	13:18				
CRI		1	13:23	Al	Ca	Cu Fe	Mg
ICSA		1	13:29	Al	Ca	Cu Fe	Mg
ICSAB		1	13:35	Al	Ca	Cu Fe	Mg
CCV		1	13:40	Al	Ca	Cu Fe	Mg
CCB		1	13:46	Al	Ca	Cu Fe	Mg

ANALYSIS RUN LOG

Lab Name: Katahdin Analytical Services **SDG Name:** WU0050

Instrument ID: LEEMAN MERCURY AN **File Name:** DUA19B

Date: 1/19/04 **Method:** CV

Lab Sample ID	Client ID	D.F.	Time	Elements
Std1			11:08	Hg
Std2			11:11	Hg
Std3			11:15	Hg
Std4			11:19	Hg
Std5			11:23	Hg
Std6			11:28	Hg
ICV		1	11:32	Hg
ICB		1	11:36	Hg
CRA		1	11:39	Hg
PBSUA16HGS0		1	11:43	Hg
LCSOUA16HGS0		1	11:46	Hg
WU0050-001R	MPT-45-A1-2'R	2	11:50	Hg
WU0050-001RS	MPT-45-A1-2'RS	2	11:54	Hg
WU0050-001RP	MPT-45-A1-2'RP	2	11:58	Hg
WU0050-002R	MPT-45-A2-2'R	2	12:02	Hg
WU0050-003R	MPT-45-A3-2'R	2	12:05	Hg
WU0050-004R	MPT-45-A4-2'R	2	12:09	Hg
WU0050-005R	MPT-45-B1-2'R	2	12:12	Hg
CCV		1	12:16	Hg
CCB		1	12:20	Hg
WU0050-006R	MPT-45-B2-2'R	2	12:24	Hg
WU0050-007R	MPT-45-B3-2'R	2	12:28	Hg
WU0050-008R	MPT-45-B4-2'R	2	12:32	Hg
WU0050-009R	MPT-45-C1-2'R	2	12:36	Hg
WU0050-010R	MPT-45-C2-2'R	2	12:39	Hg
WU0050-011R	MPT-45-C3-2'R	2	12:43	Hg
WU0050-012R	MPT-45-C4-2'R	2	12:47	Hg
WU0050-013R	MPT-45-D3-2'R	2	12:51	Hg
WU0050-014R	MPT-45-D4-2'R	2	12:55	Hg
WU0050-015R	MPT-45-E4-2'R	2	12:58	Hg
CCV		1	13:02	Hg
CCB		1	13:06	Hg
WU0050-016R	MPT-45-E4-5'R	2	13:10	Hg
CCV		1	13:13	Hg
CCB		1	13:17	Hg

Total Cyanide

Samp Type	QC Batch	Anal. Method	Anal. Date	Prep. Date	Result	PQL
MBLANK	WG5444	SW846 M9012	13-JAN-04	12-JAN-04	U 10 ug/L	.01 ug/L
MBLANK	WG5445	SW846 M9012	13-JAN-04	13-JAN-04	U 10. ug/L	10 ug/L

Total Solids

Samp Type	QC Batch	Anal. Method	Anal. Date	Prep. Date	Result	PQL
MBLANK	WG5393	CLP SOW 788	12-JAN-04	09-JAN-04	U .1 %	.1 %
MBLANK	WG5395	CLP SOW 788	12-JAN-04	09-JAN-04	U .1 %	.1 %

Katahdin
ANALYTICAL SERVICES

Accredited in accordance with nelac
Cert No E87604

Quality Control Report

Laboratory Control Sample Summary Report

Total Cyanide

Lab Sample Id	Samp Type	QC Batch	Analysis Date	Prep Date	Units	Spike Amt.	Result	Recovery	Acceptance Range	RPD
WG5444-2	LCS	WG5444	13-JAN-04	12-JAN-04	ug/L	200	200	99	80-120	
WG5445-2	LCS	WG5445	13-JAN-04	13-JAN-04	ug/L	200	180	88	80-120	

Total Solids

Lab Sample Id	Samp Type	QC Batch	Analysis Date	Prep Date	Units	Spike Amt.	Result	Recovery	Acceptance Range	RPD
WG5393-2	LCS	WG5393	12-JAN-04	09-JAN-04	%	90	90	100	80-120	
WG5395-2	LCS	WG5395	12-JAN-04	09-JAN-04	%	90	90	100	80-120	

Quality Control Report

Duplicate Sample Summary Report

Total Cyanide

Duplicate Sample ID	Original Sample ID	QC Batch	Analysis Date	Result Units	Sample Result	Duplicate Result	RPD(%)	RPD Limit
WG5444-3	WU0050-4	WG5444	13-JAN-04	mg/Kg	J 0.46	U 0.54	14	20

Total Solids

Duplicate Sample ID	Original Sample ID	QC Batch	Analysis Date	Result Units	Sample Result	Duplicate Result	RPD(%)	RPD Limit
WG5393-3	WU0050-1	WG5393	12-JAN-04	%	91	91	0	20
WG5393-4	WU0050-11	WG5393	12-JAN-04	%	95	95	0	20
WG5395-3	WU0050-17	WG5395	12-JAN-04	%	91	91	0	20
WG5395-4	WU0050-27	WG5395	12-JAN-04	%	95	95	0	20

NS Mayport
SDG WU0050

Affected Analyte	Sample	Reported Result	Qualifier	Interferent	Interferent level in ICS	Conc. ICS	Interferent Level	Est. Interference	Validation Action	Validation Action
Antimony	MPT-45-A1-2'	0.48		Calcium	495316	-5	24800	-0.25	J	na
Arsenic	MPT-45-A1-2'	1.1		Calcium	495316	4	24800	0.20	J	na
Barium	MPT-45-A1-2'	30.9		Calcium	495316	1	24800	0.05	na	na
Beryllium	MPT-45-A1-2'	0.15	U	Calcium	495316	1	24800	0.05	na	na
Cadmium	MPT-45-A1-2'	0.58		Calcium	495316	-5	24800	-0.25	J	na
Chromium	MPT-45-A1-2'	9.3		Calcium	495316	1	24800	0.05	na	na
Cobalt	MPT-45-A1-2'	1.1		Calcium	495316	-3	24800	-0.15	J	na
Lead	MPT-45-A1-2'	26.5		Calcium	495316	-2	24800	-0.10	na	na
Manganese	MPT-45-A1-2'	35.2		Calcium	495316	9	24800	0.45	na	na
Nickel	MPT-45-A1-2'	12.8		Calcium	495316	-20	24800	-1.00	na	na
Selenium	MPT-45-A1-2'	0.52		Calcium	495316	-6	24800	-0.30	J	na
Silver	MPT-45-A1-2'	5.6		Calcium	495316	-6	24800	-0.30	na	na
Sodium	MPT-45-A1-2'	208		Calcium	495316	38	24800	1.90	na	na
Thallium	MPT-45-A1-2'	0.24	U	Calcium	495316	7	24800	0.35	na	na
Zinc	MPT-45-A1-2'	113		Calcium	495316	6	24800	0.30	na	na

Affected Analyte	Sample	Reported Result	Qualifier	Interferent	Interferent level in ICS	Conc. ICS	Interferent Level	Est. Interference	Validation Action	Validation Action
Antimony	MPT-45-A2-2'	1.3		Calcium	495316	-5	50300	-0.51	J	na
Arsenic	MPT-45-A2-2'	0.85		Calcium	495316	4	50300	0.41	J	na
Barium	MPT-45-A2-2'	35.6		Calcium	495316	1	50300	0.10	na	na
Beryllium	MPT-45-A2-2'	0.10	U	Calcium	495316	1	50300	0.10	na	na
Cadmium	MPT-45-A2-2'	0.62		Calcium	495316	-5	50300	-0.51	J	na
Chromium	MPT-45-A2-2'	8.8		Calcium	495316	1	50300	0.10	na	na
Cobalt	MPT-45-A2-2'	1.1		Calcium	495316	-3	50300	-0.30	J	na
Lead	MPT-45-A2-2'	24.0		Calcium	495316	-2	50300	-0.20	na	na
Manganese	MPT-45-A2-2'	36.6		Calcium	495316	9	50300	0.91	na	na
Nickel	MPT-45-A2-2'	16.3		Calcium	495316	-20	50300	-2.03	J	na
Selenium	MPT-45-A2-2'	0.25		Calcium	495316	-6	50300	-0.61	J	na
Silver	MPT-45-A2-2'	5.9		Calcium	495316	-6	50300	-0.61	J	na
Sodium	MPT-45-A2-2'	304		Calcium	495316	38	50300	3.86	na	na
Thallium	MPT-45-A2-2'	0.24	U	Calcium	495316	7	50300	0.71	na	na
Zinc	MPT-45-A2-2'	134		Calcium	495316	6	50300	0.61	na	na

Affected Analyte	Sample	Reported Result	Qualifier	Interferent	Interferent level in ICS	Conc. ICS	Interferent Level	Est. Interference	Validation Action	Validation Action
Antimony	MPT-45-A3-2'	1.4		Calcium	495316	-5	50600	-0.51	J	na
Arsenic	MPT-45-A3-2'	0.83		Calcium	495316	4	50600	0.41	J	na
Barium	MPT-45-A3-2'	36.6		Calcium	495316	1	50600	0.10	na	na
Beryllium	MPT-45-A3-2'	0.15	U	Calcium	495316	1	50600	0.10	na	na
Cadmium	MPT-45-A3-2'	0.48		Calcium	495316	-5	50600	-0.51	J	na
Chromium	MPT-45-A3-2'	8.8		Calcium	495316	1	50600	0.10	na	na
Cobalt	MPT-45-A3-2'	1.0		Calcium	495316	-3	50600	-0.31	J	na
Lead	MPT-45-A3-2'	22.1		Calcium	495316	-2	50600	-0.20	na	na
Manganese	MPT-45-A3-2'	35.1		Calcium	495316	9	50600	0.92	na	na
Nickel	MPT-45-A3-2'	15.9		Calcium	495316	-20	50600	-2.04	J	na
Selenium	MPT-45-A3-2'	0.48		Calcium	495316	-6	50600	-0.61	J	na
Silver	MPT-45-A3-2'	4.2		Calcium	495316	-6	50600	-0.61	J	na
Sodium	MPT-45-A3-2'	356		Calcium	495316	38	50600	3.88	na	na
Thallium	MPT-45-A3-2'	0.49	U	Calcium	495316	7	50600	0.72	na	na
Zinc	MPT-45-A3-2'	130		Calcium	495316	6	50600	0.61	na	na

Affected Analyte	Sample	Reported Result	Qualifier	Interferent	Interferent level in ICS	Conc. ICS	Interferent Level	Est. Interference	Validation Action	Validation Action
Antimony	MPT-45-A4-2'	2.1		Calcium	495316	-5	39800	-0.40	J	na
Arsenic	MPT-45-A4-2'	1.2		Calcium	495316	4	39800	0.32	J	na
Barium	MPT-45-A4-2'	62.0		Calcium	495316	1	39800	0.08	na	na
Beryllium	MPT-45-A4-2'	0.10	U	Calcium	495316	1	39800	0.08	na	na
Cadmium	MPT-45-A4-2'	1.2		Calcium	495316	-5	39800	-0.40	J	na
Chromium	MPT-45-A4-2'	11.6		Calcium	495316	1	39800	0.08	na	na
Cobalt	MPT-45-A4-2'	0.79		Calcium	495316	-3	39800	-0.24	J	na
Lead	MPT-45-A4-2'	26.6		Calcium	495316	-2	39800	-0.16	na	na
Manganese	MPT-45-A4-2'	34.9		Calcium	495316	9	39800	0.72	na	na
Nickel	MPT-45-A4-2'	23.8		Calcium	495316	-20	39800	-1.61	na	na
Selenium	MPT-45-A4-2'	0.57		Calcium	495316	-6	39800	-0.48	J	na
Silver	MPT-45-A4-2'	4.7		Calcium	495316	-6	39800	-0.48	J	na
Sodium	MPT-45-A4-2'	259		Calcium	495316	38	39800	3.05	na	na
Thallium	MPT-45-A4-2'	0.42	U	Calcium	495316	7	39800	0.56	na	na
Zinc	MPT-45-A4-2'	206		Calcium	495316	6	39800	0.48	na	na

Affected Analyte	Sample	Reported Result	Qualifier	Interferent	Interferent level in ICS	Conc. ICS	Interferent Level	Est. Interference	Validation Action	Validation Action
Antimony	MPT-45-B1-2'	1.4		Calcium	495316	-5	35800	-0.36	J	na
Arsenic	MPT-45-B1-2'	0.98		Calcium	495316	4	35800	0.29	J	na
Barium	MPT-45-B1-2'	57.2		Calcium	495316	1	35800	0.07	na	na
Beryllium	MPT-45-B1-2'	0.10	U	Calcium	495316	1	35800	0.07	na	na
Cadmium	MPT-45-B1-2'	0.58		Calcium	495316	-5	35800	-0.36	J	na
Chromium	MPT-45-B1-2'	13.8		Calcium	495316	1	35800	0.07	na	na
Cobalt	MPT-45-B1-2'	1.3		Calcium	495316	-3	35800	-0.22	J	na
Lead	MPT-45-B1-2'	27.7		Calcium	495316	-2	35800	-0.14	na	na
Manganese	MPT-45-B1-2'	42.7		Calcium	495316	9	35800	0.65	na	na
Nickel	MPT-45-B1-2'	58.2		Calcium	495316	-20	35800	-1.45	na	na
Selenium	MPT-45-B1-2'	0.30		Calcium	495316	-6	35800	-0.43	J	na
Silver	MPT-45-B1-2'	4.6		Calcium	495316	-6	35800	-0.43	na	na
Sodium	MPT-45-B1-2'	208		Calcium	495316	38	35800	2.75	na	na
Thallium	MPT-45-B1-2'	0.34	U	Calcium	495316	7	35800	0.51	na	na
Zinc	MPT-45-B1-2'	215		Calcium	495316	6	35800	0.43	na	na

Affected Analyte	Sample	Reported Result	Qualifier	Interferent	Interferent level in ICS	Conc. ICS	Interferent Level	Est. Interference	Validation Action	Validation Action
Antimony	MPT-45-B2-2'	2.0		Calcium	495316	-5	72800	-0.73	J	na
Arsenic	MPT-45-B2-2'	1.2		Calcium	495316	4	72800	0.59	J	na
Barium	MPT-45-B2-2'	20.0		Calcium	495316	1	72800	0.15	na	na
Beryllium	MPT-45-B2-2'	0.07	U	Calcium	495316	1	72800	0.15	na	na
Cadmium	MPT-45-B2-2'	0.35		Calcium	495316	-5	72800	-0.73	J	na
Chromium	MPT-45-B2-2'	9.1		Calcium	495316	1	72800	0.15	na	na
Cobalt	MPT-45-B2-2'	0.73		Calcium	495316	-3	72800	-0.44	J	na
Lead	MPT-45-B2-2'	34.8		Calcium	495316	-2	72800	-0.29	na	na
Manganese	MPT-45-B2-2'	55.8		Calcium	495316	9	72800	1.32	na	na
Nickel	MPT-45-B2-2'	15.0		Calcium	495316	-20	72800	-2.94	J	na
Selenium	MPT-45-B2-2'	0.32		Calcium	495316	-6	72800	-0.88	J	na
Silver	MPT-45-B2-2'	1.5		Calcium	495316	-6	72800	-0.88	J	na
Sodium	MPT-45-B2-2'	446		Calcium	495316	38	72800	5.59	na	na
Thallium	MPT-45-B2-2'	0.46	U	Calcium	495316	7	72800	1.03	na	na
Zinc	MPT-45-B2-2'	207		Calcium	495316	6	72800	0.88	na	na

Affected Analyte	Sample	Reported Result	Qualifier	Interferent	Interferent level in ICS	Conc. ICS	Interferent Level	Est. Interference	Validation Action	Validation Action
Antimony	MPT-45-B3-2'	1.3		Calcium	495316	-5	47100	-0.48	J	na
Arsenic	MPT-45-B3-2'	0.74		Calcium	495316	4	47100	0.38	J	na
Barium	MPT-45-B3-2'	51.5		Calcium	495316	1	47100	0.10	na	na
Beryllium	MPT-45-B3-2'	0.1	U	Calcium	495316	1	47100	0.10	na	na
Cadmium	MPT-45-B3-2'	0.80		Calcium	495316	-5	47100	-0.48	J	na
Chromium	MPT-45-B3-2'	10.2		Calcium	495316	1	47100	0.10	na	na
Cobalt	MPT-45-B3-2'	0.71		Calcium	495316	-3	47100	-0.29	J	na
Lead	MPT-45-B3-2'	23.0		Calcium	495316	-2	47100	-0.19	na	na
Manganese	MPT-45-B3-2'	37.6		Calcium	495316	9	47100	0.86	na	na
Nickel	MPT-45-B3-2'	21.2		Calcium	495316	-20	47100	-1.90	na	na
Selenium	MPT-45-B3-2'	0.45		Calcium	495316	-6	47100	-0.57	J	na
Silver	MPT-45-B3-2'	3.2		Calcium	495316	-6	47100	-0.57	J	na
Sodium	MPT-45-B3-2'	173		Calcium	495316	38	47100	3.61	na	na
Thallium	MPT-45-B3-2'	0.25	U	Calcium	495316	7	47100	0.67	na	na
Zinc	MPT-45-B3-2'	188		Calcium	495316	6	47100	0.57	na	na

Affected Analyte	Sample	Reported Result	Qualifier	Interferent	Interferent level in ICS	Conc. ICS	Interferent Level	Est. Interference	Validation Action	Validation Action
Antimony	MPT-45-B4-2'	6.5		Calcium	495316	-5	31600	-0.32	na	na
Arsenic	MPT-45-B4-2'	1.2		Calcium	495316	4	31600	0.26	J	na
Barium	MPT-45-B4-2'	70.2		Calcium	495316	1	31600	0.06	na	na
Beryllium	MPT-45-B4-2'	0.09	U	Calcium	495316	1	31600	0.06	na	na
Cadmium	MPT-45-B4-2'	1.2		Calcium	495316	-5	31600	-0.32	J	na
Chromium	MPT-45-B4-2'	14.3		Calcium	495316	1	31600	0.06	na	na
Cobalt	MPT-45-B4-2'	0.85		Calcium	495316	-3	31600	-0.19	J	na
Lead	MPT-45-B4-2'	32.8		Calcium	495316	-2	31600	-0.13	na	na
Manganese	MPT-45-B4-2'	26.0		Calcium	495316	9	31600	0.57	na	na
Nickel	MPT-45-B4-2'	14.8		Calcium	495316	-20	31600	-1.28	na	na
Selenium	MPT-45-B4-2'	0.74		Calcium	495316	-6	31600	-0.38	J	na
Silver	MPT-45-B4-2'	6.6		Calcium	495316	-6	31600	-0.38	na	na
Sodium	MPT-45-B4-2'	185		Calcium	495316	38	31600	2.42	na	na
Thallium	MPT-45-B4-2'	0.31	U	Calcium	495316	7	31600	0.45	na	na
Zinc	MPT-45-B4-2'	224		Calcium	495316	6	31600	0.38	na	na

Affected Analyte	Sample	Reported Result	Qualifier	Interferent	Interferent level in ICS	Conc. ICS	Interferent Level	Est. Interference	Validation Action	Validation Action
Antimony	MPT-45-C1-2'	0.63		Calcium	495316	-5	66300	-0.67	J	na
Arsenic	MPT-45-C1-2'	0.90		Calcium	495316	4	66300	0.54	J	na
Barium	MPT-45-C1-2'	14.5		Calcium	495316	1	66300	0.13	na	na
Beryllium	MPT-45-C1-2'	0.09	U	Calcium	495316	1	66300	0.13	na	na
Cadmium	MPT-45-C1-2'	0.19	U	Calcium	495316	-5	66300	-0.67	na	UJ
Chromium	MPT-45-C1-2'	7.2		Calcium	495316	1	66300	0.13	na	na
Cobalt	MPT-45-C1-2'	0.66		Calcium	495316	-3	66300	-0.40	J	na
Lead	MPT-45-C1-2'	10.4		Calcium	495316	-2	66300	-0.27	na	na
Manganese	MPT-45-C1-2'	25.1		Calcium	495316	9	66300	1.20	na	na
Nickel	MPT-45-C1-2'	11.1		Calcium	495316	-20	66300	-2.68	J	na
Selenium	MPT-45-C1-2'	0.17	U	Calcium	495316	-6	66300	-0.80	na	UJ
Silver	MPT-45-C1-2'	0.64		Calcium	495316	-6	66300	-0.80	J	na
Sodium	MPT-45-C1-2'	194		Calcium	495316	38	66300	5.09	na	na
Thallium	MPT-45-C1-2'	0.32	U	Calcium	495316	7	66300	0.94	na	na
Zinc	MPT-45-C1-2'	66.7		Calcium	495316	6	66300	0.80	na	na

Affected Analyte	Sample	Reported Result	Qualifier	Interferent	Interferent level in ICS	Conc. ICS	Interferent Level	Est. Interference	Validation Action	Validation Action
Antimony	MPT-45-C4-2'	1.4		Calcium	495316	-5	112000	-1.13	J	na
Arsenic	MPT-45-C4-2'	1.1		Calcium	495316	4	112000	0.90	J	na
Barium	MPT-45-C4-2'	21.0		Calcium	495316	1	112000	0.23	na	na
Beryllium	MPT-45-C4-2'	0.12	U	Calcium	495316	1	112000	0.23	na	na
Cadmium	MPT-45-C4-2'	0.38		Calcium	495316	-5	112000	-1.13	J	na
Chromium	MPT-45-C4-2'	7.9		Calcium	495316	1	112000	0.23	na	na
Cobalt	MPT-45-C4-2'	0.75		Calcium	495316	-3	112000	-0.68	J	na
Lead	MPT-45-C4-2'	65.1		Calcium	495316	-2	112000	-0.45	na	na
Manganese	MPT-45-C4-2'	33.3		Calcium	495316	9	112000	2.04	na	na
Nickel	MPT-45-C4-2'	13.8		Calcium	495316	-20	112000	-4.52	J	na
Selenium	MPT-45-C4-2'	0.19	U	Calcium	495316	-6	112000	-1.36	na	UJ
Silver	MPT-45-C4-2'	0.91		Calcium	495316	-6	112000	-1.36	J	na
Sodium	MPT-45-C4-2'	342		Calcium	495316	38	112000	8.59	na	na
Thallium	MPT-45-C4-2'	0.26	U	Calcium	495316	7	112000	1.58	na	na
Zinc	MPT-45-C4-2'	73.8		Calcium	495316	6	112000	1.36	na	na

Affected Analyte	Sample	Reported Result	Qualifier	Interferent	Interferent level in ICS	Conc. ICS	Interferent Level	Est. Interference	Validation Action	Validation Action
Antimony	MPT-45-D3-2'	0.37		Calcium	495316	-5	266000	-2.69	J	na
Arsenic	MPT-45-D3-2'	1.1		Calcium	495316	4	266000	2.15	J	na
Barium	MPT-45-D3-2'	18.2		Calcium	495316	1	266000	0.54	na	na
Beryllium	MPT-45-D3-2'	0.14	U	Calcium	495316	1	266000	0.54	na	na
Cadmium	MPT-45-D3-2'	1.9		Calcium	495316	-5	266000	-2.69	J	na
Chromium	MPT-45-D3-2'	11.3		Calcium	495316	1	266000	0.54	na	na
Cobalt	MPT-45-D3-2'	0.62		Calcium	495316	-3	266000	-1.61	J	na
Lead	MPT-45-D3-2'	29.2		Calcium	495316	-2	266000	-1.07	na	na
Manganese	MPT-45-D3-2'	52.7		Calcium	495316	9	266000	4.83	na	na
Nickel	MPT-45-D3-2'	6.2		Calcium	495316	-20	266000	-10.74	J	na
Selenium	MPT-45-D3-2'	0.20	U	Calcium	495316	-6	266000	-3.22	na	UJ
Silver	MPT-45-D3-2'	0.30	U	Calcium	495316	-6	266000	-3.22	na	UJ
Sodium	MPT-45-D3-2'	70.6		Calcium	495316	38	266000	20.41	J	na
Thallium	MPT-45-D3-2'	0.23	U	Calcium	495316	7	266000	3.76	na	na
Zinc	MPT-45-D3-2'	64.8		Calcium	495316	6	266000	3.22	na	na

Affected Analyte	Sample	Reported Result	Qualifier	Interferent	Interferent level in ICS	Conc. ICS	Interferent Level	Est. Interference	Validation Action	Validation Action
Antimony	MPT-45-E4-5'	0.49		Calcium	495316	-5	64000	-0.65	J	na
Arsenic	MPT-45-E4-5'	1.5		Calcium	495316	4	64000	0.52	J	na
Barium	MPT-45-E4-5'	6.4		Calcium	495316	1	64000	0.13	na	na
Beryllium	MPT-45-E4-5'	0.11	U	Calcium	495316	1	64000	0.13	na	na
Cadmium	MPT-45-E4-5'	0.20	U	Calcium	495316	-5	64000	-0.65	na	UJ
Chromium	MPT-45-E4-5'	5.5		Calcium	495316	1	64000	0.13	na	na
Cobalt	MPT-45-E4-5'	1.2		Calcium	495316	-3	64000	-0.39	J	na
Lead	MPT-45-E4-5'	4.3		Calcium	495316	-2	64000	-0.26	na	na
Manganese	MPT-45-E4-5'	35.1		Calcium	495316	9	64000	1.16	na	na
Nickel	MPT-45-E4-5'	5.7		Calcium	495316	-20	64000	-2.58	J	na
Selenium	MPT-45-E4-5'	0.17	U	Calcium	495316	-6	64000	-0.78	na	UJ
Silver	MPT-45-E4-5'	0.27	U	Calcium	495316	-6	64000	-0.78	na	UJ
Sodium	MPT-45-E4-5'	601		Calcium	495316	38	64000	4.91	na	na
Thallium	MPT-45-E4-5'	0.36	U	Calcium	495316	7	64000	0.90	na	na
Zinc	MPT-45-E4-5'	12.6		Calcium	495316	6	64000	0.78	na	na

Sample Calculation: Sample MPT-45-E4-2' Arsenic

$0.02999\ \frac{mg}{L} \times \frac{1\ L}{1000\ ml} \times \frac{100\ ml}{1.13\ g} \times \frac{1000\ g}{Kg} \times \frac{1}{.874} = 3.0\ mg/kg\ dry$

NS mg/kg
CTO 091
SDG WU0050

Elem	2203/2	1960/1	1960/2
Units			
Avge	.02797	.00464	-.00422
SDev	.00039	.00090	.00324
%RSD	1.3874	19.353	76.904
#1	.02769	.00528	-.00651
#2	.02824	.00401	-.00192

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	360.063	--	--	--	--	--	--
Avge	35186	--	--	--	--	--	--
SDev	38.18377	--	--	--	--	--	--
%RSD	.1085198	--	--	--	--	--	--
#1	35213	--	--	--	--	--	--
#2	35159	--	--	--	--	--	--

Method: NONAK Sample Name: WU0050-015 Operator:
Run Time: 01/13/04 17:06:59
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al	As	Ba	Be	B	Cd	Ca
Units	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Avge	16.663	.02999	.08418	.00153	.03443	.00164	H1542.3
SDev	.057	.00003	.00032	.00011	.00109	.00035	13.3
%RSD	.34281	.08221	.37521	7.0688	3.1563	21.331	.86397
#1	16.703	.02997	.08441	.00145	.03520	.00188	H1532.9
#2	16.623	.03001	.08396	.00161	.03366	.00139	H1551.7

Elem	Cr	Co	Cu	Fe	Mg	Mn	Mo
Units	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Avge	.04702	.01563	.05263	18.297	7.8948	.56052	.00283
SDev	.00005	.00001	.00014	.052	.0073	.00058	.00031
%RSD	.11228	.03136	.26961	.28628	.09214	.10323	10.875
#1	.04698	.01562	.05273	18.260	7.8896	.56011	.00261
#2	.04705	.01563	.05252	18.334	7.8999	.56093	.00305

Elem	Ni	Ag	Sr	Tl	Sn	Ti	V
Units	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Avge	.01994	.00019	H5.2315	.00410	.01927	.29105	.05039
SDev	.00001	.00008	.0141	.00487	.00040	.00119	.00006
%RSD	.03160	43.128	.26949	118.66	2.0809	.40719	.11428
#1	.01995	.00024	H5.2415	.00066	.01898	.29021	.05035
#2	.01994	.00013	H5.2216	.00755	.01955	.29189	.05043

Elem	Zn	Pb	Se	Sb	2068/1	2068/2	2203/1
Units	mg/L	mg/L	mg/L	mg/L			
Avge	.11188	.05335	-.00357	.00929	.01067	.00826	.06020
SDev	.00042	.00026	.00025	.00023	.00394	.00159	.00124